

Women, Minorities, and Persons with Disabilities in Science and Engineering



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2007 Women, Minorities, and Persons with Disabilities in Science and Engineering



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About This Report

Women, Minorities, and Persons with Disabilities in Science and Engineering provides information about the participation of women, minorities, and persons with disabilities in science and engineering education and employment. Its primary purpose is to serve as an information source; it offers no endorsement of or recommendations about policies or programs. National Science Foundation reporting on this topic is mandated by the Science and Engineering Equal Opportunities Act (Public Law 96-516).

The Web site (<http://www.nsf.gov/statistics/wmpd>) contains data tables organized by topic (e.g., undergraduate enrollment, graduate degrees, employment) and also by group (e.g., Hispanics, minority women, persons with disabilities). Presentation slides, which are charts in PowerPoint, graphic, and spreadsheet formats, are provided for easy downloading. Furthermore, links to additional data sources (e.g., National Center for Education Statistics, American Council on Education) and reports on these topics are provided.

A complete update of the report is issued every 2 years. Tables and figures in the report are current as of the Web-release date, which appears at the bottom of each table and figure. The site is updated as new information becomes available.

Racial/Ethnic Information

In October 1997, the U.S. Office of Management and Budget announced new government-wide standards for the collection of data on race and ethnicity (published as U.S. OMB 1999) effective January 1, 2003. Previously, racial/ethnic groups were identified as white, non-Hispanic; black, non-Hispanic; Hispanic; Asian or Pacific Islander; and American Indian or Alaskan Native. Because the old standards were in effect when the data for this report were collected, the racial/ethnic groups described here are designated by the old standards. Where data collection permits, subgroups of the Hispanic population are identified (e.g., Mexican, Puerto Rican).

Many of the groups of particular interest are quite small, so that it is difficult to measure them accurately without surveys of the entire population. In some instances,

sample surveys may not have been of sufficient scope to permit calculation of reliable racial/ethnic population estimates; consequently, results are not shown for all groups. The Bureau of the Census's Current Population Survey, for example, cannot provide data on American Indians. Data on this population are available only from the decennial census. Another issue related to race/ethnicity is that it is easy to overlook or minimize heterogeneity within subgroups when only a single statistic is reported for an entire racial/ethnic group.

Data on race/ethnicity are often based on self-identification. These data are less reliable for certain racial/ethnic groups than for others. For example, data collected at two points in time indicate that self-identification of American Indians is much less reliable than self-identification of other racial/ethnic groups.¹

Information About People with Disabilities

Data on people in science and engineering who have disabilities are seriously limited for several reasons. First, the operational definitions of disability vary, include a wide range of physical and mental conditions, and thus are not totally comparable. The Americans With Disabilities Act of 1990 (ADA) encouraged progress toward standard definitions. Under ADA, an individual is considered to have a disability if he or she has a physical or mental impairment that substantially limits one or more of his or her major life activities, has a record of such impairment, or is regarded as having such an impairment. ADA also contains definitions of specific disabilities. See <http://www.ada.gov/pubs/ada.htm>.

Second, data on disabilities frequently are not included in comprehensive institutional records (e.g., in registrars' records in institutions of higher education). If included at all, such information is likely to be kept only in confidential files at an office responsible for providing special services to students. Institutions of higher

¹ U.S. Bureau of Labor Statistics, *A Test of Methods for Collecting Racial and Ethnic Information* (Washington, DC: U.S. Department of Labor, 1995).

education are unlikely to have information regarding any students with disabilities who have not requested special services. In elementary and secondary school programs receiving funds to provide special education, however, statistics on all students identified as having special needs are centrally available.

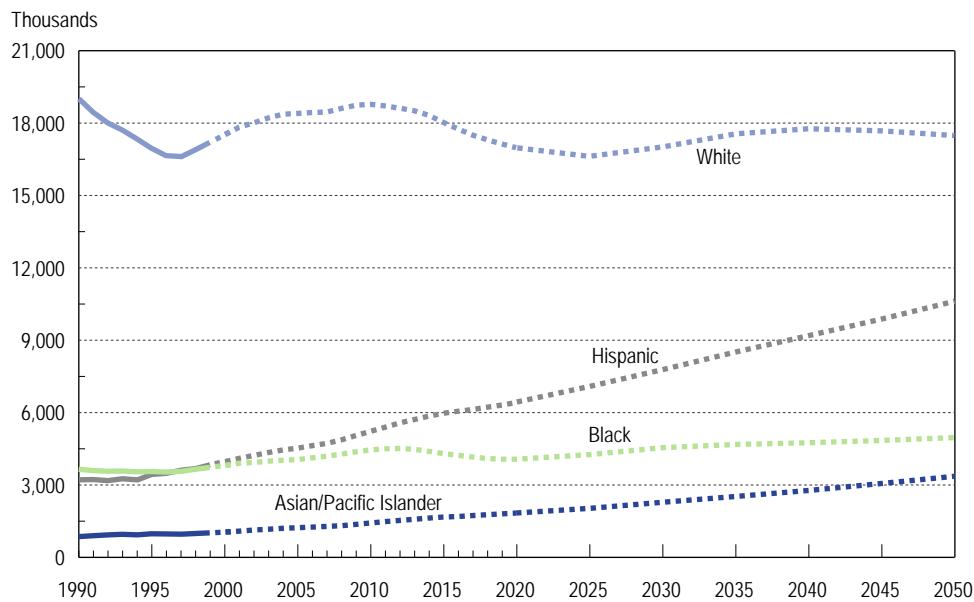
Third, information about people with disabilities that is gathered from surveys is often obtained from self-reported responses. Typically, respondents are asked whether they have a disability and to specify what kind of disability it is. Resulting data therefore reflect individual perceptions rather than objective measures.

The attempt to provide estimates of the proportion of the undergraduate student population with disabilities is an

example of how these factors coalesce. Self-reported data on the undergraduate student population, collected through a survey to ascertain patterns of student financial aid, suggest that about 10 percent of this population have a disability. Estimates from population surveys of higher education institutions, in contrast, place the estimate much lower, between 1 and 5 percent. Whether this discrepancy is the result of self-perception, incomplete reporting, nonevident disabilities, or differing definitions is difficult to ascertain.

In the final analysis, although considerable information is available about the number of individuals with disabilities in the education system and in the science and engineering workforce, it is often impossible to compare statistics from different sources.

FIGURE A-1. U.S. population 18–24 years old, by race/ethnicity: July 1990–99 and projections to 2050



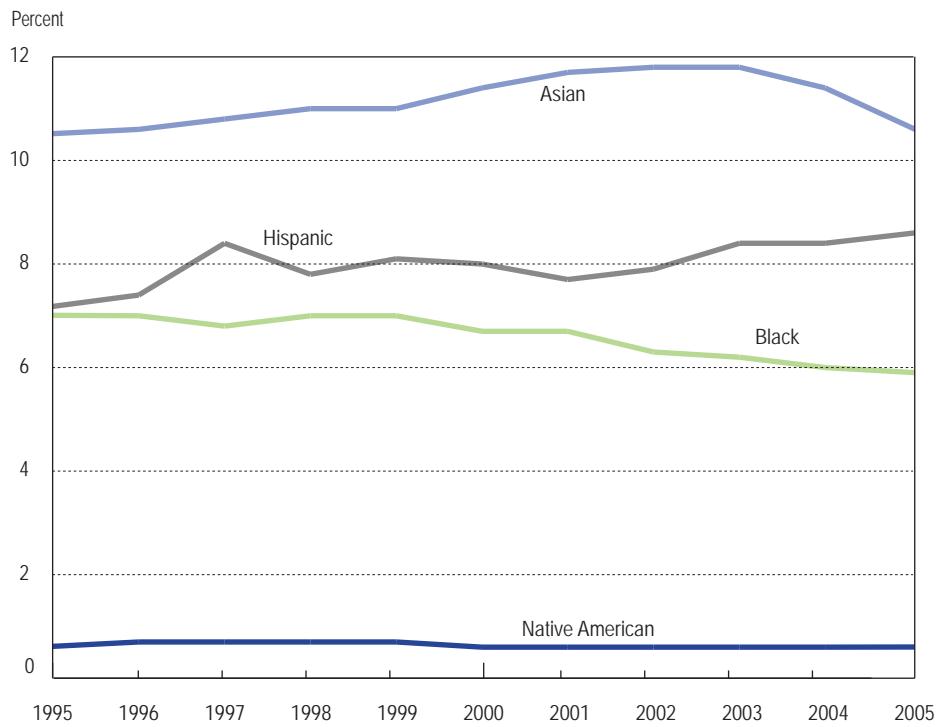
NOTE: Hispanics may be of any race. Data for American Indians/Alaskan Natives are not shown but can be found in table A-2.

SOURCE: U.S. Bureau of the Census, Current Population Survey, annual series; and U.S. Bureau of the Census, *Projections of the Total Resident Population by 5-Year Age Groups, and Sex With Special Age Categories: Middle Series, 1999 to 2100*, NP-T3, <http://www.census.gov/population/www/projections/natsum-T3.html>

The proportion of the U.S. population that is minority will continue to rise in the first half of the 21st century.

- According to the latest population projections, minorities (Asians/Pacific Islanders, blacks, Hispanics, and American Indians/Alaskan Natives) are expected to be more than half (52 percent) of the resident college-age (18–24 years old) population of the United States by 2050, up from 34 percent in 1999.
- By 2050, whites would constitute 48 percent of the U.S. population 18–24 years old, down from 66 percent in 1999.
- The greatest growth among minority groups is projected for Hispanics and Asians/Pacific Islanders, reflecting immigration trends.
- Relatively little growth is projected for college-age blacks and American Indians/Alaskan Natives; these populations would remain 14 and 0.9 percent, respectively, of all U.S. 18–24-year-olds in 2050.

FIGURE B-1. Minority undergraduate engineering students, by race/ethnicity: 1995–2005



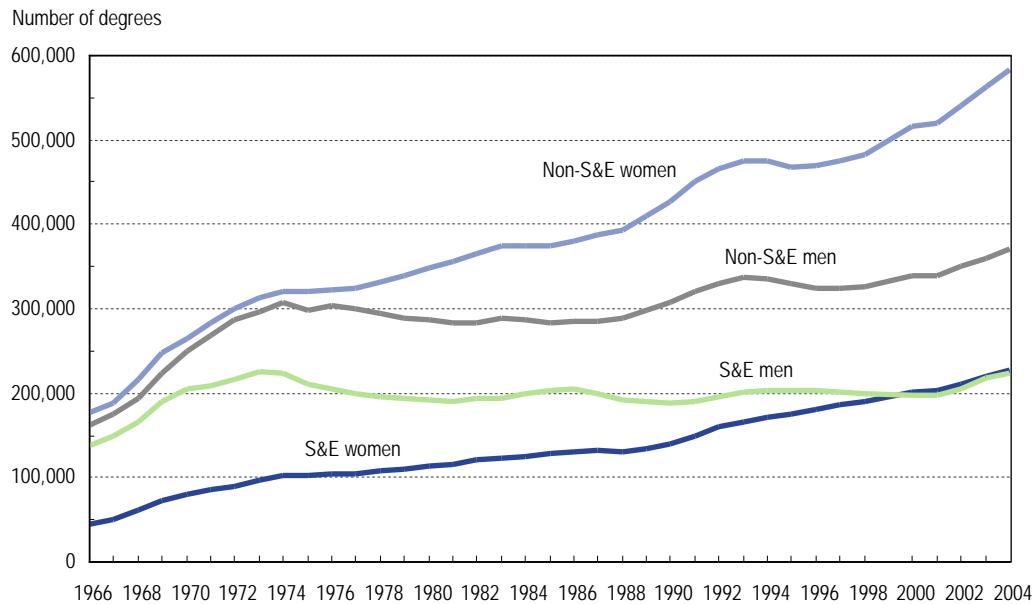
NOTE: Race/ethnicity breakouts are for U.S. citizens and permanent residents only.

SOURCE: Engineering Workforce Commission, Engineering & Technology Enrollments: Fall 2005 (Washington, DC, 2006).

Minorities, with the exception of Hispanics, show no increase in their proportion of undergraduate engineering enrollment over the past 10 years.

- The percentage of undergraduate engineering students who are white was 69 percent in 1995 and in 2005.
- The Asian share of undergraduate engineering enrollment increased between 1990 and 2003 and has decreased since then.
- Black students were roughly 7 percent of engineering undergraduates from 1995 through 2001 and roughly 6 percent since then.
- Native Americans were 0.6 to 0.7 percent of undergraduate engineering enrollment from 1995 through 2005.
- Hispanic enrollment generally increased over this period, from 7 percent in 1995 to close to 9 percent in 2005.

FIGURE C-1. Bachelor's degrees awarded in S&E and non-S&E fields, by sex: 1966–2004

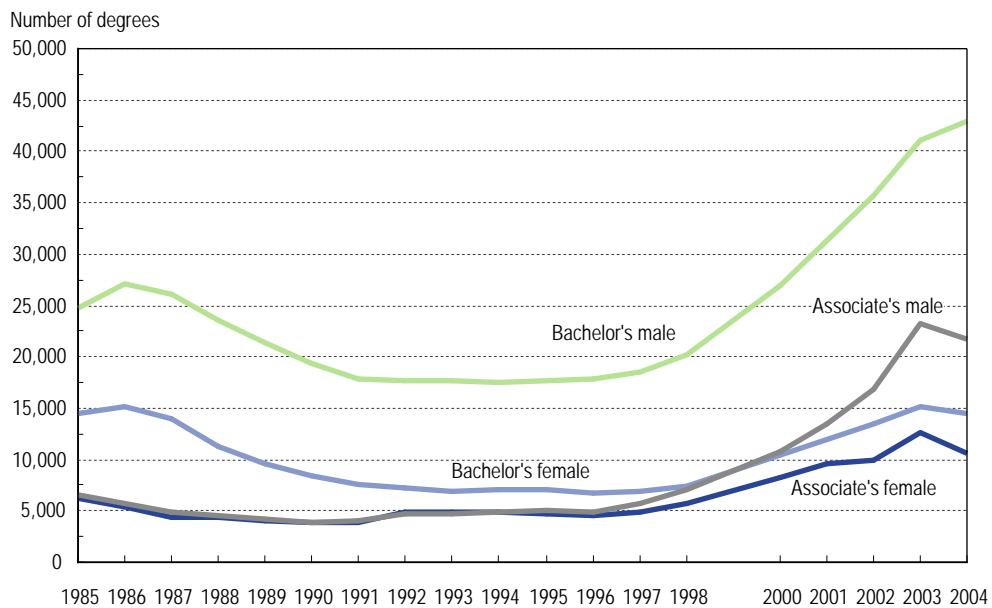


NOTE: National data not available for 1999.

SOURCE: National Science Foundation, Division of Science Resources Statistics, special tabulations of U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Completions Survey, 1966–2004.

Beginning in 2000, women earned more S&E bachelor's degrees than men.

- The number of S&E bachelor's degrees awarded to women has increased every year since 1966 (excluding 1988), reaching 227,813 in 2004.
- The number of bachelor's degrees in S&E awarded to men has fluctuated around 200,000 from 1976 to about 2001 and increased since then, reaching 224,525 in 2004.
- Women earn substantially more bachelor's degrees in non-S&E fields than men.

FIGURE C-2. Bachelor's and associate's degrees awarded in computer sciences, by sex: 1985–2004

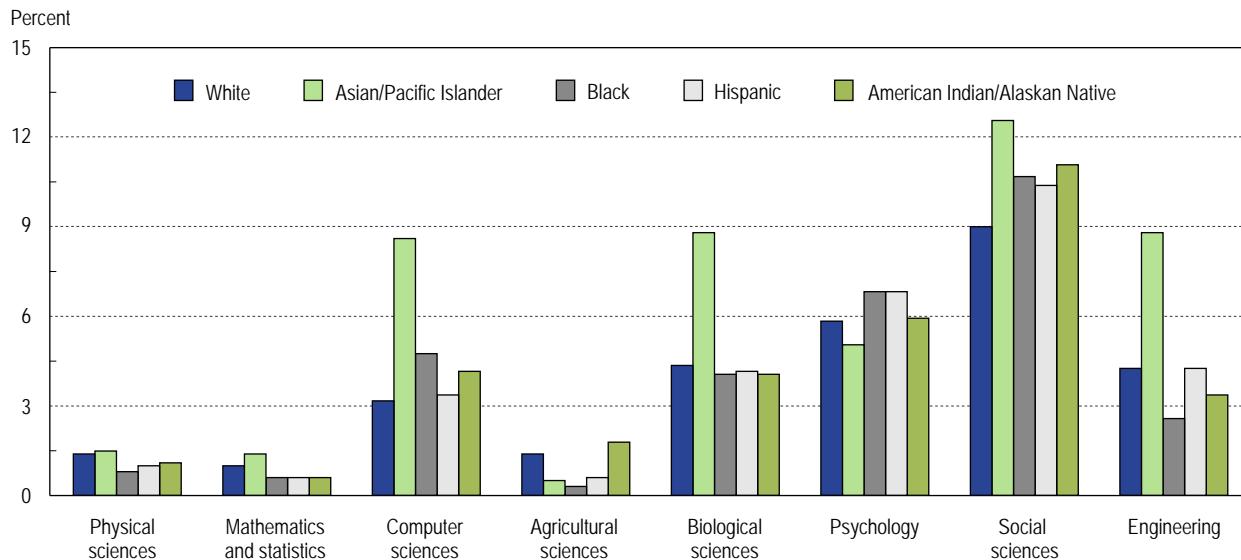
NOTE: National data not available for 1999.

SOURCE: National Science Foundation, Division of Science Resources Statistics, special tabulations of U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Completions Survey, 1985–2004.

The gap in male and female degree earners in computer science widened in recent years.

- Computer sciences bachelor's and associate's degrees earned by women dropped sharply in 2004, as did computer sciences associate's degrees earned by men.
- The number of associate's and bachelor's degrees awarded in computer sciences increased substantially since 1997, especially for men.
- The female share of bachelor's degrees in computer sciences dropped between 1985 and 2004 from 37 to 25 percent, as the number of such degrees awarded to women was about the same in 2004 as in 1985.

FIGURE C-3. Bachelor's degrees awarded to racial/ethnic groups in S&E fields: 2004

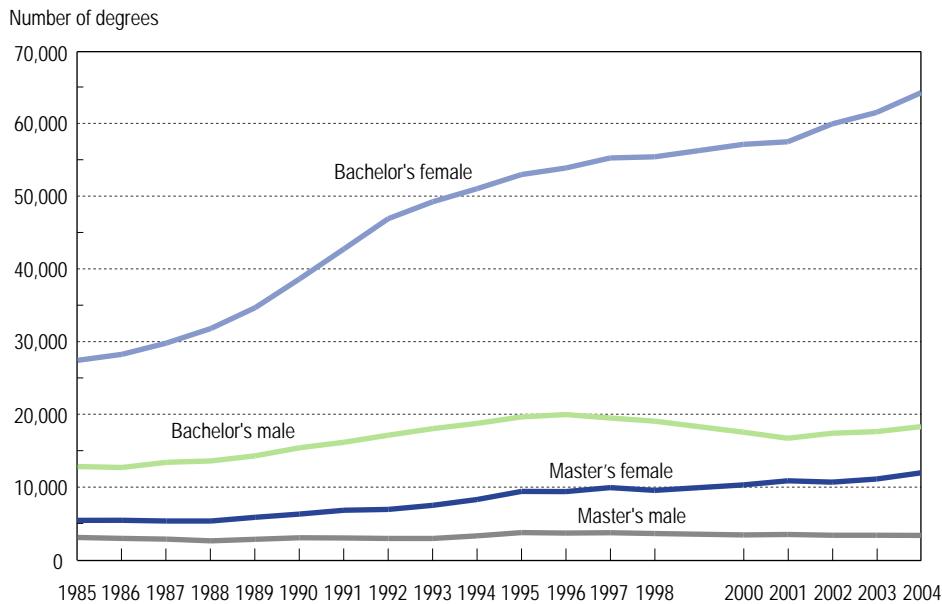


NOTE: Percents refer to percentage of each racial/ethnic group earning degrees in a given field. Physical sciences include earth, atmospheric, and ocean sciences.

SOURCE: National Science Foundation, Division of Science Resources Statistics, special tabulations of U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Completions Survey, 2004.

White, Black, Hispanic, and American Indian/Alaskan Native S&E bachelor's degree recipients are similarly distributed across most broad S&E fields.

- With the exception of Asians/Pacific Islanders, for whom almost half (48 percent) of all bachelor's degrees received are in S&E, about 31 percent of bachelor's degrees earned by each racial/ethnic group are in S&E.
- A higher percentage of Asians/Pacific Islanders than of other racial/ethnic groups earned their bachelor's degrees in computer sciences, biological sciences, and engineering.

FIGURE C-4. Bachelor's and master's degrees awarded in psychology, by sex: 1985–2004

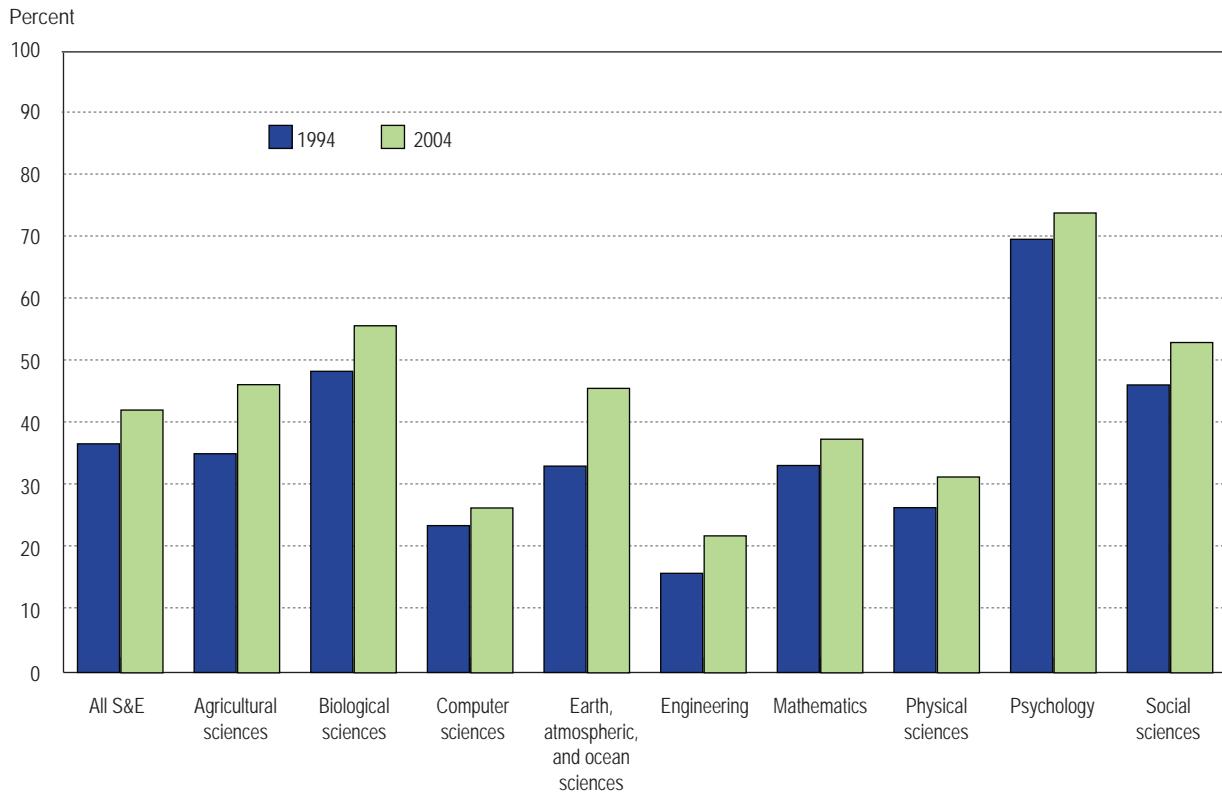
NOTE: National data not available for 1999.

SOURCE: National Science Foundation, Division of Science Resources Statistics, special tabulations of U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Completions Survey, 1985–2004.

The gap in male and female degree earners in psychology widened in recent years.

- The male share of bachelor's and masters's degrees in psychology dropped between 1985 and 2004 from 32 to 22 percent and from 36 to 22 percent, respectively.
- The number of bachelor's degrees awarded in psychology increased every year for women over this time period, whereas the number of bachelor's degrees awarded to men increased more slowly through 1996, dropped through 2001, and increased gradually through 2004.

FIGURE D-1. Female share of S&E graduate students, by field: 1994 and 2004

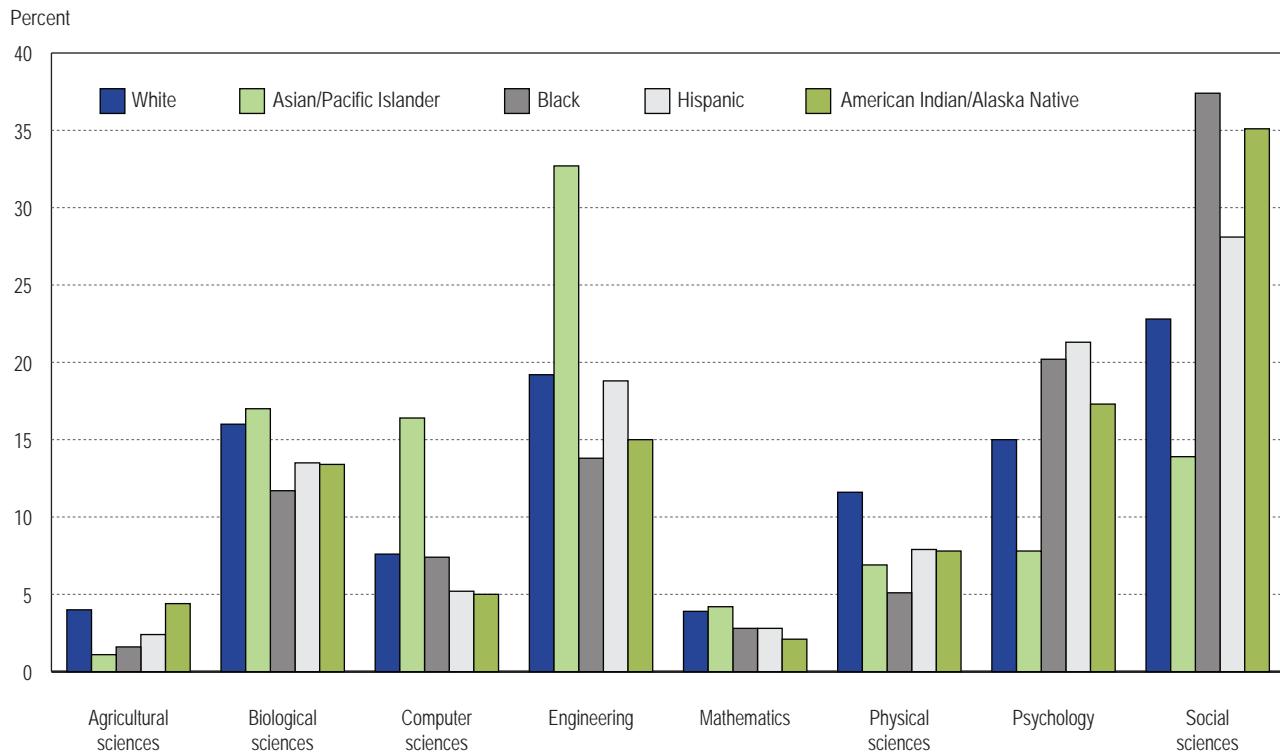


SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering, 1994 and 2004.

Women constituted a greater percentage of graduate students in S&E in 2004 (42 percent) than in 1994 (37 percent).

- Women accounted for more than half of all graduate students in some science fields. In 2004, women made up 74 percent of the graduate students in psychology, 56 percent in biological sciences, and 53 percent in social sciences.
- Women accounted for 22 percent of graduate students in engineering and 27 percent of graduate students in computer sciences in 2004.
- Roughly 30–45 percent of the graduate students in most other science fields were female.

FIGURE D-2. Field distribution of S&E graduate students, by race/ethnicity: 2004

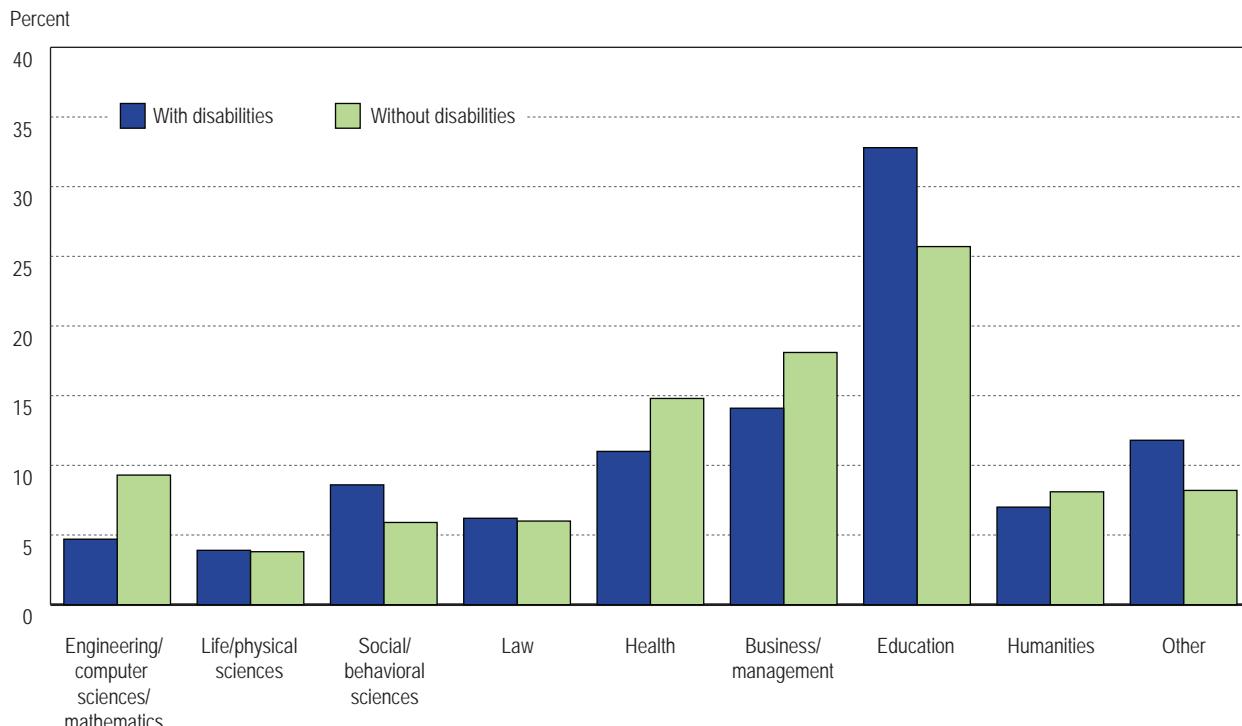


NOTES: Data are for U.S. citizens and permanent residents only. Physical sciences include earth, atmospheric, and ocean sciences.

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering, 2004.

Asian/Pacific Islander S&E graduate students are distributed among S&E fields differently from graduate students of other racial/ethnic groups.

- In 2004, about 50 percent or more of black, Hispanic, and American Indian/Alaska Native graduate students and 38 percent of white students were in psychology or social sciences, compared to 22 percent of Asian/Pacific Islander students.
- Larger percentages of Asian/Pacific Islander graduate students than of other groups were in computer sciences and engineering.

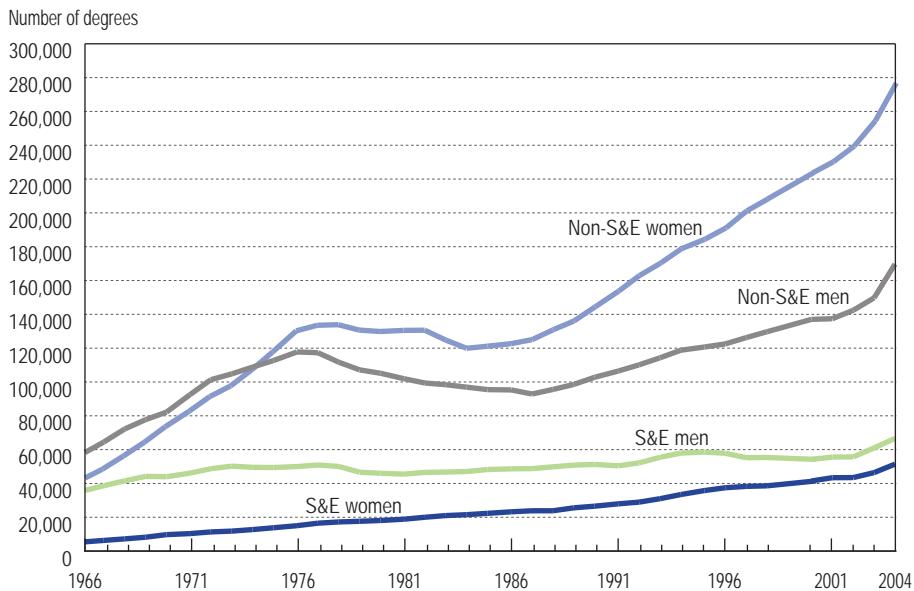
FIGURE D-3. Field distribution of graduate students, by disability status: 2004

SOURCE: U.S. Department of Education, National Center for Education Statistics, National Postsecondary Student Aid Study, 2004.

Graduate students with disabilities differ somewhat from students without disabilities in their distribution across disciplines.

- A higher percentage of graduate students with disabilities than without disabilities were in social/behavioral sciences and in education.
- Similar percentages of graduate students with and without disabilities were enrolled in graduate programs in three broad field groups: life/physical sciences; humanities; and law in 2004.
- A lower percentage of graduate students with disabilities than without was in the combined engineering/computer sciences/mathematics fields.

FIGURE E-1. Master's degrees awarded in S&E and non-S&E fields, by sex: 1966–2004



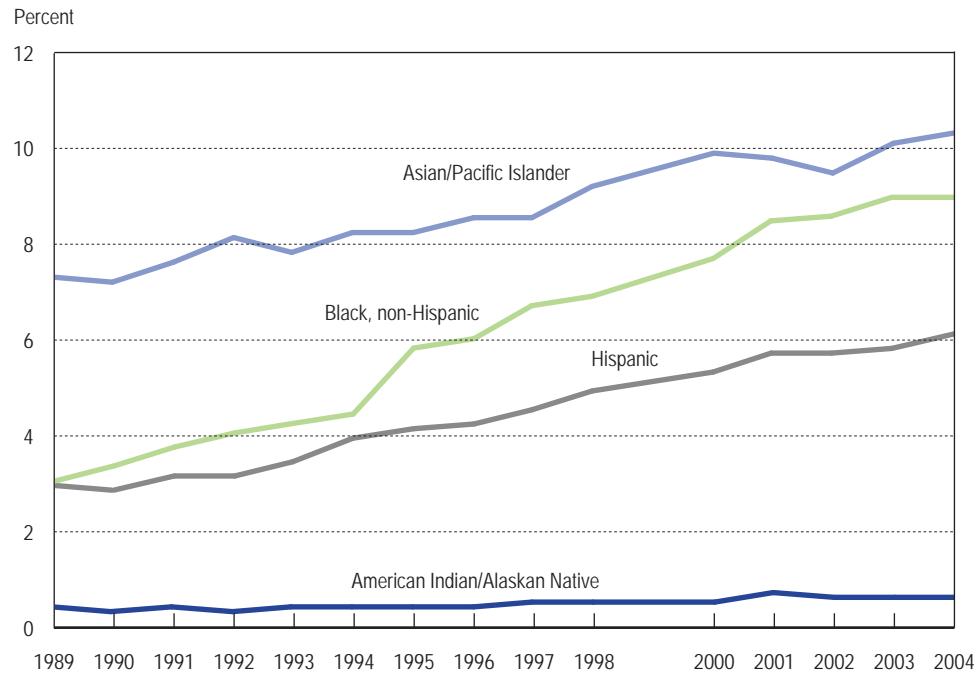
NOTE: National data not available for 1999.

SOURCE: National Science Foundation, Division of Science Resources Statistics, special tabulations of U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Completions Survey, 1966–2004.

The number of master's degrees earned by women rose more rapidly than for men since 1990.

- By 2004, women earned 44 percent of the 118,051 S&E and 63 percent of the 437,486 non-S&E master's degrees, up from 34 and 58 percent, respectively, in 1990.
- For men, the proportion of master's degrees earned in S&E fields declined throughout the 1990s.

FIGURE E-2. Minority share of S&E master's degrees awarded to U.S. citizens and permanent residents, by race/ethnicity: 1989–2004



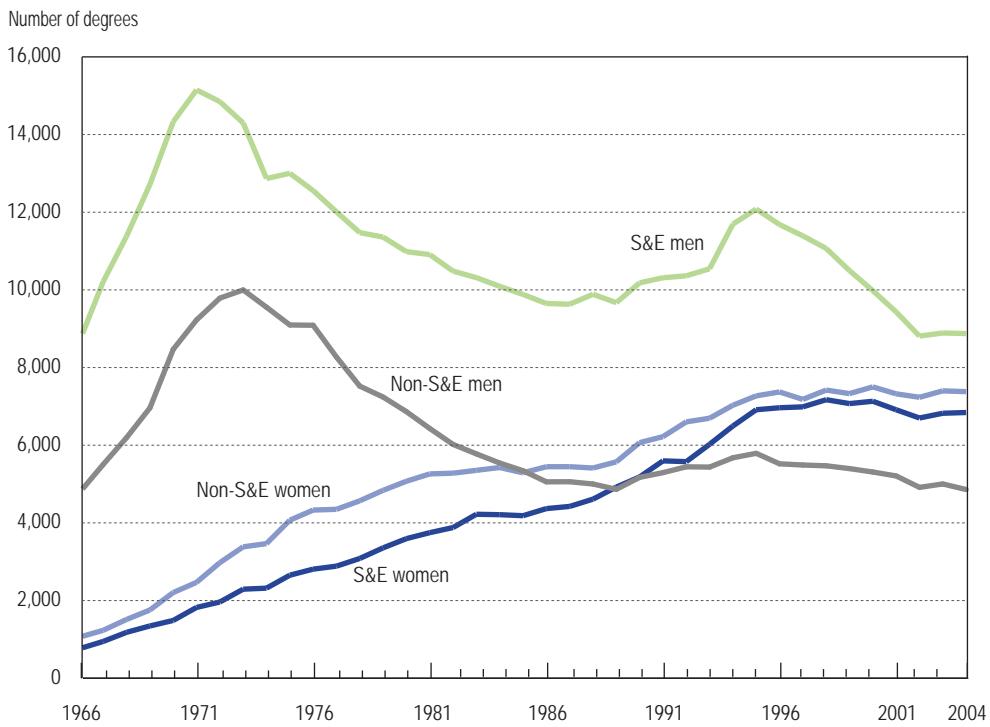
NOTE: National data not available for 1999.

SOURCE: National Science Foundation, Division of Science Resources Statistics, special tabulations of U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Completions Survey, 1966–2004.

The percentages of S&E master's degrees earned by Asians/Pacific Islanders, blacks, Hispanics, and American Indians/Alaskan Natives increased since 1990.

- The number of S&E master's degrees awarded increased for all minority groups and for white women since 1990.
- The number of S&E master's degrees earned by white men decreased from 1990 through 2002 and increased in 2003 and 2004.
- The proportion of S&E master's degrees awarded to underrepresented minorities between 1990 and 2004 more than doubled from 6 to 16 percent.

FIGURE F-1. Doctoral degrees awarded in S&E and non-S&E fields to U.S. citizens and permanent residents, by sex: 1966–2004

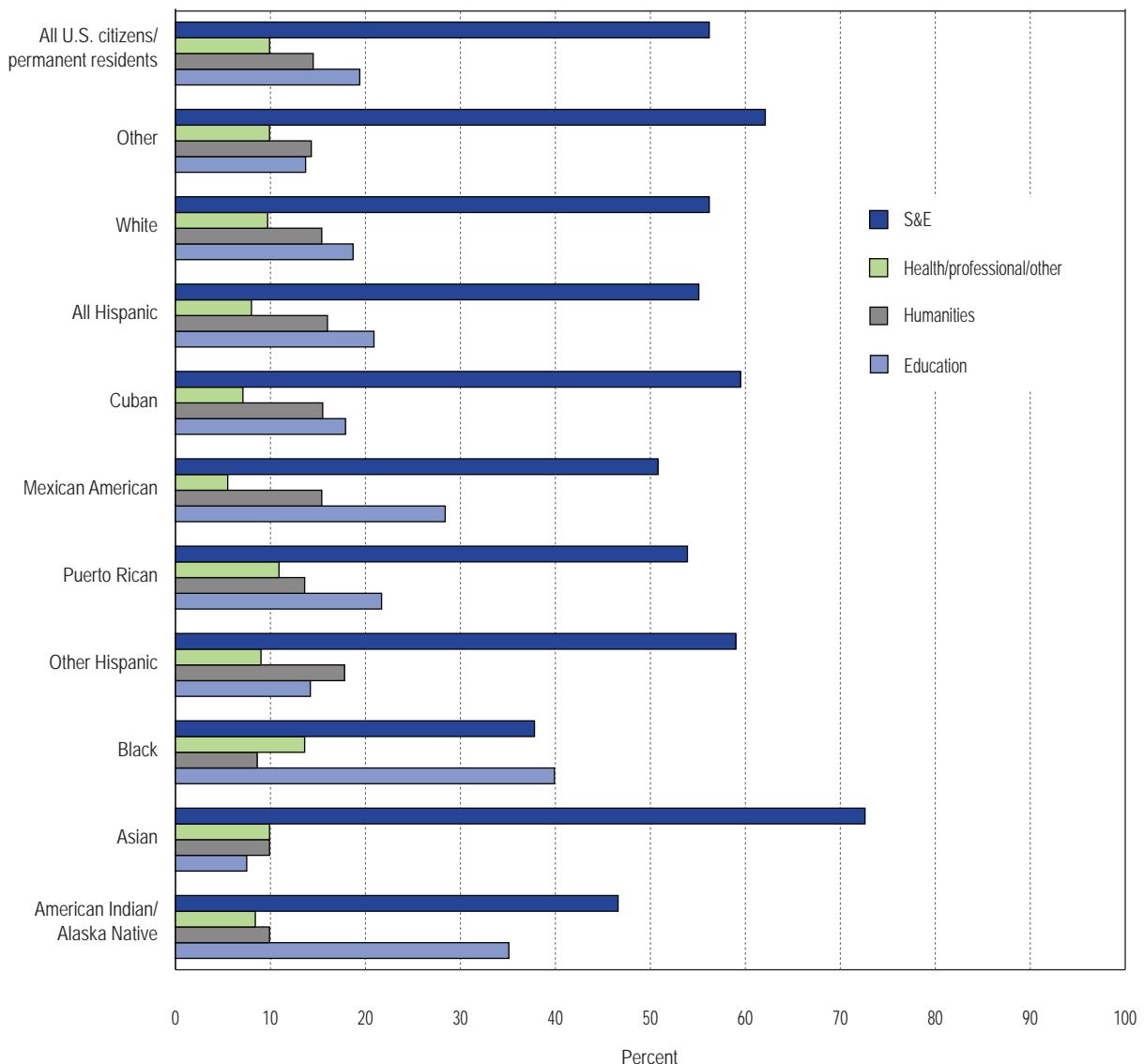


SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Earned Doctorates, 1966–2004.

Both the number of U.S. citizen and permanent resident women earning doctoral degrees and their percentage of total awards in S&E and non-S&E fields rose between 1966 and 2004.

- The number of U.S. citizen and permanent resident women earning S&E doctorates rose from 784 in 1966 to 6,914 in 1995 and remained at approximately 7,000 doctorates per year through 2004.
- The number of U.S. citizen and permanent resident men earning S&E doctoral degrees dropped from 1971 through the late 1980s and again from 1995 through 2002.
- By 2004, women earned 44 percent of S&E and 60 percent of non-S&E doctoral degrees to U.S. citizens and permanent residents, up from 8 and 18 percent, respectively, in 1966.

FIGURE F-2. Field distribution of S&E and non-S&E doctoral degrees awarded to U.S. citizens and permanent residents, by race/ethnicity: 2004

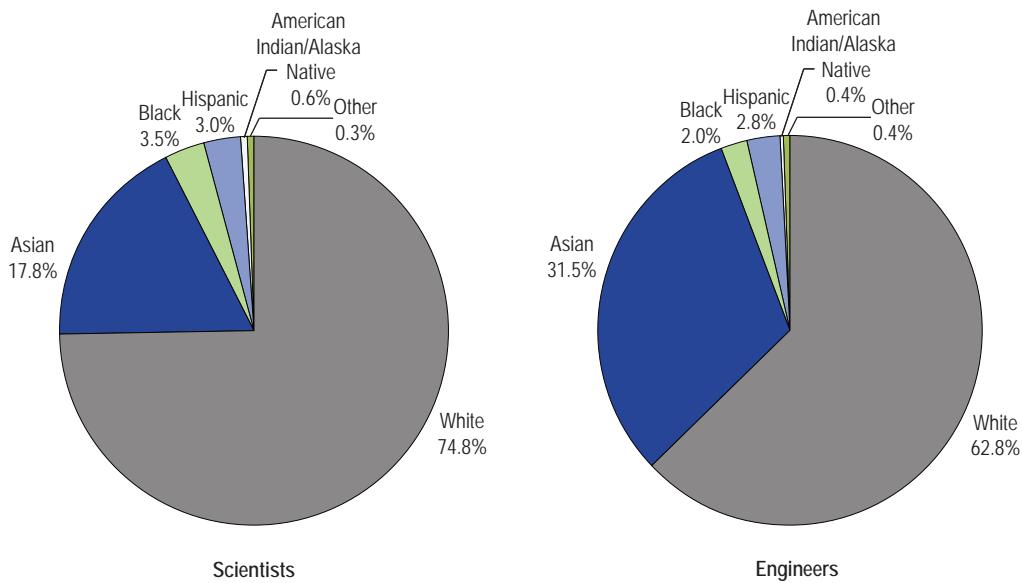


SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Earned Doctorates, 2004.

The proportion of all doctorates earned in S&E fields varies considerably across racial/ethnic groups.

- More than half of all doctorates awarded to U.S. citizens and permanent residents were earned in S&E fields in 2004.
- Among blacks, more than half of the doctorates earned in 2004 were in non-S&E fields, primarily education.
- In contrast, 73 percent of doctorates earned by Asians were in S&E fields, 8 percent were in education in 2004.

FIGURE H-1. Employed doctoral scientists and engineers, by race/ethnicity and occupation: 2003



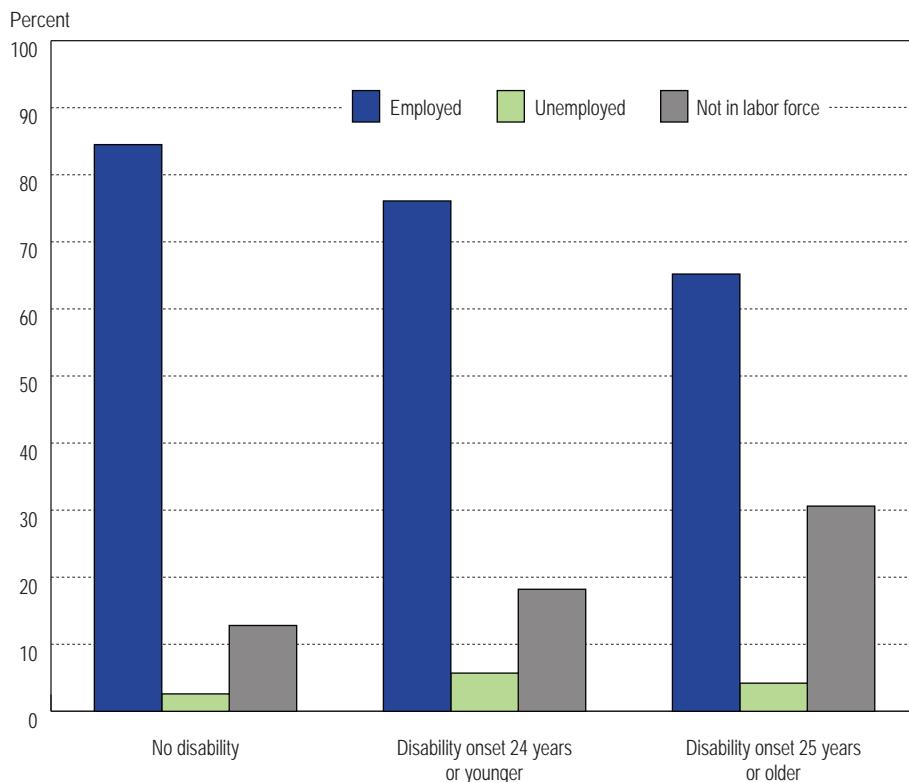
NOTE: Other includes Native Hawaiian/other Pacific Islander and multiple race.

SOURCE: National Science Foundation, Division of Science Resources Statistics, Scientists and Engineers Statistical Data System (SESTAT).

The racial/ethnic composition of doctoral engineers differs markedly from that of doctoral scientists.

- Asians comprised a far larger share and whites a much smaller share of doctoral engineers than of doctoral scientists in 2003.
- Blacks and Hispanics each constituted 3–4 percent of doctoral scientists and 2–3 percent of doctoral engineers.
- American Indians/Alaska Natives were 0.6 percent of doctoral scientists and 0.4 percent of doctoral engineers in 2003.

FIGURE H-2. Employment status of scientists and engineers, by disability status and age at onset of disability: 2003

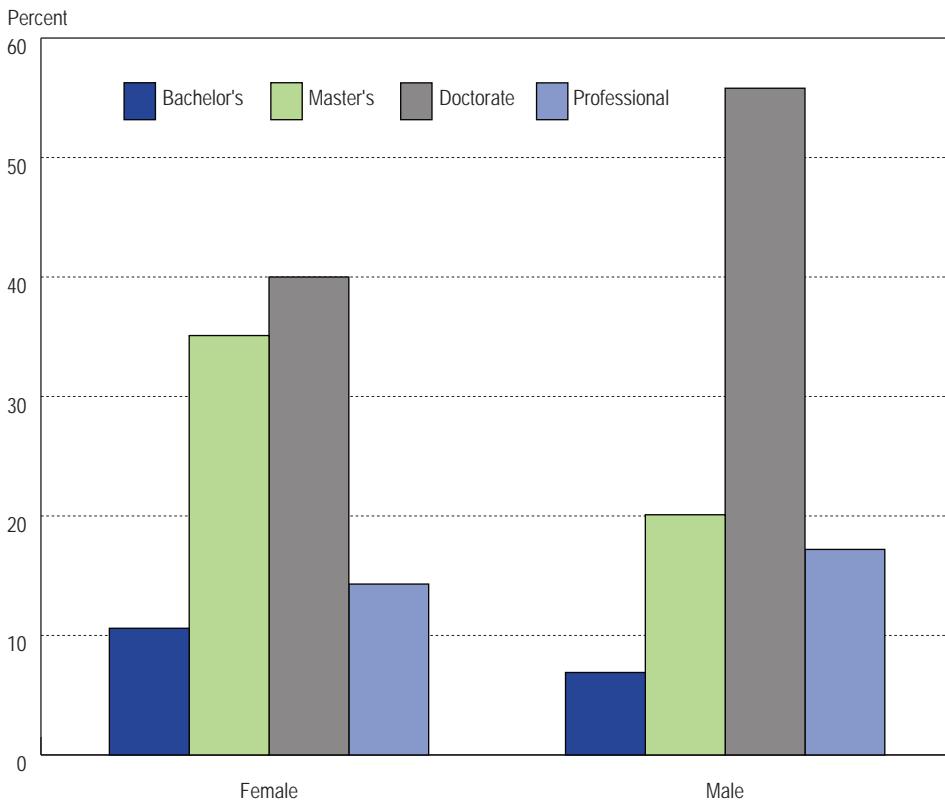


SOURCE: National Science Foundation, Division of Science Resources Statistics, Scientists and Engineers Statistical Data System (SESTAT).

The labor force participation rates of scientists and engineers with and without disabilities are quite different, and among those with disabilities, age at onset is related to labor force participation.

- Almost a third (31 percent) of scientists and engineers whose disability occurred at age 25 or older were out of the labor force, compared with 18 percent of those whose disability occurred before age 25 and 13 percent of those without disabilities.
- Almost 6 percent of scientists and engineers whose disability occurred before age 25 and 4 percent of those whose disability occurred at age 25 or older were unemployed, compared with 3 percent of those without disabilities.

FIGURE H-3. Science and engineering faculty, by sex and highest degree: 2003



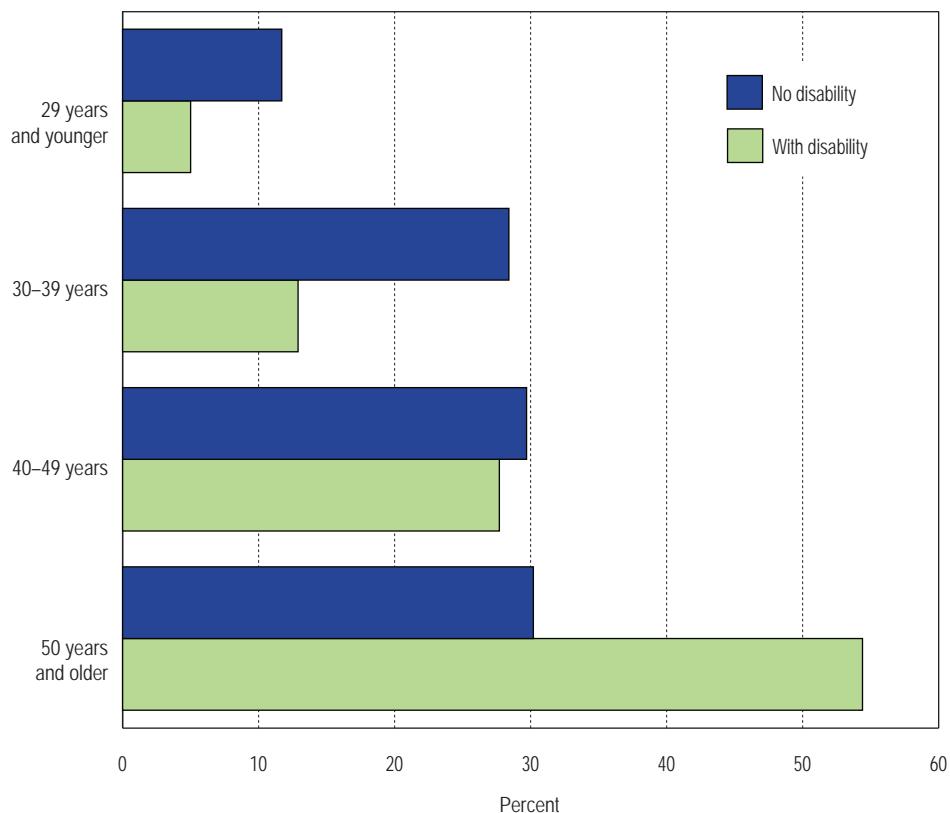
NOTE: Includes full, associate, and assistant professors and instructors.

SOURCE: National Science Foundation, Division of Science Resources Statistics, Scientists and Engineers Statistical Data System (SESTAT).

Male science and engineering faculty are more likely than their female counterparts to have doctoral degrees.

- More than half (56 percent) of male S&E faculty have doctoral degrees, compared with 40 percent of female S&E faculty.
- Thirty-five percent of female S&E faculty, compared with 20 percent of male S&E faculty, have a master's as the highest degree.

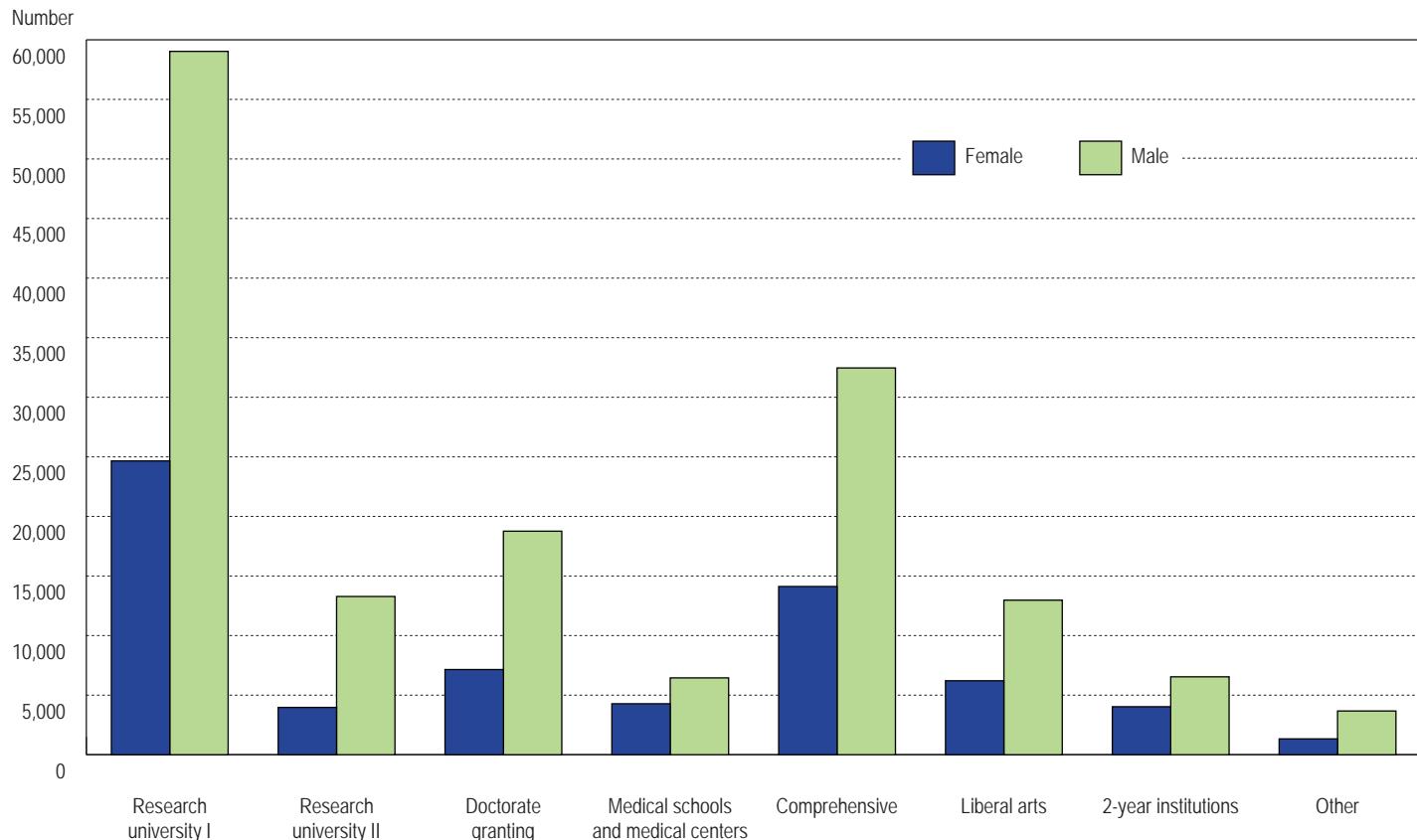
FIGURE H-4. Age distribution of employed scientists and engineers, by disability status: 2003



SOURCE: National Science Foundation, Division of Science Resources Statistics, Scientists and Engineers Statistical Data System (SESTAT).

Employed scientists and engineers with disabilities are older, on average, than those without disabilities.

- Only 5 percent of employed scientists and engineers with disabilities were 29 or younger in 2003, compared with 12 percent of those without disabilities.
- Conversely, 54 percent of those with disabilities and 30 percent of those without were 50 or older.

FIGURE H-5. Doctoral science and engineering faculty, by sex and Carnegie classification of employer: 2003

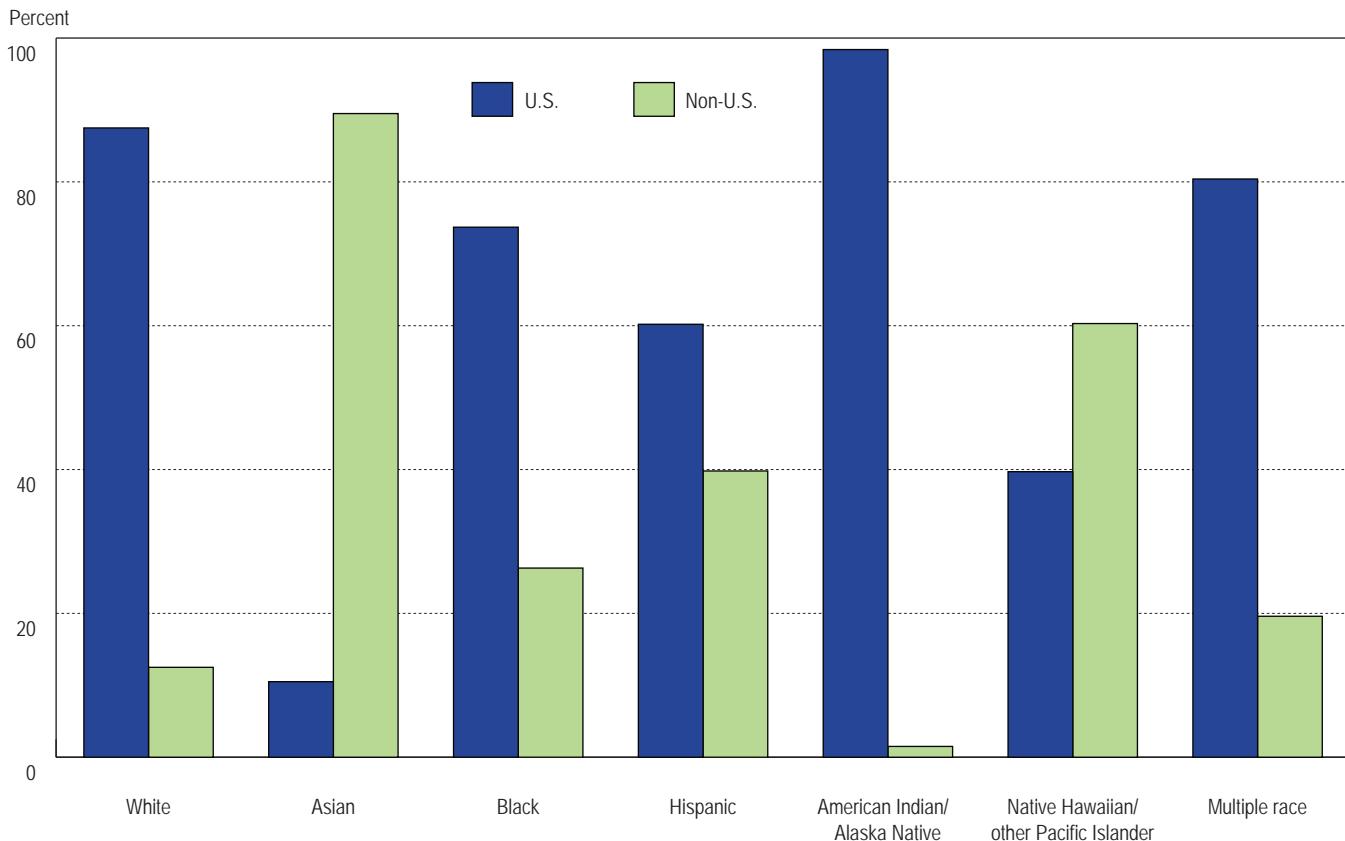
NOTE: Includes full, associate, and assistant professors and instructors.

SOURCE: National Science Foundation, Division of Science Resources Statistics, Scientists and Engineers Statistical Data System (SESTAT).

Male doctoral S&E faculty outnumber female S&E faculty by more than 2 to 1.

- Research I institutions were the largest employer of male and female doctoral S&E faculty in 2003.
- Almost 60,000 male doctoral S&E faculty were employed in Research I institutions in 2003, compared with about 25,000 female S&E faculty.
- Comprehensive institutions employed 32,000 male doctoral S&E faculty and 14,000 female S&E faculty.

FIGURE H-6. Doctoral science and engineering faculty, by race/ethnicity and country of birth: 2003



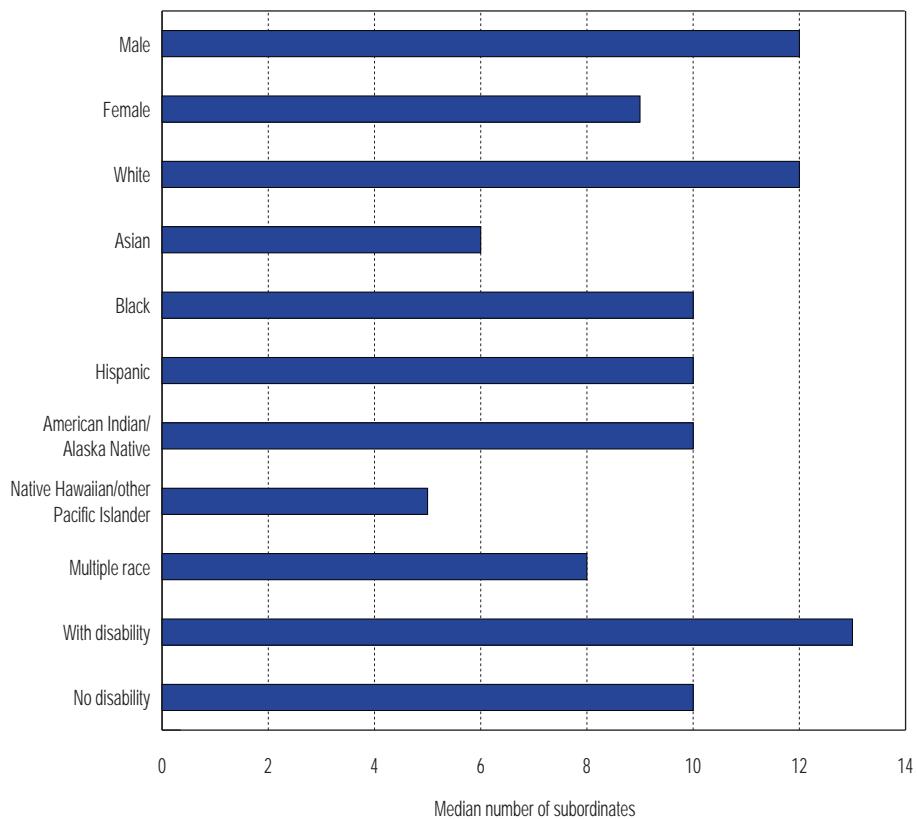
NOTE: Includes full, associate, and assistant professors and instructors.

SOURCE: National Science Foundation, Division of Science Resources Statistics, Scientists and Engineers Statistical Data System (SESTAT).

Substantial percentages of some doctoral S&E faculty were born outside the United States.

- A majority of Asian (90 percent) and Native Hawaiian/other Pacific Islander (60 percent), and 40 percent of Hispanic doctoral S&E faculty were born outside the United States.
- More than 80 percent of white, American Indian/Alaska Native, and multiple race doctoral S&E faculty were born in the United States.

FIGURE H-7. Median number of subordinates of scientists and engineers employed in business or industry, by sex, race/ethnicity, and disability status: 2003



NOTE: Includes only those with supervisory status.

SOURCE: National Science Foundation, Division of Science Resources Statistics, Scientists and Engineers Statistical Data System (SESTAT).

Among supervisory scientists and engineers in business or industry, minorities, women, and those without disabilities have fewer subordinates than do whites, men, or those with disabilities.

- Men, on average, have 12 subordinates, compared to 9 for women.
- Asians and Native Hawaiians/other Pacific Islanders, have the fewest subordinates, 6 and 5, respectively, compared with 10 for blacks, Hispanics, and American Indians/Alaska Natives, and 12 for whites.
- Scientists and engineers with disabilities have, on average, 13 subordinates, compared with 10 for those without disabilities.
- Age differences are likely to account for some of these differences.

TABLE A-1. Resident population of United States, by age and sex: 2004

Age (years)	All residents	Female		Male	
		Number	Percent	Number	Percent
All ages	293,655,404	149,117,996	50.8	144,537,408	49.2
Younger than 5	20,071,268	9,808,276	48.9	10,262,992	51.1
5-9	19,605,572	9,576,431	48.8	10,029,141	51.2
10-14	21,145,156	10,314,017	48.8	10,831,139	51.2
15-19	20,729,802	10,094,406	48.7	10,635,396	51.3
20-24	20,971,302	10,168,312	48.5	10,802,990	51.5
25-29	19,560,906	9,566,092	48.9	9,994,814	51.1
30-34	20,471,032	10,129,813	49.5	10,341,219	50.5
35-39	21,052,318	10,481,803	49.8	10,570,515	50.2
40-44	23,056,334	11,592,968	50.3	11,463,366	49.7
45-49	22,122,629	11,204,884	50.6	10,917,745	49.4
50-54	19,496,176	9,961,248	51.1	9,534,928	48.9
55-59	16,489,501	8,488,082	51.5	8,001,419	48.5
60-64	12,589,423	6,591,409	52.4	5,998,014	47.6
65-69	9,956,467	5,323,518	53.5	4,632,949	46.5
70-74	8,507,005	4,712,328	55.4	3,794,677	44.6
75-79	7,410,757	4,312,118	58.2	3,098,639	41.8
80-84	5,560,125	3,440,533	61.9	2,119,592	38.1
85-89	3,079,324	2,043,932	66.4	1,035,392	33.6
90-94	1,349,800	972,477	72.0	377,323	28.0
95-99	369,671	286,417	77.5	83,254	22.5
100 and older	60,836	48,932	80.4	11,904	19.6
Age groups					
5-13 years	36,375,652	17,758,554	48.8	18,617,098	51.2
14-17 years	16,831,078	8,206,020	48.8	8,625,058	51.2
18-24 years	29,245,102	14,188,592	48.5	15,056,510	51.5
16 and older	228,621,674	117,365,320	51.3	111,256,354	48.7
18 and older	220,377,406	113,345,146	51.4	107,032,260	48.6
15-44	125,841,694	62,033,394	49.3	63,808,300	50.7
65 and older	36,293,985	21,140,255	58.2	15,153,730	41.8
85 and older	4,859,631	3,351,758	69.0	1,507,873	31.0

NOTE: Age categories drawn from published Census tables.

SOURCE: U.S. Census Bureau, Population Division, Annual Estimates of the Population by Sex and Five-Year Age Groups for the United States: April 1, 2000 to July 1, 2004 (NC-EST2004-01).

TABLE A-2. Resident population of United States, by race/ethnicity and age: 2004

Race/ethnicity	All residents	Age (years)							
		Number							
		5-13	14-17	18-24	16 and older	18 and older	15-44	65 and older	85 and older
All races/ethnicities	293,655,404	36,375,652	16,831,078	29,245,102	228,621,674	220,377,406	125,841,694	36,293,985	4,859,631
Non-Hispanic, one race									
White	197,840,821	21,450,256	10,430,647	18,049,384	159,866,115	154,713,671	79,635,234	29,732,252	4,167,902
Asian	12,068,424	1,347,857	607,360	1,202,602	9,610,615	9,309,853	5,986,777	1,037,706	96,510
Native Hawaiian/Pacific Islander	398,161	57,759	27,062	50,542	299,513	286,207	203,013	25,337	2,301
Black/African American	35,963,702	5,379,829	2,533,678	4,111,917	26,358,933	25,140,690	16,532,262	2,974,370	343,598
American Indian/Alaska Native	2,206,748	332,519	166,032	271,327	1,617,621	1,536,121	1,029,968	157,927	16,446
Two or more races, non-Hispanic	3,855,478	881,774	320,260	471,255	2,262,791	2,110,414	1,579,859	201,406	22,654
Hispanic/Latino	41,322,070	6,925,658	2,746,039	5,088,075	28,606,086	27,280,450	20,874,581	2,164,987	210,220
Non-Hispanic, one or more races ^a									
White	201,148,336	22,243,665	10,712,907	18,451,764	161,732,105	156,445,711	80,952,081	29,899,237	4,186,948
Asian	13,529,769	1,677,204	732,741	1,397,741	10,480,158	10,119,614	6,654,092	1,093,653	102,107
Native Hawaiian/Pacific Islander	802,794	132,310	59,078	106,994	589,313	560,514	405,442	49,478	4,966
Black/African American	37,426,144	5,815,428	2,662,744	4,275,623	26,992,077	25,714,326	17,033,153	3,017,336	349,035
American Indian/Alaska Native	3,573,949	534,452	265,277	437,859	2,679,799	2,549,235	1,639,045	288,424	31,406
All races/ethnicities	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Non-Hispanic, one race									
White	67.4	59.0	62.0	61.7	69.9	70.2	63.3	81.9	85.8
Asian	4.1	3.7	3.6	4.1	4.2	4.2	4.8	2.9	2.0
Native Hawaiian/Pacific Islander	0.1	0.2	0.2	0.2	0.1	0.1	0.2	0.1	0.0
Black/African American	12.2	14.8	15.1	14.1	11.5	11.4	13.1	8.2	7.1
American Indian/Alaska Native	0.8	0.9	1.0	0.9	0.7	0.7	0.8	0.4	0.3
Two or more races, non-Hispanic	1.3	2.4	1.9	1.6	1.0	1.0	1.3	0.6	0.5
Hispanic/Latino	14.1	19.0	16.3	17.4	12.5	12.4	16.6	6.0	4.3
Non-Hispanic, one or more races ^a									
White	68.5	61.1	63.6	63.1	70.7	71.0	64.3	82.4	86.2
Asian	4.6	4.6	4.4	4.8	4.6	4.6	5.3	3.0	2.1
Native Hawaiian/Pacific Islander	0.3	0.4	0.4	0.4	0.3	0.3	0.3	0.1	0.1
Black/African American	12.7	16.0	15.8	14.6	11.8	11.7	13.5	8.3	7.2
American Indian/Alaska Native	1.2	1.5	1.6	1.5	1.2	1.2	1.3	0.8	0.6

^aIn combination with one or more other races listed. Individuals may report more than one race.

NOTE: Age categories drawn from published Census tables.

SOURCE: U.S. Census Bureau, Population Division, NC-EST2004-all data: U.S. Population estimates by Age, Sex, Race and Hispanic Origin: July 1, 2004.

TABLE A-3. U.S. civilian noninstitutionalized population 5 years old and older, by disability status, type of disability, sex, and age: 2003

Disability status, type, and age (years)	Total		Male		Female	
	Number	Percent	Number	Percent	Number	Percent
5-15 years	44,973,893	100.0	23,016,345	100.0	21,957,548	100.0
With one type of disability	2,217,835	4.9	1,454,086	6.3	763,749	3.5
Sensory disability	260,575	0.6	138,330	0.6	122,245	0.6
Physical disability	190,034	0.4	95,189	0.4	94,845	0.4
Mental disability	1,751,816	3.9	1,211,741	5.3	540,075	2.5
Self-care disability	15,410	0.0	8,826	0.0	6,584	0.0
With two or more types of disability	587,770	1.3	367,090	1.6	220,680	1.0
Includes self-care disability	350,761	0.8	217,420	0.9	133,341	0.6
Does not include self-care disability	237,009	0.5	149,670	0.7	87,339	0.4
No disability	42,168,288	93.8	21,195,169	92.1	20,973,119	95.5
16-20 years	18,531,416	100.0	9,533,831	100.0	8,997,585	100.0
With one type of disability	762,930	4.1	453,980	4.8	308,950	3.4
Sensory disability	129,610	0.7	71,264	0.7	58,346	0.6
Physical disability	104,016	0.6	42,679	0.4	61,337	0.7
Mental disability	457,228	2.5	307,233	3.2	149,995	1.7
Self-care disability	3,721	0.0	1,553	0.0	2,168	0.0
Go-outside-home disability	14,033	0.1	6,612	0.1	7,421	0.1
Employment disability	54,322	0.3	24,639	0.3	29,683	0.3
With two or more types of disability	491,259	2.7	280,882	2.9	210,377	2.3
Includes self-care disability	124,656	0.7	66,757	0.7	57,899	0.6
Does not include self-care disability	366,603	2.0	214,125	2.2	152,478	1.7
Go-outside-home and employment only	22,179	0.1	12,852	0.1	9,327	0.1
Other combination	344,424	1.9	201,273	2.1	143,151	1.6
No disability	17,277,227	93.2	8,798,969	92.3	8,478,258	94.2
21-64 years	165,180,683	100.0	80,880,144	100.0	84,300,539	100.0
With one type of disability	8,487,491	5.1	4,221,247	5.2	4,266,244	5.1
Sensory disability	2,099,428	1.3	1,268,188	1.6	831,240	1.0
Physical disability	3,416,283	2.1	1,513,807	1.9	1,902,476	2.3
Mental disability	1,287,371	0.8	636,427	0.8	650,944	0.8
Self-care disability	39,064	0.0	15,286	0.0	23,778	0.0
Go-outside-home disability	127,836	0.1	46,515	0.1	81,321	0.1
Employment disability	1,517,509	0.9	741,024	0.9	776,485	0.9
With two or more types of disability	11,384,190	6.9	5,472,293	6.8	5,911,897	7.0
Includes self-care disability	3,300,651	2.0	1,471,901	1.8	1,828,750	2.2
Does not include self-care disability	8,083,539	4.9	4,000,392	4.9	4,083,147	4.8
Go-outside-home and employment only	341,477	0.2	152,512	0.2	188,965	0.2
Other combination	7,742,062	4.7	3,847,880	4.8	3,894,182	4.6
No disability	145,309,002	88.0	71,186,604	88.0	74,122,398	87.9
65 years and over	33,896,172	100.0	14,380,551	100.0	19,515,621	100.0
With one type of disability	6,048,108	17.8	2,693,238	18.7	3,354,870	17.2
Sensory disability	1,577,720	4.7	895,912	6.2	681,808	3.5
Physical disability	3,635,365	10.7	1,486,731	10.3	2,148,634	11.0
Mental disability	403,783	1.2	187,299	1.3	216,484	1.1
Self-care disability	35,280	0.1	16,141	0.1	19,139	0.1
Go-outside-home disability	395,960	1.2	107,155	0.7	288,805	1.5

TABLE A-3. U.S. civilian noninstitutionalized population 5 years old and older, by disability status, type of disability, sex, and age: 2003

Disability status, type, and age (years)	Total		Male		Female	
	Number	Percent	Number	Percent	Number	Percent
With two or more types of disability	7,478,709	22.1	2,729,446	19.0	4,749,263	24.3
Includes self-care disability	3,152,279	9.3	1,089,580	7.6	2,062,699	10.6
Does not include self-care disability	4,326,430	12.8	1,639,866	11.4	2,686,564	13.8
No disability	20,369,355	60.1	8,957,867	62.3	11,411,488	58.5

NOTES: Data on disability status were derived from answers to two items in the American Community Survey. One asked about the existence of the following long-lasting conditions: blindness, deafness, severe vision or hearing impairment (sensory disability) or a condition that substantially limits physical activities such as walking, climbing stairs, reaching, lifting, or carrying (physical disability). The second question asked if the individual had a physical, mental, or emotional condition lasting 6 months or more that made it difficult to perform certain activities: (a) learning, remembering, or concentrating (mental disability); (b) dressing, bathing, or getting around inside the home (self-care disability); (c) going outside the home alone to shop or visit a doctor's office (go-outside-home disability); and (d) working at a job or business (employment disability). People aged 16 to 64 were classified by Census as having a disability if they responded yes to at least one of the above 6 conditions. People aged 5 to 15 were classified as having a disability if they reported any one of the four conditions: sensory disability, physical disability, mental disability, or self-care disability. People over 65 were classified as having a disability if they reported any one of five conditions: sensory disability, physical disability, mental disability, self-care disability, or go-outside-home disability. Data are based on a sample and are subject to sampling variability. See source table for confidence intervals for these estimates. Age categories drawn from published Census tables.

SOURCE: U.S. Bureau of the Census, 2003 American Community Survey Summary Tables, Table PCT037 http://www.census.gov/hhes/www/disability/data_title.html

TABLE B-1. Undergraduate enrollment at all institutions, by race/ethnicity, citizenship, sex, and enrollment status: 1997–2004

Race/ethnicity, citizenship, sex, and status	1997	1998	2000	2001	2002	2003	2004
All enrolled	12,458,456	12,750,061	13,435,923	13,532,275	14,083,538	14,200,204	14,424,448
White	8,684,498	8,303,212	8,659,934	8,561,393	8,794,221	8,849,625	8,894,602
Asian/Pacific Islander	745,299	732,167	791,431	810,599	849,951	845,542	865,669
Black	1,382,028	1,362,622	1,505,216	1,524,759	1,615,596	1,666,483	1,716,696
Hispanic	1,253,807	1,233,658	1,418,154	1,479,485	1,560,538	1,594,700	1,656,529
American Indian/Alaska Native	127,191	122,445	128,716	130,488	136,510	141,263	143,024
Other or unknown race/ethnicity	NA	757,037	649,391	723,108	816,179	795,857	844,641
Temporary resident	265,633	238,920	283,081	302,443	310,543	306,734	303,287
Female	6,990,620	7,191,871	7,418,668	7,639,293	7,990,908	8,113,132	8,251,480
White	4,825,977	4,628,298	4,707,602	4,768,735	4,916,439	4,968,059	4,992,423
Asian/Pacific Islander	385,372	382,966	414,678	430,483	453,553	455,594	467,847
Black	860,908	857,208	928,866	967,782	1,031,739	1,072,135	1,106,821
Hispanic	718,065	711,276	808,648	857,372	910,648	941,667	979,370
American Indian/Alaska Native	74,540	72,395	75,652	78,303	82,291	86,410	87,004
Other or unknown race/ethnicity	NA	427,983	347,413	390,478	442,574	435,250	463,040
Temporary resident	125,758	111,745	135,809	146,140	153,664	154,017	154,975
Male	5,467,836	5,558,190	6,017,255	5,892,982	6,092,630	6,087,072	6,172,968
White	3,858,521	3,674,914	3,952,332	3,792,658	3,877,782	3,881,566	3,902,179
Asian/Pacific Islander	359,927	349,201	376,753	380,116	396,398	389,948	397,822
Black	521,120	505,414	576,350	556,977	583,857	594,348	609,875
Hispanic	535,742	522,382	609,506	622,113	649,890	653,033	677,159
American Indian/Alaska Native	52,651	50,050	53,064	52,185	54,219	54,853	56,020
Other or unknown race/ethnicity	NA	329,054	301,978	332,630	373,605	360,607	381,601
Temporary resident	139,875	127,175	147,272	156,303	156,879	152,717	148,312
Full time	7,433,839	7,563,837	7,868,117	8,238,951	8,621,417	8,861,940	9,050,853
White	5,215,055	5,127,987	5,218,794	5,390,022	5,569,647	5,708,833	5,775,988
Asian/Pacific Islander	452,629	451,912	467,236	489,698	514,704	523,936	537,188
Black	812,110	809,180	840,272	895,346	951,951	998,918	1,030,216
Hispanic	673,976	671,889	722,012	767,268	811,731	855,087	891,142
American Indian/Alaska Native	72,563	71,132	70,723	74,439	78,814	84,004	85,404
Other or unknown race/ethnicity	NA	239,148	324,727	381,849	447,430	444,397	487,045
Temporary resident	207,506	192,589	224,353	240,329	247,140	246,765	243,870
Female	4,054,682	4,136,520	4,323,326	4,531,570	4,753,442	4,904,754	5,019,762
White	2,802,244	2,764,461	2,824,564	2,915,844	3,017,601	3,098,617	3,136,210
Asian/Pacific Islander	231,388	233,583	244,411	256,531	269,692	276,134	283,331
Black	495,764	494,942	514,856	551,501	588,379	620,165	642,180
Hispanic	389,448	388,691	421,963	448,876	475,005	503,353	524,551
American Indian/Alaska Native	41,460	40,963	41,289	43,653	46,303	50,037	50,481
Other or unknown race/ethnicity	NA	126,394	171,822	202,386	237,546	236,455	261,895
Temporary resident	94,378	87,486	104,421	112,779	118,916	119,993	121,114
Male	3,379,157	3,427,317	3,544,791	3,707,381	3,867,975	3,957,186	4,031,091
White	2,412,811	2,363,526	2,394,230	2,474,178	2,552,046	2,610,216	2,639,778
Asian/Pacific Islander	221,241	218,329	222,825	233,167	245,012	247,802	253,857
Black	316,346	314,238	325,416	343,845	363,572	378,753	388,036
Hispanic	284,528	283,198	300,049	318,392	336,726	351,734	366,591
American Indian/Alaska Native	31,103	30,169	29,434	30,786	32,511	33,967	34,923
Other or unknown race/ethnicity	NA	112,754	152,905	179,463	209,884	207,942	225,150
Temporary resident	113,128	105,103	119,932	127,550	128,224	126,772	122,756

NA not available.

NOTES: Race/ethnicity breakouts are for U.S. citizens and permanent residents only. Temporary resident includes all racial/ethnic groups. In 1997, data on "other or unknown race/ethnicity" were distributed across the other race/ethnicity categories, excluding temporary resident. Data are not available for 1999.

SOURCE: National Science Foundation, Division of Science Resources Statistics, special tabulations of U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Fall Enrollment Survey, 1997–2004.

TABLE B-2. Enrollment of first-time, first-year undergraduate students at all institutions, by race/ethnicity, citizenship, sex, and enrollment status: 1997–2004

Race/ethnicity, citizenship, sex, and status	1997	1998	2000	2001	2002	2003	2004
All enrolled	2,182,788	2,194,148	2,376,968	2,394,388	2,475,168	2,494,265	2,505,637
White	1,535,230	1,480,364	1,565,273	1,548,045	1,587,781	1,595,855	1,575,137
Asian/Pacific Islander	119,048	114,720	125,198	129,933	132,352	130,972	135,686
Black	257,224	256,200	280,122	285,558	304,378	313,737	319,920
Hispanic	208,962	206,921	235,138	242,413	258,153	263,707	276,017
American Indian/Alaska Native	22,546	21,170	22,394	23,103	23,779	24,712	24,113
Other or unknown race/ethnicity	NA	80,199	106,116	119,903	125,901	123,012	132,344
Temporary resident	39,778	34,574	42,727	45,433	42,824	42,270	42,420
Female	1,176,020	1,184,620	1,275,694	1,297,715	1,353,212	1,364,626	1,368,853
White	818,916	789,825	829,549	828,131	855,610	859,483	845,163
Asian/Pacific Islander	60,661	59,295	64,422	67,563	68,842	68,963	71,186
Black	149,418	150,754	163,443	168,633	180,987	186,423	190,596
Hispanic	115,998	115,388	131,604	136,766	146,027	149,943	156,550
American Indian/Alaska Native	12,498	11,741	12,683	13,041	13,510	14,186	13,673
Other or unknown race/ethnicity	NA	41,728	54,397	62,242	66,957	64,580	70,374
Temporary resident	18,529	15,889	19,596	21,339	21,279	21,048	21,311
Male	1,006,768	1,009,528	1,101,274	1,096,673	1,121,956	1,129,639	1,136,784
White	716,314	690,539	735,724	719,914	732,171	736,372	729,974
Asian/Pacific Islander	58,387	55,425	60,776	62,370	63,510	62,009	64,500
Black	107,806	105,446	116,679	116,925	123,391	127,314	129,324
Hispanic	92,964	91,533	103,534	105,647	112,126	113,764	119,467
American Indian/Alaska Native	10,048	9,429	9,711	10,062	10,269	10,526	10,440
Other or unknown race/ethnicity	NA	38,471	51,719	57,661	58,944	58,432	61,970
Temporary resident	21,249	18,685	23,131	24,094	21,545	21,222	21,109
Full time	1,714,251	1,759,875	1,850,185	1,909,576	1,976,669	2,019,262	2,044,074
White	1,218,565	1,208,675	1,245,642	1,265,978	1,301,363	1,323,373	1,319,054
Asian/Pacific Islander	94,526	93,126	99,737	104,581	107,814	107,005	111,224
Black	196,631	198,111	208,355	218,159	230,820	242,483	248,861
Hispanic	153,383	154,084	167,164	174,847	187,393	196,178	204,470
American Indian/Alaska Native	16,522	15,973	16,596	17,466	17,964	19,218	19,088
Other or unknown race/ethnicity	NA	59,002	75,678	89,234	94,243	94,682	104,565
Temporary resident	34,624	30,904	37,013	39,311	37,072	36,323	36,812
Female	919,858	946,154	995,634	1,027,170	1,070,251	1,093,934	1,107,308
White	645,870	641,544	661,923	671,774	694,002	705,232	701,386
Asian/Pacific Islander	48,627	48,433	51,857	54,656	56,272	56,244	58,271
Black	114,102	116,086	122,133	127,820	135,763	142,829	147,051
Hispanic	86,437	86,956	95,219	99,677	106,814	112,088	116,588
American Indian/Alaska Native	9,012	8,812	9,281	9,815	10,092	10,849	10,739
Other or unknown race/ethnicity	NA	30,376	38,516	45,221	49,144	48,966	55,092
Temporary resident	15,810	13,947	16,705	18,207	18,164	17,726	18,181
Male	794,393	813,721	854,551	882,406	906,418	925,328	936,766
White	572,695	567,131	583,719	594,204	607,361	618,141	617,668
Asian/Pacific Islander	45,899	44,693	47,880	49,925	51,542	50,761	52,953
Black	82,529	82,025	86,222	90,339	95,057	99,654	101,810
Hispanic	66,946	67,128	71,945	75,170	80,579	84,090	87,882
American Indian/Alaska Native	7,510	7,161	7,315	7,651	7,872	8,369	8,349
Other or unknown race/ethnicity	NA	28,626	37,162	44,013	45,099	45,716	49,473
Temporary resident	18,814	16,957	20,308	21,104	18,908	18,597	18,631

NA Not available.

NOTES: Race/ethnicity breakouts are for U.S. citizens and permanent residents only. Temporary resident includes all racial/ethnic groups. In 1997, data on "other or unknown race/ethnicity" were distributed across the other race/ethnicity categories, excluding temporary resident. Data are not available for 1999.

SOURCE: National Science Foundation, Division of Science Resources Statistics, special tabulations of U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Fall Enrollment Survey, 1997–2004.

TABLE B-3. Undergraduate enrollment at 2-year institutions, by race/ethnicity, citizenship, sex, and enrollment status: 1997–2004

Race/ethnicity, citizenship, sex, and status	1997	1998	2000	2001	2002	2003	2004
All enrolled	5,275,828	5,461,849	5,952,854	5,835,309	6,141,433	6,105,211	6,183,174
White	3,556,108	3,324,918	3,676,724	3,506,826	3,644,457	3,626,485	3,635,590
Asian/Pacific Islander	334,494	333,577	376,625	380,453	402,192	386,918	394,444
Black	612,560	597,564	711,182	697,022	755,242	774,783	793,079
Hispanic	632,410	619,177	759,213	788,706	837,726	836,109	871,303
American Indian/Alaska Native	64,042	61,124	66,394	66,420	69,699	70,149	71,103
Other or unknown race/ethnicity	NA	474,619	279,117	301,011	332,535	315,665	327,626
Temporary resident	76,214	50,870	83,599	94,871	99,582	95,102	90,029
Female	3,026,540	3,155,741	3,261,910	3,352,149	3,560,740	3,585,753	3,636,523
White	2,029,622	1,906,922	1,977,338	1,996,530	2,090,450	2,100,327	2,107,121
Asian/Pacific Islander	173,596	176,010	196,995	203,902	216,839	211,387	216,616
Black	383,525	381,314	432,547	448,813	491,698	511,395	523,792
Hispanic	360,851	355,614	425,148	452,275	486,401	493,256	514,592
American Indian/Alaska Native	38,047	36,873	39,229	40,399	42,626	43,539	44,170
Other or unknown race/ethnicity	NA	272,540	146,403	159,632	178,776	173,583	180,045
Temporary resident	40,899	26,468	44,250	50,598	53,950	52,266	50,187
Male	2,249,288	2,306,108	2,690,944	2,483,160	2,580,693	2,519,458	2,546,651
White	1,526,486	1,417,996	1,699,386	1,510,296	1,554,007	1,526,158	1,528,469
Asian/Pacific Islander	160,898	157,567	179,630	176,551	185,353	175,531	177,828
Black	229,035	216,250	278,635	248,209	263,544	263,388	269,287
Hispanic	271,559	263,563	334,065	336,431	351,325	342,853	356,711
American Indian/Alaska Native	25,995	24,251	27,165	26,021	27,073	26,610	26,933
Other or unknown race/ethnicity	NA	202,079	132,714	141,379	153,759	142,082	147,581
Temporary resident	35,315	24,402	39,349	44,273	45,632	42,836	39,842
Full time	1,904,441	1,914,481	2,008,860	2,157,210	2,333,018	2,412,411	2,448,916
White	1,267,211	1,226,939	1,245,236	1,316,471	1,408,972	1,459,031	1,474,874
Asian/Pacific Islander	117,429	123,880	125,544	132,118	142,254	142,069	142,584
Black	236,513	233,895	244,454	271,175	303,654	322,783	328,116
Hispanic	214,204	214,866	237,904	257,525	279,264	292,299	303,624
American Indian/Alaska Native	25,491	25,132	24,314	26,550	28,714	30,464	31,061
Other or unknown race/ethnicity	NA	59,367	78,587	92,414	104,885	103,962	112,862
Temporary resident	43,593	30,402	52,821	60,957	65,275	61,803	55,795
Female	1,058,961	1,059,867	1,113,159	1,195,326	1,299,519	1,353,640	1,378,501
White	692,025	667,932	675,851	713,265	766,681	797,567	808,768
Asian/Pacific Islander	58,665	62,935	64,653	67,781	72,815	73,051	73,357
Black	146,193	144,579	151,093	169,460	191,396	205,703	209,197
Hispanic	125,105	124,044	139,615	150,376	162,881	171,695	177,682
American Indian/Alaska Native	14,960	14,972	14,794	16,063	17,363	18,539	18,997
Other or unknown race/ethnicity	NA	30,469	40,363	47,074	54,383	54,738	60,865
Temporary resident	22,013	14,936	26,790	31,307	34,000	32,347	29,635
Male	845,480	854,614	895,701	961,884	1,033,499	1,058,771	1,070,415
White	575,186	559,007	569,385	603,206	642,291	661,464	666,106
Asian/Pacific Islander	58,764	60,945	60,891	64,337	69,439	69,018	69,227
Black	90,320	89,316	93,361	101,715	112,258	117,080	118,919
Hispanic	89,099	90,822	98,289	107,149	116,383	120,604	125,942
American Indian/Alaska Native	10,531	10,160	9,520	10,487	11,351	11,925	12,064
Other or unknown race/ethnicity	NA	28,898	38,224	45,340	50,502	49,224	51,997
Temporary resident	21,580	15,466	26,031	29,650	31,275	29,456	26,160

NA Not available.

NOTES: Race/ethnicity breakouts are for U.S. citizens and permanent residents only. Temporary resident includes all racial/ethnic groups. In 1997, data on "other or unknown race/ethnicity" were distributed across other race/ethnicity categories, excluding temporary resident. Data are not available for 1999.

SOURCE: National Science Foundation, Division of Science Resources Statistics, special tabulations of U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Fall Enrollment Survey, 1997–2004.

TABLE B-4. Undergraduate enrollment at 4-year institutions, by race/ethnicity, citizenship, sex, and enrollment status: 1997–2004

Race/ethnicity, citizenship, sex, and status	1997	1998	2000	2001	2002	2003	2004
All enrolled	7,182,628	7,288,212	7,483,069	7,696,966	7,942,105	8,094,993	8,241,274
White	5,128,390	4,978,294	4,983,210	5,054,567	5,149,764	5,223,140	5,259,012
Asian/Pacific Islander	410,805	398,590	414,806	430,146	447,759	458,624	471,225
Black	769,468	765,058	794,034	827,737	860,354	891,700	923,617
Hispanic	621,397	614,481	658,941	690,779	722,812	758,591	785,226
American Indian/Alaska Native	63,149	61,321	62,322	64,068	66,811	71,114	71,921
Other or unknown race/ethnicity	NA	282,418	370,274	422,097	483,644	480,192	517,015
Temporary resident	189,419	188,050	199,482	207,572	210,961	211,632	213,258
Female	3,964,080	4,036,130	4,156,758	4,287,144	4,430,168	4,527,379	4,614,957
White	2,796,355	2,721,376	2,730,264	2,772,205	2,825,989	2,867,732	2,885,302
Asian/Pacific Islander	211,776	206,956	217,683	226,581	236,714	244,207	251,231
Black	477,383	475,894	496,319	518,969	540,041	560,740	583,029
Hispanic	357,214	355,662	383,500	405,097	424,247	448,411	464,778
American Indian/Alaska Native	36,493	35,522	36,423	37,904	39,665	42,871	42,834
Other or unknown race/ethnicity	NA	155,443	201,010	230,846	263,798	261,667	282,995
Temporary resident	84,859	85,277	91,559	95,542	99,714	101,751	104,788
Male	3,218,548	3,252,082	3,326,311	3,409,822	3,511,937	3,567,614	3,626,317
White	2,332,035	2,256,918	2,252,946	2,282,362	2,323,775	2,355,408	2,373,710
Asian/Pacific Islander	199,029	191,634	197,123	203,565	211,045	214,417	219,994
Black	292,085	289,164	297,715	308,768	320,313	330,960	340,588
Hispanic	264,183	258,819	275,441	285,682	298,565	310,180	320,448
American Indian/Alaska Native	26,656	25,799	25,899	26,164	27,146	28,243	29,087
Other or unknown race/ethnicity	NA	126,975	169,264	191,251	219,846	218,525	234,020
Temporary resident	104,560	102,773	107,923	112,030	111,247	109,881	108,470
Full time	5,529,398	5,649,356	5,859,257	6,081,741	6,288,399	6,449,529	6,601,937
White	3,947,844	3,901,048	3,973,558	4,073,551	4,160,675	4,249,802	4,301,114
Asian/Pacific Islander	335,200	328,032	341,692	357,580	372,450	381,867	394,604
Black	575,597	575,285	595,818	624,171	648,297	676,135	702,100
Hispanic	459,772	457,023	484,108	509,743	532,467	562,788	587,518
American Indian/Alaska Native	47,072	46,000	46,409	47,889	50,100	53,540	54,343
Other or unknown race/ethnicity	NA	179,781	246,140	289,435	342,545	340,435	374,183
Temporary resident	163,913	162,187	171,532	179,372	181,865	184,962	188,075
Female	2,995,721	3,076,653	3,210,167	3,336,244	3,453,923	3,551,114	3,641,261
White	2,110,219	2,096,529	2,148,713	2,202,579	2,250,920	2,301,050	2,327,442
Asian/Pacific Islander	172,723	170,648	179,758	188,750	196,877	203,083	209,974
Black	349,571	350,363	363,763	382,041	396,983	414,462	432,983
Hispanic	264,343	264,647	282,348	298,500	312,124	331,658	346,869
American Indian/Alaska Native	26,500	25,991	26,495	27,590	28,940	31,498	31,484
Other or unknown race/ethnicity	NA	95,925	131,459	155,312	183,163	181,717	201,030
Temporary resident	72,365	72,550	77,631	81,472	84,916	87,646	91,479
Male	2,533,677	2,572,703	2,649,090	2,745,497	2,834,476	2,898,415	2,960,676
White	1,837,625	1,804,519	1,824,845	1,870,972	1,909,755	1,948,752	1,973,672
Asian/Pacific Islander	162,477	157,384	161,934	168,830	175,573	178,784	184,630
Black	226,026	224,922	232,055	242,130	251,314	261,673	269,117
Hispanic	195,429	192,376	201,760	211,243	220,343	231,130	240,649
American Indian/Alaska Native	20,572	20,009	19,914	20,299	21,160	22,042	22,859
Other or unknown race/ethnicity	NA	83,856	114,681	134,123	159,382	158,718	173,153
Temporary resident	91,548	89,637	93,901	97,900	96,949	97,316	96,596

NA Not available.

NOTES: Race/ethnicity breakouts are for U.S. citizens and permanent residents only. Temporary resident includes all racial/ethnic groups. In 1997, data on "other or unknown race/ethnicity" were distributed across other race/ethnicity categories, excluding temporary resident. Data are not available for 1999.

SOURCE: National Science Foundation, Division of Science Resources Statistics, special tabulations of U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Fall Enrollment Survey, 1997–2004.

TABLE B-5. Undergraduate enrollment status, by sex, race/ethnicity, citizenship, institutional control, and enrollment status: 2004

Sex, race/ethnicity, and citizenship	All institutions			Public			Private		
	Total	Full time	Part time	Total	Full time	Part time	Total	Full time	Part time
All undergraduates	14,424,448	9,050,853	5,373,595	11,524,349	6,687,314	4,837,035	2,900,099	2,363,539	536,560
Female	8,251,480	5,019,762	3,231,718	6,578,978	3,677,996	2,900,982	1,672,502	1,341,766	330,736
Male	6,172,968	4,031,091	2,141,877	4,945,371	3,009,318	1,936,053	1,227,597	1,021,773	205,824
White	8,894,602	5,775,988	3,118,614	7,144,996	4,319,470	2,825,526	1,749,606	1,456,518	293,088
Female	4,992,423	3,136,210	1,856,213	4,000,495	2,323,605	1,676,890	991,928	812,605	179,323
Male	3,902,179	2,639,778	1,262,401	3,144,501	1,995,865	1,148,636	757,678	643,913	113,765
Asian/Pacific Islander	865,669	537,188	328,481	738,155	426,867	311,288	127,514	110,321	17,193
Female	467,847	283,331	184,516	396,227	221,359	174,868	71,620	61,972	9,648
Male	397,822	253,857	143,965	341,928	205,508	136,420	55,894	48,349	7,545
Black	1,716,696	1,030,216	686,480	1,374,769	770,665	604,104	341,927	259,551	82,376
Female	1,106,821	642,180	464,641	887,087	479,078	408,009	219,734	163,102	56,632
Male	609,875	388,036	221,839	487,682	291,587	196,095	122,193	96,449	25,744
Hispanic	1,656,529	891,142	765,387	1,366,228	661,264	704,964	290,301	229,878	60,423
Female	979,370	524,551	454,819	806,949	387,674	419,275	172,421	136,877	35,544
Male	677,159	366,591	310,568	559,279	273,590	285,689	117,880	93,001	24,879
American Indian/Alaska Native	143,024	85,404	57,620	123,817	70,526	53,291	19,207	14,878	4,329
Female	87,004	50,481	36,523	75,538	41,726	33,812	11,466	8,755	2,711
Male	56,020	34,923	21,097	48,279	28,800	19,479	7,741	6,123	1,618
Other or unknown race/ethnicity	844,641	487,045	357,596	568,550	282,948	285,602	276,091	204,097	71,994
Female	463,040	261,895	201,145	306,339	148,252	158,087	156,701	113,643	43,058
Male	381,601	225,150	156,451	262,211	134,696	127,515	119,390	90,454	28,936
Temporary resident	303,287	243,870	59,417	207,834	155,574	52,260	95,453	88,296	7,157
Female	154,975	121,114	33,861	106,343	76,302	30,041	48,632	44,812	3,820
Male	148,312	122,756	25,556	101,491	79,272	22,219	46,821	43,484	3,337

NOTES: Race/ethnicity breakouts are for U.S. citizens and permanent residents only. Temporary resident includes all racial/ethnic groups.

SOURCE: National Science Foundation, Division of Science Resources Statistics, special tabulations of U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Fall Enrollment Survey, 2004.

TABLE B-6. Disability status of undergraduate students, by age, institution type, financial aid, and enrollment status: 2004

Age, institution type, financial aid, and status	All		
	undergraduates	No disability	With disability
All undergraduates	19,054,000	16,897,500	2,156,400
Percent distribution			
Age (years)	100.0	100.0	100.0
15–23	56.8	58.2	45.8
24–29	17.3	17.6	15.5
30 and older	25.9	24.3	38.7
Institution type			
4-year	46.6	47.2	42.1
2-year	42.7	42.2	47.2
Less than 2-year	3.1	3.1	3.6
More than one institution	7.5	7.6	7.2
Financial aid			
Grants only	36.6	36.9	34.0
Loans only	13.4	13.4	13.2
Work study only	1.0	1.0	1.0
Other only	2.5	2.3	4.3
Grants and loans	28.5	28.4	30.0
Grants and work study	2.9	2.9	2.7
Grants, loans, and work study	6.1	6.2	5.4
Grants, loans, and other	3.5	3.5	3.6
Other combination	5.6	5.6	5.9
Enrollment status			
Full time			
Full year			
One institution	37.5	38.2	32.6
More than one institution	3.5	3.6	3.0
Part year	13.8	13.6	15.2
Part time			
Full year			
One institution	20.8	20.7	21.9
More than one institution	2.0	2.0	2.0
Part year	22.4	22.0	25.3

NOTES: For disability status, those who reported any type of disability related to blindness, deafness, severe vision or hearing impairment, substantial limitation of mobility, or any other physical, mental, or emotional condition that lasted 6 months or more were classified as "with disability." Differences in number of undergraduates in this table and tables B-1 through B-5 primarily reflect differences in the population of institutions surveyed. See U.S. Department of Education, National Center for Education Statistics, *Estimating Undergraduate Enrollment in Postsecondary Education Using National Center for Education Statistics Data* (NCES 2005-063) at <http://nces.ed.gov/pubsearch/pubsinfo.asp?pubid=2005063> for further explanation of these differences. Age categories used are consistent with those used in National Center for Education Statistics tables based on this survey.

SOURCE: U.S. Department of Education, National Center for Education Statistics, National Postsecondary Student Aid Study, 2004.

TABLE B-7. Major field of study of undergraduates, by disability status: 2004

Major field of study	All		
	undergraduates	No disability	With disability
All fields (number)	19,054,000	16,897,500	2,156,400
Percent distribution			
All fields	100.0	100.0	100.0
Business/management	19.8	20.0	18.7
Education	8.5	8.6	8.1
Health	16.4	16.4	15.7
Humanities	13.2	13.1	13.8
S&E	26.7	26.7	26.9
Computer/information sciences	6.2	6.1	7.2
Engineering	5.3	5.4	4.5
Life sciences	4.9	4.9	4.7
Mathematics	0.6	0.6	0.4
Physical sciences	0.8	0.8	0.7
Social/behavioral sciences	8.9	8.8	9.3
Other	15.4	15.2	16.9

NOTES: For disability status, those who reported any type of disability related to blindness, deafness, severe vision or hearing impairment, substantial limitation of mobility, or any other physical, mental, or emotional condition that lasted 6 months or more were classified as "with disability."

Differences in number of undergraduates in this table and tables B-1 through B-5 primarily reflect differences in the population of institutions surveyed. See U.S. Department of Education, National Center for Education Statistics, *Estimating Undergraduate Enrollment in Postsecondary Education Using National Center for Education Statistics Data* (NCES 2005-063) at <http://nces.ed.gov/pubsearch/pubsinfo.asp?pubid=2005063> for further explanation of these differences.

SOURCE: U.S. Department of Education, National Center for Education Statistics, National Postsecondary Student Aid Study, 2004.

TABLE B-8. Intentions of freshmen to major in S&E fields, by race/ethnicity and sex: 2004
(Percent)

Race/ethnicity and sex	All S&E majors	Biological/ agricultural sciences	Computer sciences	Engineering	Mathematics/ statistics	Physical sciences	Social/ behavioral sciences
All races/ethnicities	33.1	8.3	2.0	9.6	0.7	2.3	10.2
Female	26.3	9.0	0.4	2.9	0.6	1.9	11.5
Male	40.8	7.4	4.1	17.9	1.0	2.9	7.5
White	30.1	7.0	1.9	9.0	0.8	2.3	9.1
Female	23.9	7.7	0.3	2.7	0.7	1.9	10.6
Male	38.7	6.4	3.9	17.0	1.0	3.0	7.4
Asian	45.5	16.1	2.2	15.1	0.9	2.4	8.8
Female	37.6	18.0	0.6	5.6	0.8	2.0	10.6
Male	54.3	14.1	4.1	25.8	1.0	2.6	6.7
Black	34.3	9.5	3.3	7.7	0.5	1.8	11.5
Female	31.9	10.9	1.5	2.9	0.4	1.9	14.3
Male	38.2	7.5	6.2	15.1	0.6	1.7	7.1
Hispanic of Mexican/Chicano/Puerto Rican descent	37.2	9.3	2.2	10.8	0.7	1.6	12.6
Female	31.7	10.4	0.6	3.1	0.7	1.3	15.6
Male	45.0	7.9	4.5	21.0	0.8	2.1	8.7
Other Hispanic	38.3	9.1	1.8	10.2	0.9	1.9	14.4
Female	33.8	10.4	0.7	3.4	0.7	1.6	17.0
Male	45.1	7.4	3.4	20.0	1.1	2.7	10.5
American Indian	33.8	8.6	2.2	7.8	0.6	2.5	12.1
Female	29.4	9.0	0.5	2.9	0.5	2.1	14.4
Male	40.7	8.2	4.7	15.2	0.7	3.2	8.7

NOTE: Includes first-year students at all 4-year colleges. Race/ethnicity categories are those used in the survey's data collection.

SOURCE: Higher Education Research Institute, University of California at Los Angeles, Survey of the American Freshman, special tabulations (Los Angeles, CA, 2005).

TABLE B-9. Undergraduate enrollment in engineering programs, by sex, race/ethnicity, and citizenship: 1995–2005

Year and status	All undergraduates	Female	Male	White	Asian	Black	Hispanic	Native American	Foreign national
	Number								
All enrolled									
1995	363,315	67,286	296,029	249,896	38,329	25,569	25,998	2,103	21,420
1996	356,177	67,618	288,559	243,270	37,873	24,922	26,483	2,396	21,233
1997	365,358	70,765	294,593	246,950	39,475	24,809	30,580	2,422	21,122
1998	366,991	72,393	294,598	248,439	40,523	25,699	28,802	2,418	21,110
1999	361,395	71,376	290,019	243,560	39,891	25,419	29,111	2,396	21,018
2000	390,803	76,027	314,776	263,931	44,652	26,096	31,107	2,385	22,632
2001	409,557	78,468	331,089	275,248	47,937	27,442	31,482	2,458	24,990
2002	421,178	77,952	343,226	286,246	49,696	26,433	33,311	2,362	23,130
2003	421,791	75,934	345,857	284,498	49,602	25,986	35,230	2,425	24,050
2004	419,387	74,139	345,248	284,610	47,872	25,313	35,060	2,458	24,074
2005	409,326	70,579	338,747	282,421	43,385	24,343	35,198	2,295	21,684
Full-time, first-year undergraduate									
1995	86,299	17,197	69,102	59,864	7,767	7,890	6,500	601	3,677
1996	85,375	17,000	68,375	58,929	7,997	7,482	6,602	656	3,709
1997	90,882	17,943	72,939	61,882	9,125	7,403	7,757	688	4,027
1998	94,909	18,628	76,281	65,578	9,509	8,028	7,018	719	4,057
1999	93,951	18,032	75,919	64,472	9,570	7,989	7,070	676	4,174
2000	101,773	19,257	82,516	69,566	11,091	8,192	7,571	629	4,724
2001	106,825	19,509	87,316	72,848	11,446	8,552	7,715	663	5,601
2002	107,086	18,447	88,639	74,710	11,157	8,108	7,991	656	4,464
2003	103,834	17,047	86,787	72,471	10,421	7,619	8,403	642	4,278
2004	103,361	16,896	86,465	72,547	10,145	7,374	8,268	696	4,331
2005	100,411	16,238	84,173	70,732	9,281	7,212	8,338	623	4,225
Percent distribution									
All enrolled									
1995	100.0	18.5	81.5	68.8	10.5	7.0	7.2	0.6	5.9
1996	100.0	19.0	81.0	68.3	10.6	7.0	7.4	0.7	6.0
1997	100.0	19.4	80.6	67.6	10.8	6.8	8.4	0.7	5.8
1998	100.0	19.7	80.3	67.7	11.0	7.0	7.8	0.7	5.8
1999	100.0	19.8	80.2	67.4	11.0	7.0	8.1	0.7	5.8
2000	100.0	19.5	80.5	67.5	11.4	6.7	8.0	0.6	5.8
2001	100.0	19.2	80.8	67.2	11.7	6.7	7.7	0.6	6.1
2002	100.0	18.5	81.5	68.0	11.8	6.3	7.9	0.6	5.5
2003	100.0	18.0	82.0	67.4	11.8	6.2	8.4	0.6	5.7
2004	100.0	17.7	82.3	67.9	11.4	6.0	8.4	0.6	5.7
2005	100.0	17.2	82.8	69.0	10.6	5.9	8.6	0.6	5.3
Full-time, first-year undergraduate									
1995	100.0	19.9	80.1	69.4	9.0	9.1	7.5	0.7	4.3
1996	100.0	19.9	80.1	69.0	9.4	8.8	7.7	0.8	4.3
1997	100.0	19.7	80.3	68.1	10.0	8.1	8.5	0.8	4.4
1998	100.0	19.6	80.4	69.1	10.0	8.5	7.4	0.8	4.3
1999	100.0	19.2	80.8	68.6	10.2	8.5	7.5	0.7	4.4
2000	100.0	18.9	81.1	68.4	10.9	8.0	7.4	0.6	4.6
2001	100.0	18.3	81.7	68.2	10.7	8.0	7.2	0.6	5.2
2002	100.0	17.2	82.8	69.8	10.4	7.6	7.5	0.6	4.2
2003	100.0	16.4	83.6	69.8	10.0	7.3	8.1	0.6	4.1
2004	100.0	16.3	83.7	70.2	9.8	7.1	8.0	0.7	4.2
2005	100.0	16.2	83.8	70.4	9.2	7.2	8.3	0.6	4.2

NOTE: Race/ethnicity/citizenship categories are those used in the survey's data collection.

SOURCE: Engineering Workforce Commission, *Engineering & Technology Enrollments: Fall 2005* (Washington, DC, 2006).

TABLE B-10. Undergraduate enrollment in engineering programs, by sex, race/ethnicity, and citizenship: 2005

Sex and status	All undergraduates	Total	White	Asian	Black	Hispanic	Native American	Foreign national
	Number							
All enrolled	409,326	387,642	282,421	43,385	24,343	35,198	2,295	21,684
Male	338,747	321,283	239,601	34,450	17,788	27,623	1,821	17,464
Female	70,579	66,359	42,820	8,935	6,555	7,575	474	4,220
Full time, first year	100,411	96,186	70,732	9,281	7,212	8,338	623	4,225
Male	84,173	80,725	60,608	7,550	5,389	6,692	486	3,448
Female	16,238	15,461	10,124	1,731	1,823	1,646	137	777
Percent distribution								
All enrolled	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Male	82.8	82.9	84.8	79.4	73.1	78.5	79.3	80.5
Female	17.2	17.1	15.2	20.6	26.9	21.5	20.7	19.5
Full time, first year	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Male	83.8	83.9	85.7	81.3	74.7	80.3	78.0	81.6
Female	16.2	16.1	14.3	18.7	25.3	19.7	22.0	18.4

NOTE: Race/ethnicity/citizenship categories are those used in the survey's data collection.

SOURCE: Engineering Workforce Commission, *Engineering & Technology Enrollments: Fall 2005* (Washington, DC, 2006).

TABLE C-1. Associate's degrees, by field and sex: 1995–2004

Field and sex	1995	1996	1997	1998	2000	2001	2002	2003	2004
Both sexes									
All fields	544,094	540,644	546,031	549,191	543,876	552,046	553,735	595,223	605,403
S&E	24,228	24,600	25,771	28,646	33,651	38,063	42,200	51,147	48,309
Sciences	21,943	22,552	23,883	26,539	31,921	36,272	40,553	49,331	46,169
Agricultural sciences	1,910	1,895	1,865	2,007	1,943	2,083	1,983	1,554	1,574
Biological sciences	1,901	2,074	2,181	2,176	1,468	1,519	1,519	1,780	1,749
Computer sciences	9,627	9,401	10,632	12,899	18,928	23,106	26,916	35,789	32,176
Earth, atmospheric, and ocean sciences	186	189	191	180	174	181	58	186	40
Mathematics and statistics	783	759	793	843	670	692	683	733	797
Physical sciences	1,459	1,560	1,540	1,518	1,271	1,136	1,284	1,085	1,545
Psychology	1,600	1,584	1,606	1,760	1,445	1,538	1,691	1,766	1,869
Social sciences	4,477	5,090	5,075	5,156	6,022	6,017	6,419	6,438	6,419
Engineering	2,285	2,048	1,888	2,107	1,730	1,791	1,647	1,816	2,140
Non-S&E	519,866	516,044	520,260	520,545	510,225	513,983	511,535	544,076	557,094
Engineering technologies	39,190	35,982	35,221	35,163	35,544	35,413	31,557	34,007	29,681
Other non-S&E	480,676	480,062	485,039	485,382	474,681	478,570	479,978	510,069	527,413
Female									
All fields	324,390	327,554	333,333	333,303	327,720	332,035	338,606	359,140	375,374
S&E	11,767	12,393	13,135	14,041	16,465	17,948	18,781	21,210	19,597
Sciences	11,460	12,124	12,864	13,718	16,227	17,651	18,510	20,921	19,122
Agricultural sciences	610	645	669	740	784	781	758	593	587
Biological sciences	1,144	1,244	1,392	1,383	974	1,022	1,035	1,203	1,142
Computer sciences	4,631	4,539	4,912	5,762	8,201	9,565	10,014	12,563	10,522
Earth, atmospheric, and ocean sciences	38	58	65	52	58	58	21	63	19
Mathematics and statistics	345	295	349	353	263	243	240	268	296
Physical sciences	686	730	807	811	671	552	610	509	669
Psychology	1,154	1,179	1,230	1,157	1,119	1,183	1,324	1,329	1,440
Social sciences	2,852	3,434	3,440	3,460	4,157	4,247	4,508	4,393	4,447
Engineering	307	269	271	323	238	297	271	289	475
Non-S&E	312,623	315,161	320,198	319,262	311,255	314,087	319,825	337,930	355,777
Engineering technologies	4,994	5,035	5,231	5,214	5,465	5,666	5,020	5,676	4,540
Other non-S&E	307,629	310,126	314,967	314,048	305,790	308,421	314,805	332,254	351,237
Male									
All fields	219,704	213,090	212,698	215,888	216,156	220,011	215,129	236,083	230,029
S&E	12,461	12,207	12,636	14,605	17,186	20,115	23,419	29,937	28,712
Sciences	10,483	10,428	11,019	12,821	15,694	18,621	22,043	28,410	27,047
Agricultural sciences	1,300	1,250	1,196	1,267	1,159	1,302	1,225	961	987
Biological sciences	757	830	789	793	494	497	484	577	607
Computer sciences	4,996	4,862	5,720	7,137	10,727	13,541	16,902	23,226	21,654
Earth, atmospheric, and ocean sciences	148	131	126	128	116	123	37	123	21
Mathematics and statistics	438	464	444	490	407	449	443	465	501
Physical sciences	773	830	733	707	600	584	674	576	876
Psychology	446	405	376	603	326	355	367	437	429
Social sciences	1,625	1,656	1,635	1,696	1,865	1,770	1,911	2,045	1,972
Engineering	1,978	1,779	1,617	1,784	1,492	1,494	1,376	1,527	1,665
Non-S&E	207,243	200,883	200,062	201,283	198,970	199,896	191,710	206,146	201,317
Engineering technologies	34,196	30,947	29,990	29,949	30,079	29,747	26,537	28,331	25,141
Other non-S&E	173,047	169,936	170,072	171,334	168,691	170,149	165,173	177,815	176,176

NOTES: Data not available for 1999.

SOURCE: National Science Foundation, Division of Science Resources Statistics, special tabulations of U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Completions Survey, 1995–2002.

TABLE C-2. Associate's degrees, by field, citizenship, and race/ethnicity: 1995–2004

Field, citizenship, and race/ethnicity	1995	1996	1997	1998	2000	2001	2002	2003	2004
All fields	544,094	540,644	546,031	549,191	543,876	552,046	553,735	595,223	605,403
S&E	24,228	24,600	25,771	28,646	33,651	38,063	42,200	51,147	48,309
Sciences	21,943	22,552	23,883	26,539	31,921	36,272	40,553	49,331	46,169
Agricultural sciences	1,910	1,895	1,865	2,007	1,943	2,083	1,983	1,554	1,574
Biological sciences	1,901	2,074	2,181	2,176	1,468	1,519	1,519	1,780	1,749
Computer sciences	9,627	9,401	10,632	12,899	18,928	23,106	26,916	35,789	32,176
Earth, atmospheric, and ocean sciences	186	189	191	180	174	181	58	186	40
Mathematics and statistics	783	759	793	843	670	692	683	733	797
Physical sciences	1,459	1,560	1,540	1,518	1,271	1,136	1,284	1,085	1,545
Psychology	1,600	1,584	1,606	1,760	1,445	1,538	1,691	1,766	1,869
Social sciences	4,477	5,090	5,075	5,156	6,022	6,017	6,419	6,438	6,419
Engineering	2,285	2,048	1,888	2,107	1,730	1,791	1,647	1,816	2,140
Non-S&E	519,866	516,044	520,260	520,545	510,225	513,983	511,535	544,076	557,094
Engineering technologies	39,190	35,982	35,221	35,163	35,544	35,413	31,557	34,007	29,681
Other non-S&E	480,676	480,062	485,039	485,382	474,681	478,570	479,978	510,069	527,413
U.S. citizen/permanent resident									
All fields	534,183	530,622	535,432	537,146	533,982	540,911	541,689	582,148	591,222
S&E	23,524	23,862	25,012	27,693	32,827	36,980	40,825	49,610	46,771
Sciences	21,316	21,884	23,191	25,719	31,165	35,285	39,235	47,874	44,739
Agricultural sciences	1,892	1,877	1,846	1,956	1,920	2,037	1,931	1,544	1,550
Biological sciences	1,824	2,014	2,103	2,094	1,441	1,484	1,489	1,731	1,692
Computer sciences	9,367	9,157	10,370	12,564	18,462	22,460	25,932	34,689	31,184
Earth, atmospheric, and ocean sciences	184	186	189	180	173	177	57	186	38
Mathematics and statistics	744	711	749	794	637	650	647	687	750
Physical sciences	1,382	1,477	1,448	1,443	1,216	1,103	1,240	1,027	1,460
Psychology	1,581	1,552	1,567	1,702	1,423	1,513	1,655	1,723	1,826
Social sciences	4,342	4,910	4,919	4,986	5,893	5,861	6,284	6,287	6,239
Engineering	2,208	1,978	1,821	1,974	1,662	1,695	1,590	1,736	2,032
Non-S&E	510,659	506,760	510,420	509,453	501,155	503,931	500,864	532,538	544,451
Engineering technologies	38,764	35,631	34,761	34,435	35,215	34,742	31,136	33,572	29,202
Other non-S&E	471,895	471,129	475,659	475,018	465,940	469,189	469,728	498,966	515,249
White									
All fields	408,126	403,072	400,307	396,735	380,777	378,041	372,372	393,947	393,977
S&E	16,392	16,333	16,835	18,415	20,982	23,970	26,204	30,923	28,930
Sciences	14,734	14,831	15,472	16,977	19,856	22,768	25,033	29,673	27,560
Agricultural sciences	1,633	1,696	1,680	1,768	1,718	1,824	1,715	1,403	1,358
Biological sciences	1,197	1,356	1,310	1,304	930	979	1,013	1,129	1,083
Computer sciences	6,471	6,270	7,052	8,473	11,821	14,438	16,446	21,550	19,329
Earth, atmospheric, and ocean sciences	156	165	160	155	150	156	54	146	34
Mathematics and statistics	479	439	492	501	379	358	381	372	436
Physical sciences	1,024	1,018	999	952	799	753	886	686	920
Psychology	1,146	1,094	1,087	1,068	952	1,005	1,111	1,111	1,141
Social sciences	2,628	2,793	2,692	2,756	3,107	3,255	3,427	3,276	3,259
Engineering	1,658	1,502	1,363	1,438	1,126	1,202	1,171	1,250	1,370
Non-S&E	391,734	386,739	383,472	378,320	359,795	354,071	346,168	363,024	365,047
Engineering technologies	29,646	27,506	26,522	26,208	25,643	24,999	21,971	23,383	20,541
Other non-S&E	362,088	359,233	356,950	352,112	334,152	329,072	324,197	339,641	344,506
Asian/Pacific Islander									
All fields	20,976	22,630	23,882	23,909	25,654	25,780	28,032	28,929	28,855
S&E	1,392	1,525	1,700	1,884	2,384	2,502	2,877	3,436	3,124
Sciences	1,240	1,379	1,552	1,718	2,224	2,372	2,780	3,324	2,989
Agricultural sciences	10	4	4	8	19	9	9	7	16
Biological sciences	190	216	264	248	109	94	91	142	148
Computer sciences	513	516	661	820	1,381	1,651	2,026	2,465	2,004
Earth, atmospheric, and ocean sciences	5	2	4	3	1	0	0	5	0
Mathematics and statistics	93	104	87	100	90	106	91	102	100

TABLE C-2. Associate's degrees, by field, citizenship, and race/ethnicity: 1995–2004

Field, citizenship, and race/ethnicity	1995	1996	1997	1998	2000	2001	2002	2003	2004
Physical sciences	124	163	176	170	145	81	86	105	190
Psychology	57	57	63	53	51	53	50	74	75
Social sciences	248	317	293	316	428	378	427	424	456
Engineering	152	146	148	166	160	130	97	112	135
Non-S&E	19,584	21,105	22,182	22,025	23,270	23,278	25,155	25,493	25,731
Engineering technologies	1,458	1,464	1,586	1,521	1,752	1,725	1,711	1,905	1,314
Other non-S&E	18,126	19,641	20,596	20,504	21,518	21,553	23,444	23,588	24,417
Black									
All fields	45,923	49,245	51,588	52,957	55,154	57,851	58,454	66,047	66,741
S&E	2,307	2,411	2,577	2,856	3,856	4,351	4,859	6,406	5,690
Sciences	2,159	2,277	2,446	2,747	3,733	4,247	4,741	6,289	5,540
Agricultural sciences	23	18	11	9	18	3	14	9	13
Biological sciences	147	114	140	155	137	127	121	145	135
Computer sciences	1,046	1,104	1,182	1,531	2,445	3,035	3,506	4,950	4,281
Earth, atmospheric, and ocean sciences	10	11	9	14	13	9	1	17	0
Mathematics and statistics	45	36	37	33	36	50	27	41	36
Physical sciences	93	101	96	112	85	80	77	63	73
Psychology	126	147	125	111	135	142	140	144	158
Social sciences	669	746	846	782	864	801	855	920	844
Engineering	148	134	131	109	123	104	118	117	150
Non-S&E	43,616	46,834	49,011	50,101	51,298	53,500	53,595	59,641	61,051
Engineering technologies	3,015	2,989	2,982	3,156	3,321	3,372	2,795	3,280	2,536
Other non-S&E	40,601	43,845	46,029	46,945	47,977	50,128	50,800	56,361	58,515
Hispanic									
All fields	38,499	39,115	42,784	45,452	50,488	54,333	55,900	59,942	63,669
S&E	2,498	2,542	2,773	3,103	3,868	4,131	4,531	5,514	5,274
Sciences	2,337	2,410	2,661	2,907	3,690	3,945	4,402	5,363	5,006
Agricultural sciences	136	89	75	85	77	109	86	52	50
Biological sciences	208	221	276	289	183	220	188	216	207
Computer sciences	1,035	928	1,065	1,299	2,033	2,154	2,567	3,391	3,007
Earth, atmospheric, and ocean sciences	10	3	8	3	1	1	1	1	2
Mathematics and statistics	99	108	110	120	97	99	105	124	131
Physical sciences	70	106	102	119	106	113	98	95	133
Psychology	193	179	209	180	192	218	259	293	333
Social sciences	586	776	816	812	1,001	1,031	1,098	1,191	1,143
Engineering	161	132	112	196	178	186	129	151	268
Non-S&E	36,001	36,573	40,011	42,349	46,620	50,202	51,369	54,428	58,395
Engineering technologies	2,777	2,742	2,728	2,621	3,283	3,369	3,069	2,829	2,863
Other non-S&E	33,224	33,831	37,283	39,728	43,337	46,833	48,300	51,599	55,532
American Indian/Alaskan Native									
All fields	5,352	5,221	5,520	6,161	5,697	5,758	5,965	6,515	6,886
S&E	419	466	455	500	525	501	577	651	678
Sciences	397	455	430	478	508	485	562	632	644
Agricultural sciences	54	42	54	64	67	48	49	33	50
Biological sciences	40	42	46	37	37	32	41	27	45
Computer sciences	111	129	120	148	188	208	217	326	289
Earth, atmospheric, and ocean sciences	1	0	1	3	0	0	0	2	0
Mathematics and statistics	13	9	2	13	7	12	7	13	10
Physical sciences	22	26	20	30	13	17	17	16	24
Psychology	35	42	38	37	38	34	32	31	36
Social sciences	121	165	149	146	158	134	199	184	190
Engineering	22	11	25	22	17	16	15	19	34
Non-S&E	4,933	4,755	5,065	5,661	5,172	5,257	5,388	5,864	6,208
Engineering technologies	286	269	236	286	273	253	239	314	341
Other non-S&E	4,47	4,486	4,829	5,375	4,899	5,004	5,149	5,550	5,867

TABLE C-2. Associate's degrees, by field, citizenship, and race/ethnicity: 1995–2004

Field, citizenship, and race/ethnicity	1995	1996	1997	1998	2000	2001	2002	2003	2004
Other or unknown race/ethnicity									
All fields	15,307	11,339	11,351	11,932	16,212	19,148	20,966	26,768	31,094
S&E	516	585	672	935	1,212	1,525	1,777	2,680	3,075
Sciences	449	532	630	892	1,154	1,468	1,717	2,593	3,000
Agricultural sciences	36	28	22	22	21	44	58	40	63
Biological sciences	42	65	67	61	45	32	35	72	74
Computer sciences	191	210	290	293	594	974	1,170	2,007	2,274
Earth, atmospheric, and ocean sciences	2	5	7	2	8	11	1	15	2
Mathematics and statistics	15	15	21	27	28	25	36	35	37
Physical sciences	49	63	55	60	68	59	76	62	120
Psychology	24	33	45	253	55	61	63	70	83
Social sciences	90	113	123	174	335	262	278	292	347
Engineering	67	53	42	43	58	57	60	87	75
Non-S&E	14,791	10,754	10,679	10,997	15,000	17,623	19,189	24,088	28,019
Engineering technologies	1,582	661	707	643	943	1,024	1,351	1,861	1,607
Other non-S&E	13,209	10,093	9,972	10,354	14,057	16,599	17,838	22,227	26,412
Temporary resident									
All fields	9,911	10,022	10,599	12,045	9,894	11,135	12,046	13,075	14,181
S&E	704	738	759	953	824	1,083	1,375	1,537	1,538
Sciences	627	668	692	820	756	987	1,318	1,457	1,430
Agricultural sciences	18	18	19	51	23	46	52	10	24
Biological sciences	77	60	78	82	27	35	30	49	57
Computer sciences	260	244	262	335	466	646	984	1,100	992
Earth, atmospheric, and ocean sciences	2	3	2	0	1	4	1	0	2
Mathematics and statistics	39	48	44	49	33	42	36	46	47
Physical sciences	77	83	92	75	55	33	44	58	85
Psychology	19	32	39	58	22	25	36	43	43
Social sciences	135	180	156	170	129	156	135	151	180
Engineering	77	70	67	133	68	96	57	80	108
Non-S&E	9,207	9,284	9,840	11,092	9,070	10,052	10,671	11,538	12,643
Engineering technologies	426	351	460	728	329	671	421	435	479
Other non-S&E	8,781	8,933	9,380	10,364	8,741	9,381	10,250	11,103	12,164

NOTES: Race/ethnicity breakouts are for U.S. citizens and permanent residents only. Temporary resident includes all racial/ethnic groups. Data not available for 1999.

SOURCE: National Science Foundation, Division of Science Resources Statistics, special tabulations of U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Completions Survey, 1995–2004.

TABLE C-3. S&E and S&E technologies associate's degrees, by sex, citizenship, race/ethnicity, and field: 2004

Sex, citizenship, and race/ethnicity	Sciences													All S&E			
	All fields	S&E	All sciences	Agricultural sciences	Biological sciences	Computer sciences	Earth, atmospheric, and ocean sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Engineering	Technologies	Engineering	Health	Other	
All degrees	605,403	48,309	46,169	1,574	1,749	32,176	40	797	1,545	1,869	6,419	2,140	70,046	29,681	39,090	1,275	
Female	375,374	19,597	19,122	587	1,142	10,522	19	296	669	1,440	4,447	475	37,725	4,540	32,729	456	
Male	230,029	28,712	27,047	987	607	21,654	21	501	876	429	1,972	1,665	32,321	25,141	6,361	819	
U.S. citizen/permanent resident	591,222	46,771	44,739	1,550	1,692	31,184	38	750	1,460	1,826	6,239	2,032	69,186	29,202	38,730	1,254	
Female	366,750	18,909	18,455	571	1,103	10,119	18	282	629	1,408	4,325	454	37,331	4,424	32,466	441	
Male	224,472	27,862	26,284	979	589	21,065	20	468	831	418	1,914	1,578	31,855	24,778	6,264	813	
White	393,977	28,930	27,560	1,358	1,083	19,329	34	436	920	1,141	3,259	1,370	49,446	20,541	28,066	839	
Female	240,673	10,853	10,586	493	684	5,730	16	157	383	883	2,240	267	27,035	2,884	23,855	296	
Male	153,304	18,077	16,974	865	399	13,599	18	279	537	258	1,019	1,103	22,411	17,657	4,211	543	
Asian/Pacific Islander	28,855	3,124	2,989	16	148	2,004	0	100	190	75	456	135	2,479	1,314	1,123	42	
Female	17,109	1,343	1,313	9	105	700	0	43	90	55	311	30	1,030	195	810	25	
Male	11,746	1,781	1,676	7	43	1,304	0	57	100	20	145	105	1,449	1,119	313	17	
Black	66,741	5,690	5,540	13	135	4,281	0	36	73	158	844	150	7,035	2,536	4,328	171	
Female	46,470	2,904	2,872	4	93	1,969	0	14	45	121	626	32	4,281	564	3,653	64	
Male	20,271	2,786	2,668	9	42	2,312	0	22	28	37	218	118	2,754	1,972	675	107	
Hispanic	63,669	5,274	5,006	50	207	3,007	2	131	133	333	1,143	268	6,380	2,863	3,379	138	
Female	40,629	2,454	2,359	21	141	1,036	1	48	59	256	797	95	3,168	463	2,667	38	
Male	23,040	2,820	2,647	29	66	1,971	1	83	74	77	346	173	3,212	2,400	712	100	
American Indian/Alaskan Native	6,886	678	644	50	45	289	0	10	24	36	190	34	736	341	386	9	
Female	4,598	370	355	18	36	124	0	5	11	27	134	15	409	83	321	5	
Male	2,288	308	289	32	9	165	0	5	13	9	56	19	327	258	65	4	
Other or unknown race/ethnicity	31,094	3,075	3,000	63	74	2,274	2	37	120	83	347	75	3,110	1,607	1,448	55	
Female	17,271	985	970	26	44	560	1	15	41	66	217	15	1,408	235	1,160	13	
Male	13,823	2,090	2,030	37	30	1,714	1	22	79	17	130	60	1,702	1,372	288	42	
Temporary resident	14,181	1,538	1,430	24	57	992	2	47	85	43	180	108	860	479	360	21	
Female	8,624	688	667	16	39	403	1	14	40	32	122	21	394	116	263	15	
Male	5,557	850	763	8	18	589	1	33	45	11	58	87	466	363	97	6	

NOTES: Race/ethnicity breakouts are for U.S. citizens and permanent residents only. Temporary resident includes all racial/ethnic groups.

SOURCE: National Science Foundation, Division of Science Resources Statistics, special tabulations of U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Completions Survey, 2004.

TABLE C-4. Bachelor's degrees, by sex and field: 1995–2004

Sex and year	Sciences															
				Earth, atmospheric, and ocean sciences				Mathematics and statistics			Physical sciences		Psychology	Social sciences	Engineering	Non-S&E
	All fields	S&E	Total	Agri-cultural sciences	Biological sciences	Computer sciences										
Number of degrees																
Both sexes																
1995	1,174,436	378,148	314,777	14,580	56,890	24,769	4,478	13,851	14,897	72,601	112,711	63,371	796,288			
1996	1,179,815	384,674	321,560	16,388	62,081	24,545	4,457	13,076	15,396	73,828	111,789	63,114	795,141			
1997	1,186,589	388,482	326,130	17,361	65,139	25,393	4,466	12,723	15,264	74,734	111,050	62,352	798,107			
1998	1,199,579	390,618	329,704	17,967	67,112	27,674	4,321	12,094	15,273	74,457	110,806	60,914	808,961			
2000	1,253,121	398,622	339,086	18,244	64,904	37,388	4,047	11,735	14,580	74,654	113,534	59,536	854,499			
2001	1,257,648	400,206	340,948	17,467	62,089	43,184	3,968	11,455	14,163	74,168	114,454	59,258	857,442			
2002	1,305,730	415,611	354,972	17,360	61,768	49,135	3,984	12,273	14,016	77,323	119,113	60,639	890,119			
2003	1,359,843	437,436	373,663	16,142	61,929	56,329	3,949	12,882	14,122	79,115	129,195	63,773	922,407			
2004	1,407,009	452,338	387,663	15,622	63,892	57,405	3,903	13,755	14,240	82,510	136,336	64,675	954,671			
Female																
1995	643,290	175,931	164,981	5,637	29,918	7,063	1,524	6,491	5,292	52,963	56,093	10,950	467,359			
1996	651,815	181,333	170,017	6,504	32,865	6,772	1,485	5,992	5,702	53,863	56,834	11,316	470,482			
1997	661,307	187,011	175,541	7,267	35,266	6,903	1,542	5,889	5,882	55,243	57,549	11,470	474,296			
1998	673,865	190,397	179,058	7,743	37,101	7,439	1,599	5,659	5,994	55,400	58,123	11,339	483,468			
2000	716,963	200,953	188,737	8,464	37,958	10,474	1,617	5,604	5,990	57,114	61,516	12,216	516,010			
2001	721,625	202,583	190,669	8,491	37,084	11,900	1,622	5,497	5,911	57,467	62,697	11,914	519,042			
2002	751,773	211,203	198,516	8,634	37,695	13,504	1,702	5,762	5,982	59,926	65,311	12,687	540,570			
2003	783,866	220,348	207,378	8,301	38,521	15,190	1,651	5,879	5,884	61,499	70,453	12,970	563,518			
2004	810,817	227,813	214,556	8,147	39,913	14,406	1,647	6,318	6,002	64,208	73,915	13,257	583,004			
Male																
1995	531,146	202,217	149,796	8,943	26,972	17,706	2,954	7,360	9,605	19,638	56,618	52,421	328,929			
1996	528,000	203,341	151,543	9,884	29,216	17,773	2,972	7,084	9,694	19,965	54,955	51,798	324,659			
1997	525,282	201,471	150,589	10,094	29,873	18,490	2,924	6,834	9,382	19,491	53,501	50,882	323,811			
1998	525,714	200,221	150,646	10,224	30,011	20,235	2,722	6,435	9,279	19,057	52,683	49,575	325,493			
2000	536,158	197,669	150,349	9,780	26,946	26,914	2,430	6,131	8,590	17,540	52,018	47,320	338,489			
2001	536,023	197,623	150,279	8,976	25,005	31,284	2,346	5,958	8,252	16,701	51,757	47,344	338,400			
2002	553,957	204,408	156,456	8,726	24,073	35,631	2,282	6,511	8,034	17,397	53,802	47,952	349,549			
2003	575,977	217,088	166,285	7,841	23,408	41,139	2,298	7,003	8,238	17,616	58,742	50,803	358,889			
2004	596,192	224,525	173,107	7,475	23,979	42,999	2,256	7,437	8,238	18,302	62,421	51,418	371,667			
Female																
Percent																
1995	54.8	46.5	52.4	38.7	52.6	28.5	34.0	46.9	35.5	73.0	49.8	17.3	58.7			
1996	55.2	47.1	52.9	39.7	52.9	27.6	33.3	45.8	37.0	73.0	50.8	17.9	59.2			
1997	55.7	48.1	53.8	41.9	54.1	27.2	34.5	46.3	38.5	73.9	51.8	18.4	59.4			
1998	56.2	48.7	54.3	43.1	55.3	26.9	37.0	46.8	39.2	74.4	52.5	18.6	59.8			
2000	57.2	50.4	55.7	46.4	58.5	28.0	40.0	47.8	41.1	76.5	54.2	20.5	60.4			
2001	57.4	50.6	55.9	48.6	59.7	27.6	40.9	48.0	41.7	77.5	54.8	20.1	60.5			
2002	57.6	50.8	55.9	49.7	61.0	27.5	42.7	46.9	42.7	77.5	54.8	20.9	60.7			
2003	57.6	50.4	55.5	51.4	62.2	27.0	41.8	45.6	41.7	77.7	54.5	20.3	61.1			
2004	57.6	50.4	55.3	52.2	62.5	25.1	42.2	45.9	42.1	77.8	54.2	20.5	61.1			

NOTE: Data not available for 1999.

SOURCE: National Science Foundation, Division of Science Resources Statistics, special tabulations of U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Completions Survey, 1995–2004.

TABLE C-5. Bachelor's degrees, by field and sex: 1995–2004

Field and sex	1995	1996	1997	1998	2000	2001	2002	2003	2004
All fields	1,174,436	1,179,815	1,186,589	1,199,579	1,253,121	1,257,648	1,305,730	1,359,843	1,407,009
S&E	378,148	384,674	388,482	390,618	398,622	400,206	415,611	437,436	452,338
Sciences	314,777	321,560	326,130	329,704	339,086	340,948	354,972	373,663	387,663
Agricultural sciences	14,580	16,388	17,361	17,967	18,244	17,467	17,360	16,142	15,622
Biological sciences	56,890	62,081	65,139	67,112	64,904	62,089	61,768	61,929	63,892
Computer sciences	24,769	24,545	25,393	27,674	37,388	43,184	49,135	56,329	57,405
Earth, atmospheric, and ocean sciences	4,478	4,457	4,466	4,321	4,047	3,968	3,984	3,949	3,903
Atmospheric sciences	444	434	431	443	490	456	525	562	572
Earth sciences	3,820	3,838	3,830	3,665	3,359	3,334	3,234	3,252	3,170
Ocean sciences	214	185	205	213	198	178	225	135	161
Mathematics and statistics	13,851	13,076	12,723	12,094	11,735	11,455	12,273	12,882	13,755
Physical sciences	14,897	15,396	15,264	15,273	14,580	14,163	14,016	14,122	14,240
Astronomy	169	148	140	168	160	240	276	271	292
Chemistry	10,016	10,713	10,926	10,873	10,390	9,822	9,448	9,332	9,305
Physics	3,836	3,703	3,393	3,455	3,362	3,457	3,651	3,922	4,156
Other physical sciences	876	832	805	777	668	644	641	597	487
Psychology	72,601	73,828	74,734	74,457	74,654	74,168	77,323	79,115	82,510
Social sciences	112,711	111,789	111,050	110,806	113,534	114,454	119,113	129,195	136,336
Anthropology	5,806	6,389	6,759	6,894	7,057	6,898	7,198	7,542	7,629
Area/ethnic studies	5,176	5,197	5,257	5,441	5,617	5,561	5,844	5,745	6,242
Economics	19,083	17,896	17,701	18,244	19,400	20,377	21,827	23,871	24,933
History of science	29	21	31	39	92	101	103	103	140
Linguistics	564	619	577	680	727	757	861	920	1,047
Political science and public administration	41,978	39,928	37,807	36,654	36,439	36,651	38,573	43,288	46,132
Sociology	22,974	24,169	24,750	24,884	25,685	25,363	25,318	26,191	27,030
Other social sciences	17,101	17,570	18,168	17,970	18,517	18,746	19,389	21,535	23,183
Engineering	63,371	63,114	62,352	60,914	59,536	59,258	60,639	63,773	64,675
Aerospace engineering	1,771	1,642	1,290	1,247	1,267	1,498	1,747	2,017	2,318
Chemical engineering	6,391	6,708	6,977	6,721	6,219	6,088	5,946	5,545	5,185
Civil engineering	11,329	12,053	12,010	11,522	9,596	8,949	8,891	9,367	9,399
Electrical engineering	17,579	16,667	16,434	16,322	17,672	18,371	18,977	20,729	21,342
Industrial engineering	3,519	3,727	3,997	3,988	3,937	3,818	3,976	3,939	3,807
Materials engineering	1,046	1,004	1,063	1,007	972	930	933	950	865
Mechanical engineering	15,141	14,509	13,806	13,363	13,109	13,160	13,377	14,044	14,368
Other engineering	6,595	6,804	6,775	6,744	6,764	6,444	6,792	7,182	7,391
Non-S&E	796,288	795,141	798,107	808,961	854,499	857,442	890,119	922,407	954,671
Female									
All fields	643,290	651,815	661,307	673,865	716,963	721,625	751,773	783,866	810,817
S&E	175,931	181,333	187,011	190,397	200,953	202,583	211,203	220,348	227,813
Sciences	164,981	170,017	175,541	179,058	188,737	190,669	198,516	207,378	214,556
Agricultural sciences	5,637	6,504	7,267	7,743	8,464	8,491	8,634	8,301	8,147
Biological sciences	29,918	32,865	35,266	37,101	37,958	37,084	37,695	38,521	39,913
Computer sciences	7,063	6,772	6,903	7,439	10,474	11,900	13,504	15,190	14,406
Earth, atmospheric, and ocean sciences	1,524	1,485	1,542	1,599	1,617	1,622	1,702	1,651	1,647
Atmospheric sciences	82	86	83	104	114	132	151	176	203
Earth sciences	1,364	1,334	1,385	1,403	1,409	1,400	1,446	1,406	1,358
Ocean sciences	78	65	74	92	94	90	105	69	86
Mathematics and statistics	6,491	5,992	5,889	5,659	5,604	5,497	5,762	5,879	6,318

TABLE C-5. Bachelor's degrees, by field and sex: 1995–2004

Field and sex	1995	1996	1997	1998	2000	2001	2002	2003	2004
Physical sciences	5,292	5,702	5,882	5,994	5,990	5,911	5,982	5,884	6,002
Astronomy	52	55	46	58	54	95	116	110	123
Chemistry	4,233	4,622	4,883	4,973	4,907	4,775	4,729	4,682	4,755
Physics	675	684	652	666	724	756	826	840	908
Other physical sciences	332	341	301	297	305	285	311	252	216
Psychology	52,963	53,863	55,243	55,400	57,114	57,467	59,926	61,499	64,208
Social sciences	56,093	56,834	57,549	58,123	61,516	62,697	65,311	70,453	73,915
Anthropology	3,689	4,058	4,313	4,480	4,742	4,706	4,926	5,229	5,280
Area/ethnic studies	3,094	3,217	3,256	3,441	3,572	3,657	3,808	3,690	4,080
Economics	5,848	5,372	5,448	5,791	6,384	6,924	7,389	8,096	8,281
History of science	15	9	17	18	52	56	63	54	73
Linguistics	411	438	393	483	498	512	612	626	717
Political science and public administration	18,968	18,350	17,854	17,320	18,347	18,637	19,743	22,095	23,256
Sociology	15,539	16,375	16,904	17,122	18,028	17,923	18,011	18,638	19,310
Other social sciences	8,529	9,015	9,364	9,468	9,893	10,282	10,759	12,025	12,918
Engineering	10,950	11,316	11,470	11,339	12,216	11,914	12,687	12,970	13,257
Aerospace engineering	230	247	202	197	238	304	312	384	413
Chemical engineering	2,024	2,171	2,276	2,196	2,203	2,055	2,123	2,013	1,833
Civil engineering	2,298	2,424	2,569	2,576	2,333	2,041	2,224	2,249	2,279
Electrical engineering	2,170	1,972	2,018	2,012	2,350	2,542	2,720	2,909	3,032
Industrial engineering	1,026	1,097	1,079	1,020	1,307	1,224	1,341	1,312	1,265
Materials engineering	247	223	259	235	268	263	285	276	270
Mechanical engineering	1,700	1,736	1,635	1,636	1,784	1,739	1,783	1,861	1,952
Other engineering	1,255	1,446	1,432	1,467	1,733	1,746	1,899	1,966	2,213
Non-S&E	467,359	470,482	474,296	483,468	516,010	519,042	540,570	563,518	583,004
Male									
All fields	531,146	528,000	525,282	525,714	536,158	536,023	553,957	575,977	596,192
S&E	202,217	203,341	201,471	200,221	197,669	197,623	204,408	217,088	224,525
Sciences	149,796	151,543	150,589	150,646	150,349	150,279	156,456	166,285	173,107
Agricultural sciences	8,943	9,884	10,094	10,224	9,780	8,976	8,726	7,841	7,475
Biological sciences	26,972	29,216	29,873	30,011	26,946	25,005	24,073	23,408	23,979
Computer sciences	17,706	17,773	18,490	20,235	26,914	31,284	35,631	41,139	42,999
Earth, atmospheric, and ocean sciences	2,954	2,972	2,924	2,722	2,430	2,346	2,282	2,298	2,256
Atmospheric sciences	362	348	348	339	376	324	374	386	369
Earth sciences	2,456	2,504	2,445	2,262	1,950	1,934	1,788	1,846	1,812
Ocean sciences	136	120	131	121	104	88	120	66	75
Mathematics and statistics	7,360	7,084	6,834	6,435	6,131	5,958	6,511	7,003	7,437
Physical sciences	9,605	9,694	9,382	9,279	8,590	8,252	8,034	8,238	8,238
Astronomy	117	93	94	110	106	145	160	161	169
Chemistry	5,783	6,091	6,043	5,900	5,483	5,047	4,719	4,650	4,550
Physics	3,161	3,019	2,741	2,789	2,638	2,701	2,825	3,082	3,248
Other physical sciences	544	491	504	480	363	359	330	345	271
Psychology	19,638	19,965	19,491	19,057	17,540	16,701	17,397	17,616	18,302
Social sciences	56,618	54,955	53,501	52,683	52,018	51,757	53,802	58,742	62,421
Anthropology	2,117	2,331	2,446	2,414	2,315	2,192	2,272	2,313	2,349
Area/ethnic studies	2,082	1,980	2,001	2,000	2,045	1,904	2,036	2,055	2,162
Economics	13,235	12,524	12,253	12,453	13,016	13,453	14,438	15,775	16,652
History of science	14	12	14	21	40	45	40	49	67
Linguistics	153	181	184	197	229	245	249	294	330
Political science and public administration	23,010	21,578	19,953	19,334	18,092	18,014	18,830	21,193	22,876
Sociology	7,435	7,794	7,846	7,762	7,657	7,440	7,307	7,553	7,720
Other social sciences	8,572	8,555	8,804	8,502	8,624	8,464	8,630	9,510	10,265

TABLE C-5. Bachelor's degrees, by field and sex: 1995–2004

Field and sex	1995	1996	1997	1998	2000	2001	2002	2003	2004
Engineering	52,421	51,798	50,882	49,575	47,320	47,344	47,952	50,803	51,418
Aerospace engineering	1,541	1,395	1,088	1,050	1,029	1,194	1,435	1,633	1,905
Chemical engineering	4,367	4,537	4,701	4,525	4,016	4,033	3,823	3,532	3,352
Civil engineering	9,031	9,629	9,441	8,946	7,263	6,908	6,667	7,118	7,120
Electrical engineering	15,409	14,695	14,416	14,310	15,322	15,829	16,257	17,820	18,310
Industrial engineering	2,493	2,630	2,918	2,968	2,630	2,594	2,635	2,627	2,542
Materials engineering	799	781	804	772	704	667	648	674	595
Mechanical engineering	13,441	12,773	12,171	11,727	11,325	11,421	11,594	12,183	12,416
Other engineering	5,340	5,358	5,343	5,277	5,031	4,698	4,893	5,216	5,178
Non-S&E	328,929	324,659	323,811	325,493	338,489	338,400	349,549	358,889	371,667

NOTE: Data not available for 1999.

SOURCE: National Science Foundation, Division of Science Resources Statistics, special tabulations of U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Completions Survey, 1995–2004.

TABLE C-6. Bachelor's degrees, by field, citizenship, and race/ethnicity: 1995–2004

Field, citizenship, and race/ethnicity	1995	1996	1997	1998	2000	2001	2002	2003	2004
All fields	1,174,436	1,179,815	1,186,589	1,199,579	1,253,121	1,257,648	1,305,730	1,359,843	1,407,009
S&E	378,148	384,674	388,482	390,618	398,622	400,206	415,611	437,436	452,338
Sciences	314,777	321,560	326,130	329,704	339,086	340,948	354,972	373,663	387,663
Agricultural sciences	14,580	16,388	17,361	17,967	18,244	17,467	17,360	16,142	15,622
Biological sciences	56,890	62,081	65,139	67,112	64,904	62,089	61,768	61,929	63,892
Computer sciences	24,769	24,545	25,393	27,674	37,388	43,184	49,135	56,329	57,405
Earth, atmospheric, and ocean sciences	4,478	4,457	4,466	4,321	4,047	3,968	3,984	3,949	3,903
Atmospheric sciences	444	434	431	443	490	456	525	562	572
Earth sciences	3,820	3,838	3,830	3,665	3,359	3,334	3,234	3,252	3,170
Ocean sciences	214	185	205	213	198	178	225	135	161
Mathematics and statistics	13,851	13,076	12,723	12,094	11,735	11,455	12,273	12,882	13,755
Physical sciences	14,897	15,396	15,264	15,273	14,580	14,163	14,016	14,122	14,240
Astronomy	169	148	140	168	160	240	276	271	292
Chemistry	10,016	10,713	10,926	10,873	10,390	9,822	9,448	9,332	9,305
Physics	3,836	3,703	3,393	3,455	3,362	3,457	3,651	3,922	4,156
Other	876	832	805	777	668	644	641	597	487
Psychology	72,601	73,828	74,734	74,457	74,654	74,168	77,323	79,115	82,510
Social sciences	112,711	111,789	111,050	110,806	113,534	114,454	119,113	129,195	136,336
Anthropology	5,806	6,389	6,759	6,894	7,057	6,898	7,198	7,542	7,629
Area and ethnic studies	5,176	5,197	5,257	5,441	5,617	5,561	5,844	5,745	6,242
Economics	19,083	17,896	17,701	18,244	19,400	20,377	21,827	23,871	24,933
History of science	29	21	31	39	92	101	103	103	140
Linguistics	564	619	577	680	727	757	861	920	1,047
Political science and public administration	41,978	39,928	37,807	36,654	36,439	36,651	38,573	43,288	46,132
Sociology	22,974	24,169	24,750	24,884	25,685	25,363	25,318	26,191	27,030
Other	17,101	17,570	18,168	17,970	18,517	18,746	19,389	21,535	23,183
Engineering	63,371	63,114	62,352	60,914	59,536	59,258	60,639	63,773	64,675
Aerospace engineering	1,771	1,642	1,290	1,247	1,267	1,498	1,747	2,017	2,318
Chemical engineering	6,391	6,708	6,977	6,721	6,219	6,088	5,946	5,545	5,185
Civil engineering	11,329	12,053	12,010	11,522	9,596	8,949	8,891	9,367	9,399
Electrical engineering	17,579	16,667	16,434	16,322	17,672	18,371	18,977	20,729	21,342
Industrial engineering	3,519	3,727	3,997	3,988	3,937	3,818	3,976	3,939	3,807
Materials engineering	1,046	1,004	1,063	1,007	972	930	933	950	865
Mechanical engineering	15,141	14,509	13,806	13,363	13,109	13,160	13,377	14,044	14,368
Other	6,595	6,804	6,775	6,744	6,764	6,444	6,792	7,182	7,391
Non-S&E	796,288	795,141	798,107	808,961	854,499	857,442	890,119	922,407	954,671
U.S. citizen/permanent resident									
All fields	1,137,424	1,142,028	1,147,815	1,160,692	1,214,326	1,218,169	1,264,606	1,317,020	1,362,834
S&E	363,463	369,927	373,745	375,909	383,438	384,492	399,288	419,763	433,757
Sciences	304,902	311,576	316,190	319,638	328,435	329,653	342,916	360,265	373,629
Agricultural sciences	14,322	16,118	17,108	17,674	17,986	17,219	17,098	15,897	15,387
Biological sciences	55,607	60,714	63,677	65,689	63,528	60,652	60,311	60,417	62,253
Computer sciences	22,472	22,359	23,378	25,537	34,502	39,792	45,247	51,643	52,544
Earth, atmospheric, and ocean sciences	4,405	4,403	4,388	4,239	4,001	3,919	3,925	3,892	3,853
Atmospheric sciences	440	433	420	439	482	454	519	554	569
Earth sciences	3,761	3,790	3,770	3,590	3,326	3,288	3,185	3,204	3,125
Ocean sciences	204	180	198	210	193	177	221	134	159
Mathematics and statistics	13,258	12,525	12,190	11,641	11,256	11,029	11,819	12,260	13,073

TABLE C-6. Bachelor's degrees, by field, citizenship, and race/ethnicity: 1995–2004

Field, citizenship, and race/ethnicity	1995	1996	1997	1998	2000	2001	2002	2003	2004
Physical sciences	14,247	14,764	14,671	14,680	14,048	13,605	13,471	13,599	13,649
Astronomy	159	140	132	157	156	227	260	256	282
Chemistry	9,620	10,298	10,530	10,488	10,046	9,487	9,105	9,006	8,955
Physics	3,613	3,510	3,217	3,277	3,202	3,275	3,484	3,754	3,967
Other	855	816	792	758	644	616	622	583	445
Psychology	71,659	72,812	73,685	73,287	73,390	72,885	75,956	77,721	81,039
Social sciences	108,932	107,881	107,093	106,891	109,724	110,552	115,089	124,836	131,831
Anthropology	5,691	6,272	6,586	6,792	6,941	6,778	7,084	7,448	7,523
Area and ethnic studies	4,951	4,994	5,059	5,264	5,439	5,394	5,684	5,585	6,078
Economics	17,393	16,109	15,877	16,461	17,709	18,553	19,923	21,823	22,763
History of science	28	21	31	38	91	98	101	100	140
Linguistics	484	542	491	580	644	680	780	840	973
Political science and public administration	40,890	38,798	36,755	35,475	35,285	35,504	37,411	42,010	44,836
Sociology	22,642	23,845	24,451	24,575	25,386	25,105	25,023	25,842	26,704
Other	16,853	17,300	17,843	17,706	18,229	18,440	19,083	21,188	22,814
Engineering	58,561	58,351	57,555	56,271	55,003	54,839	56,372	59,498	60,128
Aerospace engineering	1,655	1,519	1,161	1,110	1,146	1,350	1,625	1,857	2,144
Chemical engineering	5,867	6,139	6,406	6,214	5,774	5,664	5,499	5,186	4,817
Civil engineering	10,892	11,615	11,536	11,012	9,137	8,537	8,520	9,018	9,084
Electrical engineering	15,462	14,680	14,564	14,485	15,836	16,529	17,108	18,677	19,069
Industrial engineering	3,095	3,279	3,517	3,502	3,456	3,343	3,534	3,537	3,426
Materials engineering	1,016	975	1,035	974	935	888	904	919	836
Mechanical engineering	14,360	13,727	12,898	12,566	12,320	12,416	12,694	13,448	13,754
Other	6,214	6,417	6,438	6,408	6,399	6,112	6,488	6,856	6,998
Non-S&E	773,961	772,101	774,070	784,783	830,888	833,677	865,318	897,257	929,077
White									
All fields	892,785	884,128	877,759	878,018	895,129	888,412	912,956	940,495	962,887
S&E	275,819	276,786	274,800	272,561	270,416	267,848	276,379	287,701	294,105
Sciences	232,053	233,643	233,134	231,987	231,349	229,081	236,656	245,876	252,248
Agricultural sciences	12,873	14,399	15,246	15,616	15,655	14,950	14,729	13,669	13,140
Biological sciences	40,697	43,739	45,387	45,912	43,907	41,325	41,288	40,887	41,910
Computer sciences	15,601	15,577	15,846	17,069	21,719	24,491	27,506	30,458	30,357
Earth, atmospheric, and ocean sciences	4,012	4,010	3,986	3,803	3,561	3,436	3,450	3,442	3,338
Atmospheric sciences	401	403	390	416	437	395	467	493	508
Earth sciences	3,430	3,447	3,429	3,207	2,959	2,888	2,806	2,837	2,691
Ocean sciences	181	160	167	180	165	153	177	112	139
Mathematics and statistics	10,486	9,799	9,432	8,903	8,395	8,173	8,756	8,976	9,639
Physical sciences	10,940	11,078	10,934	10,763	10,096	9,812	9,701	9,934	9,833
Astronomy	132	107	112	127	131	185	204	212	220
Chemistry	7,112	7,487	7,537	7,370	6,900	6,505	6,268	6,281	6,153
Physics	3,004	2,842	2,623	2,652	2,543	2,625	2,742	2,970	3,128
Other	692	642	662	614	522	497	487	471	332
Psychology	55,914	55,905	55,346	54,225	52,397	51,562	53,324	54,676	56,515
Social sciences	81,530	79,136	76,957	75,696	75,619	75,332	77,902	83,834	87,516
Anthropology	4,696	5,045	5,225	5,383	5,378	5,222	5,380	5,592	5,496
Area and ethnic studies	3,156	2,998	3,026	2,987	2,943	2,938	3,076	2,948	3,178
Economics	12,869	11,640	11,437	11,599	12,102	12,419	13,374	14,302	14,662
History of science	26	18	24	33	58	57	60	68	100
Linguistics	339	373	359	397	450	499	585	603	652
Political science and public administration	30,907	28,933	26,770	25,624	24,976	24,963	26,162	29,260	30,973
Sociology	16,170	16,777	16,661	16,450	16,561	16,105	15,838	16,275	16,681
Other	13,367	13,352	13,455	13,223	13,151	13,129	13,427	14,786	15,774

TABLE C-6. Bachelor's degrees, by field, citizenship, and race/ethnicity: 1995–2004

Field, citizenship, and race/ethnicity	1995	1996	1997	1998	2000	2001	2002	2003	2004
Engineering	43,766	43,143	41,666	40,574	39,067	38,767	39,723	41,825	41,857
Aerospace engineering	1,301	1,172	869	877	899	1,058	1,279	1,447	1,629
Chemical engineering	4,417	4,577	4,631	4,405	4,062	4,061	3,976	3,746	3,483
Civil engineering	8,646	9,117	8,940	8,481	7,003	6,615	6,624	7,032	7,011
Electrical engineering	10,079	9,427	9,293	9,174	9,715	9,891	9,975	10,957	10,934
Industrial engineering	2,220	2,350	2,271	2,333	2,385	2,330	2,428	2,392	2,352
Materials engineering	851	787	813	760	741	708	712	701	614
Mechanical engineering	11,332	10,688	9,919	9,656	9,467	9,541	9,876	10,516	10,756
Other	4,920	5,025	4,930	4,888	4,795	4,563	4,853	5,034	5,078
Non-S&E	616,966	607,342	602,959	605,457	624,713	620,564	636,577	652,794	668,782
Asian/Pacific Islander									
All fields	59,295	63,117	67,358	69,988	75,265	75,496	79,149	83,049	86,030
S&E	28,604	30,419	32,568	34,004	35,553	36,398	37,452	39,505	41,022
Sciences	21,819	23,619	25,483	27,002	28,699	29,373	30,331	32,093	33,397
Agricultural sciences	282	307	396	439	454	399	411	418	397
Biological sciences	7,045	7,967	8,541	8,869	8,025	7,493	7,209	7,213	7,698
Computer sciences	2,371	2,454	2,803	3,220	5,401	6,326	7,207	8,073	7,462
Earth, atmospheric, and ocean sciences	102	93	95	92	98	86	85	73	85
Atmospheric sciences	12	9	7	5	14	14	8	9	11
Earth sciences	77	79	77	76	77	64	65	58	65
Ocean sciences	13	5	11	11	7	8	12	6	9
Mathematics and statistics	964	910	852	834	891	916	1,000	1,153	1,244
Physical sciences	1,245	1,466	1,525	1,584	1,462	1,344	1,217	1,143	1,229
Astronomy	13	15	7	12	9	12	24	16	18
Chemistry	986	1,172	1,280	1,337	1,208	1,126	978	893	960
Physics	214	236	204	208	218	184	184	204	223
Other	32	43	34	27	27	22	31	30	28
Psychology	3,331	3,666	4,067	4,267	4,188	4,150	4,241	4,060	4,345
Social sciences	6,479	6,756	7,204	7,697	8,180	8,659	8,961	9,960	10,937
Anthropology	259	316	363	404	340	332	377	396	398
Area and ethnic studies	510	621	574	676	737	714	686	671	758
Economics	1,995	1,994	2,154	2,430	2,774	3,082	3,235	3,708	4,007
History of science	2	2	4	3	12	15	20	16	14
Linguistics	51	58	62	85	72	69	73	84	105
Political science and public administration	2,088	2,009	2,100	2,141	2,077	2,228	2,325	2,639	2,850
Sociology	989	1,090	1,228	1,212	1,324	1,300	1,325	1,372	1,596
Other	585	666	719	746	844	919	920	1,074	1,209
Engineering	6,785	6,800	7,085	7,002	6,854	7,025	7,121	7,412	7,625
Aerospace engineering	159	159	118	96	98	103	128	145	186
Chemical engineering	652	735	874	897	788	702	636	563	527
Civil engineering	942	986	1,017	909	646	521	482	500	493
Electrical engineering	2,769	2,688	2,663	2,757	3,143	3,522	3,774	3,966	4,083
Industrial engineering	287	322	437	369	332	319	356	386	376
Materials engineering	93	88	84	119	91	88	85	91	95
Mechanical engineering	1,249	1,177	1,135	1,128	1,002	998	892	939	928
Other	634	645	757	727	754	772	768	822	937
Non-S&E	30,691	32,698	34,790	35,984	39,712	39,098	41,697	43,544	45,008

TABLE C-6. Bachelor's degrees, by field, citizenship, and race/ethnicity: 1995–2004

Field, citizenship, and race/ethnicity	1995	1996	1997	1998	2000	2001	2002	2003	2004
Black									
All fields	85,287	89,554	92,067	95,878	104,212	106,648	111,032	117,257	122,618
S&E	26,911	28,397	29,825	30,751	32,924	33,290	34,796	36,400	38,050
Sciences	24,066	25,397	26,748	27,732	29,861	30,406	31,814	33,326	34,838
Agricultural sciences	253	341	367	409	450	428	454	339	360
Biological sciences	3,232	3,812	4,124	4,553	4,739	4,693	4,634	4,774	4,997
Computer sciences	2,517	2,427	2,432	2,666	3,497	4,291	4,954	5,867	5,934
Earth, atmospheric, and ocean sciences	64	60	57	70	51	56	62	60	65
Atmospheric sciences	11	7	8	7	10	2	10	12	20
Earth sciences	49	48	41	60	40	52	42	43	43
Ocean sciences	4	5	8	3	1	2	10	5	2
Mathematics and statistics	958	942	1,016	966	905	808	843	790	784
Physical sciences	970	1,040	1,053	1,057	1,090	996	1,018	928	958
Astronomy	3	3	0	2	1	2	3	1	3
Chemistry	738	789	861	824	888	827	796	744	756
Physics	172	176	148	179	152	133	182	147	166
Other	57	72	44	52	49	34	37	36	33
Psychology	5,741	6,028	6,647	6,852	7,572	7,562	7,747	8,011	8,479
Social sciences	10,331	10,747	11,052	11,159	11,557	11,572	12,102	12,557	13,261
Anthropology	145	183	220	234	268	242	253	258	338
Area and ethnic studies	607	635	653	692	738	691	784	749	805
Economics	1,156	1,020	925	979	1,044	1,089	1,221	1,326	1,409
History of science	0	0	2	0	6	6	4	6	8
Linguistics	17	19	8	21	14	24	25	17	32
Political science and public administration	3,859	3,811	3,761	3,638	3,602	3,554	3,737	3,954	4,235
Sociology	3,208	3,560	3,851	3,944	4,097	4,200	4,168	4,214	4,227
Other	1,339	1,519	1,632	1,651	1,788	1,766	1,910	2,033	2,207
Engineering	2,845	3,000	3,077	3,019	3,063	2,884	2,982	3,074	3,212
Aerospace engineering	64	51	50	35	40	39	43	65	70
Chemical engineering	305	337	373	385	383	373	346	317	303
Civil engineering	326	409	403	401	403	329	317	292	320
Electrical engineering	1,048	1,035	1,067	1,047	1,049	1,082	1,103	1,284	1,393
Industrial engineering	236	238	245	262	256	237	256	274	251
Materials engineering	22	29	20	32	24	27	32	22	22
Mechanical engineering	604	632	642	548	594	515	561	471	504
Other	240	269	277	309	314	282	324	349	349
Non-S&E	58,376	61,157	62,242	65,127	71,288	73,358	76,236	80,857	84,568
Hispanic									
All fields	66,691	71,015	74,938	78,125	88,324	89,972	95,104	100,352	105,165
S&E	21,359	22,886	24,445	25,712	27,984	28,321	29,871	32,025	33,077
Sciences	17,708	19,155	20,320	21,587	23,909	24,305	25,735	27,668	28,607
Agricultural sciences	383	504	559	631	634	607	662	621	624
Biological sciences	3,101	3,531	3,795	4,283	4,446	4,547	4,367	4,624	4,454
Computer sciences	1,314	1,284	1,327	1,473	2,155	2,354	2,714	3,445	3,535
Earth, atmospheric, and ocean sciences	84	105	113	118	127	157	136	119	131
Atmospheric sciences	5	7	8	8	9	15	10	10	13
Earth sciences	74	91	100	98	105	130	109	103	112
Ocean sciences	5	7	5	12	13	12	17	6	6
Mathematics and statistics	522	556	560	604	599	625	672	669	676

TABLE C-6. Bachelor's degrees, by field, citizenship, and race/ethnicity: 1995–2004

Field, citizenship, and race/ethnicity	1995	1996	1997	1998	2000	2001	2002	2003	2004
Physical sciences	716	767	740	796	883	870	864	861	885
Astronomy	6	6	4	11	7	16	10	12	23
Chemistry	553	616	593	640	719	669	666	669	651
Physics	105	113	119	117	125	151	157	164	187
Other	52	32	24	28	32	34	31	16	24
Psychology	4,543	5,036	5,282	5,509	6,127	6,178	6,692	6,807	7,252
Social sciences	7,045	7,372	7,944	8,173	8,938	8,967	9,628	10,522	11,050
Anthropology	308	363	445	397	462	465	494	533	568
Area and ethnic studies	476	535	570	678	659	648	688	717	756
Economics	844	841	829	851	976	1,030	1,068	1,188	1,289
History of science	0	1	1	2	3	5	7	4	7
Linguistics	40	47	24	39	42	45	39	48	71
Political science and public administration	2,866	2,841	2,912	2,828	2,975	2,925	3,135	3,543	3,693
Sociology	1,567	1,685	1,908	2,081	2,317	2,291	2,440	2,555	2,665
Other	944	1,059	1,255	1,297	1,504	1,558	1,757	1,934	2,001
Engineering	3,651	3,731	4,125	4,125	4,075	4,016	4,136	4,357	4,470
Aerospace engineering	93	89	93	78	67	92	97	110	121
Chemical engineering	345	331	379	393	380	341	353	320	313
Civil engineering	693	738	874	920	762	742	761	798	836
Electrical engineering	1,101	1,052	1,123	1,070	1,283	1,302	1,411	1,428	1,551
Industrial engineering	302	316	451	450	391	356	372	364	332
Materials engineering	26	42	89	42	38	34	33	50	52
Mechanical engineering	827	849	832	866	846	880	819	950	935
Other	264	314	284	306	308	269	290	337	330
Non-S&E	45,332	48,129	50,493	52,413	60,340	61,651	65,233	68,327	72,088
American Indian/Alaskan Native									
All fields	6,454	6,813	7,238	7,706	8,431	8,664	8,668	9,242	9,914
S&E	1,995	2,149	2,298	2,392	2,611	2,796	2,642	2,864	3,201
Sciences	1,774	1,906	2,035	2,138	2,283	2,540	2,334	2,544	2,868
Agricultural sciences	124	139	146	151	190	215	158	157	180
Biological sciences	285	317	341	399	379	431	410	364	402
Computer sciences	110	89	99	112	172	271	229	263	416
Earth, atmospheric, and ocean sciences	26	23	31	25	43	35	26	24	31
Atmospheric sciences	0	1	1	0	4	5	1	4	1
Earth sciences	25	20	26	25	35	29	23	18	30
Ocean sciences	1	2	4	0	4	1	2	2	0
Mathematics and statistics	58	53	57	65	69	51	57	65	59
Physical sciences	72	81	69	81	65	73	83	94	76
Astronomy	0	0	0	0	2	2	2	4	1
Chemistry	57	57	54	64	49	47	57	71	50
Physics	13	21	11	14	12	19	21	17	20
Other	2	3	4	3	2	5	3	2	5
Psychology	407	470	496	515	518	561	542	544	596
Social sciences	692	734	796	790	847	903	829	1,033	1,108
Anthropology	69	75	86	80	89	93	85	111	103
Area and ethnic studies	40	62	62	75	80	106	121	128	145
Economics	73	67	68	69	71	68	65	95	108
History of science	0	0	0	0	1	0	0	0	0
Linguistics	6	3	5	10	10	2	2	9	4
Political science and public administration	218	228	253	215	231	234	241	280	344
Sociology	176	186	192	197	220	225	184	244	228
Other	110	113	130	144	145	175	131	166	176

TABLE C-6. Bachelor's degrees, by field, citizenship, and race/ethnicity: 1995–2004

Field, citizenship, and race/ethnicity	1995	1996	1997	1998	2000	2001	2002	2003	2004
Engineering	221	243	263	254	328	256	308	320	333
Aerospace engineering	3	5	3	10	7	8	17	10	23
Chemical engineering	31	31	29	31	42	31	33	34	29
Civil engineering	58	59	71	62	84	65	67	67	64
Electrical engineering	43	55	50	53	81	56	70	99	88
Industrial engineering	4	8	19	15	23	17	21	12	15
Materials engineering	2	4	6	3	5	4	6	3	6
Mechanical engineering	55	57	45	47	53	51	61	58	73
Other	25	24	40	33	33	24	33	37	35
Non-S&E	4,459	4,664	4,940	5,314	5,820	5,868	6,026	6,378	6,713
Other or unknown race/ethnicity									
All fields	26,912	27,401	28,455	30,977	42,965	48,977	57,697	66,625	76,220
S&E	8,775	9,290	9,809	10,489	13,950	15,839	18,148	21,268	24,302
Sciences	7,482	7,856	8,470	9,192	12,334	13,948	16,046	18,758	21,671
Agricultural sciences	407	428	394	428	603	620	684	693	686
Biological sciences	1,247	1,348	1,489	1,673	2,032	2,163	2,403	2,555	2,792
Computer sciences	559	528	871	997	1,558	2,059	2,637	3,537	4,840
Earth, atmospheric, and ocean sciences	117	112	106	131	121	149	166	174	203
Atmospheric sciences	11	6	6	3	8	23	23	26	16
Earth sciences	106	105	97	124	110	125	140	145	184
Ocean sciences	0	1	3	4	3	1	3	3	3
Mathematics and statistics	270	265	273	269	397	456	491	607	671
Physical sciences	304	332	350	399	452	510	588	639	668
Astronomy	5	9	9	5	6	10	17	11	17
Chemistry	174	177	205	253	282	313	340	348	385
Physics	105	122	112	107	152	163	198	252	243
Other	20	24	24	34	12	24	33	28	23
Psychology	1,723	1,707	1,847	1,919	2,588	2,872	3,410	3,623	3,852
Social sciences	2,855	3,136	3,140	3,376	4,583	5,119	5,667	6,930	7,959
Anthropology	214	290	247	294	404	424	495	558	620
Area and ethnic studies	162	143	174	156	282	297	329	372	436
Economics	456	547	464	533	742	865	960	1,204	1,288
History of science	0	0	0	0	11	15	10	6	11
Linguistics	31	42	33	28	56	41	56	79	109
Political science and public administration	952	976	959	1,029	1,424	1,600	1,811	2,334	2,741
Sociology	532	547	611	691	867	984	1,068	1,182	1,307
Other	508	591	652	645	797	893	938	1,195	1,447
Engineering	1,293	1,434	1,339	1,297	1,616	1,891	2,102	2,510	2,631
Aerospace engineering	35	43	28	14	35	50	61	80	115
Chemical engineering	117	128	120	103	119	156	155	206	162
Civil engineering	227	306	231	239	239	265	269	329	360
Electrical engineering	422	423	368	384	565	676	775	943	1,020
Industrial engineering	46	45	94	73	69	84	101	109	100
Materials engineering	22	25	23	18	36	27	36	52	47
Mechanical engineering	293	324	325	321	358	431	485	514	558
Other	131	140	150	145	195	202	220	277	269
Non-S&E	18,137	18,111	18,646	20,488	29,015	33,138	39,549	45,357	51,918

TABLE C-6. Bachelor's degrees, by field, citizenship, and race/ethnicity: 1995–2004

Field, citizenship, and race/ethnicity	1995	1996	1997	1998	2000	2001	2002	2003	2004
Temporary resident									
All fields	37,012	37,787	38,774	38,887	38,795	39,479	41,124	42,823	44,175
S&E	14,685	14,747	14,737	14,709	15,184	15,714	16,323	17,673	18,581
Sciences	9,875	9,984	9,940	10,066	10,651	11,295	12,056	13,398	14,034
Agricultural sciences	258	270	253	293	258	248	262	245	235
Biological sciences	1,283	1,367	1,462	1,423	1,376	1,437	1,457	1,512	1,639
Computer sciences	2,297	2,186	2,015	2,137	2,886	3,392	3,888	4,686	4,861
Earth, atmospheric, and ocean sciences	73	54	78	82	46	49	59	57	50
Atmospheric sciences	4	1	11	4	8	2	6	8	3
Earth sciences	59	48	60	75	33	46	49	48	45
Ocean sciences	10	5	7	3	5	1	4	1	2
Mathematics and statistics	593	551	533	453	479	426	454	622	682
Physical sciences	650	632	593	593	532	558	545	523	591
Astronomy	10	8	8	11	4	13	16	15	10
Chemistry	396	415	396	385	344	335	343	326	350
Physics	223	193	176	178	160	182	167	168	189
Other	21	16	13	19	24	28	19	14	42
Psychology	942	1,016	1,049	1,170	1,264	1,283	1,367	1,394	1,471
Social sciences	3,779	3,908	3,957	3,915	3,810	3,902	4,024	4,359	4,505
Anthropology	115	117	173	102	116	120	114	94	106
Area and ethnic studies	225	203	198	177	178	167	160	160	164
Economics	1,690	1,787	1,824	1,783	1,691	1,824	1,904	2,048	2,170
History of science	1	0	0	1	1	3	2	3	0
Linguistics	80	77	86	100	83	77	81	80	74
Political science and public administration	1,088	1,130	1,052	1,179	1,154	1,147	1,162	1,278	1,296
Sociology	332	324	299	309	299	258	295	349	326
Other	248	270	325	264	288	306	306	347	369
Engineering	4,810	4,763	4,797	4,643	4,533	4,419	4,267	4,275	4,547
Aerospace engineering	116	123	129	137	121	148	122	160	174
Chemical engineering	524	569	571	507	445	424	447	359	368
Civil engineering	437	438	474	510	459	412	371	349	315
Electrical engineering	2,117	1,987	1,870	1,837	1,836	1,842	1,869	2,052	2,273
Industrial engineering	424	448	480	486	481	475	442	402	381
Materials engineering	30	29	28	33	37	42	29	31	29
Mechanical engineering	781	782	908	797	789	744	683	596	614
Other	381	387	337	336	365	332	304	326	393
Non-S&E	22,327	23,040	24,037	24,178	23,611	23,765	24,801	25,150	25,594

NOTES: Race/ethnicity breakouts are for U.S. citizens and permanent residents only. Temporary resident includes all racial/ethnic groups. Data not available for 1999.

SOURCE: National Science Foundation, Division of Science Resources Statistics, special tabulations of U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Completions Survey, 1995–2004.

TABLE C-7. Racial/ethnic distribution of S&E bachelor's degrees awarded to U.S. citizens and permanent residents, by field: 1995–2004
(Percent)

Field and race/ethnicity	1995	1996	1997	1998	2000	2001	2002	2003	2004
White									
All fields	78.5	77.4	76.5	75.6	73.7	72.9	72.2	71.4	70.7
S&E	75.9	74.8	73.5	72.5	70.5	69.7	69.2	68.5	67.8
Sciences	76.1	75.0	73.7	72.6	70.4	69.5	69.0	68.2	67.5
Agricultural sciences	89.9	89.3	89.1	88.4	87.0	86.8	86.1	86.0	85.4
Biological sciences	73.2	72.0	71.3	69.9	69.1	68.1	68.5	67.7	67.3
Computer sciences	69.4	69.7	67.8	66.8	62.9	61.5	60.8	59.0	57.8
Earth, atmospheric, and ocean sciences	91.1	91.1	90.8	89.7	89.0	87.7	87.9	88.4	86.6
Atmospheric sciences	91.1	93.1	92.9	94.8	90.7	87.0	90.0	89.0	89.3
Earth sciences	91.2	90.9	91.0	89.3	89.0	87.8	88.1	88.5	86.1
Ocean sciences	88.7	88.9	84.3	85.7	85.5	86.4	80.1	83.6	87.4
Mathematics and statistics	79.1	78.2	77.4	76.5	74.6	74.1	74.1	73.2	73.7
Physical sciences	76.8	75.0	74.5	73.3	71.9	72.1	72.0	73.0	72.0
Astronomy	83.0	76.4	84.8	80.9	84.0	81.5	78.5	82.8	78.0
Chemistry	73.9	72.7	71.6	70.3	68.7	68.6	68.8	69.7	68.7
Physics	83.1	81.0	81.5	80.9	79.4	80.2	78.7	79.1	78.9
Other	80.9	78.7	83.6	81.0	81.1	80.7	78.3	80.8	74.6
Psychology	78.0	76.8	75.1	74.0	71.4	70.7	70.2	70.3	69.7
Social sciences	74.8	73.4	71.9	70.8	68.9	68.1	67.7	67.2	66.4
Anthropology	82.5	80.4	79.3	79.3	77.5	77.0	75.9	75.1	73.1
Area and ethnic studies	63.7	60.0	59.8	56.7	54.1	54.5	54.1	52.8	52.3
Economics	74.0	72.3	72.0	70.5	68.3	66.9	67.1	65.5	64.4
History of science	92.9	85.7	77.4	86.8	63.7	58.2	59.4	68.0	71.4
Linguistics	70.0	68.8	73.1	68.4	69.9	73.4	75.0	71.8	67.0
Political science and public administration	75.6	74.6	72.8	72.2	70.8	70.3	69.9	69.7	69.1
Sociology	71.4	70.4	68.1	66.9	65.2	64.2	63.3	63.0	62.5
Other	79.3	77.2	75.4	74.7	72.1	71.2	70.4	69.8	69.1
Engineering	74.7	73.9	72.4	72.1	71.0	70.7	70.5	70.3	69.6
Aerospace engineering	78.6	77.2	74.8	79.0	78.4	78.4	78.7	77.9	76.0
Chemical engineering	75.3	74.6	72.3	70.9	70.3	71.7	72.3	72.2	72.3
Civil engineering	79.4	78.5	77.5	77.0	76.6	77.5	77.7	78.0	77.2
Electrical engineering	65.2	64.2	63.8	63.3	61.3	59.8	58.3	58.7	57.3
Industrial engineering	71.7	71.7	64.6	66.6	69.0	69.7	68.7	67.6	68.7
Materials engineering	83.8	80.7	78.6	78.0	79.3	79.7	78.8	76.3	73.4
Mechanical engineering	78.9	77.9	76.9	76.8	76.8	76.8	77.8	78.2	78.2
Other	79.2	78.3	76.6	76.3	74.9	74.7	74.8	73.4	72.6
Non-S&E	79.7	78.7	77.9	77.1	75.2	74.4	73.6	72.8	72.0
Asian/Pacific Islander									
All fields	5.2	5.5	5.9	6.0	6.2	6.2	6.3	6.3	6.3
S&E	7.9	8.2	8.7	9.0	9.3	9.5	9.4	9.4	9.5
Sciences	7.2	7.6	8.1	8.4	8.7	8.9	8.8	8.9	8.9
Agricultural sciences	2.0	1.9	2.3	2.5	2.5	2.3	2.4	2.6	2.6
Biological sciences	12.7	13.1	13.4	13.5	12.6	12.4	12.0	11.9	12.4
Computer sciences	10.6	11.0	12.0	12.6	15.7	15.9	15.9	15.6	14.2
Earth, atmospheric, and ocean sciences	2.3	2.1	2.2	2.2	2.4	2.2	2.2	1.9	2.2
Atmospheric sciences	2.7	2.1	1.7	1.1	2.9	3.1	1.5	1.6	1.9

TABLE C-7. Racial/ethnic distribution of S&E bachelor's degrees awarded to U.S. citizens and permanent residents, by field: 1995–2004
(Percent)

Field and race/ethnicity	1995	1996	1997	1998	2000	2001	2002	2003	2004
Earth sciences	2.0	2.1	2.0	2.1	2.3	1.9	2.0	1.8	2.1
Ocean sciences	6.4	2.8	5.6	5.2	3.6	4.5	5.4	4.5	5.7
Mathematics and statistics	7.3	7.3	7.0	7.2	7.9	8.3	8.5	9.4	9.5
Physical sciences	8.7	9.9	10.4	10.8	10.4	9.9	9.0	8.4	9.0
Astronomy	8.2	10.7	5.3	7.6	5.8	5.3	9.2	6.3	6.4
Chemistry	10.2	11.4	12.2	12.7	12.0	11.9	10.7	9.9	10.7
Physics	5.9	6.7	6.3	6.3	6.8	5.6	5.3	5.4	5.6
Other	3.7	5.3	4.3	3.6	4.2	3.6	5.0	5.1	6.3
Psychology	4.6	5.0	5.5	5.8	5.7	5.7	5.6	5.2	5.4
Social sciences	5.9	6.3	6.7	7.2	7.5	7.8	7.8	8.0	8.3
Anthropology	4.6	5.0	5.5	5.9	4.9	4.9	5.3	5.3	5.3
Area and ethnic studies	10.3	12.4	11.3	12.8	13.6	13.2	12.1	12.0	12.5
Economics	11.5	12.4	13.6	14.8	15.7	16.6	16.2	17.0	17.6
History of science	7.1	9.5	12.9	7.9	13.2	15.3	19.8	16.0	10.0
Linguistics	10.5	10.7	12.6	14.7	11.2	10.1	9.4	10.0	10.8
Political science and public administration	5.1	5.2	5.7	6.0	5.9	6.3	6.2	6.3	6.4
Sociology	4.4	4.6	5.0	4.9	5.2	5.2	5.3	5.3	6.0
Other	3.5	3.8	4.0	4.2	4.6	5.0	4.8	5.1	5.3
Engineering	11.6	11.7	12.3	12.4	12.5	12.8	12.6	12.5	12.7
Aerospace engineering	9.6	10.5	10.2	8.6	8.6	7.6	7.9	7.8	8.7
Chemical engineering	11.1	12.0	13.6	14.4	13.6	12.4	11.6	10.9	10.9
Civil engineering	8.6	8.5	8.8	8.3	7.1	6.1	5.7	5.5	5.4
Electrical engineering	17.9	18.3	18.3	19.0	19.8	21.3	22.1	21.2	21.4
Industrial engineering	9.3	9.8	12.4	10.5	9.6	9.5	10.1	10.9	11.0
Materials engineering	9.2	9.0	8.1	12.2	9.7	9.9	9.4	9.9	11.4
Mechanical engineering	8.7	8.6	8.8	9.0	8.1	8.0	7.0	7.0	6.7
Other	10.2	10.1	11.8	11.3	11.8	12.6	11.8	12.0	13.4
Non-S&E	4.0	4.2	4.5	4.6	4.8	4.7	4.8	4.9	4.8
Black									
All fields	7.5	7.8	8.0	8.3	8.6	8.8	8.8	8.9	9.0
S&E	7.4	7.7	8.0	8.2	8.6	8.7	8.7	8.7	8.8
Sciences	7.9	8.2	8.5	8.7	9.1	9.2	9.3	9.3	9.3
Agricultural sciences	1.8	2.1	2.1	2.3	2.5	2.5	2.7	2.1	2.3
Biological sciences	5.8	6.3	6.5	6.9	7.5	7.7	7.7	7.9	8.0
Computer sciences	11.2	10.9	10.4	10.4	10.1	10.8	10.9	11.4	11.3
Earth, atmospheric, and ocean sciences	1.5	1.4	1.3	1.7	1.3	1.4	1.6	1.5	1.7
Atmospheric sciences	2.5	1.6	1.9	1.6	2.1	0.4	1.9	2.2	3.5
Earth sciences	1.3	1.3	1.1	1.7	1.2	1.6	1.3	1.3	1.4
Ocean sciences	2.0	2.8	4.0	1.4	0.5	1.1	4.5	3.7	1.3
Mathematics and statistics	7.2	7.5	8.3	8.3	8.0	7.3	7.1	6.4	6.0
Physical sciences	6.8	7.0	7.2	7.2	7.8	7.3	7.6	6.8	7.0
Astronomy	1.9	2.1	0.0	1.3	0.6	0.9	1.2	0.4	1.1
Chemistry	7.7	7.7	8.2	7.9	8.8	8.7	8.7	8.3	8.4
Physics	4.8	5.0	4.6	5.5	4.7	4.1	5.2	3.9	4.2
Other	6.7	8.8	5.6	6.9	7.6	5.5	5.9	6.2	7.4
Psychology	8.0	8.3	9.0	9.3	10.3	10.4	10.2	10.3	10.5

TABLE C-7. Racial/ethnic distribution of S&E bachelor's degrees awarded to U.S. citizens and permanent residents, by field: 1995–2004
(Percent)

Field and race/ethnicity	1995	1996	1997	1998	2000	2001	2002	2003	2004
Social sciences	9.5	10.0	10.3	10.4	10.5	10.5	10.5	10.1	10.1
Anthropology	2.5	2.9	3.3	3.4	3.9	3.6	3.6	3.5	4.5
Area and ethnic studies	12.3	12.7	12.9	13.1	13.6	12.8	13.8	13.4	13.2
Economics	6.6	6.3	5.8	5.9	5.9	5.9	6.1	6.1	6.2
History of science	0.0	0.0	6.5	0.0	6.6	6.1	4.0	6.0	5.7
Linguistics	3.5	3.5	1.6	3.6	2.2	3.5	3.2	2.0	3.3
Political science and public administration	9.4	9.8	10.2	10.3	10.2	10.0	10.0	9.4	9.4
Sociology	14.2	14.9	15.7	16.0	16.1	16.7	16.7	16.3	15.8
Other	7.9	8.8	9.1	9.3	9.8	9.6	10.0	9.6	9.7
Engineering	4.9	5.1	5.3	5.4	5.6	5.3	5.3	5.2	5.3
Aerospace engineering	3.9	3.4	4.3	3.2	3.5	2.9	2.6	3.5	3.3
Chemical engineering	5.2	5.5	5.8	6.2	6.6	6.6	6.3	6.1	6.3
Civil engineering	3.0	3.5	3.5	3.6	4.4	3.9	3.7	3.2	3.5
Electrical engineering	6.8	7.1	7.3	7.2	6.6	6.5	6.4	6.9	7.3
Industrial engineering	7.6	7.3	7.0	7.5	7.4	7.1	7.2	7.7	7.3
Materials engineering	2.2	3.0	1.9	3.3	2.6	3.0	3.5	2.4	2.6
Mechanical engineering	4.2	4.6	5.0	4.4	4.8	4.1	4.4	3.5	3.7
Other	3.9	4.2	4.3	4.8	4.9	4.6	5.0	5.1	5.0
Non-S&E	7.5	7.9	8.0	8.3	8.6	8.8	8.8	9.0	9.1
Hispanic									
All fields	5.9	6.2	6.5	6.7	7.3	7.4	7.5	7.6	7.7
S&E	5.9	6.2	6.5	6.8	7.3	7.4	7.5	7.6	7.6
Sciences	5.8	6.1	6.4	6.8	7.3	7.4	7.5	7.7	7.7
Agricultural sciences	2.7	3.1	3.3	3.6	3.5	3.5	3.9	3.9	4.1
Biological sciences	5.6	5.8	6.0	6.5	7.0	7.5	7.2	7.7	7.2
Computer sciences	5.8	5.7	5.7	5.8	6.2	5.9	6.0	6.7	6.7
Earth, atmospheric, and ocean sciences	1.9	2.4	2.6	2.8	3.2	4.0	3.5	3.1	3.4
Atmospheric sciences	1.1	1.6	1.9	1.8	1.9	3.3	1.9	1.8	2.3
Earth sciences	2.0	2.4	2.7	2.7	3.2	4.0	3.4	3.2	3.6
Ocean sciences	2.5	3.9	2.5	5.7	6.7	6.8	7.7	4.5	3.8
Mathematics and statistics	3.9	4.4	4.6	5.2	5.3	5.7	5.7	5.5	5.2
Physical sciences	5.0	5.2	5.0	5.4	6.3	6.4	6.4	6.3	6.5
Astronomy	3.8	4.3	3.0	7.0	4.5	7.0	3.8	4.7	8.2
Chemistry	5.7	6.0	5.6	6.1	7.2	7.1	7.3	7.4	7.3
Physics	2.9	3.2	3.7	3.6	3.9	4.6	4.5	4.4	4.7
Other	6.1	3.9	3.0	3.7	5.0	5.5	5.0	2.7	5.4
Psychology	6.3	6.9	7.2	7.5	8.3	8.5	8.8	8.8	8.9
Social sciences	6.5	6.8	7.4	7.6	8.1	8.1	8.4	8.4	8.4
Anthropology	5.4	5.8	6.8	5.8	6.7	6.9	7.0	7.2	7.6
Area and ethnic studies	9.6	10.7	11.3	12.9	12.1	12.0	12.1	12.8	12.4
Economics	4.9	5.2	5.2	5.2	5.5	5.6	5.4	5.4	5.7
History of science	0.0	4.8	3.2	5.3	3.3	5.1	6.9	4.0	5.0
Linguistics	8.3	8.7	4.9	6.7	6.5	6.6	5.0	5.7	7.3
Political science and public administration	7.0	7.3	7.9	8.0	8.4	8.2	8.4	8.4	8.2
Sociology	6.9	7.1	7.8	8.5	9.1	9.1	9.8	9.9	10.0
Other	5.6	6.1	7.0	7.3	8.3	8.4	9.2	9.1	8.8

TABLE C-7. Racial/ethnic distribution of S&E bachelor's degrees awarded to U.S. citizens and permanent residents, by field: 1995–2004
(Percent)

Field and race/ethnicity	1995	1996	1997	1998	2000	2001	2002	2003	2004
Engineering	6.2	6.4	7.2	7.3	7.4	7.3	7.3	7.3	7.4
Aerospace engineering	5.6	5.9	8.0	7.0	5.8	6.8	6.0	5.9	5.6
Chemical engineering	5.9	5.4	5.9	6.3	6.6	6.0	6.4	6.2	6.5
Civil engineering	6.4	6.4	7.6	8.4	8.3	8.7	8.9	8.8	9.2
Electrical engineering	7.1	7.2	7.7	7.4	8.1	7.9	8.2	7.6	8.1
Industrial engineering	9.8	9.6	12.8	12.8	11.3	10.6	10.5	10.3	9.7
Materials engineering	2.6	4.3	8.6	4.3	4.1	3.8	3.7	5.4	6.2
Mechanical engineering	5.8	6.2	6.5	6.9	6.9	7.1	6.5	7.1	6.8
Other	4.2	4.9	4.4	4.8	4.8	4.4	4.5	4.9	4.7
Non-S&E	5.9	6.2	6.5	6.7	7.3	7.4	7.5	7.6	7.8
American Indian/Alaskan Native									
All fields	0.6	0.6	0.6	0.7	0.7	0.7	0.7	0.7	0.7
S&E	0.5	0.6	0.6	0.6	0.7	0.7	0.7	0.7	0.7
Sciences	0.6	0.6	0.6	0.7	0.7	0.8	0.7	0.7	0.8
Agricultural sciences	0.9	0.9	0.9	0.9	1.1	1.2	0.9	1.0	1.2
Biological sciences	0.5	0.5	0.5	0.6	0.6	0.7	0.7	0.6	0.6
Computer sciences	0.5	0.4	0.4	0.4	0.5	0.7	0.5	0.5	0.8
Earth, atmospheric, and ocean sciences	0.6	0.5	0.7	0.6	1.1	0.9	0.7	0.6	0.8
Atmospheric sciences	0.0	0.2	0.2	0.0	0.8	1.1	0.2	0.7	0.2
Earth sciences	0.7	0.5	0.7	0.7	1.1	0.9	0.7	0.6	1.0
Ocean sciences	0.5	1.1	2.0	0.0	2.1	0.6	0.9	1.5	0.0
Mathematics and statistics	0.4	0.4	0.5	0.6	0.6	0.5	0.5	0.5	0.5
Physical sciences	0.5	0.5	0.5	0.6	0.5	0.5	0.6	0.7	0.6
Astronomy	0.0	0.0	0.0	0.0	1.3	0.9	0.8	1.6	0.4
Chemistry	0.6	0.6	0.5	0.6	0.5	0.5	0.6	0.8	0.6
Physics	0.4	0.6	0.3	0.4	0.4	0.6	0.6	0.5	0.5
Other	0.2	0.4	0.5	0.4	0.3	0.8	0.5	0.3	1.1
Psychology	0.6	0.6	0.7	0.7	0.7	0.8	0.7	0.7	0.7
Social sciences	0.6	0.7	0.7	0.7	0.8	0.8	0.7	0.8	0.8
Anthropology	1.2	1.2	1.3	1.2	1.3	1.4	1.2	1.5	1.4
Area and ethnic studies	0.8	1.2	1.2	1.4	1.5	2.0	2.1	2.3	2.4
Economics	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.4	0.5
History of science	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0
Linguistics	1.2	0.6	1.0	1.7	1.6	0.3	0.3	1.1	0.4
Political science and public administration	0.5	0.6	0.7	0.6	0.7	0.7	0.6	0.7	0.8
Sociology	0.8	0.8	0.8	0.8	0.9	0.9	0.7	0.9	0.9
Other	0.7	0.7	0.7	0.8	0.8	0.9	0.7	0.8	0.8
Engineering	0.4	0.4	0.5	0.5	0.6	0.5	0.5	0.5	0.6
Aerospace engineering	0.2	0.3	0.3	0.9	0.6	0.6	1.0	0.5	1.1
Chemical engineering	0.5	0.5	0.5	0.5	0.7	0.5	0.6	0.7	0.6
Civil engineering	0.5	0.5	0.6	0.6	0.9	0.8	0.8	0.7	0.7
Electrical engineering	0.3	0.4	0.3	0.4	0.5	0.3	0.4	0.5	0.5
Industrial engineering	0.1	0.2	0.5	0.4	0.7	0.5	0.6	0.3	0.4
Materials engineering	0.2	0.4	0.6	0.3	0.5	0.5	0.7	0.3	0.7
Mechanical engineering	0.4	0.4	0.3	0.4	0.4	0.4	0.5	0.4	0.5
Other	0.4	0.4	0.6	0.5	0.5	0.4	0.5	0.5	0.5
Non-S&E	0.6	0.6	0.6	0.7	0.7	0.7	0.7	0.7	0.7

TABLE C-7. Racial/ethnic distribution of S&E bachelor's degrees awarded to U.S. citizens and permanent residents, by field: 1995–2004
(Percent)

Field and race/ethnicity	1995	1996	1997	1998	2000	2001	2002	2003	2004
Other or unknown race/ethnicity									
All fields	2.4	2.4	2.5	2.7	3.5	4.0	4.6	5.1	5.6
S&E	2.4	2.5	2.6	2.8	3.6	4.1	4.5	5.1	5.6
Sciences	2.5	2.5	2.7	2.9	3.8	4.2	4.7	5.2	5.8
Agricultural sciences	2.8	2.7	2.3	2.4	3.4	3.6	4.0	4.4	4.5
Biological sciences	2.2	2.2	2.3	2.5	3.2	3.6	4.0	4.2	4.5
Computer sciences	2.5	2.4	3.7	3.9	4.5	5.2	5.8	6.8	9.2
Earth, atmospheric, and ocean sciences	2.7	2.5	2.4	3.1	3.0	3.8	4.2	4.5	5.3
Atmospheric sciences	2.5	1.4	1.4	0.7	1.7	5.1	4.4	4.7	2.8
Earth sciences	2.8	2.8	2.6	3.5	3.3	3.8	4.4	4.5	5.9
Ocean sciences	0.0	0.6	1.5	1.9	1.6	0.6	1.4	2.2	1.9
Mathematics and statistics	2.0	2.1	2.2	2.3	3.5	4.1	4.2	5.0	5.1
Physical sciences	2.1	2.2	2.4	2.7	3.2	3.7	4.4	4.7	4.9
Astronomy	3.1	6.4	6.8	3.2	3.8	4.4	6.5	4.3	6.0
Chemistry	1.8	1.7	1.9	2.4	2.8	3.3	3.7	3.9	4.3
Physics	2.9	3.5	3.5	3.3	4.7	5.0	5.7	6.7	6.1
Other	2.3	2.9	3.0	4.5	1.9	3.9	5.3	4.8	5.2
Psychology	2.4	2.3	2.5	2.6	3.5	3.9	4.5	4.7	4.8
Social sciences	2.6	2.9	2.9	3.2	4.2	4.6	4.9	5.6	6.0
Anthropology	3.8	4.6	3.8	4.3	5.8	6.3	7.0	7.5	8.2
Area and ethnic studies	3.3	2.9	3.4	3.0	5.2	5.5	5.8	6.7	7.2
Economics	2.6	3.4	2.9	3.2	4.2	4.7	4.8	5.5	5.7
History of science	0.0	0.0	0.0	0.0	12.1	15.3	9.9	6.0	7.9
Linguistics	6.4	7.7	6.7	4.8	8.7	6.0	7.2	9.4	11.2
Political science and public administration	2.3	2.5	2.6	2.9	4.0	4.5	4.8	5.6	6.1
Sociology	2.3	2.3	2.5	2.8	3.4	3.9	4.3	4.6	4.9
Other	3.0	3.4	3.7	3.6	4.4	4.8	4.9	5.6	6.3
Engineering	2.2	2.5	2.3	2.3	2.9	3.4	3.7	4.2	4.4
Aerospace engineering	2.1	2.8	2.4	1.3	3.1	3.7	3.8	4.3	5.4
Chemical engineering	2.0	2.1	1.9	1.7	2.1	2.8	2.8	4.0	3.4
Civil engineering	2.1	2.6	2.0	2.2	2.6	3.1	3.2	3.6	4.0
Electrical engineering	2.7	2.9	2.5	2.7	3.6	4.1	4.5	5.0	5.3
Industrial engineering	1.5	1.4	2.7	2.1	2.0	2.5	2.9	3.1	2.9
Materials engineering	2.2	2.6	2.2	1.8	3.9	3.0	4.0	5.7	5.6
Mechanical engineering	2.0	2.4	2.5	2.6	2.9	3.5	3.8	3.8	4.1
Other	2.1	2.2	2.3	2.3	3.0	3.3	3.4	4.0	3.8
Non-S&E	2.3	2.3	2.4	2.6	3.5	4.0	4.6	5.1	5.6

NOTES: Race/ethnicity breakouts are for U.S. citizens and permanent residents only. Temporary resident includes all racial/ethnic groups. Data not available for 1999.

SOURCE: National Science Foundation, Division of Science Resources Statistics, special tabulations of U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Completions Survey, 1995–2004.

TABLE C-8. Bachelor's degrees awarded in engineering, by sex, race/ethnicity, and citizenship: 1990–2005

Year	Total	Sex		Race/ethnicity					Foreign National
		Female	Male	White	Asian American	African American	Hispanic American	Native American	
1990	65,967	10,130	55,837	50,099	5,989	2,173	2,473	112	5,121
1991	63,986	10,016	53,970	48,028	6,305	2,304	2,663	146	4,540
1992	63,653	9,972	53,681	47,540	6,479	2,374	2,708	163	4,389
1993	65,001	10,453	54,548	47,976	6,764	2,637	2,845	175	4,604
1994	64,946	10,800	54,146	47,136	6,881	2,769	3,045	207	4,908
1995	64,749	11,303	53,446	46,264	7,056	2,897	3,409	230	4,893
1996	65,267	11,737	53,530	45,952	7,333	3,120	3,557	263	5,042
1997	65,091	12,160	52,931	44,976	7,625	3,203	4,005	265	5,017
1998	63,271	11,797	51,474	43,623	7,131	3,144	3,939	351	5,083
1999	62,500	12,360	50,140	42,650	7,226	3,171	4,073	328	5,052
2000	63,635	13,140	50,495	43,437	7,529	3,150	4,124	347	5,048
2001	65,195	13,195	52,000	44,407	8,340	3,182	4,152	275	4,839
2002	68,648	14,102	54,546	47,149	8,669	3,358	4,298	315	4,859
2003	75,031	15,114	59,917	51,297	9,705	3,429	4,652	388	5,560
2004	76,003	15,282	60,721	51,420	9,941	3,699	4,813	362	5,768
2005	76,003	14,868	61,135	51,302	10,033	3,756	4,890	378	5,644

NOTE: These data differ from data collected by the National Center for Education Statistics (NCES) due to differences in population covered and taxonomy. The primary difference is that these data include some degrees that are counted as computer science by NCES.

SOURCE: Engineering Workforce Commission, *Engineering and Technology Degrees, 2005* (Washington, DC, 2005).

TABLE C-9. Bachelor's degrees awarded by historically black colleges and universities to U.S.-citizen and permanent-resident blacks, by field: 1995–2004

Institution type and field	1995	1996	1997	1998	2000	2001	2002	2003	2004
	Number of recipients								
All institutions									
All fields	85,287	89,554	92,067	95,878	104,212	106,648	111,032	117,257	122,618
S&E	26,911	28,397	29,825	30,751	32,924	33,290	34,796	36,400	38,050
Sciences	24,066	25,397	26,748	27,732	29,861	30,406	31,814	33,326	34,838
Agricultural sciences	253	341	367	409	450	428	454	339	360
Biological sciences	3,232	3,812	4,124	4,553	4,739	4,693	4,634	4,774	4,997
Computer sciences	2,517	2,427	2,432	2,666	3,497	4,291	4,954	5,867	5,934
Earth, atmospheric, and ocean sciences	64	60	57	70	51	56	62	60	65
Mathematical sciences	958	942	1,016	966	905	808	843	790	784
Physical sciences	970	1,040	1,053	1,057	1,090	996	1,018	928	958
Psychology	5,741	6,028	6,647	6,852	7,572	7,562	7,747	8,011	8,479
Social sciences	10,331	10,747	11,052	11,159	11,557	11,572	12,102	12,557	13,261
Engineering	2,845	3,000	3,077	3,019	3,063	2,884	2,982	3,074	3,212
Non-S&E	58,376	61,157	62,242	65,127	71,288	73,358	76,236	80,857	84,568
Historically black colleges and universities									
All fields	23,989	25,425	25,215	25,546	25,558	25,142	25,166	26,075	26,518
S&E	8,146	8,695	8,814	8,830	8,530	8,682	8,607	8,619	8,828
Sciences	7,348	7,801	7,909	7,987	7,836	8,013	7,940	7,969	8,178
Agricultural sciences	119	178	202	210	213	198	229	130	121
Biological sciences	1,357	1,628	1,841	1,920	1,884	1,943	1,823	1,738	1,802
Computer sciences	967	979	834	904	987	1,220	1,274	1,487	1,563
Earth, atmospheric, and ocean sciences	5	12	6	23	5	7	4	7	8
Mathematical sciences	468	443	478	444	427	345	339	302	290
Physical sciences	466	535	497	462	491	464	427	374	378
Psychology	1,432	1,512	1,653	1,636	1,682	1,677	1,685	1,753	1,816
Social sciences	2,534	2,514	2,398	2,388	2,147	2,159	2,159	2,178	2,200
Engineering	798	894	905	843	694	669	667	650	650
Non-S&E	15,843	16,730	16,401	16,716	17,028	16,460	16,559	17,456	17,690
Historically black colleges and universities	Percent from historically black colleges and universities								
All fields	28.1	28.4	27.4	26.6	24.5	23.6	22.7	22.2	21.6
S&E	30.3	30.6	29.6	28.7	25.9	26.1	24.7	23.7	23.2
Sciences	30.5	30.7	29.6	28.8	26.2	26.4	25.0	23.9	23.5
Agricultural sciences	47.0	52.2	55.0	51.3	47.3	46.3	50.4	38.3	33.6
Biological sciences	42.0	42.7	44.6	42.2	39.8	41.4	39.3	36.4	36.1
Computer sciences	38.4	40.3	34.3	33.9	28.2	28.4	25.7	25.3	26.3
Earth, atmospheric, and ocean sciences	7.8	20.0	10.5	32.9	9.8	12.5	6.5	11.7	12.3
Mathematical sciences	48.9	47.0	47.0	46.0	47.2	42.7	40.2	38.2	37.0
Physical sciences	48.0	51.4	47.2	43.7	45.0	46.6	41.9	40.3	39.5
Psychology	24.9	25.1	24.9	23.9	22.2	22.2	21.8	21.9	21.4
Social sciences	24.5	23.4	21.7	21.4	18.6	18.7	17.8	17.3	16.6
Engineering	28.0	29.8	29.4	27.9	22.7	23.2	22.4	21.1	20.2
Non-S&E	27.1	27.4	26.4	25.7	23.9	22.4	21.7	21.6	20.9

NOTES: Data not available for 1999.

SOURCE: National Science Foundation, Division of Science Resources Statistics, special tabulations of U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Completions Survey, 1995–2004.

TABLE C-10. Bachelor's degrees awarded to U.S.-citizen and permanent-resident Hispanics, by institution type and field: 1994–2001

Institution type and field	1994	1995	1996	1997	1998	2000	2001
Number of recipients							
All institutions							
All fields	62,683	66,691	71,015	74,938	78,125	88,324	89,972
S&E	20,529	21,359	22,886	24,445	25,712	27,984	28,321
Sciences	17,386	17,708	19,155	20,320	21,587	23,909	24,305
Agricultural sciences	336	383	504	559	631	634	607
Biological sciences	2,901	3,101	3,531	3,795	4,283	4,446	4,547
Computer sciences	1,135	1,314	1,284	1,327	1,473	2,155	2,354
Mathematical sciences	543	522	556	560	604	599	625
Physical sciences	733	800	872	853	914	1,010	1,027
Psychology	3,990	4,543	5,036	5,282	5,509	6,127	6,178
Social sciences	7,748	7,045	7,372	7,944	8,173	8,938	8,967
Engineering	3,143	3,651	3,731	4,125	4,125	4,075	4,016
Non-S&E	42,154	45,332	48,129	50,493	52,413	60,340	61,651
Hispanic-serving institutions							
All fields	25,568	26,924	28,439	29,407	29,555	33,847	34,062
S&E	6,758	7,309	7,793	8,399	8,624	9,383	9,494
Sciences	5,585	5,744	6,291	6,695	7,035	7,822	7,897
Agricultural sciences	97	119	155	188	190	202	214
Biological sciences	1,296	1,298	1,512	1,607	1,826	1,986	2,027
Computer sciences	473	512	518	495	544	696	726
Mathematical sciences	168	182	199	216	202	218	202
Physical sciences	324	398	423	401	428	518	472
Psychology	1,363	1,485	1,633	1,707	1,774	2,006	2,047
Social sciences	1,864	1,750	1,851	2,091	2,071	2,196	2,209
Engineering	1,173	1,565	1,502	1,704	1,589	1,561	1,597
Non-S&E	18,810	19,615	20,646	21,008	20,931	24,464	24,568
Percent							
Hispanic-serving institutions							
All fields	40.8	40.4	40.0	39.2	37.8	38.3	37.9
S&E	32.9	34.2	34.1	34.4	33.5	33.5	33.5
Sciences	32.1	32.4	32.8	32.9	32.6	32.7	32.5
Agricultural sciences	28.9	31.1	30.8	33.6	30.1	31.9	35.3
Biological sciences	44.7	41.9	42.8	42.3	42.6	44.7	44.6
Computer sciences	41.7	39.0	40.3	36.5	36.9	32.3	30.8
Mathematical sciences	30.9	34.9	35.8	38.6	33.4	36.4	32.3
Physical sciences	44.2	49.8	48.5	47.0	46.8	51.3	46.0
Psychology	34.2	32.7	32.4	32.3	32.2	32.7	33.1
Social sciences	24.1	24.8	25.1	26.3	25.3	24.6	24.6
Engineering	37.3	42.9	40.3	41.3	38.5	38.3	39.8
Non-S&E	44.6	43.3	42.9	41.6	39.9	40.5	39.9

NOTES: Physical sciences include earth, atmospheric, and ocean sciences; physics; astronomy; and chemistry. Data on race/ethnicity were collected on broad fields of study only until 1994; therefore, 1994 data could not be adjusted to the exact field taxonomies used by the National Science Foundation (NSF). The primary difference between 1994 and later years is that history was included in social sciences in 1994 but is included in non-S&E from 1995 on. Data are not available for 1999.

SOURCE: National Science Foundation, Division of Science Resources Statistics, special tabulations of U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Completions Survey, 1994–2001.

TABLE C-11. Bachelor's degrees awarded by tribal colleges and universities to U.S.-citizen and permanent-resident American Indians/Alaskan Natives, by field: 1995–2004

Institution type and field	1995	1996	1997	1998	2000	2001	2002	2003	2004
	Number of recipients								
All institutions									
All fields	6,454	6,813	7,238	7,706	8,431	8,664	8,668	9,242	9,914
S&E	1,995	2,149	2,298	2,392	2,611	2,796	2,642	2,864	3,201
Sciences	1,774	1,906	2,035	2,138	2,283	2,540	2,334	2,544	2,868
Agricultural sciences	124	139	146	151	190	215	158	157	180
Biological sciences	285	317	341	399	379	431	410	364	402
Computer sciences	110	89	99	112	172	271	229	263	416
Earth, atmospheric, and ocean sciences	26	23	31	25	43	35	26	24	31
Mathematical sciences	58	53	57	65	69	51	57	65	59
Physical sciences	72	81	69	81	65	73	83	94	76
Psychology	407	470	496	515	518	561	542	544	596
Social sciences	692	734	796	790	847	903	829	1,033	1,108
Engineering	221	243	263	254	328	256	308	320	333
Non-S&E	4,459	4,664	4,940	5,314	5,820	5,868	6,026	6,378	6,713
Tribal colleges and universities									
All fields	44	60	67	48	99	114	125	135	150
S&E	7	14	24	15	28	44	29	43	66
Sciences	7	14	24	15	28	44	29	43	66
Agricultural sciences	0	2	7	3	5	8	10	14	22
Biological sciences	0	0	0	0	0	0	0	0	0
Computer sciences	0	0	0	0	0	2	0	0	1
Earth, atmospheric, and ocean sciences	0	0	0	0	0	0	0	0	0
Mathematical sciences	0	0	0	0	0	0	0	0	0
Physical sciences	0	0	0	0	0	0	0	0	0
Psychology	0	1	0	0	0	0	0	0	0
Social sciences	7	12	17	12	23	34	19	29	43
Engineering	0	0	0	0	0	0	0	0	0
Non-S&E	37	45	43	33	71	70	96	92	84
Tribal colleges and universities									
All fields	0.7	0.9	0.9	0.6	1.2	1.3	1.4	1.5	1.5
S&E	0.4	0.7	1.0	0.6	1.1	1.6	1.1	1.5	2.1
Sciences	0.4	0.7	1.2	0.7	1.2	1.7	1.2	1.7	2.3
Agricultural sciences	0.0	1.4	4.8	2.0	2.6	3.7	6.3	8.9	12.2
Biological sciences	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Computer sciences	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.2
Earth, atmospheric, and ocean sciences	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Mathematical sciences	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Physical sciences	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Psychology	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Social sciences	1.0	1.6	2.1	1.5	2.7	3.8	2.3	2.8	3.9
Engineering	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Non-S&E	0.8	1.0	0.9	0.6	1.2	1.2	1.6	1.4	1.3

NOTES: Data not available for 1999.

SOURCE: National Science Foundation, Division of Science Resources Statistics, special tabulations of U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Completions Survey, 1995–2004.

TABLE C-12. Bachelor's degrees awarded to women, by field, citizenship, and race/ethnicity: 1995–2004

Field, citizenship, and race/ethnicity	1995	1996	1997	1998	2000	2001	2002	2003	2004
All fields	643,290	651,815	661,307	673,865	716,963	721,625	751,773	783,866	810,817
S&E	175,931	181,333	187,011	190,397	200,953	202,583	211,203	220,348	227,813
Sciences	164,981	170,017	175,541	179,058	188,737	190,669	198,516	207,378	214,556
Agricultural sciences	5,637	6,504	7,267	7,743	8,464	8,491	8,634	8,301	8,147
Biological sciences	29,918	32,865	35,266	37,101	37,958	37,084	37,695	38,521	39,913
Computer sciences	7,063	6,772	6,903	7,439	10,474	11,900	13,504	15,190	14,406
Earth, atmospheric, and ocean sciences	1,524	1,485	1,542	1,599	1,617	1,622	1,702	1,651	1,647
Atmospheric sciences	82	86	83	104	114	132	151	176	203
Earth sciences	1,364	1,334	1,385	1,403	1,409	1,400	1,446	1,406	1,358
Ocean sciences	78	65	74	92	94	90	105	69	86
Mathematics and statistics	6,491	5,992	5,889	5,659	5,604	5,497	5,762	5,879	6,318
Physical sciences	5,292	5,702	5,882	5,994	5,990	5,911	5,982	5,884	6,002
Astronomy	52	55	46	58	54	95	116	110	123
Chemistry	4,233	4,622	4,883	4,973	4,907	4,775	4,729	4,682	4,755
Physics	675	684	652	666	724	756	826	840	908
Other	332	341	301	297	305	285	311	252	216
Psychology	52,963	53,863	55,243	55,400	57,114	57,467	59,926	61,499	64,208
Social sciences	56,093	56,834	57,549	58,123	61,516	62,697	65,311	70,453	73,915
Anthropology	3,689	4,058	4,313	4,480	4,742	4,706	4,926	5,229	5,280
Area and ethnic studies	3,094	3,217	3,256	3,441	3,572	3,657	3,808	3,690	4,080
Economics	5,848	5,372	5,448	5,791	6,384	6,924	7,389	8,096	8,281
History of science	15	9	17	18	52	56	63	54	73
Linguistics	411	438	393	483	498	512	612	626	717
Political science and public administration	18,968	18,350	17,854	17,320	18,347	18,637	19,743	22,095	23,256
Sociology	15,539	16,375	16,904	17,122	18,028	17,923	18,011	18,638	19,310
Other	8,529	9,015	9,364	9,468	9,893	10,282	10,759	12,025	12,918
Engineering	10,950	11,316	11,470	11,339	12,216	11,914	12,687	12,970	13,257
Aerospace engineering	230	247	202	197	238	304	312	384	413
Chemical engineering	2,024	2,171	2,276	2,196	2,203	2,055	2,123	2,013	1,833
Civil engineering	2,298	2,424	2,569	2,576	2,333	2,041	2,224	2,249	2,279
Electrical engineering	2,170	1,972	2,018	2,012	2,350	2,542	2,720	2,909	3,032
Industrial engineering	1,026	1,097	1,079	1,020	1,307	1,224	1,341	1,312	1,265
Materials engineering	247	223	259	235	268	263	285	276	270
Mechanical engineering	1,700	1,736	1,635	1,636	1,784	1,739	1,783	1,861	1,952
Other	1,255	1,446	1,432	1,467	1,733	1,746	1,899	1,966	2,213
Non-S&E	467,359	470,482	474,296	483,468	516,010	519,042	540,570	563,518	583,004
U.S. citizen/permanent resident									
All fields	627,394	635,459	644,156	656,430	698,782	702,996	731,965	763,300	789,508
S&E	171,106	176,284	181,754	185,125	194,917	196,328	204,525	213,152	220,260
Sciences	160,722	165,588	170,960	174,414	183,507	185,191	192,590	200,959	207,912
Agricultural sciences	5,549	6,393	7,176	7,619	8,339	8,362	8,485	8,159	8,004
Biological sciences	29,257	32,111	34,473	36,358	37,129	36,227	36,776	37,602	38,912
Computer sciences	6,435	6,164	6,330	6,815	9,569	10,844	12,272	13,720	12,990
Earth, atmospheric, and ocean sciences	1,500	1,467	1,513	1,565	1,600	1,609	1,676	1,624	1,622
Atmospheric sciences	80	86	82	102	113	131	149	174	202
Earth sciences	1,344	1,317	1,360	1,372	1,393	1,388	1,425	1,382	1,335
Ocean sciences	76	64	71	91	94	90	102	68	85
Mathematics and statistics	6,256	5,820	5,676	5,492	5,429	5,337	5,586	5,652	6,021
Physical sciences	5,066	5,471	5,671	5,782	5,782	5,676	5,752	5,663	5,754
Astronomy	49	54	45	55	51	89	109	102	117

TABLE C-12. Bachelor's degrees awarded to women, by field, citizenship, and race/ethnicity: 1995–2004

Field, citizenship, and race/ethnicity	1995	1996	1997	1998	2000	2001	2002	2003	2004
Chemistry	4,060	4,423	4,709	4,799	4,748	4,595	4,558	4,516	4,571
Physics	632	659	619	637	684	710	780	796	857
Other	325	335	298	291	299	282	305	249	209
Psychology	52,253	53,122	54,449	54,526	56,124	56,454	58,867	60,385	63,041
Social sciences	54,406	55,040	55,672	56,257	59,535	60,682	63,176	68,154	71,568
Anthropology	3,606	3,971	4,202	4,411	4,664	4,624	4,849	5,160	5,205
Area and ethnic studies	3,009	3,120	3,131	3,318	3,450	3,535	3,699	3,582	3,966
Economics	5,276	4,752	4,798	5,133	5,727	6,195	6,586	7,225	7,387
History of science	14	9	17	17	52	54	62	52	73
Linguistics	344	371	323	405	431	452	543	564	657
Political science and public administration	18,430	17,780	17,308	16,727	17,672	17,991	19,079	21,374	22,493
Sociology	15,312	16,158	16,702	16,915	17,817	17,728	17,804	18,384	19,084
Other	8,415	8,879	9,191	9,331	9,722	10,103	10,572	11,813	12,703
Engineering	10,384	10,696	10,794	10,711	11,410	11,137	11,935	12,193	12,348
Aerospace engineering	222	232	190	184	224	280	291	362	387
Chemical engineering	1,898	2,027	2,119	2,075	2,061	1,941	1,994	1,890	1,713
Civil engineering	2,226	2,354	2,477	2,497	2,236	1,951	2,143	2,179	2,190
Electrical engineering	1,987	1,766	1,803	1,819	2,067	2,271	2,433	2,604	2,679
Industrial engineering	950	1,016	1,000	926	1,192	1,109	1,235	1,213	1,165
Materials engineering	242	217	253	227	260	247	279	270	254
Mechanical engineering	1,660	1,701	1,574	1,582	1,707	1,675	1,731	1,793	1,883
Other	1,199	1,383	1,378	1,401	1,663	1,663	1,829	1,882	2,077
Non-S&E	456,288	459,175	462,402	471,305	503,865	506,668	527,440	550,148	569,248
White									
All fields	485,630	484,996	485,218	489,011	506,958	504,580	518,797	535,094	546,765
S&E	126,169	128,224	129,706	130,189	133,128	132,664	136,725	141,238	143,951
Sciences	119,219	121,088	122,651	123,267	125,846	125,607	129,289	133,591	136,381
Agricultural sciences	4,899	5,600	6,236	6,554	7,101	7,121	7,179	6,905	6,696
Biological sciences	20,892	22,652	23,970	24,977	25,228	24,286	24,716	25,005	25,579
Computer sciences	3,756	3,568	3,599	3,795	4,971	5,448	5,967	6,362	5,719
Earth, atmospheric, and ocean sciences	1,354	1,332	1,335	1,364	1,404	1,383	1,462	1,446	1,367
Atmospheric sciences	74	75	74	92	102	115	133	160	176
Earth sciences	1,216	1,197	1,200	1,191	1,224	1,188	1,251	1,223	1,119
Ocean sciences	64	60	61	81	78	80	78	63	72
Mathematics and statistics	4,954	4,584	4,387	4,164	4,049	3,928	4,068	4,121	4,392
Physical sciences	3,592	3,790	3,890	3,912	3,814	3,819	3,815	3,865	3,813
Astronomy	42	40	37	45	43	66	85	82	89
Chemistry	2,790	3,000	3,131	3,146	3,024	2,984	2,934	2,967	2,925
Physics	503	499	471	493	500	549	567	611	635
Other	257	251	251	228	247	220	229	205	164
Psychology	40,673	40,735	40,826	40,307	40,003	39,977	41,393	42,469	43,819
Social sciences	39,099	38,827	38,408	38,194	39,276	39,645	40,689	43,418	44,996
Anthropology	2,972	3,184	3,303	3,476	3,594	3,561	3,671	3,835	3,759
Area and ethnic studies	1,888	1,813	1,832	1,834	1,807	1,907	1,956	1,837	2,010
Economics	3,495	3,027	3,070	3,220	3,491	3,675	3,810	4,039	4,042
History of science	12	7	13	16	33	30	35	36	52
Linguistics	226	256	224	272	299	324	400	402	433
Political science and public administration	13,086	12,530	11,929	11,297	11,719	11,868	12,520	13,913	14,437
Sociology	10,902	11,339	11,350	11,328	11,607	11,315	11,172	11,462	11,888
Other	6,518	6,671	6,687	6,751	6,726	6,965	7,125	7,894	8,375
Engineering	6,950	7,136	7,055	6,922	7,282	7,057	7,436	7,647	7,570
Aerospace engineering	171	183	140	152	175	216	232	287	282

TABLE C-12. Bachelor's degrees awarded to women, by field, citizenship, and race/ethnicity: 1995–2004

Field, citizenship, and race/ethnicity	1995	1996	1997	1998	2000	2001	2002	2003	2004
Chemical engineering	1,310	1,355	1,397	1,303	1,271	1,229	1,273	1,238	1,130
Civil engineering	1,622	1,714	1,810	1,802	1,620	1,402	1,527	1,540	1,552
Electrical engineering	1,017	869	878	880	981	1,006	1,011	1,092	1,046
Industrial engineering	588	634	601	568	731	693	727	749	706
Materials engineering	189	153	169	157	187	187	194	191	180
Mechanical engineering	1,173	1,223	1,081	1,084	1,186	1,161	1,218	1,293	1,301
Other	880	1,005	979	976	1,131	1,163	1,254	1,257	1,373
Non-S&E	359,461	356,772	355,512	358,822	373,830	371,916	382,072	393,856	402,814
Asian/Pacific Islander									
All fields	30,947	33,163	35,626	37,400	40,697	41,291	43,410	45,273	47,635
S&E	12,866	13,743	14,942	15,828	16,981	17,423	18,104	18,807	19,905
Sciences	11,421	12,307	13,468	14,261	15,317	15,739	16,250	16,952	17,888
Agricultural sciences	156	171	229	251	274	256	250	257	257
Biological sciences	3,578	4,087	4,533	4,688	4,460	4,280	4,325	4,372	4,792
Computer sciences	782	751	849	892	1,741	2,046	2,352	2,542	2,275
Earth, atmospheric, and ocean sciences	51	26	49	47	45	43	48	29	41
Atmospheric sciences	4	3	4	1	4	6	4	4	5
Earth sciences	39	22	42	43	37	36	36	23	31
Ocean sciences	8	1	3	3	4	1	8	2	5
Mathematics and statistics	451	390	380	390	444	434	485	551	573
Physical sciences	512	625	690	726	679	657	595	554	601
Astronomy	3	7	4	3	4	10	12	5	10
Chemistry	458	545	621	673	609	590	514	487	526
Physics	41	55	59	38	56	46	54	54	53
Other	10	18	6	12	10	11	15	8	12
Psychology	2,362	2,541	2,862	3,044	3,150	3,106	3,124	2,988	3,296
Social sciences	3,529	3,716	3,876	4,223	4,524	4,917	5,071	5,659	6,053
Anthropology	166	214	244	289	237	239	253	288	290
Area and ethnic studies	322	405	378	449	487	490	473	421	498
Economics	845	795	876	1,010	1,174	1,355	1,427	1,697	1,746
History of science	2	1	2	1	5	10	14	8	6
Linguistics	46	47	49	70	50	53	57	65	77
Political science and public administration	1,164	1,121	1,117	1,169	1,220	1,338	1,407	1,592	1,637
Sociology	666	778	837	824	904	925	925	963	1,103
Other	318	355	373	411	447	507	515	625	696
Engineering	1,445	1,436	1,474	1,567	1,664	1,684	1,854	1,855	2,017
Aerospace engineering	13	21	16	10	16	22	24	21	43
Chemical engineering	250	271	326	344	352	298	313	261	233
Civil engineering	271	270	254	273	189	149	171	181	183
Electrical engineering	458	408	401	459	530	641	739	751	805
Industrial engineering	87	104	109	96	124	118	144	156	153
Materials engineering	26	31	29	38	41	31	34	30	28
Mechanical engineering	194	161	165	162	172	168	149	157	209
Other	146	170	174	185	240	257	280	298	363
Non-S&E	18,081	19,420	20,684	21,572	23,716	23,868	25,306	26,466	27,730
Black									
All fields	54,289	57,331	59,341	62,225	68,564	70,270	73,826	78,266	81,926
S&E	16,199	17,167	18,330	19,053	20,948	21,327	22,375	23,254	24,391
Sciences	15,200	16,131	17,273	18,011	19,858	20,301	21,284	22,198	23,295
Agricultural sciences	138	171	196	230	267	261	275	201	234
Biological sciences	2,251	2,576	2,820	3,105	3,359	3,367	3,358	3,516	3,690

TABLE C-12. Bachelor's degrees awarded to women, by field, citizenship, and race/ethnicity: 1995–2004

Field, citizenship, and race/ethnicity	1995	1996	1997	1998	2000	2001	2002	2003	2004
Computer sciences	1,264	1,204	1,179	1,294	1,670	1,989	2,324	2,750	2,667
Earth, atmospheric, and ocean sciences	19	29	20	37	24	24	32	27	40
Atmospheric sciences	1	5	1	3	4	0	5	5	10
Earth sciences	16	23	15	32	19	23	20	21	29
Ocean sciences	2	1	4	2	1	1	7	1	1
Mathematics and statistics	500	493	533	504	471	451	470	416	447
Physical sciences	520	589	624	569	645	580	611	551	592
Astronomy	0	1	0	1	0	0	1	1	2
Chemistry	443	485	559	484	561	513	519	489	510
Physics	50	65	47	65	63	43	69	41	62
Other	27	38	18	19	21	24	22	20	18
Psychology	4,339	4,610	5,056	5,308	5,926	6,005	6,210	6,448	6,906
Social sciences	6,169	6,459	6,845	6,964	7,496	7,624	8,004	8,289	8,719
Anthropology	98	131	154	167	198	172	199	198	257
Area and ethnic studies	393	414	421	463	493	479	510	512	546
Economics	488	418	394	423	452	527	593	618	655
History of science	0	0	1	0	3	4	3	3	5
Linguistics	13	11	6	17	12	20	20	9	30
Political science and public administration	2,257	2,197	2,224	2,193	2,273	2,255	2,411	2,528	2,743
Sociology	2,173	2,383	2,647	2,719	2,916	3,033	3,018	3,072	3,045
Other	747	905	998	982	1,149	1,134	1,250	1,349	1,438
Engineering	999	1,036	1,057	1,042	1,090	1,026	1,091	1,056	1,096
Aerospace engineering	16	6	6	2	6	8	9	17	12
Chemical engineering	165	210	208	220	214	194	190	168	154
Civil engineering	112	143	128	147	147	114	126	111	133
Electrical engineering	313	257	290	265	296	323	322	355	374
Industrial engineering	136	128	123	106	126	117	141	128	123
Materials engineering	12	11	7	18	14	11	20	9	14
Mechanical engineering	155	181	183	150	151	134	154	123	138
Other	90	100	112	134	136	125	129	145	148
Non-S&E	38,090	40,164	41,011	43,172	47,616	48,943	51,451	55,012	57,535
Hispanic									
All fields	38,816	41,680	44,388	46,409	53,667	54,667	58,357	61,840	64,818
S&E	10,890	11,887	12,945	13,744	15,460	15,580	16,750	17,921	18,534
Sciences	10,134	11,053	12,016	12,798	14,472	14,618	15,695	16,861	17,426
Agricultural sciences	156	222	264	313	319	310	357	358	363
Biological sciences	1,761	1,969	2,196	2,460	2,710	2,791	2,748	2,977	2,915
Computer sciences	434	457	437	512	695	726	836	1,103	1,009
Earth, atmospheric, and ocean sciences	35	39	54	56	53	83	52	51	62
Atmospheric sciences	0	2	2	6	1	5	1	2	4
Earth sciences	33	36	50	47	45	71	44	48	54
Ocean sciences	2	1	2	3	7	7	7	1	4
Mathematics and statistics	217	224	234	286	273	295	332	297	308
Physical sciences	328	345	331	384	452	414	437	412	450
Astronomy	3	3	3	2	2	7	2	7	6
Chemistry	286	311	300	352	404	357	383	365	391
Physics	15	17	22	22	31	33	32	34	46
Other	24	14	6	8	15	17	20	6	7
Psychology	3,377	3,710	3,997	4,127	4,699	4,782	5,130	5,321	5,660
Social sciences	3,826	4,087	4,503	4,660	5,271	5,217	5,803	6,342	6,659
Anthropology	192	231	285	249	309	301	342	372	394

TABLE C-12. Bachelor's degrees awarded to women, by field, citizenship, and race/ethnicity: 1995–2004

Field, citizenship, and race/ethnicity	1995	1996	1997	1998	2000	2001	2002	2003	2004
Area and ethnic studies	293	355	356	428	430	415	462	485	524
Economics	294	311	294	286	332	328	393	451	464
History of science	0	1	1	0	3	2	4	3	5
Linguistics	33	32	17	26	27	29	30	34	46
Political science and public administration	1,414	1,396	1,516	1,480	1,630	1,602	1,718	1,967	2,058
Sociology	1,085	1,167	1,316	1,443	1,639	1,632	1,789	1,872	1,948
Other	515	594	718	748	901	908	1,065	1,158	1,220
Engineering	756	834	929	946	988	962	1,055	1,060	1,108
Aerospace engineering	17	17	23	17	15	24	16	22	23
Chemical engineering	135	139	153	172	166	157	153	139	138
Civil engineering	159	159	213	212	198	198	217	229	233
Electrical engineering	153	184	179	166	198	206	247	244	293
Industrial engineering	127	140	142	143	185	157	183	144	150
Materials engineering	8	14	43	11	8	11	14	23	18
Mechanical engineering	102	106	105	152	131	139	138	156	144
Other	55	75	71	73	87	70	87	103	109
Non-S&E	27,926	29,793	31,433	32,665	38,207	39,087	41,607	43,919	46,284
American Indian/Alaskan Native									
All fields	3,785	4,002	4,323	4,627	5,074	5,141	5,253	5,636	5,957
S&E	1,005	1,127	1,255	1,270	1,445	1,478	1,465	1,619	1,744
Sciences	960	1,079	1,188	1,223	1,356	1,414	1,391	1,545	1,654
Agricultural sciences	42	58	70	68	90	97	69	89	86
Biological sciences	157	174	184	208	223	237	247	230	257
Computer sciences	37	39	28	36	59	78	85	82	93
Earth, atmospheric, and ocean sciences	9	7	16	13	21	16	9	8	20
Atmospheric sciences	0	1	0	0	1	0	0	2	0
Earth sciences	9	6	16	13	17	16	9	6	20
Ocean sciences	0	0	0	0	3	0	0	0	0
Mathematics and statistics	30	23	28	27	38	23	28	35	22
Physical sciences	23	23	27	28	32	33	40	48	29
Astronomy	0	0	0	0	1	2	1	3	0
Chemistry	20	20	21	24	26	23	32	40	25
Physics	2	2	3	2	4	6	7	5	3
Other	1	1	3	2	1	2	0	0	1
Psychology	287	338	372	368	390	405	417	424	469
Social sciences	375	417	463	475	503	525	496	629	678
Anthropology	42	47	57	53	57	61	61	74	69
Area and ethnic studies	16	42	36	45	52	60	78	85	88
Economics	20	24	23	23	22	24	21	36	41
History of science	0	0	0	0	0	0	0	0	0
Linguistics	4	2	3	5	9	1	2	4	2
Political science and public administration	101	116	135	124	123	121	121	152	194
Sociology	133	131	139	133	153	159	137	180	168
Other	59	55	70	92	87	99	76	98	116
Engineering	45	48	67	47	89	64	74	74	90
Aerospace engineering	0	0	1	1	1	1	2	1	7
Chemical engineering	9	14	8	6	12	9	12	9	11
Civil engineering	17	15	24	14	26	26	18	23	17
Electrical engineering	5	4	7	5	13	8	10	21	20
Industrial engineering	2	1	8	2	8	4	5	4	9
Materials engineering	1	0	1	2	1	1	2	0	2
Mechanical engineering	7	6	9	7	12	12	17	7	12
Other	4	8	9	10	16	3	8	9	12

TABLE C-12. Bachelor's degrees awarded to women, by field, citizenship, and race/ethnicity: 1995–2004

Field, citizenship, and race/ethnicity	1995	1996	1997	1998	2000	2001	2002	2003	2004
Non-S&E	2,780	2,875	3,068	3,357	3,629	3,663	3,788	4,017	4,213
Other or unknown race/ethnicity									
All fields	13,927	14,287	15,260	16,758	23,822	27,047	32,322	37,191	42,407
S&E	3,977	4,136	4,576	5,041	6,955	7,856	9,106	10,313	11,735
Sciences	3,788	3,930	4,364	4,854	6,658	7,512	8,681	9,812	11,268
Agricultural sciences	158	171	181	203	288	317	355	349	368
Biological sciences	618	653	770	920	1,149	1,266	1,382	1,502	1,679
Computer sciences	162	145	238	286	433	557	708	881	1,227
Earth, atmospheric, and ocean sciences	32	34	39	48	53	60	73	63	92
Atmospheric sciences	1	0	1	0	1	5	6	1	7
Earth sciences	31	33	37	46	51	54	65	61	82
Ocean sciences	0	1	1	2	1	1	2	1	3
Mathematics and statistics	104	106	114	121	154	206	203	232	279
Physical sciences	91	99	109	163	160	173	254	233	269
Astronomy	1	3	1	4	1	4	8	4	10
Chemistry	63	62	77	120	124	128	176	168	194
Physics	21	21	17	17	30	33	51	51	58
Other	6	13	14	22	5	8	19	10	7
Psychology	1,215	1,188	1,336	1,372	1,956	2,179	2,593	2,735	2,891
Social sciences	1,408	1,534	1,577	1,741	2,465	2,754	3,113	3,817	4,463
Anthropology	136	164	159	177	269	290	323	393	436
Area and ethnic studies	97	91	108	99	181	184	220	242	300
Economics	134	177	141	171	256	286	324	384	439
History of science	0	0	0	0	8	8	6	2	5
Linguistics	22	23	24	15	34	25	34	50	69
Political science and public administration	408	420	387	464	707	807	902	1,222	1,424
Sociology	353	360	413	468	598	664	763	835	932
Other	258	299	345	347	412	490	541	689	858
Engineering	189	206	212	187	297	344	425	501	467
Aerospace engineering	5	5	4	2	11	9	8	14	20
Chemical engineering	29	38	27	30	46	54	53	75	47
Civil engineering	45	53	48	49	56	62	84	95	72
Electrical engineering	41	44	48	44	49	87	104	141	141
Industrial engineering	10	9	17	11	18	20	35	32	24
Materials engineering	6	8	4	1	9	6	15	17	12
Mechanical engineering	29	24	31	27	55	61	55	57	79
Other	24	25	33	23	53	45	71	70	72
Non-S&E	9,950	10,151	10,684	11,717	16,867	19,191	23,216	26,878	30,672
Temporary resident									
All fields	15,896	16,356	17,151	17,435	18,181	18,629	19,808	20,566	21,309
S&E	4,825	5,049	5,257	5,272	6,036	6,255	6,678	7,196	7,553
Sciences	4,259	4,429	4,581	4,644	5,230	5,478	5,926	6,419	6,644
Agricultural sciences	88	111	91	124	125	129	149	142	143
Biological sciences	661	754	793	743	829	857	919	919	1,001
Computer sciences	628	608	573	624	905	1,056	1,232	1,470	1,416
Earth, atmospheric, and ocean sciences	24	18	29	34	17	13	26	27	25
Atmospheric sciences	2	0	1	2	1	1	2	2	1
Earth sciences	20	17	25	31	16	12	21	24	23
Ocean sciences	2	1	3	1	0	0	3	1	1
Mathematics and statistics	235	172	213	167	175	160	176	227	297

TABLE C-12. Bachelor's degrees awarded to women, by field, citizenship, and race/ethnicity: 1995–2004

Field, citizenship, and race/ethnicity	1995	1996	1997	1998	2000	2001	2002	2003	2004
Physical sciences	226	231	211	212	208	235	230	221	248
Astronomy	3	1	1	3	3	6	7	8	6
Chemistry	173	199	174	174	159	180	171	166	184
Physics	43	25	33	29	40	46	46	44	51
Other	7	6	3	6	6	3	6	3	7
Psychology	710	741	794	874	990	1,013	1,059	1,114	1,167
Social sciences	1,687	1,794	1,877	1,866	1,981	2,015	2,135	2,299	2,347
Anthropology	83	87	111	69	78	82	77	69	75
Area and ethnic studies	85	97	125	123	122	122	109	108	114
Economics	572	620	650	658	657	729	821	871	894
History of science	1	0	0	1	0	2	1	2	0
Linguistics	67	67	70	78	67	60	69	62	60
Political science and public administration	538	570	546	593	675	646	664	721	763
Sociology	227	217	202	207	211	195	207	254	226
Other	114	136	173	137	171	179	187	212	215
Engineering	566	620	676	628	806	777	752	777	909
Aerospace engineering	8	15	12	13	14	24	21	22	26
Chemical engineering	126	144	157	121	142	114	129	123	120
Civil engineering	72	70	92	79	97	90	81	70	89
Electrical engineering	183	206	215	193	283	271	287	305	353
Industrial engineering	76	81	79	94	115	115	106	99	100
Materials engineering	5	6	6	8	8	16	6	6	16
Mechanical engineering	40	35	61	54	77	64	52	68	69
Other	56	63	54	66	70	83	70	84	136
Non-S&E	11,071	11,307	11,894	12,163	12,145	12,374	13,130	13,370	13,756

NOTES: Race/ethnicity breakouts are for U.S. citizens and permanent residents only. Temporary resident includes all racial/ethnic groups. Data not available for 1999.

SOURCE: National Science Foundation, Division of Science Resources Statistics, special tabulations of U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Completions Survey, 1995–2004.

TABLE C-13. Bachelor's degrees awarded to men, by field, citizenship, and race/ethnicity: 1995–2004

Field, citizenship, and race/ethnicity	1995	1996	1997	1998	2000	2001	2002	2003	2004
All fields	531,146	528,000	525,282	525,714	536,158	536,023	553,957	575,977	596,192
S&E	202,217	203,341	201,471	200,221	197,669	197,623	204,408	217,088	224,525
Sciences	149,796	151,543	150,589	150,646	150,349	150,279	156,456	166,285	173,107
Agricultural sciences	8,943	9,884	10,094	10,224	9,780	8,976	8,726	7,841	7,475
Biological sciences	26,972	29,216	29,873	30,011	26,946	25,005	24,073	23,408	23,979
Computer sciences	17,706	17,773	18,490	20,235	26,914	31,284	35,631	41,139	42,999
Earth, atmospheric, and ocean sciences	2,954	2,972	2,924	2,722	2,430	2,346	2,282	2,298	2,256
Atmospheric sciences	362	348	348	339	376	324	374	386	369
Earth sciences	2,456	2,504	2,445	2,262	1,950	1,934	1,788	1,846	1,812
Ocean sciences	136	120	131	121	104	88	120	66	75
Mathematics and statistics	7,360	7,084	6,834	6,435	6,131	5,958	6,511	7,003	7,437
Physical sciences	9,605	9,694	9,382	9,279	8,590	8,252	8,034	8,238	8,238
Astronomy	117	93	94	110	106	145	160	161	169
Chemistry	5,783	6,091	6,043	5,900	5,483	5,047	4,719	4,650	4,550
Physics	3,161	3,019	2,741	2,789	2,638	2,701	2,825	3,082	3,248
Other	544	491	504	480	363	359	330	345	271
Psychology	19,638	19,965	19,491	19,057	17,540	16,701	17,397	17,616	18,302
Social sciences	56,618	54,955	53,501	52,683	52,018	51,757	53,802	58,742	62,421
Anthropology	2,117	2,331	2,446	2,414	2,315	2,192	2,272	2,313	2,349
Area and ethnic studies	2,082	1,980	2,001	2,000	2,045	1,904	2,036	2,055	2,162
Economics	13,235	12,524	12,253	12,453	13,016	13,453	14,438	15,775	16,652
History of science	14	12	14	21	40	45	40	49	67
Linguistics	153	181	184	197	229	245	249	294	330
Political science and public administration	23,010	21,578	19,953	19,334	18,092	18,014	18,830	21,193	22,876
Sociology	7,435	7,794	7,846	7,762	7,657	7,440	7,307	7,553	7,720
Other	8,572	8,555	8,804	8,502	8,624	8,464	8,630	9,510	10,265
Engineering	52,421	51,798	50,882	49,575	47,320	47,344	47,952	50,803	51,418
Aerospace engineering	1,541	1,395	1,088	1,050	1,029	1,194	1,435	1,633	1,905
Chemical engineering	4,367	4,537	4,701	4,525	4,016	4,033	3,823	3,532	3,352
Civil engineering	9,031	9,629	9,441	8,946	7,263	6,908	6,667	7,118	7,120
Electrical engineering	15,409	14,695	14,416	14,310	15,322	15,829	16,257	17,820	18,310
Industrial engineering	2,493	2,630	2,918	2,968	2,630	2,594	2,635	2,627	2,542
Materials engineering	799	781	804	772	704	667	648	674	595
Mechanical engineering	13,441	12,773	12,171	11,727	11,325	11,421	11,594	12,183	12,416
Other	5,340	5,358	5,343	5,277	5,031	4,698	4,893	5,216	5,178
Non-S&E	328,929	324,659	323,811	325,493	338,489	338,400	349,549	358,889	371,667
U.S. citizen/permanent resident									
All fields	510,030	506,569	503,659	504,262	515,544	515,173	532,641	553,720	573,326
S&E	192,357	193,643	191,991	190,784	188,521	188,164	198,763	206,611	213,497
Sciences	144,180	145,988	145,230	145,224	144,928	144,462	150,326	159,306	165,717
Agricultural sciences	8,773	9,725	9,932	10,055	9,647	8,857	8,613	7,738	7,383
Biological sciences	26,350	28,603	29,204	29,331	26,399	24,425	23,535	22,815	23,341
Computer sciences	16,037	16,195	17,048	18,722	24,933	28,948	32,975	37,923	39,554
Earth, atmospheric, and ocean sciences	2,905	2,936	2,875	2,674	2,401	2,310	2,249	2,268	2,231
Atmospheric sciences	360	347	338	337	369	323	370	380	367
Earth sciences	2,417	2,473	2,410	2,218	1,933	1,900	1,760	1,822	1,790
Ocean sciences	128	116	127	119	99	87	119	66	74
Mathematics and statistics	7,002	6,705	6,514	6,149	5,827	5,692	6,233	6,608	7,052
Physical sciences	9,181	9,293	9,000	8,898	8,266	7,929	7,719	7,936	7,895
Astronomy	110	86	87	102	105	138	151	154	165

TABLE C-13. Bachelor's degrees awarded to men, by field, citizenship, and race/ethnicity: 1995–2004

Field, citizenship, and race/ethnicity	1995	1996	1997	1998	2000	2001	2002	2003	2004
Chemistry	5,560	5,875	5,821	5,689	5,298	4,892	4,547	4,490	4,384
Physics	2,981	2,851	2,598	2,640	2,518	2,565	2,704	2,958	3,110
Other	530	481	494	467	345	334	317	334	236
Psychology	19,406	19,690	19,236	18,761	17,266	16,431	17,089	17,336	17,998
Social sciences	54,526	52,841	51,421	50,634	50,189	49,870	52,913	56,682	60,263
Anthropology	2,085	2,301	2,384	2,381	2,277	2,154	2,235	2,288	2,318
Area and ethnic studies	1,942	1,874	1,928	1,946	1,989	1,859	1,985	2,003	2,113
Economics	12,117	11,357	11,079	11,328	11,982	12,358	13,355	14,598	15,376
History of science	14	12	14	21	39	44	39	48	67
Linguistics	140	171	168	175	213	228	237	276	316
Political science and public administration	22,460	21,018	19,447	18,748	17,613	17,513	18,332	20,636	22,343
Sociology	7,330	7,687	7,749	7,660	7,569	7,377	7,219	7,458	7,620
Other	8,438	8,421	8,652	8,375	8,507	8,337	8,511	9,375	10,111
Engineering	48,177	47,655	46,761	45,560	43,593	43,702	44,437	47,305	47,780
Aerospace engineering	1,433	1,287	971	926	922	1,070	1,334	1,495	1,757
Chemical engineering	3,969	4,112	4,287	4,139	3,713	3,723	3,505	3,296	3,104
Civil engineering	8,666	9,261	9,059	8,515	6,901	6,586	6,377	6,839	6,894
Electrical engineering	13,475	12,914	12,761	12,666	13,769	14,258	14,675	16,073	16,390
Industrial engineering	2,145	2,263	2,517	2,576	2,264	2,234	2,299	2,324	2,261
Materials engineering	774	758	782	747	675	641	625	649	582
Mechanical engineering	12,700	12,026	11,324	10,984	10,613	10,741	10,963	11,655	11,871
Other	5,015	5,034	5,060	5,007	4,736	4,449	4,659	4,974	4,921
Non-S&E	317,673	312,926	311,668	313,478	327,023	327,009	337,878	347,109	359,829
White									
All fields	407,155	399,132	392,541	389,007	388,171	383,832	394,159	405,401	416,122
S&E	149,650	148,562	145,094	142,372	137,288	135,184	139,654	146,463	150,154
Sciences	112,834	112,555	110,483	108,720	105,503	103,474	107,367	112,285	115,867
Agricultural sciences	7,974	8,799	9,010	9,062	8,554	7,829	7,550	6,764	6,444
Biological sciences	19,805	21,087	21,417	20,935	18,679	17,039	16,572	15,882	16,331
Computer sciences	11,845	12,009	12,247	13,274	16,748	19,043	21,539	24,096	24,638
Earth, atmospheric, and ocean sciences	2,658	2,678	2,651	2,439	2,157	2,053	1,988	1,996	1,971
Atmospheric sciences	327	328	316	324	335	280	334	333	332
Earth sciences	2,214	2,250	2,229	2,016	1,735	1,700	1,555	1,614	1,572
Ocean sciences	117	100	106	99	87	73	99	49	67
Mathematics and statistics	5,532	5,215	5,045	4,739	4,346	4,245	4,688	4,855	5,247
Physical sciences	7,348	7,288	7,044	6,851	6,282	5,993	5,886	6,069	6,020
Astronomy	90	67	75	82	88	119	119	130	131
Chemistry	4,322	4,487	4,406	4,224	3,876	3,521	3,334	3,314	3,228
Physics	2,501	2,343	2,152	2,159	2,043	2,076	2,175	2,359	2,493
Other	435	391	411	386	275	277	258	266	168
Psychology	15,241	15,170	14,520	13,918	12,394	11,585	11,931	12,207	12,696
Social sciences	42,431	40,309	38,549	37,502	36,343	35,687	37,213	40,416	42,520
Anthropology	1,724	1,861	1,922	1,907	1,784	1,661	1,709	1,757	1,737
Area and ethnic studies	1,268	1,185	1,194	1,153	1,136	1,031	1,120	1,111	1,168
Economics	9,374	8,613	8,367	8,379	8,611	8,744	9,564	10,263	10,620
History of science	14	11	11	17	25	27	25	32	48
Linguistics	113	117	135	125	151	175	185	201	219
Political science and public administration	17,821	16,403	14,841	14,327	13,257	13,095	13,642	15,347	16,536
Sociology	5,268	5,438	5,311	5,122	4,954	4,790	4,666	4,813	4,793
Other	6,849	6,681	6,768	6,472	6,425	6,164	6,302	6,892	7,399
Engineering	36,816	36,007	34,611	33,652	31,785	31,710	32,287	34,178	34,287
Aerospace engineering	1,130	989	729	725	724	842	1,047	1,160	1,347

TABLE C-13. Bachelor's degrees awarded to men, by field, citizenship, and race/ethnicity: 1995–2004

Field, citizenship, and race/ethnicity	1995	1996	1997	1998	2000	2001	2002	2003	2004
Chemical engineering	3,107	3,222	3,234	3,102	2,791	2,832	2,703	2,508	2,353
Civil engineering	7,024	7,403	7,130	6,679	5,383	5,213	5,097	5,492	5,459
Electrical engineering	9,062	8,558	8,415	8,294	8,734	8,885	8,964	9,865	9,888
Industrial engineering	1,632	1,716	1,670	1,765	1,654	1,637	1,701	1,643	1,646
Materials engineering	662	634	644	603	554	521	518	510	434
Mechanical engineering	10,159	9,465	8,838	8,572	8,281	8,380	8,658	9,223	9,455
Other	4,040	4,020	3,951	3,912	3,664	3,400	3,599	3,777	3,705
Non-S&E	257,505	250,570	247,447	246,635	250,883	248,648	254,505	258,938	265,968
Asian/Pacific Islander									
All fields	28,348	29,954	31,732	32,588	34,568	34,205	35,739	37,776	38,395
S&E	15,738	16,676	17,626	18,176	18,572	18,975	19,348	20,698	21,117
Sciences	10,398	11,312	12,015	12,741	13,382	13,634	14,081	15,141	15,509
Agricultural sciences	126	136	167	188	180	143	161	161	140
Biological sciences	3,467	3,880	4,008	4,181	3,565	3,213	2,884	2,841	2,906
Computer sciences	1,589	1,703	1,954	2,328	3,660	4,280	4,855	5,531	5,187
Earth, atmospheric, and ocean sciences	51	67	46	45	53	43	37	44	44
Atmospheric sciences	8	6	3	4	10	8	4	5	6
Earth sciences	38	57	35	33	40	28	29	35	34
Ocean sciences	5	4	8	8	3	7	4	4	4
Mathematics and statistics	513	520	472	444	447	482	515	602	671
Physical sciences	733	841	835	858	783	687	622	589	628
Astronomy	10	8	3	9	5	2	12	11	8
Chemistry	528	627	659	664	599	536	464	406	434
Physics	173	181	145	170	162	138	130	150	170
Other	22	25	28	15	17	11	16	22	16
Psychology	969	1,125	1,205	1,223	1,038	1,044	1,117	1,072	1,049
Social sciences	2,950	3,040	3,328	3,474	3,656	3,742	3,890	4,301	4,884
Anthropology	93	102	119	115	103	93	124	108	108
Area and ethnic studies	188	216	196	227	250	224	213	250	260
Economics	1,150	1,199	1,278	1,420	1,600	1,727	1,808	2,011	2,261
History of science	0	1	2	2	7	5	6	8	8
Linguistics	5	11	13	15	22	16	16	19	28
Political science and public administration	924	888	983	972	857	890	918	1,047	1,213
Sociology	323	312	391	388	420	375	400	409	493
Other	267	311	346	335	397	412	405	449	513
Engineering	5,340	5,364	5,611	5,435	5,190	5,341	5,267	5,557	5,608
Aerospace engineering	146	138	102	86	82	81	104	124	143
Chemical engineering	402	464	548	553	436	404	323	302	294
Civil engineering	671	716	763	636	457	372	311	319	310
Electrical engineering	2,311	2,280	2,262	2,298	2,613	2,881	3,035	3,215	3,278
Industrial engineering	200	218	328	273	208	201	212	230	223
Materials engineering	67	57	55	81	50	57	51	61	67
Mechanical engineering	1,055	1,016	970	966	830	830	743	782	719
Other	488	475	583	542	514	515	488	524	574
Non-S&E	12,610	13,278	14,106	14,412	15,996	15,230	16,391	17,078	17,278
Black									
All fields	30,998	32,223	32,726	33,653	35,648	36,378	37,206	38,991	40,692
S&E	10,712	11,230	11,495	11,698	11,976	11,963	12,421	13,146	13,659
Sciences	8,866	9,266	9,475	9,721	10,003	10,105	10,530	11,128	11,543
Agricultural sciences	115	170	171	179	183	167	179	138	126
Biological sciences	981	1,236	1,304	1,448	1,380	1,326	1,276	1,258	1,307

TABLE C-13. Bachelor's degrees awarded to men, by field, citizenship, and race/ethnicity: 1995–2004

Field, citizenship, and race/ethnicity	1995	1996	1997	1998	2000	2001	2002	2003	2004
Computer sciences	1,253	1,223	1,253	1,372	1,827	2,302	2,630	3,117	3,267
Earth, atmospheric, and ocean sciences	45	31	37	33	27	32	30	33	25
Atmospheric sciences	10	2	7	4	6	2	5	7	10
Earth sciences	33	25	26	28	21	29	22	22	14
Ocean sciences	2	4	4	1	0	1	3	4	1
Mathematics and statistics	458	449	483	462	434	357	373	374	337
Physical sciences	450	451	429	488	445	416	407	377	366
Astronomy	3	2	0	1	1	2	2	0	1
Chemistry	295	304	302	340	327	314	277	255	246
Physics	122	111	101	114	89	90	113	106	104
Other	30	34	26	33	28	10	15	16	15
Psychology	1,402	1,418	1,591	1,544	1,646	1,557	1,537	1,563	1,573
Social sciences	4,162	4,288	4,207	4,195	4,061	3,948	4,098	4,268	4,542
Anthropology	47	52	66	67	70	70	54	60	81
Area and ethnic studies	214	221	232	229	245	212	274	237	259
Economics	668	602	531	556	592	562	628	708	754
History of science	0	0	1	0	3	2	1	3	3
Linguistics	4	8	2	4	2	4	5	8	2
Political science and public administration	1,602	1,614	1,537	1,445	1,329	1,299	1,326	1,426	1,492
Sociology	1,035	1,177	1,204	1,225	1,181	1,167	1,150	1,142	1,182
Other	592	614	634	669	639	632	660	684	769
Engineering	1,846	1,964	2,020	1,977	1,973	1,858	1,891	2,018	2,116
Aerospace engineering	48	45	44	33	34	31	34	48	58
Chemical engineering	140	127	165	165	169	179	156	149	149
Civil engineering	214	266	275	254	256	215	191	181	187
Electrical engineering	735	778	777	782	753	759	781	929	1,019
Industrial engineering	100	110	122	156	130	120	115	146	128
Materials engineering	10	18	13	14	10	16	12	13	8
Mechanical engineering	449	451	459	398	443	381	407	348	366
Other	150	169	165	175	178	157	195	204	201
Non-S&E	20,286	20,993	21,231	21,955	23,672	24,415	24,785	25,845	27,033
Hispanic									
All fields	27,875	29,335	30,550	31,716	34,657	35,305	36,747	38,512	40,347
S&E	10,469	10,999	11,500	11,968	12,524	12,741	13,121	14,104	14,543
Sciences	7,574	8,102	8,304	8,789	9,437	9,687	10,040	10,807	11,181
Agricultural sciences	227	282	295	318	315	297	305	263	261
Biological sciences	1,340	1,562	1,599	1,823	1,736	1,756	1,619	1,647	1,539
Computer sciences	880	827	890	961	1,460	1,628	1,878	2,342	2,526
Earth, atmospheric, and ocean sciences	49	66	59	62	74	74	84	68	69
Atmospheric sciences	5	5	6	2	8	10	9	8	9
Earth sciences	41	55	50	51	60	59	65	55	58
Ocean sciences	3	6	3	9	6	5	10	5	2
Mathematics and statistics	305	332	326	318	326	330	340	372	368
Physical sciences	388	422	409	412	431	456	427	449	435
Astronomy	3	3	1	9	5	9	8	5	17
Chemistry	267	305	293	288	315	312	283	304	260
Physics	90	96	97	95	94	118	125	130	141
Other	28	18	18	20	17	17	11	10	17
Psychology	1,166	1,326	1,285	1,382	1,428	1,396	1,562	1,486	1,592
Social sciences	3,219	3,285	3,441	3,513	3,667	3,750	3,825	4,180	4,391
Anthropology	116	132	160	148	153	164	152	161	174

TABLE C-13. Bachelor's degrees awarded to men, by field, citizenship, and race/ethnicity: 1995–2004

Field, citizenship, and race/ethnicity	1995	1996	1997	1998	2000	2001	2002	2003	2004
Area and ethnic studies	183	180	214	250	229	233	226	232	232
Economics	550	530	535	565	644	702	675	737	825
History of science	0	0	0	2	0	3	3	1	2
Linguistics	7	15	7	13	15	16	9	14	25
Political science and public administration	1,452	1,445	1,396	1,348	1,345	1,323	1,417	1,576	1,635
Sociology	482	518	592	638	678	659	651	683	717
Other	429	465	537	549	603	650	692	776	781
Engineering	2,895	2,897	3,196	3,179	3,087	3,054	3,081	3,297	3,362
Aerospace engineering	76	72	70	61	52	68	81	88	98
Chemical engineering	210	192	226	221	214	184	200	181	175
Civil engineering	534	579	661	708	564	544	544	569	603
Electrical engineering	948	868	944	904	1,085	1,096	1,164	1,184	1,258
Industrial engineering	175	176	309	307	206	199	189	220	182
Materials engineering	18	28	46	31	30	23	19	27	34
Mechanical engineering	725	743	727	714	715	741	681	794	791
Other	209	239	213	233	221	199	203	234	221
Non-S&E	17,406	18,336	19,050	19,748	22,133	22,564	23,626	24,408	25,804
American Indian/Alaskan Native									
All fields	2,669	2,811	2,915	3,079	3,357	3,523	3,415	3,606	3,957
S&E	990	1,022	1,043	1,122	1,166	1,318	1,177	1,245	1,457
Sciences	814	827	847	915	927	1,126	943	999	1,214
Agricultural sciences	82	81	76	83	100	118	89	68	94
Biological sciences	128	143	157	191	156	194	163	134	145
Computer sciences	73	50	71	76	113	193	144	181	323
Earth, atmospheric, and ocean sciences	17	16	15	12	22	19	17	16	11
Atmospheric sciences	0	0	1	0	3	5	1	2	1
Earth sciences	16	14	10	12	18	13	14	12	10
Ocean sciences	1	2	4	0	1	1	2	2	0
Mathematics and statistics	28	30	29	38	31	28	29	30	37
Physical sciences	49	58	42	53	33	40	43	46	47
Astronomy	0	0	0	0	1	0	1	1	1
Chemistry	37	37	33	40	23	24	25	31	25
Physics	11	19	8	12	8	13	14	12	17
Other	1	2	1	1	1	3	3	2	4
Psychology	120	132	124	147	128	156	125	120	127
Social sciences	317	317	333	315	344	378	333	404	430
Anthropology	27	28	29	27	32	32	24	37	34
Area and ethnic studies	24	20	26	30	28	46	43	43	57
Economics	53	43	45	46	49	44	44	59	67
History of science	0	0	0	0	1	0	0	0	0
Linguistics	2	1	2	5	1	1	0	5	2
Political science and public administration	117	112	118	91	108	113	120	128	150
Sociology	43	55	53	64	67	66	47	64	60
Other	51	58	60	52	58	76	55	68	60
Engineering	176	195	196	207	239	192	234	246	243
Aerospace engineering	3	5	2	9	6	7	15	9	16
Chemical engineering	22	17	21	25	30	22	21	25	18
Civil engineering	41	44	47	48	58	39	49	44	47
Electrical engineering	38	51	43	48	68	48	60	78	68
Industrial engineering	2	7	11	13	15	13	16	8	6
Materials engineering	1	4	5	1	4	3	4	3	4
Mechanical engineering	48	51	36	40	41	39	44	51	61
Other	21	16	31	23	17	21	25	28	23

TABLE C-13. Bachelor's degrees awarded to men, by field, citizenship, and race/ethnicity: 1995–2004

Field, citizenship, and race/ethnicity	1995	1996	1997	1998	2000	2001	2002	2003	2004
Non-S&E	1,679	1,789	1,872	1,957	2,191	2,205	2,238	2,361	2,500
Other or unknown race/ethnicity									
All fields	12,985	13,114	13,195	14,219	19,143	21,930	25,375	29,434	33,813
S&E	4,798	5,154	5,233	5,448	6,995	7,983	9,042	10,955	12,567
Sciences	3,694	3,926	4,106	4,338	5,676	6,436	7,365	8,946	10,403
Agricultural sciences	249	257	213	225	315	303	329	344	318
Biological sciences	629	695	719	753	883	897	1,021	1,053	1,113
Computer sciences	397	383	633	711	1,125	1,502	1,929	2,656	3,613
Earth, atmospheric, and ocean sciences	85	78	67	83	68	89	93	111	111
Atmospheric sciences	10	6	5	3	7	18	17	25	9
Earth sciences	75	72	60	78	59	71	75	84	102
Ocean sciences	0	0	2	2	2	0	1	2	0
Mathematics and statistics	166	159	159	148	243	250	288	375	392
Physical sciences	213	233	241	236	292	337	334	406	399
Astronomy	4	6	8	1	5	6	9	7	7
Chemistry	111	115	128	133	158	185	164	180	191
Physics	84	101	95	90	122	130	147	201	185
Other	14	11	10	12	7	16	14	18	16
Psychology	508	519	511	547	632	693	817	888	961
Social sciences	1,447	1,602	1,563	1,635	2,118	2,365	2,554	3,113	3,496
Anthropology	78	126	88	117	135	134	172	165	184
Area and ethnic studies	65	52	66	57	101	113	109	130	136
Economics	322	370	323	362	486	579	636	820	849
History of science	0	0	0	0	3	7	4	4	6
Linguistics	9	19	9	13	22	16	22	29	40
Political science and public administration	544	556	572	565	717	793	909	1,112	1,317
Sociology	179	187	198	223	269	320	305	347	375
Other	250	292	307	298	385	403	397	506	589
Engineering	1,104	1,228	1,127	1,110	1,319	1,547	1,677	2,009	2,164
Aerospace engineering	30	38	24	12	24	41	53	66	95
Chemical engineering	88	90	93	73	73	102	102	131	115
Civil engineering	182	253	183	190	183	203	185	234	288
Electrical engineering	381	379	320	340	516	589	671	802	879
Industrial engineering	36	36	77	62	51	64	66	77	76
Materials engineering	16	17	19	17	27	21	21	35	35
Mechanical engineering	264	300	294	294	303	370	430	457	479
Other	107	115	117	122	142	157	149	207	197
Non-S&E	8,187	7,960	7,962	8,771	12,148	13,947	16,333	18,479	21,246
Temporary resident									
All fields	21,116	21,431	21,623	21,452	20,614	20,850	21,316	22,257	22,866
S&E	9,860	9,698	9,480	9,437	9,148	9,459	9,645	10,477	11,028
Sciences	5,616	5,555	5,359	5,422	5,421	5,817	6,130	6,979	7,390
Agricultural sciences	170	159	162	169	133	119	113	103	92
Biological sciences	622	613	669	680	547	580	538	593	638
Computer sciences	1,669	1,578	1,442	1,513	1,981	2,336	2,656	3,216	3,445
Earth, atmospheric, and ocean sciences	49	36	49	48	29	36	33	30	25
Atmospheric sciences	2	1	10	2	7	1	4	6	2
Earth sciences	39	31	35	44	17	34	28	24	22
Ocean sciences	8	4	4	2	5	1	1	0	1
Mathematics and statistics	358	379	320	286	304	266	278	395	385

TABLE C-13. Bachelor's degrees awarded to men, by field, citizenship, and race/ethnicity: 1995–2004

Field, citizenship, and race/ethnicity	1995	1996	1997	1998	2000	2001	2002	2003	2004
Physical sciences	424	401	382	381	324	323	315	302	343
Astronomy	7	7	7	8	1	7	9	7	4
Chemistry	223	216	222	211	185	155	172	160	166
Physics	180	168	143	149	120	136	121	124	138
Other	14	10	10	13	18	25	13	11	35
Psychology	232	275	255	296	274	270	308	280	304
Social sciences	2,092	2,114	2,080	2,049	1,829	1,887	1,889	2,060	2,158
Anthropology	32	30	62	33	38	38	37	25	31
Area and ethnic studies	140	106	73	54	56	45	51	52	50
Economics	1,118	1,167	1,174	1,125	1,034	1,095	1,083	1,177	1,276
History of science	0	0	0	0	1	1	1	1	0
Linguistics	13	10	16	22	16	17	12	18	14
Political science and public administration	550	560	506	586	479	501	498	557	533
Sociology	105	107	97	102	88	63	88	95	100
Other	134	134	152	127	117	127	119	135	154
Engineering	4,244	4,143	4,121	4,015	3,727	3,642	3,515	3,498	3,638
Aerospace engineering	108	108	117	124	107	124	101	138	148
Chemical engineering	398	425	414	386	303	310	318	236	248
Civil engineering	365	368	382	431	362	322	290	279	226
Electrical engineering	1,934	1,781	1,655	1,644	1,553	1,571	1,582	1,747	1,920
Industrial engineering	348	367	401	392	366	360	336	303	281
Materials engineering	25	23	22	25	29	26	23	25	13
Mechanical engineering	741	747	847	743	712	680	631	528	545
Other	325	324	283	270	295	249	234	242	257
Non-S&E	11,256	11,733	12,143	12,015	11,466	11,391	11,671	11,780	11,838

NOTES: Race/ethnicity breakouts are for U.S. citizens and permanent residents only. Temporary resident includes all racial/ethnic groups. Data not available for 1999.

SOURCE: National Science Foundation, Division of Science Resources Statistics, special tabulations of U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Completions Survey, 1995–2004.

TABLE C-14. Bachelor's degrees, by race/ethnicity, citizenship, sex, and field: 2004

Race/ethnicity, citizenship, and sex	All fields	All S&E	Sciences	Agricultural sciences	Biological sciences	Computer sciences	Earth, atmospheric, and ocean sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Engineering	Number of recipients	
All recipients	1,407,009	452,338	387,663	15,622	63,892	57,405	3,903	13,755	14,240	82,510	136,336	64,675	954,671	
White	962,887	294,105	252,248	13,140	41,910	30,357	3,338	9,639	9,833	56,515	87,516	41,857	668,782	
Asian/Pacific Islander	86,030	41,022	33,397	397	7,698	7,462	85	1,244	1,229	4,345	10,937	7,625	45,008	
Black	122,618	38,050	34,838	360	4,997	5,934	65	784	958	8,479	13,261	3,212	84,568	
Hispanic	105,165	33,077	28,607	624	4,454	3,535	131	676	885	7,252	11,050	4,470	72,088	
American Indian/Alaskan Native	9,914	3,201	2,868	180	402	416	31	59	76	596	1,108	333	6,713	
Other or unknown race/ethnicity	76,220	24,302	21,671	686	2,792	4,840	203	671	668	3,852	7,959	2,631	51,918	
Temporary resident	44,175	18,581	14,034	235	1,639	4,861	50	682	591	1,471	4,505	4,547	25,594	
Female	810,817	227,813	214,556	8,147	39,913	14,406	1,647	6,318	6,002	64,208	73,915	13,257	583,004	
White	546,765	143,951	136,381	6,696	25,579	5,719	1,367	4,392	3,813	43,819	44,996	7,570	402,814	
Asian/Pacific Islander	47,635	19,905	17,888	257	4,792	2,275	41	573	601	3,296	6,053	2,017	27,730	
Black	81,926	24,391	23,295	234	3,690	2,667	40	447	592	6,906	8,719	1,096	57,535	
Hispanic	64,818	18,534	17,426	363	2,915	1,009	62	308	450	5,660	6,659	1,108	46,284	
American Indian/Alaskan Native	5,957	1,744	1,654	86	257	93	20	22	29	469	678	90	4,213	
Other or unknown race/ethnicity	42,407	11,735	11,268	368	1,679	1,227	92	279	269	2,891	4,463	467	30,672	
Temporary resident	21,309	7,553	6,644	143	1,001	1,416	25	297	248	1,167	2,347	909	13,756	
Male	596,192	224,525	173,107	7,475	23,979	42,999	2,256	7,437	8,238	18,302	62,421	51,418	371,667	
White	416,122	150,154	115,867	6,444	16,331	24,638	1,971	5,247	6,020	12,696	42,520	34,287	265,968	
Asian/Pacific Islander	38,395	21,117	15,509	140	2,906	5,187	44	671	628	1,049	4,884	5,608	17,278	
Black	40,692	13,659	11,543	126	1,307	3,267	25	337	366	1,573	4,542	2,116	27,033	
Hispanic	40,347	14,543	11,181	261	1,539	2,526	69	368	435	1,592	4,391	3,362	25,804	
American Indian/Alaskan Native	3,957	1,457	1,214	94	145	323	11	37	47	127	430	243	2,500	
Other or unknown race/ethnicity	33,813	12,567	10,403	318	1,113	3,613	111	392	399	961	3,496	2,164	21,246	
Temporary resident	22,866	11,028	7,390	92	638	3,445	25	385	343	304	2,158	3,638	11,838	
Female	57.6	50.4	55.3	52.2	62.5	25.1	42.2	45.9	42.1	77.8	54.2	20.5	61.1	
White	56.8	48.9	54.1	51.0	61.0	18.8	41.0	45.6	38.8	77.5	51.4	18.1	60.2	
Asian/Pacific Islander	55.4	48.5	53.6	64.7	62.2	30.5	48.2	46.1	48.9	75.9	55.3	26.5	61.6	
Black	66.8	64.1	66.9	65.0	73.8	44.9	61.5	57.0	61.8	81.4	65.7	34.1	68.0	
Hispanic	61.6	56.0	60.9	58.2	65.4	28.5	47.3	45.6	50.8	78.0	60.3	24.8	64.2	
American Indian/Alaskan Native	60.1	54.5	57.7	47.8	63.9	22.4	64.5	37.3	38.2	78.7	61.2	27.0	62.8	
Other or unknown race/ethnicity	55.6	48.3	52.0	53.6	60.1	25.4	45.3	41.6	40.3	75.1	56.1	17.7	59.1	
Temporary resident	48.2	40.6	47.3	60.9	61.1	29.1	50.0	43.5	42.0	79.3	52.1	20.0	53.7	

NOTES: Race/ethnicity breakouts are for U.S. citizens and permanent residents only. Temporary resident includes all racial/ethnic groups.

SOURCE: National Science Foundation, Division of Science Resources Statistics, special tabulations of U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Completions Survey, 2004.

TABLE C-15. First university degrees in selected countries, by sex and field: 2003

Country and sex	All fields	All S&E	Sciences	Agricultural	Computer	Life	Mathematics	Physical	Social/	Engineering	Non-S&E
				sciences	sciences	sciences	and statistics	sciences	behavioral		
Number of degrees											
Both sexes											
Australia	152,287	45,627	33,490	1,200	14,953	5,009	596	3,435	8,297	12,137	106,660
Austria	18,207	6,756	3,513	296	507	536	113	420	1,641	3,243	11,451
Belgium	24,384	9,013	5,392	485	484	1,062	194	644	2,523	3,621	15,371
Czech Republic	28,652	11,847	5,720	1,232	943	551	249	782	1,963	6,127	16,805
Denmark	24,904	4,713	2,958	134	193	316	74	490	1,751	1,755	20,191
Finland	34,975	12,480	4,873	782	1,379	360	205	537	1,610	7,607	22,495
France	328,784	118,954	75,047	327	7,536	17,196	8,077	12,276	29,635	43,907	209,830
Germany	183,322	66,530	32,982	2,424	7,603	4,870	3,027	6,182	8,876	33,548	116,792
Hungary	52,812	11,055	6,561	1,785	584	186	54	624	3,328	4,494	41,757
Iceland	2,001	544	423	16	121	59	11	35	181	121	1,457
Ireland	24,915	7,636	5,409	166	2,346	1,486	40	615	756	2,227	17,279
Italy	201,019	72,199	36,837	2,529	2,423	6,805	3,343	3,455	18,282	35,362	128,820
Mexico	280,589	86,588	39,474	3,533	24,211	5,937	725	948	4,110	47,114	194,001
Netherlands	82,425	20,065	11,835	1,471	1,620	1,012	290	1,221	6,221	8,230	62,360
New Zealand	20,925	6,422	5,200	199	1,623	510	196	712	1,960	1,222	14,503
Norway	23,306	6,102	3,839	114	1,503	56	3	29	2,134	2,263	17,204
Poland	269,861	87,774	57,073	4,869	5,879	2,286	2,235	4,842	36,962	30,701	182,087
Portugal	63,630	16,875	8,658	997	835	789	706	1,040	4,291	8,217	46,755
Slovak Republic	23,814	7,627	3,867	935	942	446	125	322	1,097	3,760	16,187
South Korea	258,126	115,770	45,270	2,387	4,934	8,567	5,197	8,468	15,717	70,500	142,356
Spain	209,373	70,693	38,549	4,770	7,519	4,607	2,027	5,323	14,303	32,144	138,680
Sweden	39,333	14,588	6,190	230	1,602	908	146	585	2,719	8,398	24,745
Switzerland	18,358	5,892	3,197	161	549	537	116	497	1,337	2,695	12,466
Turkey	143,813	53,773	37,292	4,524	1,402	2,773	4,100	6,425	18,068	16,481	90,040
United Kingdom	287,506	113,812	86,082	1,800	19,251	24,423	5,266	12,933	22,409	27,730	173,694
United States	1,348,322	466,501	380,529	14,259	57,791	62,134	12,863	18,129	215,353	85,972	881,821
Female											
Australia	85,951	17,946	15,009	530	3,895	3,025	232	1,777	5,550	2,937	68,005
Austria	9,107	2,367	1,814	143	48	350	47	107	1,119	553	6,740
Belgium	12,751	3,683	2,944	219	43	616	99	285	1,682	739	9,068
Czech Republic	15,169	4,396	2,850	588	143	357	141	352	1,269	1,546	10,773
Denmark	16,748	1,842	1,462	66	60	196	24	134	982	380	14,906
Finland	22,038	4,249	2,683	336	597	266	95	274	1,115	1,566	17,789
France	190,019	51,618	40,810	171	1,668	10,500	3,573	4,914	19,984	10,808	138,401
Germany	90,822	22,021	14,329	987	1,147	2,981	1,574	2,320	5,320	7,692	68,801
Hungary	32,959	4,550	3,413	912	126	111	14	193	2,057	1,137	28,409
Iceland	1,334	254	222	9	32	43	3	14	121	32	1,080
Ireland	14,820	3,169	2,636	56	774	955	16	284	551	533	11,651
Italy	113,047	30,262	20,955	871	486	4,409	2,014	1,438	11,737	9,307	82,785
Mexico	150,038	30,962	17,758	854	10,170	3,540	377	370	2,447	13,204	119,076
Netherlands	46,879	6,167	5,260	580	238	578	88	298	3,478	907	40,712
New Zealand	13,035	3,021	2,613	57	420	323	96	370	1,347	408	10,014
Norway	14,874	2,152	1,557	30	304	39	0	13	1,171	595	12,722
Poland	168,108	42,466	35,262	2,859	1,036	1,850	1,534	2,952	25,031	7,204	125,642
Portugal	43,280	8,352	5,564	621	301	541	504	634	2,963	2,788	34,928
Slovak Republic	12,860	2,842	1,689	341	141	318	62	150	677	1,153	10,018
South Korea	123,431	38,858	21,397	915	2,008	4,125	2,976	3,959	7,414	17,461	84,573
Spain	123,987	29,488	19,883	1,924	1,649	2,994	1,160	2,889	9,267	9,605	94,499
Sweden	24,437	6,095	3,655	142	696	625	51	303	1,838	2,440	18,342
Switzerland	8,074	1,726	1,355	38	35	242	30	109	901	371	6,348

TABLE C-15. First university degrees in selected countries, by sex and field: 2003

Country and sex	All fields	All S&E	Sciences	Agricultural sciences	Computer sciences	Life sciences	Mathematics and statistics	Physical sciences	Social/behavioral		
									Engineering	Non-S&E	
Turkey	66,224	20,063	16,290	1,428	346	1,768	1,878	3,013	7,857	3,773	46,161
United Kingdom	161,002	47,028	41,847	989	4,601	15,967	2,209	5,530	12,551	5,181	113,974
United States	775,460	232,709	214,627	6,743	15,651	38,397	5,817	7,514	140,505	18,082	542,751
Male											
Australia	66,336	27,681	18,481	670	11,058	1,984	364	1,658	2,747	9,200	38,655
Austria	9,100	4,389	1,699	153	459	186	66	313	522	2,690	4,711
Belgium	11,633	5,330	2,448	266	441	446	95	359	841	2,882	6,303
Czech Republic	13,483	7,451	2,870	644	800	194	108	430	694	4,581	6,032
Denmark	8,156	2,871	1,496	68	133	120	50	356	769	1,375	5,285
Finland	12,937	8,231	2,190	446	782	94	110	263	495	6,041	4,706
France	138,765	67,336	34,237	156	5,868	6,696	4,504	7,362	9,651	33,099	71,429
Germany	92,500	44,509	18,653	1,437	6,456	1,889	1,453	3,862	3,556	25,856	47,991
Hungary	19,853	6,505	3,148	873	458	75	40	431	1,271	3,357	13,348
Iceland	667	290	201	7	89	16	8	21	60	89	377
Ireland	10,095	4,467	2,773	110	1,572	531	24	331	205	1,694	5,628
Italy	87,972	41,937	15,882	1,658	1,937	2,396	1,329	2,017	6,545	26,055	46,035
Mexico	130,551	55,626	21,716	2,679	14,051	2,397	348	578	1,663	33,910	74,925
Netherlands	35,546	13,898	6,575	891	1,382	434	202	923	2,743	7,323	21,648
New Zealand	7,890	3,401	2,587	142	1,203	187	100	342	613	814	4,489
Norway	8,432	3,950	2,282	84	1,199	17	3	16	963	1,668	4,482
Poland	101,753	45,308	21,811	2,010	4,843	436	701	1,890	11,931	23,497	56,445
Portugal	20,350	8,523	3,094	376	534	248	202	406	1,328	5,429	11,827
Slovak Republic	10,954	4,785	2,178	594	801	128	63	172	420	2,607	6,169
South Korea	134,695	76,912	23,873	1,472	2,926	4,442	2,221	4,509	8,303	53,039	57,783
Spain	85,386	41,205	18,666	2,846	5,870	1,613	867	2,434	5,036	22,539	44,181
Sweden	14,896	8,493	2,535	88	906	283	95	282	881	5,958	6,403
Switzerland	10,284	4,166	1,842	123	514	295	86	388	436	2,324	6,118
Turkey	77,589	33,710	21,002	3,096	1,056	1,005	2,222	3,412	10,211	12,708	43,879
United Kingdom	126,504	66,784	44,235	811	14,650	8,456	3,057	7,403	9,858	22,549	59,720
United States	572,862	233,792	165,902	7,516	42,140	23,737	7,046	10,615	74,848	67,890	339,070
Female							Percent				
Australia	56.4	39.3	44.8	44.2	26.0	60.4	38.9	51.7	66.9	24.2	63.8
Austria	50.0	35.0	51.6	48.3	9.5	65.3	41.6	25.5	68.3	17.1	58.9
Belgium	52.3	40.9	54.6	45.2	8.9	58.0	51.0	44.3	66.7	20.4	59.0
Czech Republic	52.9	37.1	49.8	47.7	15.2	64.8	56.6	45.0	64.6	25.2	64.1
Denmark	67.3	39.1	49.4	49.3	31.1	62.0	32.4	27.3	56.1	21.7	73.8
Finland	63.0	34.0	55.1	43.0	43.3	73.9	46.3	51.0	69.3	20.6	79.1
France	57.8	43.4	54.4	52.3	22.1	61.1	44.2	40.0	67.4	24.6	66.0
Germany	49.5	33.1	43.4	40.7	15.1	61.2	52.0	37.5	59.9	22.9	58.9
Hungary	62.4	41.2	52.0	51.1	21.6	59.7	25.9	30.9	61.8	25.3	68.0
Iceland	66.7	46.7	52.5	56.3	26.4	72.9	27.3	40.0	66.9	26.4	74.1
Ireland	59.5	41.5	48.7	33.7	33.0	64.3	40.0	46.2	72.9	23.9	67.4
Italy	56.2	41.9	56.9	34.4	20.1	64.8	60.2	41.6	64.2	26.3	64.3
Mexico	53.5	35.8	45.0	24.2	42.0	59.6	52.0	39.0	59.5	28.0	61.4
Netherlands	56.9	30.7	44.4	39.4	14.7	57.1	30.3	24.4	55.9	11.0	65.3
New Zealand	62.3	47.0	50.3	28.6	25.9	63.3	49.0	52.0	68.7	33.4	69.0
Norway	63.8	35.3	40.6	26.3	20.2	69.6	0.0	44.8	54.9	26.3	73.9
Poland	62.3	48.4	61.8	58.7	17.6	80.9	68.6	61.0	67.7	23.5	69.0
Portugal	68.0	49.5	64.3	62.3	36.0	68.6	71.4	61.0	69.1	33.9	74.7
Slovak Republic	54.0	37.3	43.7	36.5	15.0	71.3	49.6	46.6	61.7	30.7	61.9
South Korea	47.8	33.6	47.3	38.3	40.7	48.1	57.3	46.8	47.2	24.8	59.4
Spain	59.2	41.7	51.6	40.3	21.9	65.0	56.2	54.3	64.8	29.9	68.1
Sweden	62.1	41.8	59.0	61.7	43.4	68.8	34.9	51.8	67.6	29.1	74.1
Switzerland	44.0	29.3	42.4	23.6	6.4	45.1	25.9	21.9	67.4	13.8	50.9

TABLE C-15. First university degrees in selected countries, by sex and field: 2003

Country and sex	All fields	All S&E	Sciences	Agricultural	Computer	Life	Mathematics	Physical	Social/ behavioral	Engineering	Non-S&E
				sciences	sciences	sciences	and statistics	sciences			
Turkey	46.0	37.3	43.7	31.6	24.7	63.8	45.8	46.9	43.5	22.9	51.3
United Kingdom	56.0	41.3	48.6	54.9	23.9	65.4	41.9	42.8	56.0	18.7	65.6
United States	57.5	49.9	56.4	47.3	27.1	61.8	45.2	41.4	65.2	21.0	61.5

NOTE: United States numbers differ from those in other tables in this report because of differences in coverage of institutions and field taxonomy.

SOURCE: Organisation for Economic Co-operation and Development, Education Online database, 2005.

TABLE C-16. S&E associate's degrees awarded by leading institutions, by sex: 2000–2004

Academic institution	Associate's degrees	Academic institution	Associate's degrees
Female		Male	
All institutions	143,488	All institutions	279,253
Leading institutions	39,005	Leading institutions	66,934
Riverside Community College	2,105	Community College of the Air Force	7,845
Community College of the Air Force	1,530	Technical Career Institutes	3,296
Mt San Jacinto College	1,468	ECPI College of Technology	2,466
Keiser College	1,346	Purdue University main campus	2,205
Sacramento City College	1,270	DeVry College of Technology	2,184
Citrus College	1,213	New England Institute of Technology	2,071
Tidewater Community College	1,203	Keiser College	1,922
Sierra College	1,156	Texas State Technical College Waco	1,901
ECPI College of Technology	1,139	Pennsylvania College of Technology	1,506
San Jacinto College Central	1,089	Excelsior College	1,423
Moraine Valley Community College	1,080	CUNY New York City Technical College	1,381
CUNY La Guardia Community College	996	Southeast Community College Area	1,346
San Joaquin Delta College	880	Heald College San Jose	1,333
Butte College	863	Heald College Hayward	1,204
Napa Valley College	860	Pittsburgh Technical Institute	1,183
McHenry County College	814	Riverside Community College	1,182
Lewis and Clark Community College	801	ITT Technical Institute (Houston, TX)	1,179
College of the Canyons	753	Heald College Concord	1,077
CUNY New York City Technical College	750	Heald College San Francisco	1,062
Brookdale Community College	741	Heald College Roseville	1,047
Lake Land College	723	ITT Technical Institute (San Diego, CA)	1,044
Waubonsee Community College	713	Education America Tampa Technical Institute	1,022
Robert Morris College (Chicago, IL)	695	Ferris State University	1,022
Henry Ford Community College	690	Cincinnati State Technical and Community College	1,018
DeVry College of Technology	682	Macomb Community College	1,017
Southwestern Illinois College	647	ECPI Technical College (Richmond, VA)	997
Parkland College	634	Hocking Technical College	997
Tulsa Community College	622	Robert Morris College (Chicago, IL)	956
American River College	608	Sinclair Community College	938
CUNY Bronx Community College	599	Henry Ford Community College	937
Solano County Community College District	591	Salt Lake Community College	936
Oklahoma City Community College	588	Monroe Community College	924
Texas State Technical College Waco	586	Tidewater Community College	923
Richard Bland the College of William and Mary	583	Moraine Valley Community College	907
Brigham Young University Idaho	561	ITT Technical Institute (West Covina, CA)	890
Essex County College	558	Katharine Gibbs School New York City	880
Yeshiva University	535	Columbus State Community College	879
Laney College	529	Springfield Technical Community College	878
Merritt College	497	North Dakota State College of Science	872
John A Logan College	496	Brigham Young University Idaho	868
Victor Valley College	495	Coleman College	863
Lincoln Land Community College	493	Lincoln Technical Institute (Allentown, PA)	855
Modesto Junior College	489	DeVry University (Pomona, CA)	850
Kishwaukee College	487	ITT Technical Institute (San Bernardino, CA)	848
CUNY Borough of Manhattan Community College	483	Sacramento City College	847
CUNY Kingsborough Community College	478	ITT Technical Institute (Torrance, CA)	843
Illinois Eastern Community Colleges	475	DeVry University (Chicago, IL)	835
CUNY Queensborough Community College	472	ITT Technical Institute (Sylmar, CA)	831
Katharine Gibbs School New York City	471	DeVry University (Phoenix, AZ)	828
El Camino College	468	Wentworth Institute of Technology	808
Other institutions	104,483	ITT Technical Institute (Tampa, FL)	808
		Other institutions	212,319

NOTE: S&E includes science and engineering technologies and interdisciplinary fields. Institutions awarding the same number of degrees are listed alphabetically.

SOURCE: National Science Foundation, Division of Science Resources Statistics, special tabulations of U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Completions Survey, 2000–2004.

TABLE C-17. S&E associate's degrees awarded by leading institutions, by race/ethnicity of minority graduates: 2000–2004

Academic institution	Associate's degrees	Academic institution	Associate's degrees
Asian/Pacific Islander		Black	
All institutions	25,252	All institutions	43,641
Leading institutions	7,017	Leading institutions	11,472
Heald College San Jose	793	Technical Career Institutes	1,244
Honolulu Community College	783	ECPI College of Technology	1,168
Heald College San Francisco	542	Community College of the Air Force	1,088
Sacramento City College	470	CUNY New York City Technical College	1,006
Technical Career Institutes	386	Keiser College	789
San Joaquin Delta College	349	Katharine Gibbs School New York City	572
Heald College Concord	342	DeVry College of Technology	521
CUNY New York City Technical College	341	Robert Morris College (Chicago, IL)	520
Laney College	308	Essex County College	513
DeVry College of Technology	297	ECPI Technical College (Richmond, VA)	481
Heald College Hayward	297	Virginia College Birmingham	478
CUNY Queensborough Community College	294	Strayer University Washington	441
CUNY La Guardia Community College	279	CUNY Bronx Community College	383
Riverside Community College	261	Merritt College	362
College of Alameda	223	CUNY Borough of Manhattan Community College	357
Santa Ana College	216	CUNY Kingsborough Community College	352
Solano County Community College District	215	Tidewater Community College	310
DeVry University (Pomona, CA)	209	Central Texas College	302
Northern Virginia Community College	208	DeVry University (Decatur, GA)	293
Ohlone College	204	Riverside Community College	292
Other institutions	18,235	Other institutions	32,169
Hispanic		American Indian/Alaskan Native	
All institutions	42,367	All institutions	4,643
Leading institutions	10,689	Leading institutions	1,593
Technical Career Institutes	1,225	Diné College	322
Riverside Community College	816	Oglala Lakota College	137
South Texas Community College	783	Eastern Oklahoma State College	99
Huertas Junior College	692	Blackfeet Community College	89
Citrus College	638	San Juan College	82
ITT Technical Institute (Torrance, CA)	577	Tulsa Community College	76
CUNY La Guardia Community College	539	Haskell Indian Nations University	71
ITT Technical Institute (West Covina, CA)	472	Northeastern Oklahoma Agricultural and Mech Coll	69
Texas State Technical College Harlingen	472	Oklahoma City Community College	66
Katharine Gibbs School New York City	446	Albuquerque Technical Vocational Institute	64
DeVry College of Technology	444	Carl Albert State College	64
CUNY New York City Technical College	437	DeVry University (Phoenix, AZ)	60
CUNY Bronx Community College	437	ITT Technical Institute (Albuquerque, NM)	58
San Jacinto College Central	431	Seminole State College	53
ITT Technical Institute (Houston, TX)	418	Murray State College	52
ITT Technical Institute (Sylmar, CA)	386	Robeson Community College	52
Southwestern College (Chula Vista, CA)	385	College of the Redwoods	50
Mt San Jacinto College	384	Oklahoma State University Okmulgee	44
ITT Technical Institute (San Bernardino, CA)	356	Mt San Jacinto College	43
Albuquerque Technical Vocational Institute	351	Northern Oklahoma College	42
Other institutions	31,678	Other institutions	3,050

NOTE: S&E includes science and engineering technologies and interdisciplinary fields. Institutions awarding the same number of degrees are listed alphabetically.

SOURCE: National Science Foundation, Division of Science Resources Statistics, special tabulations of U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Completions Survey, 2000–2004.

TABLE C-18. S&E bachelor's degrees awarded by leading institutions, by sex: 2000–2004

Academic institution	Bachelor's degrees	Academic institution	Bachelor's degrees
Female		Male	
All institutions	1,062,900	All institutions	1,041,313
Leading institutions	265,782	Leading institutions	305,716
University of California Los Angeles	12,207	University of Texas at Austin	10,329
University of California Berkeley	9,570	University of California Los Angeles	10,030
University of California Davis	9,289	University of California Berkeley	9,817
University of Washington Seattle	8,916	Pennsylvania State University main campus	9,715
Rutgers University New Brunswick	8,369	University of Illinois at Urbana Champaign	9,583
University of Texas at Austin	7,642	University of Michigan Ann Arbor	8,935
University of California Irvine	7,609	University of Washington Seattle	8,827
University of Florida	7,304	Ohio State University main campus	8,633
University of California San Diego	7,258	Texas A & M University	8,475
University of Michigan Ann Arbor	7,100	Purdue University main campus	8,249
Michigan State University	6,792	Rutgers University New Brunswick	8,090
University of Illinois at Urbana Champaign	6,761	University of Maryland College Park	7,928
Texas A&M University	6,570	University of Florida	7,916
Ohio State University main campus	6,543	University of Wisconsin Madison	7,905
University of California Santa Barbara	6,401	North Carolina State University at Raleigh	7,884
University of Wisconsin Madison	6,356	Brigham Young University	7,517
University of Maryland College Park	6,014	University of California Davis	7,395
Pennsylvania State University main campus	5,883	Michigan State University	7,317
University of Colorado at Boulder	5,841	Virginia Polytechnic Institute and State University	7,094
University of Minnesota Twin Cities	5,533	University of California Irvine	7,087
North Carolina State University at Raleigh	4,899	University of Minnesota Twin Cities	6,772
San Diego State University	4,839	University of California San Diego	6,751
University of South Florida	4,797	Georgia Institute of Technology main campus	6,478
University of Arizona	4,684	University of Colorado at Boulder	5,928
University of Virginia main campus	4,505	Iowa State University	5,531
University of California Santa Cruz	4,433	University of Arizona	5,144
University of North Carolina at Chapel Hill	4,382	Cornell University Endowed Colleges	5,144
Boston University	4,281	University of Utah	5,064
Purdue University main campus	4,270	University of California Santa Barbara	4,874
Brigham Young University	4,224	California Polytechnic State University San Luis Obispo	4,845
Florida State University	4,173	Arizona State University main campus	4,840
University of Massachusetts Amherst	4,135	San Diego State University	4,712
Virginia Polytechnic Institute and State University	3,989	University of Virginia main campus	4,521
Arizona State University main campus	3,947	Auburn University main campus	4,517
University of Central Florida	3,818	Florida State University	4,328
California State University Northridge	3,799	University of Massachusetts Amherst	4,296
University of Pittsburgh main campus	3,752	University of Pittsburgh main campus	4,220
SUNY at Binghamton	3,747	Kansas State University	3,997
Indiana University Bloomington	3,646	University of Tennessee	3,989
New York University	3,608	Oregon State University	3,945
University of Georgia	3,564	Louisiana State University & A&M College	3,930
Colorado State University	3,538	University of Missouri Columbia	3,917
University of Oregon	3,487	SUNY at Buffalo	3,880
Cornell University Endowed Colleges	3,471	Colorado State University	3,710
San Francisco State University	3,389	University of South Florida	3,693
Washington State University	3,385	University of Central Florida	3,653
California State University Long Beach	3,287	United States Naval Academy	3,605
University of Tennessee	3,284	University of Pennsylvania	3,588
Louisiana State University & A&M College	3,264	Indiana University Bloomington	3,586
University of Pennsylvania	3,227	Harvard University	3,532
Other institutions	797,118	Other institutions	735,597

SOURCE: National Science Foundation, Division of Science Resources Statistics, special tabulations of U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Completions Survey, 2000–2004.

TABLE C-19. S&E bachelor's degrees awarded by leading institutions, by race/ethnicity of minority graduates: 2000–2004

Academic institution	Bachelor's degrees	Academic institution	Bachelor's degrees
Asian/Pacific Islander		Black	
All institutions	189,930	All institutions	175,460
Leading institutions	71,334	Leading institutions	28,072
University of California Los Angeles	8,838	Florida Agricultural and Mechanical University	2,231
University of California Berkeley	8,256	Howard University	1,738
University of California Irvine	8,180	Xavier University of Louisiana	1,725
University of California Davis	5,672	University of Maryland College Park	1,682
University of California San Diego	5,050	Southern University and A&M College	1,568
University of Washington Seattle	3,945	Morgan State University	1,546
Rutgers University New Brunswick	3,512	North Carolina Agricultural and Technical State University	1,498
University of Texas at Austin	3,190	Hampton University	1,490
University of Hawaii at Manoa	2,810	Spelman College	1,489
University of Illinois at Urbana Champaign	2,590	Georgia State University	1,476
University of Michigan Ann Arbor	2,422	Tennessee State University	1,400
San Jose State University	2,414	CUNY John Jay College Criminal Justice	1,293
University of Maryland College Park	2,096	Strayer University Washington	1,241
University of California Riverside	2,058	Rutgers University New Brunswick	1,225
University of Illinois at Chicago	1,835	Morehouse College	1,124
Cornell University Endowed Colleges	1,809	Tuskegee University	1,096
California State Polytechnic University Pomona	1,708	CUNY City College	1,085
University of California Santa Barbara	1,659	DeVry University (Decatur, GA)	1,083
Stanford University	1,648	Ohio State University main campus	1,046
SUNY at Stony Brook	1,642	North Carolina State University at Raleigh	1,036
Other institutions	118,596	Other institutions	147,388
Hispanic		American Indian/Alaskan Native	
All institutions	151,278	All institutions	14,114
Leading institutions	42,340	Leading institutions	3,638
University of Puerto Rico Mayaguez	6,003	Oklahoma State University main campus	409
University of Puerto Rico Rio Piedras	4,030	University of Oklahoma Norman	336
Florida International University	3,301	Northeastern State University	303
University of California Los Angeles	3,133	University of Washington Seattle	207
University of Texas at Austin	2,314	University of North Carolina at Pembroke	203
San Diego State University	1,878	University of Arizona	191
University of Texas at San Antonio	1,845	George Mason University	188
University of Florida	1,703	Fort Lewis College	184
University of California Berkeley	1,685	Southeastern Oklahoma State University	179
California State University Northridge	1,683	University of New Mexico main campus	172
University of California Santa Barbara	1,621	Arizona State University main campus	169
California State University Los Angeles	1,569	University of California Davis	150
University of Texas at El Paso	1,549	Northern Arizona University	149
University of California Davis	1,532	University of California Berkeley	126
Universidad Politecnica De Puerto Rico	1,510	DePaul University	123
University of California Irvine	1,459	University of California Los Angeles	120
University of Texas Pan American	1,445	New Mexico State University main campus	111
Texas A&M University	1,444	DeVry University (Pomona, CA)	110
University of Arizona	1,323	University of California Santa Barbara	107
University of California San Diego	1,313	University of Montana Missoula	101
Other institutions	108,938	Other institutions	10,476

SOURCE: National Science Foundation, Division of Science Resources Statistics, special tabulations of U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Completions Survey, 2000–2004.

TABLE D-1. S&E graduate students, by field, citizenship, and race/ethnicity: 1997–2004

Field, citizenship, and race/ethnicity	1997	1998	1999	2000	2001	2002	2003	2004
All S&E graduate students	407,630	404,856	411,182	413,536	429,242	454,892	474,694	476,331
Science	306,482	304,818	309,491	309,424	319,749	335,224	347,317	352,630
Agricultural sciences	12,203	12,168	12,312	12,023	12,235	12,698	13,197	13,445
Biological sciences	56,705	56,695	56,959	56,282	57,639	61,133	64,701	66,520
Anatomy	856	785	749	795	735	951	908	917
Biochemistry	5,102	5,148	5,101	4,966	4,917	5,190	5,552	5,612
Biology	14,646	14,277	13,989	13,407	13,352	13,822	14,770	15,438
Biometry and epidemiology	2,896	3,514	3,704	3,615	3,817	4,071	4,439	4,674
Biophysics	748	737	710	751	877	953	1,032	1,180
Botany	2,082	2,042	1,974	1,904	1,921	1,973	1,901	1,831
Cell and molecular biology	4,300	4,379	4,637	4,820	4,911	5,375	5,689	5,830
Ecology	1,640	1,670	1,704	1,762	1,888	1,967	2,230	2,185
Entomology and parasitology	1,161	1,168	1,145	1,104	1,170	1,191	1,206	1,241
Genetics	1,776	1,727	1,783	1,712	1,841	1,909	2,073	2,129
Microbiology, immunology, and virology	4,805	4,773	4,815	4,814	4,798	5,208	5,256	5,375
Nutrition	4,604	4,486	4,508	4,413	4,429	4,539	4,695	4,726
Pathology	1,674	1,580	1,580	1,531	1,637	1,613	1,541	1,540
Pharmacology	2,597	2,730	2,757	2,963	3,140	3,234	3,357	3,122
Physiology	2,298	2,151	2,083	2,015	1,967	2,076	2,328	2,441
Zoology	1,627	1,586	1,523	1,445	1,411	1,349	1,301	1,236
Other	3,893	3,942	4,197	4,265	4,828	5,712	6,423	7,043
Computer sciences	35,991	38,027	42,478	47,350	52,196	55,269	53,696	50,331
Earth, atmospheric, and ocean sciences	14,548	14,258	14,083	13,941	13,841	14,240	14,620	15,110
Atmospheric	1,092	965	913	963	924	1,036	1,150	1,086
Earth	6,959	6,687	6,637	6,596	6,544	6,712	6,889	7,337
Ocean	2,479	2,562	2,624	2,668	2,585	2,618	2,695	2,801
Other	4,018	4,044	3,909	3,714	3,788	3,874	3,886	3,886
Mathematics and statistics	16,719	16,485	16,257	15,650	16,651	18,163	19,465	19,873
Mathematics/applied mathematics	14,027	13,827	13,521	12,823	13,569	14,702	15,569	15,885
Statistics	2,692	2,658	2,736	2,827	3,082	3,461	3,896	3,988
Physical sciences	31,105	30,575	30,691	30,385	31,038	32,341	34,298	35,772
Astronomy	778	820	832	888	916	990	1,080	1,119
Chemistry	18,774	18,482	18,416	18,105	18,366	19,045	20,049	20,776
Physics	11,147	10,809	10,869	10,841	11,248	11,701	12,555	13,309
Other	406	464	574	551	508	605	614	568
Psychology	53,126	52,557	51,727	50,466	50,467	51,165	52,211	54,052
Clinical	13,098	12,733	12,798	12,488	12,488	12,609	13,118	13,671
General	17,249	17,098	16,238	15,624	15,837	15,159	15,580	16,276
Nonclinical	22,779	22,726	22,691	22,354	22,142	23,397	23,513	24,105
Social sciences	86,085	84,053	84,984	83,327	85,682	90,215	95,129	97,527
Agricultural economics	2,043	1,995	2,014	2,079	2,161	2,187	2,318	2,195
Anthropology (cultural and social)	7,560	7,577	7,633	7,626	7,491	7,481	7,789	7,826
Economics	11,097	10,701	10,562	10,748	11,408	12,009	12,316	12,250
Geography	4,287	4,326	4,250	4,036	4,304	4,383	4,721	4,809
History and philosophy of science	443	508	557	532	571	663	737	994
Linguistics	3,068	2,935	2,799	2,674	2,744	2,875	3,028	2,941
Political science and public administration	32,083	30,828	31,372	31,131	31,805	34,934	36,880	39,238
Sociology	9,413	9,058	8,966	8,652	8,812	8,946	9,127	8,895
Other	16,091	16,125	16,831	15,849	16,386	16,737	18,213	18,379
Engineering	101,148	100,038	101,691	104,112	109,493	119,668	127,377	123,701
Aerospace	3,083	3,137	3,349	3,407	3,451	3,685	4,048	4,089
Agricultural	941	925	934	899	907	912	1,012	998
Biomedical	2,847	2,905	3,121	3,241	3,639	4,378	5,347	5,892
Chemical	7,288	7,093	6,883	7,056	6,913	7,414	7,516	7,452
Civil	17,193	16,517	16,226	16,451	16,665	17,713	18,890	18,560
Electrical	30,787	31,384	31,822	33,611	36,100	39,948	41,763	38,995
Engineering science/physics	1,647	1,701	1,627	1,632	1,798	2,121	2,240	2,198
Industrial/manufacturing	11,957	11,221	11,803	12,119	12,940	14,033	14,313	13,852
Mechanical	15,045	14,696	14,956	15,235	15,852	17,139	18,393	17,946

TABLE D-1. S&E graduate students, by field, citizenship, and race/ethnicity: 1997–2004

Field, citizenship, and race/ethnicity	1997	1998	1999	2000	2001	2002	2003	2004
Metallurgical and materials	4,688	4,680	4,481	4,377	4,721	4,992	5,131	5,059
Mining	348	304	328	287	240	267	278	308
Nuclear	868	821	830	792	801	795	885	971
Petroleum	561	571	642	627	656	766	849	845
Other	3,895	4,083	4,689	4,378	4,810	5,505	6,712	6,536
U.S. citizens and permanent residents	308,668	302,879	301,254	290,711	294,711	309,280	327,358	333,231
Science	244,026	240,630	241,066	234,000	237,740	247,918	259,965	266,252
Agricultural sciences	9,414	9,514	9,774	9,612	9,722	10,085	10,601	10,765
Biological sciences	45,641	45,359	45,770	44,521	45,205	47,307	49,865	50,832
Anatomy	686	630	596	618	559	752	705	732
Biochemistry	3,691	3,695	3,646	3,377	3,332	3,459	3,655	3,634
Biology	12,609	12,197	11,997	11,353	11,159	11,377	12,201	12,698
Biometry and epidemiology	2,384	2,835	2,953	2,794	2,914	2,972	3,243	3,462
Biophysics	577	571	556	547	614	654	713	805
Botany	1,470	1,436	1,386	1,320	1,347	1,355	1,317	1,236
Cell and molecular biology	3,413	3,482	3,739	3,789	3,778	4,113	4,257	4,217
Ecology	1,471	1,498	1,530	1,576	1,694	1,749	1,958	1,913
Entomology and parasitology	871	877	843	824	895	908	920	938
Genetics	1,358	1,331	1,400	1,335	1,408	1,485	1,558	1,577
Microbiology, immunology, and virology	3,826	3,813	3,872	3,879	3,794	4,011	4,113	4,147
Nutrition	3,495	3,415	3,444	3,297	3,269	3,377	3,495	3,588
Pathology	1,380	1,292	1,285	1,230	1,344	1,314	1,210	1,224
Pharmacology	2,044	2,154	2,188	2,338	2,492	2,554	2,584	2,313
Physiology	1,875	1,713	1,629	1,569	1,536	1,622	1,807	1,910
Zoology	1,436	1,396	1,364	1,271	1,210	1,130	1,121	1,054
Other	3,055	3,024	3,342	3,404	3,860	4,475	5,008	5,384
Computer sciences	23,074	23,605	25,323	25,088	26,142	28,203	29,420	28,529
Earth, atmospheric, and ocean sciences	12,033	11,759	11,563	11,249	11,059	11,472	11,845	12,328
Atmospheric	801	710	639	659	639	730	869	819
Earth	5,666	5,443	5,413	5,294	5,189	5,333	5,456	5,890
Ocean	1,972	2,029	2,108	2,142	2,071	2,152	2,206	2,304
Other	3,594	3,577	3,403	3,154	3,160	3,257	3,314	3,315
Mathematics and statistics	11,175	11,064	10,330	9,593	10,167	11,139	12,057	12,519
Mathematics/applied mathematics	9,521	9,447	8,861	8,146	8,722	9,488	10,264	10,608
Statistics	1,654	1,617	1,469	1,447	1,445	1,651	1,793	1,911
Physical sciences	20,210	19,837	19,559	18,730	18,835	19,251	20,213	21,223
Astronomy	593	607	593	617	633	687	747	749
Chemistry	12,662	12,457	12,331	11,883	11,797	11,792	12,210	12,703
Physics	6,608	6,379	6,140	5,757	5,991	6,259	6,744	7,279
Other	347	394	495	473	414	513	512	492
Psychology	51,118	50,371	49,488	48,203	47,946	48,308	49,099	50,887
Clinical	12,763	12,370	12,402	12,098	12,060	12,014	12,499	13,239
General	16,582	16,403	15,518	14,812	14,903	14,177	14,472	14,902
Nonclinical	21,773	21,598	21,568	21,293	20,983	22,117	22,128	22,746
Social sciences	71,361	69,121	69,259	67,004	68,664	72,153	76,865	79,169
Agricultural economics	1,123	1,091	1,089	1,065	1,109	1,141	1,221	1,202
Anthropology (cultural and social)	6,858	6,838	6,810	6,797	6,722	6,634	6,967	6,964
Economics	5,714	5,461	5,029	4,941	5,124	5,389	5,699	5,712
Geography	3,763	3,767	3,652	3,408	3,579	3,636	3,937	4,020
History and philosophy of science	376	441	498	463	501	595	668	925
Linguistics	2,086	1,912	1,837	1,714	1,782	1,893	2,065	1,937
Political science and public administration	28,657	27,276	27,453	26,972	27,582	30,280	32,003	34,242
Sociology	8,252	7,949	7,790	7,397	7,505	7,625	7,782	7,626
Other	14,532	14,386	15,101	14,247	14,760	14,960	16,523	16,541
Engineering	64,642	62,249	60,188	56,711	56,971	61,362	67,393	66,979
Aerospace	1,765	1,720	1,817	1,894	1,805	1,999	2,361	2,401
Agricultural	521	519	526	513	497	495	531	522
Biomedical	2,137	2,177	2,254	2,281	2,503	2,856	3,434	3,832

TABLE D-1. S&E graduate students, by field, citizenship, and race/ethnicity: 1997–2004

Field, citizenship, and race/ethnicity	1997	1998	1999	2000	2001	2002	2003	2004
Chemical	4,424	4,208	3,869	3,726	3,418	3,701	3,753	3,830
Civil	12,090	11,555	10,801	10,306	10,072	10,553	11,458	11,454
Electrical	18,032	17,459	16,517	15,315	15,534	16,579	18,118	17,205
Engineering science/physics	1,199	1,149	1,093	955	1,054	1,239	1,230	1,187
Industrial/manufacturing	8,616	7,869	8,073	7,574	7,607	8,318	8,845	8,757
Mechanical	9,351	9,046	8,760	8,097	8,183	8,604	9,643	9,770
Metallurgical and materials	2,721	2,670	2,438	2,265	2,385	2,482	2,546	2,502
Mining	223	228	219	155	136	165	167	189
Nuclear	565	527	498	457	445	464	532	616
Petroleum	149	123	148	265	267	298	174	194
Other	2,849	2,999	3,175	2,908	3,065	3,609	4,601	4,520
White	228,007	220,667	216,750	205,569	206,027	213,162	222,709	224,982
Science	181,914	176,569	174,687	166,486	167,568	172,603	179,240	181,741
Agricultural sciences	7,990	8,093	8,383	8,152	8,147	8,486	8,799	8,936
Biological sciences	34,778	34,323	34,319	33,255	33,193	34,586	35,809	36,049
Anatomy	518	484	447	470	440	525	503	502
Biochemistry	2,669	2,742	2,665	2,532	2,373	2,509	2,515	2,587
Biology	9,463	9,122	8,929	8,447	8,309	8,468	8,921	9,139
Biometry and epidemiology	1,646	1,911	2,022	1,851	1,920	1,964	2,155	2,237
Biophysics	415	377	383	374	425	460	502	586
Botany	1,271	1,210	1,189	1,133	1,122	1,087	1,065	968
Cell and molecular biology	2,669	2,626	2,773	2,708	2,628	2,816	2,860	2,883
Ecology	1,279	1,325	1,363	1,360	1,466	1,507	1,634	1,597
Entomology and parasitology	749	778	757	733	764	794	800	816
Genetics	1,098	1,063	1,022	977	1,029	1,084	1,107	1,132
Microbiology, immunology, and virology	2,845	2,849	2,791	2,799	2,658	2,814	2,832	2,865
Nutrition	2,750	2,647	2,667	2,566	2,445	2,546	2,575	2,532
Pathology	1,044	961	926	906	962	937	834	863
Pharmacology	1,543	1,568	1,589	1,731	1,779	1,795	1,809	1,564
Physiology	1,283	1,220	1,119	1,064	1,035	1,086	1,210	1,243
Zoology	1,318	1,216	1,240	1,147	1,088	1,006	985	932
Other	2,218	2,224	2,437	2,457	2,750	3,188	3,502	3,603
Computer sciences	14,062	13,948	14,377	14,468	15,057	15,962	17,260	17,043
Earth, atmospheric, and ocean sciences	10,402	10,098	10,007	9,812	9,573	9,799	9,963	10,327
Atmospheric	657	601	552	557	547	623	713	663
Earth	4,989	4,776	4,796	4,720	4,603	4,639	4,691	5,096
Ocean	1,699	1,732	1,815	1,872	1,769	1,845	1,871	1,933
Other	3,057	2,989	2,844	2,663	2,654	2,692	2,688	2,635
Mathematics and statistics	8,351	8,097	7,659	6,955	7,386	7,923	8,414	8,832
Mathematics/applied mathematics	7,074	6,899	6,560	5,905	6,313	6,758	7,130	7,556
Statistics	1,277	1,198	1,099	1,050	1,073	1,165	1,284	1,276
Physical sciences	15,767	15,218	15,037	14,343	14,248	14,620	15,107	15,723
Astronomy	514	507	511	523	527	570	610	631
Chemistry	9,712	9,484	9,394	9,028	8,977	8,926	8,955	9,170
Physics	5,268	4,967	4,840	4,514	4,485	4,789	5,209	5,598
Other	273	260	292	278	259	335	333	324
Psychology	38,724	37,622	36,267	33,801	33,578	33,473	33,587	33,636
Clinical	9,848	9,353	9,212	8,662	8,361	8,185	8,472	8,636
General	12,667	12,302	11,548	10,582	10,639	10,200	10,115	10,154
Nonclinical	16,209	15,967	15,507	14,557	14,578	15,088	15,000	14,846
Social sciences	51,840	49,170	48,638	45,700	46,386	47,754	50,301	51,195
Agricultural economics	906	860	881	866	888	914	998	965
Anthropology (cultural and social)	5,641	5,549	5,440	5,311	5,190	5,153	5,316	5,253
Economics	4,201	3,828	3,595	3,448	3,504	3,567	3,780	3,845
Geography	3,266	3,211	3,131	2,906	3,048	3,068	3,255	3,315
History and philosophy of science	303	380	424	386	414	426	514	700
Linguistics	1,518	1,404	1,375	1,237	1,293	1,335	1,418	1,349
Political science and public administration	19,984	18,526	18,317	17,401	17,635	18,785	19,525	20,472

TABLE D-1. S&E graduate students, by field, citizenship, and race/ethnicity: 1997–2004

Field, citizenship, and race/ethnicity	1997	1998	1999	2000	2001	2002	2003	2004
Sociology	5,840	5,455	5,304	4,982	5,095	5,081	5,132	5,030
Other	10,181	9,957	10,171	9,163	9,319	9,425	10,363	10,266
Engineering	46,093	44,098	42,063	39,083	38,459	40,559	43,469	43,241
Aerospace	1,440	1,391	1,437	1,451	1,434	1,512	1,747	1,791
Agricultural	385	403	423	400	375	397	431	430
Biomedical	1,567	1,623	1,664	1,631	1,695	1,924	2,196	2,363
Chemical	3,365	3,124	2,805	2,627	2,417	2,565	2,554	2,666
Civil	9,208	8,665	8,088	7,759	7,492	7,707	8,333	8,264
Electrical	11,092	10,729	9,897	8,982	8,876	9,121	9,709	9,444
Engineering science/physics	881	843	787	673	717	893	928	865
Industrial/manufacturing	6,391	5,764	5,761	5,329	5,255	5,668	5,680	5,484
Mechanical	6,979	6,657	6,491	6,005	5,932	6,254	6,883	6,991
Metallurgical and materials	2,019	2,079	1,935	1,751	1,839	1,882	1,909	1,818
Mining	161	151	162	133	115	136	138	157
Nuclear	475	449	424	382	364	383	439	492
Petroleum	105	101	124	110	112	121	125	123
Other	2,025	2,119	2,065	1,850	1,836	1,996	2,397	2,353
Asian/Pacific Islander	26,012	26,726	27,570	25,058	26,584	29,352	31,921	31,508
Science	17,879	18,714	19,409	17,784	18,577	19,968	21,151	21,215
Agricultural sciences	309	315	310	250	262	286	316	340
Biological sciences	4,479	4,439	4,476	4,246	4,710	4,855	5,158	5,354
Anatomy	87	64	71	74	63	112	91	101
Biochemistry	566	527	541	423	477	412	466	449
Biology	882	817	793	721	725	731	819	907
Biometry and epidemiology	312	357	387	424	444	497	488	554
Biophysics	86	90	100	101	129	119	126	113
Botany	69	82	73	73	94	119	108	101
Cell and molecular biology	384	467	496	508	527	584	601	567
Ecology	48	50	45	42	47	43	55	51
Entomology and parasitology	41	37	19	24	46	27	29	34
Genetics	133	128	161	109	147	168	193	185
Microbiology, immunology, and virology	475	444	412	417	479	467	492	487
Nutrition	285	269	255	224	254	246	299	329
Pathology	171	166	180	155	181	188	183	181
Pharmacology	245	299	288	289	365	374	341	303
Physiology	333	265	276	268	288	309	331	379
Zoology	38	48	33	27	32	29	31	40
Other	324	329	346	367	412	430	505	573
Computer sciences	4,626	5,219	6,144	5,332	5,427	5,953	5,767	5,167
Earth, atmospheric, and ocean sciences	417	424	400	351	341	355	363	436
Atmospheric	56	55	41	41	26	31	54	59
Earth	166	153	144	132	139	149	126	149
Ocean	60	62	67	64	51	64	48	69
Other	135	154	148	114	125	111	135	159
Mathematics and statistics	1,051	1,174	1,002	948	985	1,184	1,364	1,332
Mathematics/applied mathematics	820	939	799	742	826	958	1,124	1,029
Statistics	231	235	203	206	159	226	240	303
Physical sciences	1,638	1,760	1,682	1,524	1,458	1,424	1,619	1,752
Astronomy	39	32	31	33	36	44	53	38
Chemistry	1,106	1,179	1,133	1,079	983	950	1,103	1,188
Physics	467	528	490	393	422	405	431	501
Other	26	21	28	19	17	25	32	25
Psychology	1,909	2,019	2,038	2,063	2,176	2,186	2,376	2,444
Clinical	557	553	579	569	578	554	610	671
General	610	703	675	712	739	674	793	813
Nonclinical	742	763	784	782	859	958	973	960

TABLE D-1. S&E graduate students, by field, citizenship, and race/ethnicity: 1997–2004

Field, citizenship, and race/ethnicity	1997	1998	1999	2000	2001	2002	2003	2004
Social sciences	3,450	3,364	3,357	3,070	3,218	3,725	4,188	4,390
Agricultural economics	49	54	53	30	29	39	39	45
Anthropology (cultural and social)	236	241	256	260	253	252	283	295
Economics	552	611	597	476	495	584	655	617
Geography	119	87	101	85	99	114	140	144
History and philosophy of science	21	22	20	20	21	28	29	48
Linguistics	212	187	148	106	154	183	215	175
Political science and public administration	1,264	1,180	1,163	1,206	1,225	1,489	1,622	1,802
Sociology	399	405	398	352	360	375	443	391
Other	598	577	621	535	582	661	762	873
Engineering	8,133	8,012	8,161	7,274	8,007	9,384	10,770	10,293
Aerospace	153	140	153	206	138	186	207	212
Agricultural	47	43	41	38	44	39	35	47
Biomedical	313	268	308	361	427	496	644	844
Chemical	512	469	486	501	494	566	557	528
Civil	1,050	1,104	931	744	771	855	1,024	1,022
Electrical	3,489	3,443	3,491	3,119	3,454	4,079	4,606	4,106
Engineering science/physics	202	187	170	103	123	161	152	163
Industrial/manufacturing	739	643	784	628	686	878	1,023	974
Mechanical	947	973	1,008	804	945	912	1,035	1,016
Metallurgical and materials	295	272	240	246	244	298	316	345
Mining	46	57	50	11	12	21	5	6
Nuclear	38	36	22	24	27	31	30	42
Petroleum	16	7	11	38	39	44	12	24
Other	286	370	466	451	603	818	1,124	964
Black	19,341	19,651	20,273	20,834	21,459	22,673	24,174	24,695
Science	16,462	16,830	17,308	17,857	18,544	19,599	20,962	21,283
Agricultural sciences	288	344	310	292	327	375	460	394
Biological sciences	2,105	2,141	2,218	2,241	2,351	2,480	2,757	2,886
Anatomy	35	30	31	31	20	38	37	51
Biochemistry	126	143	140	144	129	123	159	156
Biology	763	741	744	745	755	690	796	780
Biometry and epidemiology	154	174	188	164	176	201	229	263
Biophysics	17	18	17	17	17	18	17	23
Botany	30	28	22	16	24	29	26	18
Cell and molecular biology	115	126	114	135	143	160	168	186
Ecology	11	17	22	24	26	24	43	27
Entomology and parasitology	14	11	17	14	15	17	15	11
Genetics	43	51	55	57	56	60	75	68
Microbiology, immunology, and virology	194	172	186	191	178	218	245	244
Nutrition	196	213	218	208	231	252	246	293
Pathology	39	44	49	44	51	52	56	59
Pharmacology	114	136	151	147	169	173	185	192
Physiology	101	95	78	102	98	94	102	104
Zoology	11	14	16	13	10	16	11	11
Other	142	128	170	189	253	315	347	400
Computer sciences	1,300	1,355	1,485	1,512	1,709	1,898	1,951	1,818
Earth, atmospheric, and ocean sciences	203	202	213	220	227	266	270	260
Atmospheric	12	8	7	18	19	25	32	36
Earth	56	59	62	56	57	64	75	83
Ocean	26	25	28	28	31	36	35	30
Other	109	110	116	118	120	141	128	111
Mathematics and statistics	657	613	594	572	590	626	655	692
Mathematics/applied mathematics	607	561	543	509	525	546	561	579
Statistics	50	52	51	63	65	80	94	113
Physical sciences	952	913	903	918	875	893	939	995
Astronomy	11	9	9	9	12	10	9	10
Chemistry	667	635	633	650	631	636	663	713

TABLE D-1. S&E graduate students, by field, citizenship, and race/ethnicity: 1997–2004

Field, citizenship, and race/ethnicity	1997	1998	1999	2000	2001	2002	2003	2004
Physics	245	242	234	235	211	220	236	248
Other	29	27	27	24	21	27	31	24
Psychology	3,644	3,813	3,749	4,214	4,347	4,491	4,692	4,994
Clinical	736	725	710	756	740	786	853	894
General	1,544	1,507	1,405	1,463	1,489	1,532	1,573	1,828
Nonclinical	1,364	1,581	1,634	1,995	2,118	2,173	2,266	2,272
Social sciences	7,313	7,449	7,836	7,888	8,118	8,570	9,238	9,244
Agricultural economics	65	70	84	80	76	83	78	52
Anthropology (cultural and social)	254	266	291	270	274	248	276	271
Economics	324	317	291	317	314	322	363	381
Geography	83	108	92	86	114	112	141	150
History and philosophy of science	8	12	14	14	16	24	25	30
Linguistics	45	46	49	44	47	44	49	46
Political science and public administration	3,699	3,795	4,097	4,073	4,264	4,632	4,849	4,945
Sociology	1,053	1,114	1,061	984	1,001	1,032	1,080	1,056
Other	1,782	1,721	1,857	2,020	2,012	2,073	2,377	2,313
Engineering	2,879	2,821	2,965	2,977	2,915	3,074	3,212	3,412
Aerospace	35	34	52	57	45	51	59	68
Agricultural	21	27	23	23	26	24	27	22
Biomedical	83	86	104	114	122	144	159	195
Chemical	172	185	147	168	167	160	173	169
Civil	443	410	450	448	431	453	428	452
Electrical	874	874	886	830	812	846	812	861
Engineering science/physics	39	39	35	34	33	36	42	38
Industrial/manufacturing	489	465	541	557	591	616	685	714
Mechanical	428	412	375	396	354	358	382	369
Metallurgical and materials	112	75	92	94	107	112	110	105
Mining	0	1	1	5	1	1	2	5
Nuclear	21	13	15	17	13	11	12	20
Petroleum	8	5	5	7	4	6	11	21
Other	154	195	239	227	209	256	310	373
Hispanic	14,984	15,487	16,520	17,203	17,974	19,639	21,244	22,388
Science	12,172	12,587	13,596	14,185	14,791	16,178	17,265	18,187
Agricultural sciences	411	391	422	440	425	406	490	528
Biological sciences	1,987	2,053	2,185	2,183	2,338	2,590	2,830	3,033
Anatomy	15	15	26	24	21	43	42	39
Biochemistry	148	141	152	144	171	184	229	212
Biology	694	691	676	708	700	786	807	865
Biometry and epidemiology	135	159	164	167	149	170	196	195
Biophysics	17	14	17	14	20	20	28	30
Botany	47	54	47	36	42	47	38	63
Cell and molecular biology	113	122	153	157	181	213	225	243
Ecology	47	43	41	51	58	59	54	65
Entomology and parasitology	42	26	27	31	39	35	41	38
Genetics	44	53	59	57	68	67	61	62
Microbiology, immunology, and virology	170	187	201	196	220	243	272	295
Nutrition	155	172	186	152	162	167	201	245
Pathology	44	42	56	54	67	62	63	61
Pharmacology	85	88	92	112	116	127	134	144
Physiology	65	70	84	65	60	66	81	94
Zoology	30	36	31	28	29	28	32	28
Other	136	140	173	187	235	273	326	354
Computer sciences	723	754	865	863	894	1,004	1,101	1,160
Earth, atmospheric, and ocean sciences	399	370	400	355	397	413	484	537
Atmospheric	12	13	7	12	15	16	21	27
Earth	161	137	154	136	155	163	187	217
Ocean	116	108	132	113	137	131	158	161
Other	110	112	107	94	90	103	118	132

TABLE D-1. S&E graduate students, by field, citizenship, and race/ethnicity: 1997–2004

Field, citizenship, and race/ethnicity	1997	1998	1999	2000	2001	2002	2003	2004
Mathematics and statistics	427	454	447	460	482	542	604	618
Mathematics/applied mathematics	386	404	399	413	442	494	538	544
Statistics	41	50	48	47	40	48	66	74
Physical sciences	782	832	895	844	896	981	1,094	1,232
Astronomy	11	12	13	17	17	17	25	23
Chemistry	523	562	618	602	629	668	750	837
Physics	237	226	229	202	239	274	297	343
Other	11	32	35	23	11	22	22	29
Psychology	3,075	3,228	3,567	4,145	4,309	4,655	4,680	4,777
Clinical	925	1,119	1,182	1,403	1,492	1,588	1,624	1,737
General	909	911	931	969	1,006	926	987	1,035
Nonclinical	1,241	1,198	1,454	1,773	1,811	2,141	2,069	2,005
Social sciences	4,368	4,505	4,815	4,895	5,050	5,587	5,982	6,302
Agricultural economics	53	42	36	39	40	30	42	50
Anthropology (cultural and social)	338	344	327	368	383	409	436	455
Economics	277	276	247	238	306	332	369	358
Geography	91	98	111	103	107	123	151	143
History and philosophy of science	10	12	22	17	18	55	38	56
Linguistics	157	150	135	142	126	140	136	148
Political science and public administration	1,926	1,989	2,166	2,303	2,223	2,587	2,749	3,059
Sociology	581	602	641	607	608	655	664	635
Other	935	992	1,130	1,078	1,239	1,256	1,397	1,398
Engineering	2,812	2,900	2,924	3,018	3,183	3,461	3,979	4,201
Aerospace	71	76	80	80	71	92	119	118
Agricultural	17	15	16	22	27	22	14	8
Biomedical	56	80	86	92	102	114	155	181
Chemical	142	179	182	182	180	206	249	249
Civil	694	723	701	776	747	778	846	895
Electrical	810	812	769	717	825	941	1,094	1,097
Engineering science/physics	41	42	44	36	40	47	49	45
Industrial/manufacturing	396	364	426	439	469	477	562	629
Mechanical	360	389	388	366	407	450	537	606
Metallurgical and materials	86	84	75	84	80	79	98	98
Mining	7	4	2	2	3	3	3	10
Nuclear	22	22	28	30	34	26	31	28
Petroleum	10	6	5	59	63	57	13	15
Other	100	104	122	133	135	169	209	222
American Indian/Alaska Native	1,599	1,607	1,553	1,602	1,683	1,735	1,879	1,863
Science	1,360	1,371	1,311	1,394	1,456	1,491	1,575	1,584
Agricultural sciences	62	71	69	56	58	76	77	82
Biological sciences	197	191	186	189	205	211	236	249
Anatomy	3	3	3	4	3	3	4	2
Biochemistry	15	13	6	8	15	8	11	10
Biology	60	51	59	58	52	50	56	54
Biometry and epidemiology	11	7	7	11	11	14	16	15
Biophysics	1	1	1	1	1	2	1	7
Botany	3	3	4	3	9	10	10	10
Cell and molecular biology	9	11	9	13	11	12	14	18
Ecology	8	5	5	5	8	6	10	12
Entomology and parasitology	1	3	1	1	2	5	4	6
Genetics	6	4	4	6	7	7	12	13
Microbiology, immunology, and virology	10	18	15	21	13	24	14	18
Nutrition	12	16	15	13	15	14	13	9
Pathology	11	10	7	6	11	3	3	5
Pharmacology	5	6	14	8	10	15	19	21
Physiology	7	10	8	3	7	8	11	13
Zoology	12	9	7	7	8	6	8	7
Other	23	21	21	21	22	24	30	29

TABLE D-1. S&E graduate students, by field, citizenship, and race/ethnicity: 1997–2004

Field, citizenship, and race/ethnicity	1997	1998	1999	2000	2001	2002	2003	2004
Computer sciences	60	92	74	80	87	83	104	93
Earth, atmospheric, and ocean sciences	82	84	63	61	70	81	63	67
Atmospheric	2	2	2	3	4	4	5	4
Earth	38	36	26	27	32	36	26	33
Ocean	17	16	12	10	12	11	8	11
Other	25	30	23	21	22	30	24	19
Mathematics and statistics	43	34	30	25	38	24	25	39
Mathematics/applied mathematics	40	30	26	20	34	20	24	39
Statistics	3	4	4	5	4	4	1	0
Physical sciences	70	64	69	75	81	83	79	78
Astronomy	1	2	2	1	0	2	3	3
Chemistry	50	46	53	61	62	58	51	54
Physics	18	14	13	12	19	22	24	18
Other	1	2	1	1	0	1	1	3
Psychology	341	311	300	360	334	320	324	323
Clinical	111	112	93	104	92	101	107	92
General	109	93	96	124	104	87	93	104
Nonclinical	121	106	111	132	138	132	124	127
Social sciences	505	524	520	548	583	613	667	653
Agricultural economics	3	5	7	7	4	4	7	26
Anthropology (cultural and social)	103	119	105	109	102	89	99	105
Economics	16	16	13	17	21	28	31	30
Geography	15	13	14	20	28	26	22	24
History and philosophy of science	1	1	2	2	2	2	5	7
Linguistics	7	9	15	13	13	12	16	17
Political science and public administration	155	172	177	175	192	217	241	219
Sociology	76	68	66	68	66	68	65	56
Other	129	121	121	137	155	167	181	169
Engineering	239	236	242	208	227	244	304	279
Aerospace	3	7	8	8	8	11	15	16
Agricultural	8	4	1	3	3	2	2	1
Biomedical	6	7	8	5	5	6	7	16
Chemical	18	21	16	20	13	21	19	27
Civil	58	43	56	39	43	58	65	51
Electrical	46	33	47	37	45	39	63	54
Engineering science/physics	4	7	6	8	9	9	11	11
Industrial/manufacturing	23	34	39	41	43	34	52	48
Mechanical	35	25	33	27	32	32	42	24
Metallurgical and materials	11	33	10	5	8	11	8	6
Mining	0	0	0	1	0	3	4	1
Nuclear	3	2	2	1	0	2	1	3
Petroleum	2	2	0	1	1	1	0	0
Other	22	18	16	12	17	15	15	21
Other race/ethnicity	18,725	18,741	18,588	20,445	20,984	22,719	25,431	27,795
Science	14,239	14,559	14,755	16,294	16,804	18,079	19,772	22,242
Agricultural sciences	354	300	280	422	503	456	459	485
Biological sciences	2,095	2,212	2,386	2,407	2,408	2,585	3,075	3,261
Anatomy	28	34	18	15	12	31	28	37
Biochemistry	167	129	142	126	167	223	275	220
Biology	747	775	796	674	618	652	802	953
Biometry and epidemiology	126	227	185	177	214	126	159	198
Biophysics	41	71	38	40	22	35	39	46
Botany	50	59	51	59	56	63	70	76
Cell and molecular biology	123	130	194	268	288	328	389	320
Ecology	78	58	54	94	89	110	162	161
Entomology and parasitology	24	22	22	21	29	30	31	33
Genetics	34	32	99	129	101	99	110	117
Microbiology, immunology, and virology	132	143	267	255	246	245	258	238

TABLE D-1. S&E graduate students, by field, citizenship, and race/ethnicity: 1997–2004

Field, citizenship, and race/ethnicity	1997	1998	1999	2000	2001	2002	2003	2004
Nutrition	97	98	103	134	162	152	161	180
Pathology	71	69	67	65	72	72	71	55
Pharmacology	52	57	54	51	53	70	96	89
Physiology	86	53	64	67	48	59	72	77
Zoology	27	73	37	49	43	45	54	36
Other	212	182	195	183	188	245	298	425
Computer sciences	2,303	2,237	2,378	2,833	2,968	3,303	3,237	3,248
Earth, atmospheric, and ocean sciences	530	581	480	450	451	558	702	701
Atmospheric	62	31	30	28	28	31	44	30
Earth	256	282	231	223	203	282	351	312
Ocean	54	86	54	55	71	65	86	100
Other	158	182	165	144	149	180	221	259
Mathematics and statistics	646	692	598	633	686	840	995	1,006
Mathematics/applied mathematics	594	614	534	557	582	712	887	861
Statistics	52	78	64	76	104	128	108	145
Physical sciences	1,001	1,050	973	1,026	1,277	1,250	1,375	1,443
Astronomy	17	45	27	34	41	44	47	44
Chemistry	604	551	500	463	515	554	688	741
Physics	373	402	334	401	615	549	547	571
Other	7	52	112	128	106	103	93	87
Psychology	3,425	3,378	3,567	3,620	3,202	3,183	3,440	4,713
Clinical	586	508	626	604	797	800	833	1,209
General	743	887	863	962	926	758	911	968
Nonclinical	2,096	1,983	2,078	2,054	1,479	1,625	1,696	2,536
Social sciences	3,885	4,109	4,093	4,903	5,309	5,904	6,489	7,385
Agricultural economics	47	60	28	43	72	71	57	64
Anthropology (cultural and social)	286	319	391	479	520	483	557	585
Economics	344	413	286	445	484	556	501	481
Geography	189	250	203	208	183	193	228	244
History and philosophy of science	33	14	16	24	30	60	57	84
Linguistics	147	116	115	172	149	179	231	202
Political science and public administration	1,629	1,614	1,533	1,814	2,043	2,570	3,017	3,745
Sociology	303	305	320	404	375	414	398	458
Other	907	1,018	1,201	1,314	1,453	1,378	1,443	1,522
Engineering	4,486	4,182	3,833	4,151	4,180	4,640	5,659	5,553
Aerospace	63	72	87	92	109	147	214	196
Agricultural	43	27	22	27	22	11	22	14
Biomedical	112	113	84	78	152	172	273	233
Chemical	215	230	233	228	147	183	201	191
Civil	637	610	575	540	588	702	762	770
Electrical	1,721	1,568	1,427	1,630	1,522	1,553	1,834	1,643
Engineering science/physics	32	31	51	101	132	93	48	65
Industrial/manufacturing	578	599	522	580	563	645	843	908
Mechanical	602	590	465	499	513	598	764	764
Metallurgical and materials	198	127	86	85	107	100	105	130
Mining	9	15	4	3	5	1	15	10
Nuclear	6	5	7	3	7	11	19	31
Petroleum	8	2	3	50	48	69	13	11
Other	262	193	267	235	265	355	546	587
Temporary residents	98,962	101,977	109,928	122,825	134,531	145,612	147,336	143,100
Sciences	62,456	64,188	68,425	75,424	82,009	87,306	87,352	86,378
Agricultural sciences	2,789	2,654	2,538	2,411	2,513	2,613	2,596	2,680
Biological sciences	11,064	11,336	11,189	11,761	12,434	13,826	14,836	15,688
Anatomy	170	155	153	177	176	199	203	185
Biochemistry	1,411	1,453	1,455	1,589	1,585	1,731	1,897	1,978
Biology	2,037	2,080	1,992	2,054	2,193	2,445	2,569	2,740
Biometry and epidemiology	512	679	751	821	903	1,099	1,196	1,212
Biophysics	171	166	154	204	263	299	319	375

TABLE D-1. S&E graduate students, by field, citizenship, and race/ethnicity: 1997–2004

Field, citizenship, and race/ethnicity	1997	1998	1999	2000	2001	2002	2003	2004
Botany	612	606	588	584	574	618	584	595
Cell and molecular biology	887	897	898	1,031	1,133	1,262	1,432	1,613
Ecology	169	172	174	186	194	218	272	272
Entomology and parasitology	290	291	302	280	275	283	286	303
Genetics	418	396	383	377	433	424	515	552
Microbiology, immunology, and virology	979	960	943	935	1,004	1,197	1,143	1,228
Nutrition	1,109	1,071	1,064	1,116	1,160	1,162	1,200	1,138
Pathology	294	288	295	301	293	299	331	316
Pharmacology	553	576	569	625	648	680	773	809
Physiology	423	438	454	446	431	454	521	531
Zoology	191	190	159	174	201	219	180	182
Other	838	918	855	861	968	1,237	1,415	1,659
Computer sciences	12,917	14,422	17,155	22,262	26,054	27,066	24,276	21,802
Earth, atmospheric, and ocean sciences	2,515	2,499	2,520	2,692	2,782	2,768	2,775	2,782
Atmospheric	291	255	274	304	285	306	281	267
Earth	1,293	1,244	1,224	1,302	1,355	1,379	1,433	1,447
Ocean	507	533	516	526	514	466	489	497
Other	424	467	506	560	628	617	572	571
Mathematics and statistics	5,544	5,421	5,927	6,057	6,484	7,024	7,408	7,354
Mathematics/applied mathematics	4,506	4,380	4,660	4,677	4,847	5,214	5,305	5,277
Statistics	1,038	1,041	1,267	1,380	1,637	1,810	2,103	2,077
Physical sciences	10,895	10,738	11,132	11,655	12,203	13,090	14,085	14,549
Astronomy	185	213	239	271	283	303	333	370
Chemistry	6,112	6,025	6,085	6,222	6,569	7,253	7,839	8,073
Physics	4,539	4,430	4,729	5,084	5,257	5,442	5,811	6,030
Other	59	70	79	78	94	92	102	76
Psychology	2,008	2,186	2,239	2,263	2,521	2,857	3,112	3,165
Clinical	335	363	396	390	428	595	619	432
General	667	695	720	812	934	982	1,108	1,374
Nonclinical	1,006	1,128	1,123	1,061	1,159	1,280	1,385	1,359
Social sciences	14,724	14,932	15,725	16,323	17,018	18,062	18,264	18,358
Agricultural economics	920	904	925	1,014	1,052	1,046	1,097	993
Anthropology (cultural and social)	702	739	823	829	769	847	822	862
Economics	5,383	5,240	5,533	5,807	6,284	6,620	6,617	6,538
Geography	524	559	598	628	725	747	784	789
History and philosophy of science	67	67	59	69	70	68	69	69
Linguistics	982	1,023	962	960	962	982	963	1,004
Political science and public administration	3,426	3,552	3,919	4,159	4,223	4,654	4,877	4,996
Sociology	1,161	1,109	1,176	1,255	1,307	1,321	1,345	1,269
Other	1,559	1,739	1,730	1,602	1,626	1,777	1,690	1,838
Engineering	36,506	37,789	41,503	47,401	52,522	58,306	59,984	56,722
Aerospace	1,318	1,417	1,532	1,513	1,646	1,686	1,687	1,688
Agricultural	420	406	408	386	410	417	481	476
Biomedical	710	728	867	960	1,136	1,522	1,913	2,060
Chemical	2,864	2,885	3,014	3,330	3,495	3,713	3,763	3,622
Civil	5,103	4,962	5,425	6,145	6,593	7,160	7,432	7,106
Electrical	12,755	13,925	15,305	18,296	20,566	23,369	23,645	21,790
Engineering science/physics	448	552	534	677	744	882	1,010	1,011
Industrial/manufacturing	3,341	3,352	3,730	4,545	5,333	5,715	5,468	5,095
Mechanical	5,694	5,650	6,196	7,138	7,669	8,535	8,750	8,176
Metallurgical and materials	1,967	2,010	2,043	2,112	2,336	2,510	2,585	2,557
Mining	125	76	109	132	104	102	111	119
Nuclear	303	294	332	335	356	331	353	355
Petroleum	412	448	494	362	389	468	675	651
Other	1,046	1,084	1,514	1,470	1,745	1,896	2,111	2,016

NOTES: Race/ethnicity breakouts are for U.S. citizens and permanent residents only. Temporary residents include all racial/ethnic groups.

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering, 1997–2004.

TABLE D-2. Female S&E graduate students, by field, citizenship, and race/ethnicity: 1997–2004

Field, citizenship, and race/ethnicity	1997	1998	1999	2000	2001	2002	2003	2004
All female S&E graduate students	162,011	163,427	168,396	170,479	177,430	188,644	198,434	202,020
Science	143,291	144,439	148,509	149,733	155,173	163,677	170,847	174,702
Agricultural sciences	4,706	4,852	5,049	5,088	5,343	5,653	6,026	6,258
Biological sciences	28,476	28,953	29,621	29,807	31,049	33,427	35,883	37,249
Anatomy	383	342	345	367	352	467	466	480
Biochemistry	2,176	2,229	2,266	2,231	2,223	2,422	2,595	2,643
Biology	7,287	7,213	7,143	7,006	7,189	7,514	8,158	8,605
Biometry/epidemiology	1,776	2,153	2,323	2,241	2,427	2,552	2,771	2,867
Biophysics	216	209	213	231	262	306	339	434
Botany	996	1,011	982	986	974	1,019	996	974
Cell/molecular biology	2,055	2,141	2,360	2,494	2,521	2,791	3,006	3,095
Ecology	798	830	881	916	979	1,039	1,208	1,192
Entomology/parasitology	410	414	406	442	480	492	537	565
Genetics	968	983	1,016	973	1,046	1,112	1,216	1,283
Microbiology, immunology, and virology	2,396	2,371	2,450	2,432	2,495	2,808	2,933	3,053
Nutrition	3,460	3,413	3,431	3,379	3,436	3,512	3,658	3,680
Pathology	832	804	804	829	895	906	910	911
Pharmacology	1,229	1,325	1,343	1,516	1,658	1,773	1,818	1,694
Physiology	934	886	898	882	911	994	1,144	1,248
Zoology	703	694	670	642	667	638	645	640
Other	1,857	1,935	2,090	2,240	2,534	3,082	3,483	3,885
Computer sciences	9,881	10,802	12,545	14,080	15,302	16,025	14,816	13,366
Earth, atmospheric, and ocean sciences	5,416	5,568	5,725	5,753	5,892	6,247	6,538	6,928
Atmospheric	263	234	242	268	298	333	374	363
Earth	2,296	2,315	2,400	2,455	2,483	2,613	2,764	3,055
Ocean	1,055	1,162	1,222	1,267	1,255	1,309	1,392	1,509
Other	1,802	1,857	1,861	1,763	1,856	1,992	2,008	2,001
Mathematics and statistics	5,868	5,988	6,043	5,780	6,270	6,886	7,289	7,486
Mathematics/applied mathematics	4,783	4,895	4,862	4,508	4,818	5,239	5,406	5,585
Statistics	1,085	1,093	1,181	1,272	1,452	1,647	1,883	1,901
Physical sciences	8,848	8,753	8,915	9,115	9,336	10,066	10,778	11,298
Astronomy	208	230	225	267	265	302	345	355
Chemistry	6,722	6,564	6,617	6,756	6,855	7,325	7,839	8,232
Physics	1,744	1,780	1,876	1,910	2,042	2,201	2,366	2,499
Other	174	179	197	182	174	238	228	212
Psychology	37,619	37,462	37,271	36,872	37,318	37,728	38,816	40,092
Clinical	9,312	9,173	9,285	9,283	9,399	9,467	9,955	10,547
General	11,877	11,847	11,387	11,027	11,283	10,676	10,998	11,107
Nonclinical	16,430	16,442	16,599	16,562	16,636	17,585	17,863	18,438
Social sciences	42,477	42,061	43,340	43,238	44,663	47,645	50,701	52,025
Agricultural economics	688	680	715	789	835	844	900	854
Anthropology (cultural and social)	4,501	4,556	4,644	4,685	4,562	4,617	4,870	4,968
Economics	3,512	3,464	3,499	3,765	3,995	4,268	4,508	4,473
Geography	1,625	1,663	1,703	1,627	1,801	1,843	2,028	2,007
History and philosophy of science	162	193	212	219	244	301	312	414
Linguistics	2,017	1,953	1,833	1,744	1,793	1,891	2,005	1,923
Political science and public administration	15,404	14,961	15,573	15,927	16,501	18,619	19,842	20,960
Sociology	5,822	5,696	5,739	5,580	5,732	5,768	5,901	5,807
Other	8,746	8,895	9,422	8,902	9,200	9,494	10,335	10,619
Engineering	18,720	18,988	19,887	20,746	22,257	24,967	27,587	27,318
Aerospace	371	382	423	469	485	516	603	600
Agricultural	218	243	251	268	284	272	297	295
Biomedical	826	870	1,004	1,070	1,254	1,529	1,962	2,213
Chemical	1,720	1,727	1,733	1,875	1,829	1,995	2,100	2,106
Civil	4,164	4,102	4,157	4,277	4,503	4,905	5,398	5,454
Electrical	4,550	4,872	5,133	5,536	6,212	7,270	7,794	7,201
Engineering science/physics	278	331	319	342	363	430	465	465
Industrial/manufacturing	2,656	2,452	2,659	2,713	2,808	3,076	3,266	3,229
Mechanical	1,779	1,762	1,788	1,832	1,944	2,083	2,354	2,477

TABLE D-2. Female S&E graduate students, by field, citizenship, and race/ethnicity: 1997–2004

Field, citizenship, and race/ethnicity	1997	1998	1999	2000	2001	2002	2003	2004
Metallurgical/materials	1,117	1,130	1,084	1,041	1,173	1,251	1,331	1,320
Mining	63	55	55	46	36	37	42	42
Nuclear	143	134	144	156	157	148	182	196
Petroleum	77	55	82	87	91	107	129	134
Other	758	873	1,055	1,034	1,118	1,348	1,664	1,586
U.S. citizens and permanent residents	133,734	133,389	135,431	133,688	136,696	144,276	152,431	156,118
Science	121,203	121,008	123,050	121,633	124,269	130,471	136,985	140,742
Agricultural sciences	3,871	4,006	4,194	4,241	4,406	4,641	4,988	5,171
Biological sciences	23,353	23,503	24,180	23,964	24,669	26,274	27,976	28,791
Anatomy	322	284	279	294	278	383	365	391
Biochemistry	1,581	1,596	1,604	1,511	1,463	1,600	1,681	1,700
Biology	6,312	6,192	6,166	5,979	6,060	6,242	6,767	7,087
Biometry/epidemiology	1,520	1,818	1,947	1,808	1,915	1,940	2,073	2,169
Biophysics	171	164	170	175	187	221	231	296
Botany	730	732	725	717	701	716	703	669
Cell/molecular biology	1,642	1,715	1,886	1,931	1,908	2,095	2,214	2,186
Ecology	736	758	807	831	895	947	1,072	1,062
Entomology/parasitology	325	334	322	357	395	396	432	448
Genetics	789	786	844	792	837	894	942	975
Microbiology, immunology, and virology	1,943	1,907	1,968	1,963	1,951	2,177	2,299	2,337
Nutrition	2,764	2,707	2,745	2,648	2,672	2,756	2,908	2,950
Pathology	707	671	678	698	758	752	728	750
Pharmacology	960	1,043	1,064	1,197	1,308	1,382	1,377	1,244
Physiology	765	702	710	693	698	770	880	976
Zoology	628	616	602	560	579	540	556	552
Other	1,458	1,478	1,663	1,810	2,064	2,463	2,748	2,999
Computer sciences	6,198	6,577	7,412	7,406	7,643	8,206	8,051	7,447
Earth, atmospheric, and ocean sciences	4,697	4,805	4,868	4,857	4,911	5,235	5,496	5,854
Atmospheric	165	146	137	166	192	216	267	260
Earth	2,006	2,021	2,069	2,100	2,098	2,181	2,287	2,554
Ocean	891	980	1,038	1,065	1,049	1,124	1,196	1,291
Other	1,635	1,658	1,624	1,526	1,572	1,714	1,746	1,749
Mathematics and statistics	4,169	4,205	3,982	3,661	3,927	4,379	4,533	4,788
Mathematics/applied mathematics	3,513	3,563	3,367	3,034	3,299	3,653	3,777	3,974
Statistics	656	642	615	627	628	726	756	814
Physical sciences	5,837	5,833	5,862	5,832	5,859	6,178	6,523	6,790
Astronomy	169	181	172	197	191	229	253	258
Chemistry	4,537	4,441	4,477	4,477	4,453	4,583	4,819	5,023
Physics	981	1,062	1,047	999	1,075	1,162	1,249	1,323
Other	150	149	166	159	140	204	202	186
Psychology	36,361	36,074	35,822	35,361	35,574	35,963	36,859	38,172
Clinical	9,084	8,923	9,005	8,977	9,065	9,094	9,565	10,217
General	11,498	11,461	10,952	10,527	10,676	10,113	10,346	10,459
Nonclinical	15,779	15,690	15,865	15,857	15,833	16,756	16,948	17,496
Social sciences	36,717	36,005	36,730	36,311	37,280	39,595	42,559	43,729
Agricultural economics	414	390	393	413	423	428	467	477
Anthropology (cultural and social)	4,127	4,169	4,196	4,220	4,141	4,157	4,414	4,479
Economics	1,867	1,808	1,719	1,815	1,835	1,938	2,075	2,013
Geography	1,428	1,454	1,466	1,383	1,508	1,523	1,691	1,672
History and philosophy of science	141	170	194	189	219	274	290	389
Linguistics	1,388	1,297	1,233	1,130	1,161	1,237	1,378	1,266
Political science and public administration	14,045	13,537	13,932	14,128	14,598	16,382	17,544	18,590
Sociology	5,239	5,098	5,074	4,857	4,947	4,985	5,108	5,057
Other	8,068	8,082	8,523	8,176	8,448	8,671	9,592	9,786
Engineering	12,531	12,381	12,381	12,055	12,427	13,805	15,446	15,376
Aerospace	227	224	255	282	275	300	390	377
Agricultural	128	141	150	173	182	169	176	170
Biomedical	646	676	744	778	884	1,031	1,321	1,486

TABLE D-2. Female S&E graduate students, by field, citizenship, and race/ethnicity: 1997–2004

Field, citizenship, and race/ethnicity	1997	1998	1999	2000	2001	2002	2003	2004
Chemical	1,076	1,059	1,020	1,054	985	1,086	1,094	1,139
Civil	3,115	3,046	2,955	2,909	2,957	3,209	3,552	3,576
Electrical	2,497	2,518	2,389	2,246	2,380	2,668	2,962	2,652
Engineering science/physics	209	220	215	195	209	252	235	254
Industrial/manufacturing	2,079	1,869	2,003	1,896	1,890	2,114	2,261	2,224
Mechanical	1,166	1,153	1,141	1,051	1,117	1,164	1,366	1,441
Metallurgical/materials	701	677	618	581	622	668	702	689
Mining	55	51	43	32	32	30	30	33
Nuclear	100	88	87	95	88	87	115	123
Petroleum	18	15	17	40	40	40	24	33
Other	514	644	744	723	766	987	1,218	1,179
White	96,515	94,933	94,940	91,787	92,768	96,542	100,572	101,961
Science	88,244	86,767	87,076	84,161	85,167	88,483	91,680	93,089
Agricultural sciences	3,219	3,334	3,527	3,526	3,600	3,816	4,061	4,191
Biological sciences	17,446	17,454	17,808	17,677	17,846	18,972	19,749	20,007
Anatomy	240	221	209	229	222	263	265	259
Biochemistry	1,088	1,144	1,158	1,123	1,017	1,140	1,122	1,177
Biology	4,591	4,486	4,459	4,342	4,389	4,554	4,816	4,969
Biometry/epidemiology	1,045	1,199	1,326	1,179	1,256	1,301	1,370	1,406
Biophysics	126	111	117	121	135	161	164	210
Botany	630	605	613	612	582	567	562	506
Cell/molecular biology	1,278	1,272	1,364	1,353	1,296	1,389	1,433	1,425
Ecology	650	673	709	709	763	807	883	881
Entomology/parasitology	271	291	283	310	341	345	371	387
Genetics	642	637	627	593	623	678	695	725
Microbiology, immunology, and virology	1,395	1,382	1,387	1,390	1,353	1,501	1,550	1,585
Nutrition	2,171	2,100	2,124	2,074	2,009	2,086	2,138	2,079
Pathology	531	501	490	526	555	547	513	534
Pharmacology	686	734	737	864	901	940	941	819
Physiology	494	492	484	478	465	506	576	608
Zoology	573	533	539	497	521	486	493	485
Other	1,035	1,073	1,182	1,277	1,418	1,701	1,857	1,952
Computer sciences	3,143	3,198	3,521	3,629	3,778	3,962	4,039	3,876
Earth, atmospheric, and ocean sciences	4,039	4,065	4,134	4,200	4,211	4,410	4,541	4,819
Atmospheric	117	108	111	126	156	175	211	204
Earth	1,771	1,753	1,810	1,870	1,851	1,878	1,934	2,169
Ocean	765	829	885	921	897	954	1,002	1,072
Other	1,386	1,375	1,328	1,283	1,307	1,403	1,394	1,374
Mathematics and statistics	3,035	3,040	2,861	2,601	2,799	3,046	3,061	3,285
Mathematics/applied mathematics	2,558	2,586	2,431	2,177	2,356	2,556	2,545	2,765
Statistics	477	454	430	424	443	490	516	520
Physical sciences	4,180	4,170	4,165	4,167	4,164	4,497	4,592	4,716
Astronomy	137	145	146	163	154	182	199	206
Chemistry	3,220	3,176	3,182	3,173	3,171	3,315	3,336	3,403
Physics	717	759	739	741	755	863	921	979
Other	106	90	98	90	84	137	136	128
Psychology	27,408	26,707	26,072	24,442	24,553	24,655	24,900	25,066
Clinical	6,924	6,617	6,577	6,320	6,156	6,084	6,378	6,562
General	8,708	8,514	8,068	7,394	7,474	7,167	7,130	7,173
Nonclinical	11,776	11,576	11,427	10,728	10,923	11,404	11,392	11,331
Social sciences	25,774	24,799	24,988	23,919	24,216	25,125	26,737	27,129
Agricultural economics	315	295	309	331	331	325	369	353
Anthropology (cultural and social)	3,364	3,359	3,310	3,262	3,148	3,191	3,330	3,326
Economics	1,351	1,227	1,150	1,218	1,200	1,231	1,330	1,278
Geography	1,230	1,239	1,242	1,161	1,263	1,262	1,363	1,333
History and philosophy of science	120	149	163	158	182	197	218	295
Linguistics	995	934	901	801	830	869	929	889
Political science and public administration	9,244	8,645	8,763	8,550	8,690	9,479	10,012	10,414

TABLE D-2. Female S&E graduate students, by field, citizenship, and race/ethnicity: 1997–2004

Field, citizenship, and race/ethnicity	1997	1998	1999	2000	2001	2002	2003	2004
Sociology	3,701	3,509	3,506	3,299	3,395	3,334	3,368	3,343
Other	5,454	5,442	5,644	5,139	5,177	5,237	5,818	5,898
Engineering	8,271	8,166	7,864	7,626	7,601	8,059	8,892	8,872
Aerospace	183	175	198	218	210	217	279	256
Agricultural	82	103	113	118	117	117	129	131
Biomedical	472	483	520	542	572	647	805	885
Chemical	742	704	643	663	610	653	635	676
Civil	2,312	2,206	2,098	2,118	2,111	2,228	2,499	2,504
Electrical	1,166	1,234	1,099	981	1,011	1,028	1,036	968
Engineering science/physics	142	150	137	134	138	170	179	173
Industrial/manufacturing	1,438	1,272	1,315	1,211	1,162	1,249	1,323	1,261
Mechanical	762	791	749	687	728	743	904	928
Metallurgical/materials	500	506	443	426	449	468	482	488
Mining	43	37	33	29	29	25	27	25
Nuclear	71	71	66	69	64	63	87	84
Petroleum	9	9	13	15	10	11	12	14
Other	349	425	437	415	390	440	495	479
Asian/Pacific Islander	10,330	10,830	11,524	10,654	11,395	12,677	13,859	13,962
Science	8,548	8,996	9,515	8,870	9,324	10,021	10,743	10,887
Agricultural sciences	141	155	167	138	147	150	165	196
Biological sciences	2,317	2,350	2,377	2,253	2,539	2,656	2,894	3,074
Anatomy	44	25	29	23	29	61	45	57
Biochemistry	260	244	235	192	211	191	219	216
Biology	471	454	438	384	410	401	477	527
Biometry/epidemiology	199	246	268	290	305	328	323	343
Biophysics	21	18	29	29	35	38	43	50
Botany	34	48	48	51	55	69	66	61
Cell/molecular biology	188	244	274	262	272	305	320	333
Ecology	27	29	27	26	29	30	38	29
Entomology/parasitology	17	17	10	15	19	12	15	17
Genetics	67	66	82	56	73	81	93	90
Microbiology, immunology, and virology	253	234	216	220	244	253	276	277
Nutrition	226	212	199	168	201	196	250	279
Pathology	86	82	86	72	94	98	105	110
Pharmacology	129	149	142	151	197	200	183	167
Physiology	121	97	106	102	133	149	153	189
Zoology	15	22	18	14	15	13	17	25
Other	159	163	170	198	217	231	271	304
Computer sciences	1,648	1,920	2,318	2,009	1,987	2,143	1,973	1,682
Earth, atmospheric, and ocean sciences	164	186	192	172	170	197	200	229
Atmospheric	20	17	8	16	11	15	20	24
Earth	48	57	66	60	55	70	63	79
Ocean	25	26	36	35	30	37	31	42
Other	71	86	82	61	74	75	86	84
Mathematics and statistics	429	470	437	417	433	531	625	596
Mathematics/applied mathematics	321	369	328	307	346	412	493	435
Statistics	108	101	109	110	87	119	132	161
Physical sciences	594	610	636	573	542	531	649	692
Astronomy	17	15	13	14	15	18	17	15
Chemistry	478	485	495	473	432	411	510	545
Physics	86	96	117	76	88	93	109	121
Other	13	14	11	10	7	9	13	11
Psychology	1,399	1,468	1,502	1,531	1,628	1,633	1,800	1,883
Clinical	432	426	453	453	468	451	506	562
General	455	514	503	520	552	489	562	576
Nonclinical	512	528	546	558	608	693	732	745

TABLE D-2. Female S&E graduate students, by field, citizenship, and race/ethnicity: 1997–2004

Field, citizenship, and race/ethnicity	1997	1998	1999	2000	2001	2002	2003	2004
Social sciences	1,856	1,837	1,886	1,777	1,878	2,180	2,437	2,535
Agricultural economics	22	25	18	13	15	20	19	29
Anthropology (cultural and social)	162	167	183	192	186	174	189	205
Economics	202	225	240	212	202	258	293	282
Geography	61	45	54	46	57	59	78	78
History and philosophy of science	6	9	9	9	10	16	17	20
Linguistics	150	133	114	78	106	135	160	127
Political science and public administration	653	632	634	680	704	855	935	1,015
Sociology	258	262	254	235	240	255	307	266
Other	342	339	380	312	358	408	439	513
Engineering	1,782	1,834	2,009	1,784	2,071	2,656	3,116	3,075
Aerospace	16	21	21	26	27	31	36	51
Agricultural	15	13	15	19	21	16	15	16
Biomedical	85	86	105	125	164	208	259	341
Chemical	151	148	176	165	160	204	205	194
Civil	290	313	316	238	279	298	366	381
Electrical	692	709	704	662	728	972	1,164	1,035
Engineering science/physics	45	44	43	19	25	43	36	43
Industrial/manufacturing	176	156	198	164	194	267	285	277
Mechanical	143	138	179	130	168	169	174	199
Metallurgical/materials	77	75	85	73	78	102	99	96
Mining	10	13	10	1	1	2	2	1
Nuclear	12	8	6	5	8	7	9	14
Petroleum	2	4	1	1	4	6	3	7
Other	68	106	150	156	214	331	463	420
Black	11,012	11,331	11,708	12,536	13,076	13,763	14,718	14,883
Science	10,096	10,452	10,732	11,509	12,095	12,701	13,677	13,752
Agricultural sciences	160	176	151	153	201	213	266	241
Biological sciences	1,352	1,377	1,457	1,481	1,559	1,667	1,899	2,025
Anatomy	18	17	19	21	14	24	22	34
Biochemistry	63	76	76	81	76	73	96	97
Biology	483	481	482	502	507	459	543	535
Biometry/epidemiology	100	118	130	118	127	139	166	193
Biophysics	7	8	8	7	7	8	8	10
Botany	22	18	14	9	13	17	14	12
Cell/molecular biology	63	67	65	76	80	92	113	123
Ecology	5	8	11	11	13	15	27	19
Entomology/parasitology	8	6	8	8	6	8	10	9
Genetics	28	34	35	32	33	40	55	53
Microbiology, immunology, and virology	122	111	124	123	121	153	173	161
Nutrition	158	169	176	167	185	200	208	244
Pathology	30	30	35	31	32	33	35	43
Pharmacology	73	85	96	91	110	119	115	125
Physiology	71	58	51	60	56	58	67	69
Zoology	8	10	11	8	5	9	6	7
Other	93	81	116	136	174	220	241	291
Computer sciences	535	591	670	668	766	835	823	714
Earth, atmospheric, and ocean sciences	98	99	101	100	102	131	140	141
Atmospheric	4	3	4	9	7	10	12	14
Earth	20	24	31	24	25	27	35	43
Ocean	15	15	14	14	15	23	26	22
Other	59	57	52	53	55	71	67	62
Mathematics and statistics	310	274	270	273	270	286	282	328
Mathematics/applied mathematics	286	254	248	239	241	250	243	277
Statistics	24	20	22	34	29	36	39	51
Physical sciences	444	432	402	425	413	407	431	454
Astronomy	5	3	3	4	4	4	5	6
Chemistry	348	332	318	342	341	332	349	380

TABLE D-2. Female S&E graduate students, by field, citizenship, and race/ethnicity: 1997–2004

Field, citizenship, and race/ethnicity	1997	1998	1999	2000	2001	2002	2003	2004
Physics	71	83	70	67	53	52	57	57
Other	20	14	11	12	15	19	20	11
Psychology	2,736	2,926	2,844	3,343	3,479	3,545	3,758	3,751
Clinical	574	560	545	593	592	633	706	724
General	1,124	1,137	1,052	1,137	1,166	1,188	1,209	1,184
Nonclinical	1,038	1,229	1,247	1,613	1,721	1,724	1,843	1,843
Social sciences	4,461	4,577	4,837	5,066	5,305	5,617	6,078	6,098
Agricultural economics	36	25	35	38	35	41	38	28
Anthropology (cultural and social)	175	184	209	196	216	189	215	216
Economics	127	126	133	155	151	137	154	157
Geography	36	43	44	39	53	57	80	85
History and philosophy of science	2	4	7	6	9	11	9	10
Linguistics	30	32	36	31	32	27	35	31
Political science and public administration	2,254	2,339	2,530	2,628	2,796	3,042	3,239	3,247
Sociology	669	727	688	659	685	709	737	750
Other	1,132	1,097	1,155	1,314	1,328	1,404	1,571	1,574
Engineering	916	879	976	1,027	981	1,062	1,041	1,131
Aerospace	7	7	8	8	4	6	9	14
Agricultural	7	10	6	10	16	15	15	13
Biomedical	49	44	50	59	62	75	89	117
Chemical	87	80	79	79	89	81	78	74
Civil	144	133	173	178	158	182	155	160
Electrical	194	194	200	201	192	201	183	195
Engineering science/physics	8	7	7	13	10	7	6	12
Industrial/manufacturing	219	208	232	247	242	264	266	273
Mechanical	104	104	88	104	81	79	86	91
Metallurgical/materials	44	31	43	43	46	51	51	48
Mining	0	0	0	1	0	0	0	0
Nuclear	9	4	8	11	6	6	8	12
Petroleum	3	0	0	0	1	0	1	4
Other	41	57	82	73	74	95	94	118
Hispanic	7,289	7,645	8,324	8,935	9,460	10,448	11,061	11,706
Science	6,650	6,958	7,622	8,197	8,618	9,487	10,004	10,601
Agricultural sciences	163	180	213	217	215	209	239	258
Biological sciences	1,090	1,129	1,217	1,220	1,329	1,467	1,612	1,769
Anatomy	7	4	11	10	8	16	16	22
Biochemistry	77	69	70	70	84	88	110	108
Biology	369	376	358	378	387	437	454	508
Biometry/epidemiology	96	110	117	113	103	99	118	119
Biophysics	4	1	2	2	3	3	6	9
Botany	18	28	25	16	19	24	18	41
Cell/molecular biology	54	60	77	89	97	123	129	130
Ecology	20	20	26	33	40	37	34	39
Entomology/parasitology	16	8	11	13	18	19	25	20
Genetics	26	28	34	33	44	39	37	34
Microbiology, immunology, and virology	101	103	107	107	120	139	155	173
Nutrition	125	145	155	127	134	147	164	191
Pathology	25	23	28	29	36	34	33	28
Pharmacology	43	45	52	62	63	73	79	76
Physiology	32	27	40	26	26	28	36	53
Zoology	13	18	10	12	13	8	10	14
Other	64	64	94	100	134	153	188	204
Computer sciences	210	195	212	246	244	271	286	293
Earth, atmospheric, and ocean sciences	163	168	200	169	201	222	261	302
Atmospheric	3	2	3	4	7	6	8	12
Earth	59	54	70	56	78	81	100	111
Ocean	57	60	70	59	65	71	86	91
Other	44	52	57	50	51	64	67	88

TABLE D-2. Female S&E graduate students, by field, citizenship, and race/ethnicity: 1997–2004

Field, citizenship, and race/ethnicity	1997	1998	1999	2000	2001	2002	2003	2004
Mathematics and statistics	173	178	177	150	160	207	223	227
Mathematics/applied mathematics	152	153	158	136	147	187	196	200
Statistics	21	25	19	14	13	20	27	27
Physical sciences	283	307	346	337	357	376	416	489
Astronomy	2	2	3	3	5	8	11	13
Chemistry	235	247	289	287	292	307	339	396
Physics	40	43	41	40	58	53	60	71
Other	6	15	13	7	2	8	6	9
Psychology	2,215	2,347	2,610	3,106	3,261	3,527	3,549	3,645
Clinical	680	858	922	1,080	1,159	1,228	1,245	1,370
General	632	635	653	705	726	659	719	751
Nonclinical	903	854	1,035	1,321	1,376	1,640	1,585	1,524
Social sciences	2,353	2,454	2,647	2,752	2,851	3,208	3,418	3,618
Agricultural economics	21	21	17	16	18	13	18	23
Anthropology (cultural and social)	195	195	198	220	224	243	260	294
Economics	92	98	88	78	102	118	134	122
Geography	31	34	47	46	48	52	64	65
History and philosophy of science	2	4	8	6	6	18	16	26
Linguistics	106	117	100	103	93	95	93	85
Political science and public administration	1,040	1,087	1,187	1,294	1,291	1,530	1,582	1,780
Sociology	368	359	379	373	366	394	407	375
Other	498	539	623	616	703	745	844	848
Engineering	639	687	702	738	842	961	1,057	1,105
Aerospace	8	9	10	13	17	23	26	22
Agricultural	5	5	4	11	16	14	8	4
Biomedical	17	27	36	29	32	36	57	65
Chemical	37	65	54	69	72	84	106	117
Civil	206	219	203	236	239	274	282	283
Electrical	121	120	138	99	142	175	204	184
Engineering science/physics	9	12	15	10	11	8	5	6
Industrial/manufacturing	115	117	135	141	167	175	179	211
Mechanical	62	57	52	49	65	83	96	118
Metallurgical/materials	34	30	26	24	26	28	38	31
Mining	1	0	0	1	2	2	0	5
Nuclear	6	4	5	8	9	9	7	7
Petroleum	2	1	2	16	17	11	6	6
Other	16	21	22	32	27	39	43	46
American Indian/Alaska Native	795	810	809	868	875	924	989	1,008
Science	736	747	742	798	810	855	904	930
Agricultural sciences	28	26	23	22	23	40	39	47
Biological sciences	106	103	106	110	110	123	147	157
Anatomy	2	2	2	1	0	1	3	2
Biochemistry	8	4	4	3	6	3	6	7
Biology	30	27	32	36	25	28	34	32
Biometry/epidemiology	7	5	5	9	9	10	13	13
Biophysics	1	1	1	1	1	1	0	3
Botany	3	2	4	3	5	6	6	6
Cell/molecular biology	7	7	8	11	10	10	11	12
Ecology	6	3	2	3	5	4	6	9
Entomology/parasitology	0	2	1	1	1	1	1	3
Genetics	5	3	3	5	6	6	8	10
Microbiology, immunology, and virology	4	9	4	5	3	10	5	9
Nutrition	11	13	13	12	15	13	12	7
Pathology	3	3	1	1	2	0	2	5
Pharmacology	2	4	10	4	3	7	8	11
Physiology	4	5	5	2	4	7	8	9
Zoology	2	3	3	4	3	3	4	4
Other	11	10	8	9	12	13	20	15

TABLE D-2. Female S&E graduate students, by field, citizenship, and race/ethnicity: 1997–2004

Field, citizenship, and race/ethnicity	1997	1998	1999	2000	2001	2002	2003	2004
Computer sciences	17	24	24	30	29	31	36	30
Earth, atmospheric, and ocean sciences	35	40	31	28	33	36	33	27
Atmospheric	1	0	0	0	1	0	0	0
Earth	17	18	13	10	15	18	12	11
Ocean	8	7	5	4	6	6	6	9
Other	9	15	13	14	11	12	15	7
Mathematics and statistics	14	18	18	10	16	6	7	13
Mathematics/applied mathematics	13	15	15	6	14	6	7	13
Statistics	1	3	3	4	2	0	0	0
Physical sciences	24	23	29	21	27	28	25	28
Astronomy	1	1	1	0	0	1	2	2
Chemistry	20	18	23	18	23	20	18	20
Physics	3	4	5	3	4	7	5	5
Other	0	0	0	0	0	0	0	1
Psychology	223	224	212	257	251	237	229	234
Clinical	72	84	63	72	69	73	75	61
General	74	68	70	87	80	73	71	79
Nonclinical	77	72	79	98	102	91	83	94
Social sciences	289	289	299	320	321	354	388	394
Agricultural economics	3	3	1	1	0	2	2	15
Anthropology (cultural and social)	59	70	60	60	56	52	64	66
Economics	8	5	9	11	9	12	15	17
Geography	5	5	5	7	10	7	4	11
History and philosophy of science	0	0	1	2	2	1	2	3
Linguistics	4	7	10	8	9	8	10	9
Political science and public administration	86	84	91	90	99	119	133	137
Sociology	50	45	40	48	41	39	39	31
Other	74	70	82	93	95	114	119	105
Engineering	59	63	67	70	65	69	85	78
Aerospace	0	0	0	2	2	2	4	3
Agricultural	2	2	0	2	2	2	2	0
Biomedical	1	2	1	1	1	2	3	5
Chemical	8	8	5	11	8	8	6	13
Civil	17	12	13	10	14	18	23	16
Electrical	7	8	11	11	6	12	14	11
Engineering science/physics	1	1	1	2	2	3	4	5
Industrial/manufacturing	6	11	16	14	13	7	15	11
Mechanical	8	5	8	9	9	9	7	6
Metallurgical/materials	2	6	5	2	2	2	2	0
Mining	0	0	0	0	0	1	1	0
Nuclear	1	1	1	1	0	0	0	0
Petroleum	1	0	0	0	0	0	0	0
Other	5	7	6	5	6	3	4	8
Other race/ethnicity	7,793	7,840	8,126	8,908	9,122	9,922	11,232	12,598
Science	6,929	7,088	7,363	8,098	8,255	8,924	9,977	11,483
Agricultural sciences	160	135	113	185	220	213	218	238
Biological sciences	1,042	1,090	1,215	1,223	1,286	1,389	1,675	1,759
Anatomy	11	15	9	10	5	18	14	17
Biochemistry	85	59	61	42	69	105	128	95
Biology	368	368	397	337	342	363	443	516
Biometry/epidemiology	73	140	101	99	115	63	83	95
Biophysics	12	25	13	15	6	10	10	14
Botany	23	31	21	26	27	33	37	43
Cell/molecular biology	52	65	98	140	153	176	208	163
Ecology	28	25	32	49	45	54	84	85
Entomology/parasitology	13	10	9	10	10	11	10	12
Genetics	21	18	63	73	58	50	54	63
Microbiology, immunology, and virology	68	68	130	118	110	121	140	132

TABLE D-2. Female S&E graduate students, by field, citizenship, and race/ethnicity: 1997–2004

Field, citizenship, and race/ethnicity	1997	1998	1999	2000	2001	2002	2003	2004
Nutrition	73	68	78	100	128	114	136	150
Pathology	32	32	38	39	39	40	40	30
Pharmacology	27	26	27	25	34	43	51	46
Physiology	43	23	24	25	14	22	40	48
Zoology	17	30	21	25	22	21	26	17
Other	96	87	93	90	109	145	171	233
Computer sciences	645	649	667	824	839	964	894	852
Earth, atmospheric, and ocean sciences	198	247	210	188	194	239	321	336
Atmospheric	20	16	11	11	10	10	16	6
Earth	91	115	79	80	74	107	143	141
Ocean	21	43	28	32	36	33	45	55
Other	66	73	92	65	74	89	117	134
Mathematics and statistics	208	225	219	210	249	303	335	339
Mathematics/applied mathematics	183	186	187	169	195	242	293	284
Statistics	25	39	32	41	54	61	42	55
Physical sciences	312	291	284	309	356	339	410	411
Astronomy	7	15	6	13	13	16	19	16
Chemistry	236	183	170	184	194	198	267	279
Physics	64	77	75	72	117	94	97	90
Other	5	16	33	40	32	31	27	26
Psychology	2,380	2,402	2,582	2,682	2,402	2,366	2,623	3,593
Clinical	402	378	445	459	621	625	655	938
General	505	593	606	684	678	537	655	696
Nonclinical	1,473	1,431	1,531	1,539	1,103	1,204	1,313	1,959
Social sciences	1,984	2,049	2,073	2,477	2,709	3,111	3,501	3,955
Agricultural economics	17	21	13	14	24	27	21	29
Anthropology (cultural and social)	172	194	236	290	311	308	356	372
Economics	87	127	99	141	171	182	149	157
Geography	65	88	74	84	77	86	102	100
History and philosophy of science	11	4	6	8	10	31	28	35
Linguistics	103	74	72	109	91	103	151	125
Political science and public administration	768	750	727	886	1,018	1,357	1,643	1,997
Sociology	193	196	207	243	220	254	250	292
Other	568	595	639	702	787	763	801	848
Engineering	864	752	763	810	867	998	1,255	1,115
Aerospace	13	12	18	15	15	21	36	31
Agricultural	17	8	12	13	10	5	7	6
Biomedical	22	34	32	22	53	63	108	73
Chemical	51	54	63	67	46	56	64	65
Civil	146	163	152	129	156	209	227	232
Electrical	317	253	237	292	301	280	361	259
Engineering science/physics	4	6	12	17	23	21	5	15
Industrial/manufacturing	125	105	107	119	112	152	193	191
Mechanical	87	58	65	72	66	81	99	99
Metallurgical/materials	44	29	16	13	21	17	30	26
Mining	1	1	0	0	0	0	0	2
Nuclear	1	0	1	1	1	2	4	6
Petroleum	1	1	1	8	8	12	2	2
Other	35	28	47	42	55	79	119	108
Temporary residents	28,277	30,038	32,965	36,791	40,734	44,368	46,003	45,902
Science	22,088	23,431	25,459	28,100	30,904	33,206	33,862	33,960
Agricultural sciences	835	846	855	847	937	1,012	1,038	1,087
Biological sciences	5,123	5,450	5,441	5,843	6,380	7,153	7,907	8,458
Anatomy	61	58	66	73	74	84	101	89
Biochemistry	595	633	662	720	760	822	914	943
Biology	975	1,021	977	1,027	1,129	1,272	1,391	1,518
Biometry/epidemiology	256	335	376	433	512	612	698	698
Biophysics	45	45	43	56	75	85	108	138

TABLE D-2. Female S&E graduate students, by field, citizenship, and race/ethnicity: 1997–2004

Field, citizenship, and race/ethnicity	1997	1998	1999	2000	2001	2002	2003	2004
Botany	266	279	257	269	273	303	293	305
Cell/molecular biology	413	426	474	563	613	696	792	909
Ecology	62	72	74	85	84	92	136	130
Entomology/parasitology	85	80	84	85	85	96	105	117
Genetics	179	197	172	181	209	218	274	308
Microbiology, immunology, and virology	453	464	482	469	544	631	634	716
Nutrition	696	706	686	731	764	756	750	730
Pathology	125	133	126	131	137	154	182	161
Pharmacology	269	282	279	319	350	391	441	450
Physiology	169	184	188	189	213	224	264	272
Zoology	75	78	68	82	88	98	89	88
Other	399	457	427	430	470	619	735	886
Computer sciences	3,683	4,225	5,133	6,674	7,659	7,819	6,765	5,919
Earth, atmospheric, and ocean sciences	719	763	857	896	981	1,012	1,042	1,074
Atmospheric	98	88	105	102	106	117	107	103
Earth	290	294	331	355	385	432	477	501
Ocean	164	182	184	202	206	185	196	218
Other	167	199	237	237	284	278	262	252
Mathematics and statistics	1,699	1,783	2,061	2,119	2,343	2,507	2,756	2,698
Mathematics/applied mathematics	1,270	1,332	1,495	1,474	1,519	1,586	1,629	1,611
Statistics	429	451	566	645	824	921	1,127	1,087
Physical sciences	3,011	2,920	3,053	3,283	3,477	3,888	4,255	4,508
Astronomy	39	49	53	70	74	73	92	97
Chemistry	2,185	2,123	2,140	2,279	2,402	2,742	3,020	3,209
Physics	763	718	829	911	967	1,039	1,117	1,176
Other	24	30	31	23	34	34	26	26
Psychology	1,258	1,388	1,449	1,511	1,744	1,765	1,957	1,920
Clinical	228	250	280	306	334	373	390	330
General	379	386	435	500	607	563	652	648
Nonclinical	651	752	734	705	803	829	915	942
Social sciences	5,760	6,056	6,610	6,927	7,383	8,050	8,142	8,296
Agricultural economics	274	290	322	376	412	416	433	377
Anthropology (cultural and social)	374	387	448	465	421	460	456	489
Economics	1,645	1,656	1,780	1,950	2,160	2,330	2,433	2,460
Geography	197	209	237	244	293	320	337	335
History and philosophy of science	21	23	18	30	25	27	22	25
Linguistics	629	656	600	614	632	654	627	657
Political science and public administration	1,359	1,424	1,641	1,799	1,903	2,237	2,298	2,370
Sociology	583	598	665	723	785	783	793	750
Other	678	813	899	726	752	823	743	833
Engineering	6,189	6,607	7,506	8,691	9,830	11,162	12,141	11,942
Aerospace	144	158	168	187	210	216	213	223
Agricultural	90	102	101	95	102	103	121	125
Biomedical	180	194	260	292	370	498	641	727
Chemical	644	668	713	821	844	909	1,006	967
Civil	1,049	1,056	1,202	1,368	1,546	1,696	1,846	1,878
Electrical	2,053	2,354	2,744	3,290	3,832	4,602	4,832	4,549
Engineering science/physics	69	111	104	147	154	178	230	211
Industrial/manufacturing	577	583	656	817	918	962	1,005	1,005
Mechanical	613	609	647	781	827	919	988	1,036
Metallurgical/materials	416	453	466	460	551	583	629	631
Mining	8	4	12	14	4	7	12	9
Nuclear	43	46	57	61	69	61	67	73
Petroleum	59	40	65	47	51	67	105	101
Other	244	229	311	311	352	361	446	407

NOTES: Race/ethnicity breakouts are for U.S. citizens and permanent residents only. Temporary residents include all racial/ethnic groups.

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering, 1997–2004.

TABLE D-3. Male S&E graduate students, by field, citizenship, and race/ethnicity: 1997–2004

Field, citizenship, and race/ethnicity	1997	1998	1999	2000	2001	2002	2003	2004
All male S&E graduate students	245,619	241,429	242,786	243,057	251,812	266,248	276,260	274,311
Science	163,191	160,379	160,982	159,691	164,576	171,547	176,470	177,928
Agricultural sciences	7,497	7,316	7,263	6,935	6,892	7,045	7,171	7,187
Biological sciences	28,229	27,742	27,338	26,475	26,590	27,706	28,818	29,271
Anatomy	473	443	404	428	383	484	442	437
Biochemistry	2,926	2,919	2,835	2,735	2,694	2,768	2,957	2,969
Biology	7,359	7,064	6,846	6,401	6,163	6,308	6,612	6,833
Biometry/epidemiology	1,120	1,361	1,381	1,374	1,390	1,519	1,668	1,807
Biophysics	532	528	497	520	615	647	693	746
Botany	1,086	1,031	992	918	947	954	905	857
Cell/molecular biology	2,245	2,238	2,277	2,326	2,390	2,584	2,683	2,735
Ecology	842	840	823	846	909	928	1,022	993
Entomology/parasitology	751	754	739	662	690	699	669	676
Genetics	808	744	767	739	795	797	857	846
Microbiology, immunology, and virology	2,409	2,402	2,365	2,382	2,303	2,400	2,323	2,322
Nutrition	1,144	1,073	1,077	1,034	993	1,027	1,037	1,046
Pathology	842	776	776	702	742	707	631	629
Pharmacology	1,368	1,405	1,414	1,447	1,482	1,461	1,539	1,428
Physiology	1,364	1,265	1,185	1,133	1,056	1,082	1,184	1,193
Zoology	924	892	853	803	744	711	656	596
Other	2,036	2,007	2,107	2,025	2,294	2,630	2,940	3,158
Computer sciences	26,110	27,225	29,933	33,270	36,894	39,244	38,880	36,965
Earth, atmospheric, and ocean sciences	9,132	8,690	8,358	8,188	7,949	7,993	8,082	8,182
Atmospheric	829	731	671	695	626	703	776	723
Earth	4,663	4,372	4,237	4,141	4,061	4,099	4,125	4,282
Ocean	1,424	1,400	1,402	1,401	1,330	1,309	1,303	1,292
Other	2,216	2,187	2,048	1,951	1,932	1,882	1,878	1,885
Mathematics and statistics	10,851	10,497	10,214	9,870	10,381	11,277	12,176	12,387
Mathematics/applied mathematics	9,244	8,932	8,659	8,315	8,751	9,463	10,163	10,300
Statistics	1,607	1,565	1,555	1,555	1,630	1,814	2,013	2,087
Physical sciences	22,257	21,822	21,776	21,270	21,702	22,275	23,520	24,474
Astronomy	570	590	607	621	651	688	735	764
Chemistry	12,052	11,918	11,799	11,349	11,511	11,720	12,210	12,544
Physics	9,403	9,029	8,993	8,931	9,206	9,500	10,189	10,810
Other	232	285	377	369	334	367	386	356
Psychology	15,507	15,095	14,456	13,594	13,149	13,437	13,395	13,960
Clinical	3,786	3,560	3,513	3,205	3,089	3,142	3,163	3,124
General	5,372	5,251	4,851	4,597	4,554	4,483	4,582	5,169
Nonclinical	6,349	6,284	6,092	5,792	5,506	5,812	5,650	5,667
Social sciences	43,608	41,992	41,644	40,089	41,019	42,570	44,428	45,502
Agricultural economics	1,355	1,315	1,299	1,290	1,326	1,343	1,418	1,341
Anthropology (cultural and social)	3,059	3,021	2,989	2,941	2,929	2,864	2,919	2,858
Economics	7,585	7,237	7,063	6,983	7,413	7,741	7,808	7,777
Geography	2,662	2,663	2,547	2,409	2,503	2,540	2,693	2,802
History and philosophy of science	281	315	345	313	327	362	425	580
Linguistics	1,051	982	966	930	951	984	1,023	1,018
Political science and public administration	16,679	15,867	15,799	15,204	15,304	16,315	17,038	18,278
Sociology	3,591	3,362	3,227	3,072	3,080	3,178	3,226	3,088
Other	7,345	7,230	7,409	6,947	7,186	7,243	7,878	7,760
Engineering	82,428	81,050	81,804	83,366	87,236	94,701	99,790	96,383
Aerospace	2,712	2,755	2,926	2,938	2,966	3,169	3,445	3,489
Agricultural	723	682	683	631	623	640	715	703
Biomedical	2,021	2,035	2,117	2,171	2,385	2,849	3,385	3,679
Chemical	5,568	5,366	5,150	5,181	5,084	5,419	5,416	5,346
Civil	13,029	12,415	12,069	12,174	12,162	12,808	13,492	13,106
Electrical	26,237	26,512	26,689	28,075	29,888	32,678	33,969	31,794
Engineering science/physics	1,369	1,370	1,308	1,290	1,435	1,691	1,775	1,733
Industrial/manufacturing	9,301	8,769	9,144	9,406	10,132	10,957	11,047	10,623
Mechanical	13,266	12,934	13,168	13,403	13,908	15,056	16,039	15,469

TABLE D-3. Male S&E graduate students, by field, citizenship, and race/ethnicity: 1997–2004

Field, citizenship, and race/ethnicity	1997	1998	1999	2000	2001	2002	2003	2004
Metallurgical/materials	3,571	3,550	3,397	3,336	3,548	3,741	3,800	3,739
Mining	285	249	273	241	204	230	236	266
Nuclear	725	687	686	636	644	647	703	775
Petroleum	484	516	560	540	565	659	720	711
Other	3,137	3,210	3,634	3,344	3,692	4,157	5,048	4,950
U.S. citizens and permanent residents	174,934	169,490	165,823	157,023	158,015	165,004	174,927	177,113
Science	122,823	119,622	118,016	112,367	113,471	117,447	122,980	125,510
Agricultural sciences	5,543	5,508	5,580	5,371	5,316	5,444	5,613	5,594
Biological sciences	22,288	21,856	21,590	20,557	20,536	21,033	21,889	22,041
Anatomy	364	346	317	324	281	369	340	341
Biochemistry	2,110	2,099	2,042	1,866	1,869	1,859	1,974	1,934
Biology	6,297	6,005	5,831	5,374	5,099	5,135	5,434	5,611
Biometry/epidemiology	864	1,017	1,006	986	999	1,032	1,170	1,293
Biophysics	406	407	386	372	427	433	482	509
Botany	740	704	661	603	646	639	614	567
Cell/molecular biology	1,771	1,767	1,853	1,858	1,870	2,018	2,043	2,031
Ecology	735	740	723	745	799	802	886	851
Entomology/parasitology	546	543	521	467	500	512	488	490
Genetics	569	545	556	543	571	591	616	602
Microbiology, immunology, and virology	1,883	1,906	1,904	1,916	1,843	1,834	1,814	1,810
Nutrition	731	708	699	649	597	621	587	638
Pathology	673	621	607	532	586	562	482	474
Pharmacology	1,084	1,111	1,124	1,141	1,184	1,172	1,207	1,069
Physiology	1,110	1,011	919	876	838	852	927	934
Zoology	808	780	762	711	631	590	565	502
Other	1,597	1,546	1,679	1,594	1,796	2,012	2,260	2,385
Computer sciences	16,876	17,028	17,911	17,682	18,499	19,997	21,369	21,082
Earth, atmospheric, and ocean sciences	7,336	6,954	6,695	6,392	6,148	6,237	6,349	6,474
Atmospheric	636	564	502	493	447	514	602	559
Earth	3,660	3,422	3,344	3,194	3,091	3,152	3,169	3,336
Ocean	1,081	1,049	1,070	1,077	1,022	1,028	1,010	1,013
Other	1,959	1,919	1,779	1,628	1,588	1,543	1,568	1,566
Mathematics and statistics	7,006	6,859	6,348	5,932	6,240	6,760	7,524	7,731
Mathematics/applied mathematics	6,008	5,884	5,494	5,112	5,423	5,835	6,487	6,634
Statistics	998	975	854	820	817	925	1,037	1,097
Physical sciences	14,373	14,004	13,697	12,898	12,976	13,073	13,690	14,433
Astronomy	424	426	421	420	442	458	494	491
Chemistry	8,125	8,016	7,854	7,406	7,344	7,209	7,391	7,680
Physics	5,627	5,317	5,093	4,758	4,916	5,097	5,495	5,956
Other	197	245	329	314	274	309	310	306
Psychology	14,757	14,297	13,666	12,842	12,372	12,345	12,240	12,715
Clinical	3,679	3,447	3,397	3,121	2,995	2,920	2,934	3,022
General	5,084	4,942	4,566	4,285	4,227	4,064	4,126	4,443
Nonclinical	5,994	5,908	5,703	5,436	5,150	5,361	5,180	5,250
Social sciences	34,644	33,116	32,529	30,693	31,384	32,558	34,306	35,440
Agricultural economics	709	701	696	652	686	713	754	725
Anthropology (cultural and social)	2,731	2,669	2,614	2,577	2,581	2,477	2,553	2,485
Economics	3,847	3,653	3,310	3,126	3,289	3,451	3,624	3,699
Geography	2,335	2,313	2,186	2,025	2,071	2,113	2,246	2,348
History and philosophy of science	235	271	304	274	282	321	378	536
Linguistics	698	615	604	584	621	656	687	671
Political science and public administration	14,612	13,739	13,521	12,844	12,984	13,898	14,459	15,652
Sociology	3,013	2,851	2,716	2,540	2,558	2,640	2,674	2,569
Other	6,464	6,304	6,578	6,071	6,312	6,289	6,931	6,755
Engineering	52,111	49,868	47,807	44,656	44,544	47,557	51,947	51,603
Aerospace	1,538	1,496	1,562	1,612	1,530	1,699	1,971	2,024
Agricultural	393	378	376	340	315	326	355	352
Biomedical	1,491	1,501	1,510	1,503	1,619	1,825	2,113	2,346

TABLE D-3. Male S&E graduate students, by field, citizenship, and race/ethnicity: 1997–2004

Field, citizenship, and race/ethnicity	1997	1998	1999	2000	2001	2002	2003	2004
Chemical	3,348	3,149	2,849	2,672	2,433	2,615	2,659	2,691
Civil	8,975	8,509	7,846	7,397	7,115	7,344	7,906	7,878
Electrical	15,535	14,941	14,128	13,069	13,154	13,911	15,156	14,553
Engineering science/physics	990	929	878	760	845	987	995	933
Industrial/manufacturing	6,537	6,000	6,070	5,678	5,717	6,204	6,584	6,533
Mechanical	8,185	7,893	7,619	7,046	7,066	7,440	8,277	8,329
Metallurgical/materials	2,020	1,993	1,820	1,684	1,763	1,814	1,844	1,813
Mining	168	177	176	123	104	135	137	156
Nuclear	465	439	411	362	357	377	417	493
Petroleum	131	108	131	225	227	258	150	161
Other	2,335	2,355	2,431	2,185	2,299	2,622	3,383	3,341
White	131,492	125,734	121,810	113,782	113,259	116,620	122,137	123,021
Science	93,670	89,802	87,611	82,325	82,401	84,120	87,560	88,652
Agricultural sciences	4,771	4,759	4,856	4,626	4,547	4,670	4,738	4,745
Biological sciences	17,332	16,869	16,511	15,578	15,347	15,614	16,060	16,042
Anatomy	278	263	238	241	218	262	238	243
Biochemistry	1,581	1,598	1,507	1,409	1,356	1,369	1,393	1,410
Biology	4,872	4,636	4,470	4,105	3,920	3,914	4,105	4,170
Biometry/epidemiology	601	712	696	672	664	663	785	831
Biophysics	289	266	266	253	290	299	338	376
Botany	641	605	576	521	540	520	503	462
Cell/molecular biology	1,391	1,354	1,409	1,355	1,332	1,427	1,427	1,458
Ecology	629	652	654	651	703	700	751	716
Entomology/parasitology	478	487	474	423	423	449	429	429
Genetics	456	426	395	384	406	406	412	407
Microbiology, immunology, and virology	1,450	1,467	1,404	1,409	1,305	1,313	1,282	1,280
Nutrition	579	547	543	492	436	460	437	453
Pathology	513	460	436	380	407	390	321	329
Pharmacology	857	834	852	867	878	855	868	745
Physiology	789	728	635	586	570	580	634	635
Zoology	745	683	701	650	567	520	492	447
Other	1,183	1,151	1,255	1,180	1,332	1,487	1,645	1,651
Computer sciences	10,919	10,750	10,856	10,839	11,279	12,000	13,221	13,167
Earth, atmospheric, and ocean sciences	6,363	6,033	5,873	5,612	5,362	5,389	5,422	5,508
Atmospheric	540	493	441	431	391	448	502	459
Earth	3,218	3,023	2,986	2,850	2,752	2,761	2,757	2,927
Ocean	934	903	930	951	872	891	869	861
Other	1,671	1,614	1,516	1,380	1,347	1,289	1,294	1,261
Mathematics and statistics	5,316	5,057	4,798	4,354	4,587	4,877	5,353	5,547
Mathematics/applied mathematics	4,516	4,313	4,129	3,728	3,957	4,202	4,585	4,791
Statistics	800	744	669	626	630	675	768	756
Physical sciences	11,587	11,048	10,872	10,176	10,084	10,123	10,515	11,007
Astronomy	377	362	365	360	373	388	411	425
Chemistry	6,492	6,308	6,212	5,855	5,806	5,611	5,619	5,767
Physics	4,551	4,208	4,101	3,773	3,730	3,926	4,288	4,619
Other	167	170	194	188	175	198	197	196
Psychology	11,316	10,915	10,195	9,359	9,025	8,818	8,687	8,570
Clinical	2,924	2,736	2,635	2,342	2,205	2,101	2,094	2,074
General	3,959	3,788	3,480	3,188	3,165	3,033	2,985	2,981
Nonclinical	4,433	4,391	4,080	3,829	3,655	3,684	3,608	3,515
Social sciences	26,066	24,371	23,650	21,781	22,170	22,629	23,564	24,066
Agricultural economics	591	565	572	535	557	589	629	612
Anthropology (cultural and social)	2,277	2,190	2,130	2,049	2,042	1,962	1,986	1,927
Economics	2,850	2,601	2,445	2,230	2,304	2,336	2,450	2,567
Geography	2,036	1,972	1,889	1,745	1,785	1,806	1,892	1,982
History and philosophy of science	183	231	261	228	232	229	296	405
Linguistics	523	470	474	436	463	466	489	460
Political science and public administration	10,740	9,881	9,554	8,851	8,945	9,306	9,513	10,058

TABLE D-3. Male S&E graduate students, by field, citizenship, and race/ethnicity: 1997–2004

Field, citizenship, and race/ethnicity	1997	1998	1999	2000	2001	2002	2003	2004
Sociology	2,139	1,946	1,798	1,683	1,700	1,747	1,764	1,687
Other	4,727	4,515	4,527	4,024	4,142	4,188	4,545	4,368
Engineering	37,822	35,932	34,199	31,457	30,858	32,500	34,577	34,369
Aerospace	1,257	1,216	1,239	1,233	1,224	1,295	1,468	1,535
Agricultural	303	300	310	282	258	280	302	299
Biomedical	1,095	1,140	1,144	1,089	1,123	1,277	1,391	1,478
Chemical	2,623	2,420	2,162	1,964	1,807	1,912	1,919	1,990
Civil	6,896	6,459	5,990	5,641	5,381	5,479	5,834	5,760
Electrical	9,926	9,495	8,798	8,001	7,865	8,093	8,673	8,476
Engineering science/physics	739	693	650	539	579	723	749	692
Industrial/manufacturing	4,953	4,492	4,446	4,118	4,093	4,419	4,357	4,223
Mechanical	6,217	5,866	5,742	5,318	5,204	5,511	5,979	6,063
Metallurgical/materials	1,519	1,573	1,492	1,325	1,390	1,414	1,427	1,330
Mining	118	114	129	104	86	111	111	132
Nuclear	404	378	358	313	300	320	352	408
Petroleum	96	92	111	95	102	110	113	109
Other	1,676	1,694	1,628	1,435	1,446	1,556	1,902	1,874
Asian/Pacific Islander	15,682	15,896	16,046	14,404	15,189	16,675	18,062	17,546
Science	9,331	9,718	9,894	8,914	9,253	9,947	10,408	10,328
Agricultural sciences	168	160	143	112	115	136	151	144
Biological sciences	2,162	2,089	2,099	1,993	2,171	2,199	2,264	2,280
Anatomy	43	39	42	51	34	51	46	44
Biochemistry	306	283	306	231	266	221	247	233
Biology	411	363	355	337	315	330	342	380
Biometry/epidemiology	113	111	119	134	139	169	165	211
Biophysics	65	72	71	72	94	81	83	63
Botany	35	34	25	22	39	50	42	40
Cell/molecular biology	196	223	222	246	255	279	281	234
Ecology	21	21	18	16	18	13	17	22
Entomology/parasitology	24	20	9	9	27	15	14	17
Genetics	66	62	79	53	74	87	100	95
Microbiology, immunology, and virology	222	210	196	197	235	214	216	210
Nutrition	59	57	56	56	53	50	49	50
Pathology	85	84	94	83	87	90	78	71
Pharmacology	116	150	146	138	168	174	158	136
Physiology	212	168	170	166	155	160	178	190
Zoology	23	26	15	13	17	16	14	15
Other	165	166	176	169	195	199	234	269
Computer sciences	2,978	3,299	3,826	3,323	3,440	3,810	3,794	3,485
Earth, atmospheric, and ocean sciences	253	238	208	179	171	158	163	207
Atmospheric	36	38	33	25	15	16	34	35
Earth	118	96	78	72	84	79	63	70
Ocean	35	36	31	29	21	27	17	27
Other	64	68	66	53	51	36	49	75
Mathematics and statistics	622	704	565	531	552	653	739	736
Mathematics/applied mathematics	499	570	471	435	480	546	631	594
Statistics	123	134	94	96	72	107	108	142
Physical sciences	1,044	1,150	1,046	951	916	893	970	1,060
Astronomy	22	17	18	19	21	26	36	23
Chemistry	628	694	638	606	551	539	593	643
Physics	381	432	373	317	334	312	322	380
Other	13	7	17	9	10	16	19	14
Psychology	510	551	536	532	548	553	576	561
Clinical	125	127	126	116	110	103	104	109
General	155	189	172	192	187	185	231	237
Nonclinical	230	235	238	224	251	265	241	215

TABLE D-3. Male S&E graduate students, by field, citizenship, and race/ethnicity: 1997–2004

Field, citizenship, and race/ethnicity	1997	1998	1999	2000	2001	2002	2003	2004
Social sciences	1,594	1,527	1,471	1,293	1,340	1,545	1,751	1,855
Agricultural economics	27	29	35	17	14	19	20	16
Anthropology (cultural and social)	74	74	73	68	67	78	94	90
Economics	350	386	357	264	293	326	362	335
Geography	58	42	47	39	42	55	62	66
History and philosophy of science	15	13	11	11	11	12	12	28
Linguistics	62	54	34	28	48	48	55	48
Political science and public administration	611	548	529	526	521	634	687	787
Sociology	141	143	144	117	120	120	136	125
Other	256	238	241	223	224	253	323	360
Engineering	6,351	6,178	6,152	5,490	5,936	6,728	7,654	7,218
Aerospace	137	119	132	180	111	155	171	161
Agricultural	32	30	26	19	23	23	20	31
Biomedical	228	182	203	236	263	288	385	503
Chemical	361	321	310	336	334	362	352	334
Civil	760	791	615	506	492	557	658	641
Electrical	2,797	2,734	2,787	2,457	2,726	3,107	3,442	3,071
Engineering science/physics	157	143	127	84	98	118	116	120
Industrial/manufacturing	563	487	586	464	492	611	738	697
Mechanical	804	835	829	674	777	743	861	817
Metallurgical/materials	218	197	155	173	166	196	217	249
Mining	36	44	40	10	11	19	3	5
Nuclear	26	28	16	19	19	24	21	28
Petroleum	14	3	10	37	35	38	9	17
Other	218	264	316	295	389	487	661	544
Black	8,329	8,320	8,565	8,298	8,383	8,910	9,456	9,812
Science	6,366	6,378	6,576	6,348	6,449	6,898	7,285	7,531
Agricultural sciences	128	168	159	139	126	162	194	153
Biological sciences	753	764	761	760	792	813	858	861
Anatomy	17	13	12	10	6	14	15	17
Biochemistry	63	67	64	63	53	50	63	59
Biology	280	260	262	243	248	231	253	245
Biometry/epidemiology	54	56	58	46	49	62	63	70
Biophysics	10	10	9	10	10	10	9	13
Botany	8	10	8	7	11	12	12	6
Cell/molecular biology	52	59	49	59	63	68	55	63
Ecology	6	9	11	13	13	9	16	8
Entomology/parasitology	6	5	9	6	9	9	5	2
Genetics	15	17	20	25	23	20	20	15
Microbiology, immunology, and virology	72	61	62	68	57	65	72	83
Nutrition	38	44	42	41	46	52	38	49
Pathology	9	14	14	13	19	19	21	16
Pharmacology	41	51	55	56	59	54	70	67
Physiology	30	37	27	42	42	36	35	35
Zoology	3	4	5	5	5	7	5	4
Other	49	47	54	53	79	95	106	109
Computer sciences	765	764	815	844	943	1,063	1,128	1,104
Earth, atmospheric, and ocean sciences	105	103	112	120	125	135	130	119
Atmospheric	8	5	3	9	12	15	20	22
Earth	36	35	31	32	32	37	40	40
Ocean	11	10	14	14	16	13	9	8
Other	50	53	64	65	65	70	61	49
Mathematics and statistics	347	339	324	299	320	340	373	364
Mathematics/applied mathematics	321	307	295	270	284	296	318	302
Statistics	26	32	29	29	36	44	55	62
Physical sciences	508	481	501	493	462	486	508	541
Astronomy	6	6	6	5	8	6	4	4
Chemistry	319	303	315	308	290	304	314	333

TABLE D-3. Male S&E graduate students, by field, citizenship, and race/ethnicity: 1997–2004

Field, citizenship, and race/ethnicity	1997	1998	1999	2000	2001	2002	2003	2004
Physics	174	159	164	168	158	168	179	191
Other	9	13	16	12	6	8	11	13
Psychology	908	887	905	871	868	946	934	1,243
Clinical	162	165	165	163	148	153	147	170
General	420	370	353	326	323	344	364	644
Nonclinical	326	352	387	382	397	449	423	429
Social sciences	2,852	2,872	2,999	2,822	2,813	2,953	3,160	3,146
Agricultural economics	29	45	49	42	41	42	40	24
Anthropology (cultural and social)	79	82	82	74	58	59	61	55
Economics	197	191	158	162	163	185	209	224
Geography	47	65	48	47	61	55	61	65
History and philosophy of science	6	8	7	8	7	13	16	20
Linguistics	15	14	13	13	15	17	14	15
Political science and public administration	1,445	1,456	1,567	1,445	1,468	1,590	1,610	1,698
Sociology	384	387	373	325	316	323	343	306
Other	650	624	702	706	684	669	806	739
Engineering	1,963	1,942	1,989	1,950	1,934	2,012	2,171	2,281
Aerospace	28	27	44	49	41	45	50	54
Agricultural	14	17	17	13	10	9	12	9
Biomedical	34	42	54	55	60	69	70	78
Chemical	85	105	68	89	78	79	95	95
Civil	299	277	277	270	273	271	273	292
Electrical	680	680	686	629	620	645	629	666
Engineering science/physics	31	32	28	21	23	29	36	26
Industrial/manufacturing	270	257	309	310	349	352	419	441
Mechanical	324	308	287	292	273	279	296	278
Metallurgical/materials	68	44	49	51	61	61	59	57
Mining	0	1	1	4	1	1	2	5
Nuclear	12	9	7	6	7	5	4	8
Petroleum	5	5	5	7	3	6	10	17
Other	113	138	157	154	135	161	216	255
Hispanic	7,695	7,842	8,196	8,268	8,514	9,191	10,183	10,682
Science	5,522	5,629	5,974	5,988	6,173	6,691	7,261	7,586
Agricultural sciences	248	211	209	223	210	197	251	270
Biological sciences	897	924	968	963	1,009	1,123	1,218	1,264
Anatomy	8	11	15	14	13	27	26	17
Biochemistry	71	72	82	74	87	96	119	104
Biology	325	315	318	330	313	349	353	357
Biometry/epidemiology	39	49	47	54	46	71	78	76
Biophysics	13	13	15	12	17	17	22	21
Botany	29	26	22	20	23	23	20	22
Cell/molecular biology	59	62	76	68	84	90	96	113
Ecology	27	23	15	18	18	22	20	26
Entomology/parasitology	26	18	16	18	21	16	16	18
Genetics	18	25	25	24	24	28	24	28
Microbiology, immunology, and virology	69	84	94	89	100	104	117	122
Nutrition	30	27	31	25	28	20	37	54
Pathology	19	19	28	25	31	28	30	33
Pharmacology	42	43	40	50	53	54	55	68
Physiology	33	43	44	39	34	38	45	41
Zoology	17	18	21	16	16	20	22	14
Other	72	76	79	87	101	120	138	150
Computer sciences	513	559	653	617	650	733	815	867
Earth, atmospheric, and ocean sciences	236	202	200	186	196	191	223	235
Atmospheric	9	11	4	8	8	10	13	15
Earth	102	83	84	80	77	82	87	106
Ocean	59	48	62	54	72	60	72	70
Other	66	60	50	44	39	39	51	44

TABLE D-3. Male S&E graduate students, by field, citizenship, and race/ethnicity: 1997–2004

Field, citizenship, and race/ethnicity	1997	1998	1999	2000	2001	2002	2003	2004
Mathematics and statistics	254	276	270	310	322	335	381	391
Mathematics/applied mathematics	234	251	241	277	295	307	342	344
Statistics	20	25	29	33	27	28	39	47
Physical sciences	499	525	549	507	539	605	678	743
Astronomy	9	10	10	14	12	9	14	10
Chemistry	288	315	329	315	337	361	411	441
Physics	197	183	188	162	181	221	237	272
Other	5	17	22	16	9	14	16	20
Psychology	860	881	957	1,039	1,048	1,128	1,131	1,132
Clinical	245	261	260	323	333	360	379	367
General	277	276	278	264	280	267	268	284
Nonclinical	338	344	419	452	435	501	484	481
Social sciences	2,015	2,051	2,168	2,143	2,199	2,379	2,564	2,684
Agricultural economics	32	21	19	23	22	17	24	27
Anthropology (cultural and social)	143	149	129	148	159	166	176	161
Economics	185	178	159	160	204	214	235	236
Geography	60	64	64	57	59	71	87	78
History and philosophy of science	8	8	14	11	12	37	22	30
Linguistics	51	33	35	39	33	45	43	63
Political science and public administration	886	902	979	1,009	932	1,057	1,167	1,279
Sociology	213	243	262	234	242	261	257	260
Other	437	453	507	462	536	511	553	550
Engineering	2,173	2,213	2,222	2,280	2,341	2,500	2,922	3,096
Aerospace	63	67	70	67	54	69	93	96
Agricultural	12	10	12	11	11	8	6	4
Biomedical	39	53	50	63	70	78	98	116
Chemical	105	114	128	113	108	122	143	132
Civil	488	504	498	540	508	504	564	612
Electrical	689	692	631	618	683	766	890	913
Engineering science/physics	32	30	29	26	29	39	44	39
Industrial/manufacturing	281	247	291	298	302	302	383	418
Mechanical	298	332	336	317	342	367	441	488
Metallurgical/materials	52	54	49	60	54	51	60	67
Mining	6	4	2	1	1	1	3	5
Nuclear	16	18	23	22	25	17	24	21
Petroleum	8	5	3	43	46	46	7	9
Other	84	83	100	101	108	130	166	176
American Indian/Alaska Native	804	797	744	734	808	811	890	855
Science	624	624	569	596	646	636	671	654
Agricultural sciences	34	45	46	34	35	36	38	35
Biological sciences	91	88	80	79	95	88	89	92
Anatomy	1	1	1	3	3	2	1	0
Biochemistry	7	9	2	5	9	5	5	3
Biology	30	24	27	22	27	22	22	22
Biometry/epidemiology	4	2	2	2	2	4	3	2
Biophysics	0	0	0	0	0	1	1	4
Botany	0	1	0	0	4	4	4	4
Cell/molecular biology	2	4	1	2	1	2	3	6
Ecology	2	2	3	2	3	2	4	3
Entomology/parasitology	1	1	0	0	1	4	3	3
Genetics	1	1	1	1	1	1	4	3
Microbiology, immunology, and virology	6	9	11	16	10	14	9	9
Nutrition	1	3	2	1	0	1	1	2
Pathology	8	7	6	5	9	3	1	0
Pharmacology	3	2	4	4	7	8	11	10
Physiology	3	5	3	1	3	1	3	4
Zoology	10	6	4	3	5	3	4	3
Other	12	11	13	12	10	11	10	14

TABLE D-3. Male S&E graduate students, by field, citizenship, and race/ethnicity: 1997–2004

Field, citizenship, and race/ethnicity	1997	1998	1999	2000	2001	2002	2003	2004
Computer sciences	43	68	50	50	58	52	68	63
Earth, atmospheric, and ocean sciences	47	44	32	33	37	45	30	40
Atmospheric	1	2	2	3	3	4	5	4
Earth	21	18	13	17	17	18	14	22
Ocean	9	9	7	6	6	5	2	2
Other	16	15	10	7	11	18	9	12
Mathematics and statistics	29	16	12	15	22	18	18	26
Mathematics/applied mathematics	27	15	11	14	20	14	17	26
Statistics	2	1	1	1	2	4	1	0
Physical sciences	46	41	40	54	54	55	54	50
Astronomy	0	1	1	1	0	1	1	1
Chemistry	30	28	30	43	39	38	33	34
Physics	15	10	8	9	15	15	19	13
Other	1	2	1	1	0	1	1	2
Psychology	118	87	88	103	83	83	95	89
Clinical	39	28	30	32	23	28	32	31
General	35	25	26	37	24	14	22	25
Nonclinical	44	34	32	34	36	41	41	33
Social sciences	216	235	221	228	262	259	279	259
Agricultural economics	0	2	6	6	4	2	5	11
Anthropology (cultural and social)	44	49	45	49	46	37	35	39
Economics	8	11	4	6	12	16	16	13
Geography	10	8	9	13	18	19	18	13
History and philosophy of science	1	1	1	0	0	1	3	4
Linguistics	3	2	5	5	4	4	6	8
Political science and public administration	69	88	86	85	93	98	108	82
Sociology	26	23	26	20	25	29	26	25
Other	55	51	39	44	60	53	62	64
Engineering	180	173	175	138	162	175	219	201
Aerospace	3	7	8	6	6	9	11	13
Agricultural	6	2	1	1	1	0	0	1
Biomedical	5	5	7	4	4	4	4	11
Chemical	10	13	11	9	5	13	13	14
Civil	41	31	43	29	29	40	42	35
Electrical	39	25	36	26	39	27	49	43
Engineering science/physics	3	6	5	6	7	6	7	6
Industrial/manufacturing	17	23	23	27	30	27	37	37
Mechanical	27	20	25	18	23	23	35	18
Metallurgical/materials	9	27	5	3	6	9	6	6
Mining	0	0	0	1	0	2	3	1
Nuclear	2	1	1	0	0	2	1	3
Petroleum	1	2	0	1	1	1	0	0
Other	17	11	10	7	11	12	11	13
Other race/ethnicity	10,932	10,901	10,462	11,537	11,862	12,797	14,199	15,197
Science	7,310	7,471	7,392	8,196	8,549	9,155	9,795	10,759
Agricultural sciences	194	165	167	237	283	243	241	247
Biological sciences	1,053	1,122	1,171	1,184	1,122	1,196	1,400	1,502
Anatomy	17	19	9	5	7	13	14	20
Biochemistry	82	70	81	84	98	118	147	125
Biology	379	407	399	337	276	289	359	437
Biometry/epidemiology	53	87	84	78	99	63	76	103
Biophysics	29	46	25	25	16	25	29	32
Botany	27	28	30	33	29	30	33	33
Cell/molecular biology	71	65	96	128	135	152	181	157
Ecology	50	33	22	45	44	56	78	76
Entomology/parasitology	11	12	13	11	19	19	21	21
Genetics	13	14	36	56	43	49	56	54
Microbiology, immunology, and virology	64	75	137	137	136	124	118	106

TABLE D-3. Male S&E graduate students, by field, citizenship, and race/ethnicity: 1997–2004

Field, citizenship, and race/ethnicity	1997	1998	1999	2000	2001	2002	2003	2004
Nutrition	24	30	25	34	34	38	25	30
Pathology	39	37	29	26	33	32	31	25
Pharmacology	25	31	27	26	19	27	45	43
Physiology	43	30	40	42	34	37	32	29
Zoology	10	43	16	24	21	24	28	19
Other	116	95	102	93	79	100	127	192
Computer sciences	1,658	1,588	1,711	2,009	2,129	2,339	2,343	2,396
Earth, atmospheric, and ocean sciences	332	334	270	262	257	319	381	365
Atmospheric	42	15	19	17	18	21	28	24
Earth	165	167	152	143	129	175	208	171
Ocean	33	43	26	23	35	32	41	45
Other	92	109	73	79	75	91	104	125
Mathematics and statistics	438	467	379	423	437	537	660	667
Mathematics/applied mathematics	411	428	347	388	387	470	594	577
Statistics	27	39	32	35	50	67	66	90
Physical sciences	689	759	689	717	921	911	965	1,032
Astronomy	10	30	21	21	28	28	28	28
Chemistry	368	368	330	279	321	356	421	462
Physics	309	325	259	329	498	455	450	481
Other	2	36	79	88	74	72	66	61
Psychology	1,045	976	985	938	800	817	817	1,120
Clinical	184	130	181	145	176	175	178	271
General	238	294	257	278	248	221	256	272
Nonclinical	623	552	547	515	376	421	383	577
Social sciences	1,901	2,060	2,020	2,426	2,600	2,793	2,988	3,430
Agricultural economics	30	39	15	29	48	44	36	35
Anthropology (cultural and social)	114	125	155	189	209	175	201	213
Economics	257	286	187	304	313	374	352	324
Geography	124	162	129	124	106	107	126	144
History and philosophy of science	22	10	10	16	20	29	29	49
Linguistics	44	42	43	63	58	76	80	77
Political science and public administration	861	864	806	928	1,025	1,213	1,374	1,748
Sociology	110	109	113	161	155	160	148	166
Other	339	423	562	612	666	615	642	674
Engineering	3,622	3,430	3,070	3,341	3,313	3,642	4,404	4,438
Aerospace	50	60	69	77	94	126	178	165
Agricultural	26	19	10	14	12	6	15	8
Biomedical	90	79	52	56	99	109	165	160
Chemical	164	176	170	161	101	127	137	126
Civil	491	447	423	411	432	493	535	538
Electrical	1,404	1,315	1,190	1,338	1,221	1,273	1,473	1,384
Engineering science/physics	28	25	39	84	109	72	43	50
Industrial/manufacturing	453	494	415	461	451	493	650	717
Mechanical	515	532	400	427	447	517	665	665
Metallurgical/materials	154	98	70	72	86	83	75	104
Mining	8	14	4	3	5	1	15	8
Nuclear	5	5	6	2	6	9	15	25
Petroleum	7	1	2	42	40	57	11	9
Other	227	165	220	193	210	276	427	479
Temporary residents	70,685	71,939	76,963	86,034	93,797	101,244	101,333	97,198
Science	40,368	40,757	42,966	47,324	51,105	54,100	53,490	52,418
Agricultural sciences	1,954	1,808	1,683	1,564	1,576	1,601	1,558	1,593
Biological sciences	5,941	5,886	5,748	5,918	6,054	6,673	6,929	7,230
Anatomy	109	97	87	104	102	115	102	96
Biochemistry	816	820	793	869	825	909	983	1,035
Biology	1,062	1,059	1,015	1,027	1,064	1,173	1,178	1,222
Biometry/epidemiology	256	344	375	388	391	487	498	514
Biophysics	126	121	111	148	188	214	211	237

TABLE D-3. Male S&E graduate students, by field, citizenship, and race/ethnicity: 1997–2004

Field, citizenship, and race/ethnicity	1997	1998	1999	2000	2001	2002	2003	2004
Botany	346	327	331	315	301	315	291	290
Cell/molecular biology	474	471	424	468	520	566	640	704
Ecology	107	100	100	101	110	126	136	142
Entomology/parasitology	205	211	218	195	190	187	181	186
Genetics	239	199	211	196	224	206	241	244
Microbiology, immunology, and virology	526	496	461	466	460	566	509	512
Nutrition	413	365	378	385	396	406	450	408
Pathology	169	155	169	170	156	145	149	155
Pharmacology	284	294	290	306	298	289	332	359
Physiology	254	254	266	257	218	230	257	259
Zoology	116	112	91	92	113	121	91	94
Other	439	461	428	431	498	618	680	773
Computer sciences	9,234	10,197	12,022	15,588	18,395	19,247	17,511	15,883
Earth, atmospheric, and ocean sciences	1,796	1,736	1,663	1,796	1,801	1,756	1,733	1,708
Atmospheric	193	167	169	202	179	189	174	164
Earth	1,003	950	893	947	970	947	956	946
Ocean	343	351	332	324	308	281	293	279
Other	257	268	269	323	344	339	310	319
Mathematics and statistics	3,845	3,638	3,866	3,938	4,141	4,517	4,652	4,656
Mathematics/applied mathematics	3,236	3,048	3,165	3,203	3,328	3,628	3,676	3,666
Statistics	609	590	701	735	813	889	976	990
Physical sciences	7,884	7,818	8,079	8,372	8,726	9,202	9,830	10,041
Astronomy	146	164	186	201	209	230	241	273
Chemistry	3,927	3,902	3,945	3,943	4,167	4,511	4,819	4,864
Physics	3,776	3,712	3,900	4,173	4,290	4,403	4,694	4,854
Other	35	40	48	55	60	58	76	50
Psychology	750	798	790	752	777	1,092	1,155	1,245
Clinical	107	113	116	84	94	222	229	102
General	288	309	285	312	327	419	456	726
Nonclinical	355	376	389	356	356	451	470	417
Social sciences	8,964	8,876	9,115	9,396	9,635	10,012	10,122	10,062
Agricultural economics	646	614	603	638	640	630	664	616
Anthropology (cultural and social)	328	352	375	364	348	387	366	373
Economics	3,738	3,584	3,753	3,857	4,124	4,290	4,184	4,078
Geography	327	350	361	384	432	427	447	454
History and philosophy of science	46	44	41	39	45	41	47	44
Linguistics	353	367	362	346	330	328	336	347
Political science and public administration	2,067	2,128	2,278	2,360	2,320	2,417	2,579	2,626
Sociology	578	511	511	532	522	538	552	519
Other	881	926	831	876	874	954	947	1,005
Engineering	30,317	31,182	33,997	38,710	42,692	47,144	47,843	44,780
Aerospace	1,174	1,259	1,364	1,326	1,436	1,470	1,474	1,465
Agricultural	330	304	307	291	308	314	360	351
Biomedical	530	534	607	668	766	1,024	1,272	1,333
Chemical	2,220	2,217	2,301	2,509	2,651	2,804	2,757	2,655
Civil	4,054	3,906	4,223	4,777	5,047	5,464	5,586	5,228
Electrical	10,702	11,571	12,561	15,006	16,734	18,767	18,813	17,241
Engineering science/physics	379	441	430	530	590	704	780	800
Industrial/manufacturing	2,764	2,769	3,074	3,728	4,415	4,753	4,463	4,090
Mechanical	5,081	5,041	5,549	6,357	6,842	7,616	7,762	7,140
Metallurgical/materials	1,551	1,557	1,577	1,652	1,785	1,927	1,956	1,926
Mining	117	72	97	118	100	95	99	110
Nuclear	260	248	275	274	287	270	286	282
Petroleum	353	408	429	315	338	401	570	550
Other	802	855	1,203	1,159	1,393	1,535	1,665	1,609

NOTES: Race/ethnicity breakouts are for U.S. citizens and permanent residents only. Temporary residents include all racial/ethnic groups.

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering, 1997–2004.

TABLE D-4. First-time enrollment of full-time S&E graduate students, by field and sex: 1997–2004

Field and sex	1997	1998	1999	2000	2001	2002	2003	2004
S&E	73,600	74,373	75,447	78,332	82,411	86,833	89,331	86,447
Science	54,752	55,112	54,934	56,141	59,105	62,226	64,902	64,462
Agricultural sciences	2,157	2,299	2,253	2,335	2,338	2,320	2,424	2,316
Biological sciences	11,053	11,335	10,959	10,955	11,608	12,133	12,719	12,763
Anatomy	175	180	161	198	159	199	178	180
Biochemistry	998	1,022	896	929	851	880	958	907
Biology	2,687	2,498	2,521	2,282	2,376	2,532	2,610	2,718
Biometry/epidemiology	656	815	825	837	953	1,001	1,022	986
Biophysics	133	158	118	128	162	166	223	210
Botany	366	409	363	357	315	335	307	336
Cell/molecular biology	859	903	867	977	993	1,085	1,125	1,140
Ecology	251	261	251	280	348	317	345	302
Entomology/parasitology	194	233	179	185	202	203	175	211
Genetics	441	397	427	380	382	362	373	441
Microbiology, immunology, and virology	864	857	904	823	884	914	909	889
Nutrition	797	940	834	830	906	890	895	841
Pathology	350	279	320	276	320	294	256	277
Pharmacology	458	513	487	549	507	554	552	494
Physiology	633	654	608	570	615	633	760	738
Zoology	303	274	263	230	247	231	258	212
Other	888	942	935	1,124	1,388	1,537	1,773	1,881
Computer sciences	5,018	5,758	6,677	8,431	9,077	9,037	8,134	7,767
Earth, atmospheric, and ocean sciences	2,681	2,859	2,746	2,649	2,794	3,085	3,104	2,942
Atmospheric	224	189	203	222	205	213	268	228
Earth	1,339	1,348	1,296	1,230	1,383	1,437	1,412	1,336
Ocean	410	471	474	479	511	533	567	550
Other	708	851	773	718	695	902	857	828
Mathematics and statistics	3,302	3,334	3,271	3,419	3,686	3,918	4,185	4,243
Mathematics/applied mathematics	2,741	2,721	2,650	2,757	2,892	3,114	3,266	3,356
Statistics	561	613	621	662	794	804	919	887
Physical sciences	6,037	5,932	6,004	5,829	6,011	6,280	6,841	6,591
Astronomy	125	162	171	183	193	194	225	210
Chemistry	3,758	3,682	3,672	3,482	3,651	3,746	3,983	3,862
Physics	2,074	2,046	2,074	2,101	2,102	2,231	2,543	2,430
Other	80	42	87	63	65	109	90	89
Psychology	8,800	8,590	8,305	7,545	7,691	8,420	8,858	9,455
Clinical	2,059	2,001	1,992	1,829	1,731	1,898	1,986	2,251
General	3,188	3,060	2,745	2,534	2,652	2,657	3,009	2,960
Nonclinical	3,553	3,529	3,568	3,182	3,308	3,865	3,863	4,244
Social sciences	15,704	15,005	14,719	14,978	15,900	17,033	18,637	18,385
Agricultural economics	467	417	482	455	496	575	536	523
Anthropology (cultural and social)	1,196	1,219	1,193	1,157	1,119	1,177	1,279	1,180
Economics	2,368	2,352	2,355	2,508	2,562	2,843	2,921	2,686
Geography	914	805	830	784	872	812	915	858
History and philosophy of science	79	89	91	78	72	97	107	107
Linguistics	579	493	422	454	495	466	588	574
Political science and public administration	5,264	4,953	4,837	5,142	5,562	6,241	6,950	7,340
Sociology	1,525	1,428	1,307	1,300	1,431	1,535	1,543	1,346
Other	3,312	3,249	3,202	3,100	3,291	3,287	3,798	3,771
Engineering	18,848	19,261	20,513	22,191	23,306	24,607	24,429	21,985
Aerospace	735	717	727	775	767	712	845	834
Agricultural	165	155	202	177	187	187	187	177
Biomedical	671	695	734	926	889	1,139	1,337	1,277
Chemical	1,467	1,503	1,491	1,595	1,541	1,616	1,600	1,392
Civil	3,792	3,785	3,726	3,840	3,820	4,107	4,363	4,131
Electrical	5,548	5,741	6,369	7,195	7,882	8,221	7,834	6,633
Engineering science/physics	274	308	255	299	339	404	392	361
Industrial/manufacturing	1,549	1,547	1,851	2,005	2,216	2,238	2,029	1,717
Mechanical	2,829	2,923	3,119	3,269	3,583	3,709	3,476	3,139

TABLE D-4. First-time enrollment of full-time S&E graduate students, by field and sex: 1997–2004

Field and sex	1997	1998	1999	2000	2001	2002	2003	2004
Metallurgical/materials	870	900	892	1,005	975	1,044	958	924
Mining	73	44	45	48	40	41	73	64
Nuclear	178	153	150	163	164	149	177	192
Petroleum	121	132	149	149	153	198	166	151
Other	576	658	803	745	750	842	992	993
Female	29,990	30,494	31,113	32,155	34,229	37,023	38,824	38,130
Science	26,200	26,630	26,860	27,336	29,181	31,334	32,778	32,768
Agricultural sciences	932	1,043	1,018	1,156	1,172	1,160	1,247	1,167
Biological sciences	5,739	6,038	5,944	6,118	6,647	7,012	7,357	7,524
Anatomy	89	92	77	115	90	110	106	100
Biochemistry	423	463	413	451	434	457	461	465
Biology	1,372	1,297	1,349	1,224	1,339	1,455	1,501	1,600
Biometry/epidemiology	385	508	521	535	627	613	627	605
Biophysics	32	40	41	43	45	75	85	79
Botany	205	224	188	195	171	199	168	197
Cell/molecular biology	422	449	455	516	526	572	622	627
Ecology	135	123	138	153	199	173	220	174
Entomology/parasitology	73	84	64	101	92	91	88	107
Genetics	274	256	262	245	244	239	254	294
Microbiology, immunology, and virology	453	458	487	443	514	535	530	549
Nutrition	630	722	649	650	717	714	724	690
Pathology	181	157	175	173	202	184	168	177
Pharmacology	221	274	270	293	291	329	309	271
Physiology	244	258	251	257	291	296	391	393
Zoology	149	133	123	108	132	127	134	125
Other	451	500	481	616	733	843	969	1,071
Computer sciences	1,288	1,517	1,797	2,234	2,389	2,308	2,017	1,860
Earth, atmospheric, and ocean sciences	1,076	1,264	1,278	1,211	1,315	1,459	1,559	1,455
Atmospheric	67	49	71	68	87	73	100	90
Earth	475	547	543	513	586	612	655	607
Ocean	191	242	244	254	271	278	331	323
Other	343	426	420	376	371	496	473	435
Mathematics and statistics	1,225	1,238	1,257	1,282	1,442	1,525	1,606	1,567
Mathematics/applied mathematics	999	965	961	945	1,030	1,131	1,175	1,156
Statistics	226	273	296	337	412	394	431	411
Physical sciences	1,885	1,724	1,921	1,899	1,924	2,220	2,342	2,269
Astronomy	40	46	46	62	53	76	85	71
Chemistry	1,454	1,294	1,434	1,401	1,395	1,624	1,667	1,653
Physics	355	371	409	408	450	462	555	502
Other	36	13	32	28	26	58	35	43
Psychology	6,230	6,172	6,022	5,601	5,848	6,390	6,694	7,158
Clinical	1,467	1,435	1,485	1,410	1,303	1,477	1,552	1,748
General	2,202	2,140	1,902	1,820	1,962	1,928	2,188	2,102
Nonclinical	2,561	2,597	2,635	2,371	2,583	2,985	2,954	3,308
Social sciences	7,825	7,634	7,623	7,835	8,444	9,260	9,956	9,768
Agricultural economics	166	157	193	195	203	254	225	214
Anthropology (cultural and social)	723	724	734	710	702	771	843	781
Economics	820	847	810	976	936	1,107	1,102	1,006
Geography	349	317	363	321	378	354	389	365
History and philosophy of science	33	38	41	31	31	43	43	45
Linguistics	416	329	275	286	327	304	380	373
Political science and public administration	2,541	2,418	2,503	2,634	2,962	3,496	3,736	3,895
Sociology	949	922	852	857	957	1,010	1,020	878
Other	1,828	1,882	1,852	1,825	1,948	1,921	2,218	2,211
Engineering	3,790	3,864	4,253	4,819	5,048	5,689	6,046	5,362
Aerospace	94	89	96	127	111	120	131	150
Agricultural	57	47	76	64	68	61	69	68
Biomedical	231	222	247	348	326	465	521	521

TABLE D-4. First-time enrollment of full-time S&E graduate students, by field and sex: 1997–2004

Field and sex	1997	1998	1999	2000	2001	2002	2003	2004
Chemical	390	386	382	398	400	474	501	412
Civil	1,007	1,015	1,066	1,175	1,098	1,238	1,441	1,306
Electrical	852	926	1,112	1,247	1,558	1,712	1,666	1,281
Engineering science/physics	52	68	48	72	71	89	99	89
Industrial/manufacturing	327	313	349	459	443	476	530	452
Mechanical	393	350	390	432	478	482	516	462
Metallurgical/materials	211	251	248	243	262	297	261	258
Mining	16	9	10	11	7	9	14	5
Nuclear	25	29	35	43	40	26	40	51
Petroleum	9	15	21	25	23	34	31	31
Other	126	144	173	175	163	206	226	276
Male	43,610	43,879	44,334	46,177	48,182	49,810	50,507	48,317
Science	28,552	28,482	28,074	28,805	29,924	30,892	32,124	31,694
Agricultural sciences	1,225	1,256	1,235	1,179	1,166	1,160	1,177	1,149
Biological sciences	5,314	5,297	5,015	4,837	4,961	5,121	5,362	5,239
Anatomy	86	88	84	83	69	89	72	80
Biochemistry	575	559	483	478	417	423	497	442
Biology	1,315	1,201	1,172	1,058	1,037	1,077	1,109	1,118
Biometry/epidemiology	271	307	304	302	326	388	395	381
Biophysics	101	118	77	85	117	91	138	131
Botany	161	185	175	162	144	136	139	139
Cell/molecular biology	437	454	412	461	467	513	503	513
Ecology	116	138	113	127	149	144	125	128
Entomology/parasitology	121	149	115	84	110	112	87	104
Genetics	167	141	165	135	138	123	119	147
Microbiology, immunology, and virology	411	399	417	380	370	379	379	340
Nutrition	167	218	185	180	189	176	171	151
Pathology	169	122	145	103	118	110	88	100
Pharmacology	237	239	217	256	216	225	243	223
Physiology	389	396	357	313	324	337	369	345
Zoology	154	141	140	122	115	104	124	87
Other	437	442	454	508	655	694	804	810
Computer sciences	3,730	4,241	4,880	6,197	6,688	6,729	6,117	5,907
Earth, atmospheric, and ocean sciences	1,605	1,595	1,468	1,438	1,479	1,626	1,545	1,487
Atmospheric	157	140	132	154	118	140	168	138
Earth	864	801	753	717	797	825	757	729
Ocean	219	229	230	225	240	255	236	227
Other	365	425	353	342	324	406	384	393
Mathematics and statistics	2,077	2,096	2,014	2,137	2,244	2,393	2,579	2,676
Mathematics/applied mathematics	1,742	1,756	1,689	1,812	1,862	1,983	2,091	2,200
Statistics	335	340	325	325	382	410	488	476
Physical sciences	4,152	4,208	4,083	3,930	4,087	4,060	4,499	4,322
Astronomy	85	116	125	121	140	118	140	139
Chemistry	2,304	2,388	2,238	2,081	2,256	2,122	2,316	2,209
Physics	1,719	1,675	1,665	1,693	1,652	1,769	1,988	1,928
Other	44	29	55	35	39	51	55	46
Psychology	2,570	2,418	2,283	1,944	1,843	2,030	2,164	2,297
Clinical	592	566	507	419	428	421	434	503
General	986	920	843	714	690	729	821	858
Nonclinical	992	932	933	811	725	880	909	936
Social sciences	7,879	7,371	7,096	7,143	7,456	7,773	8,681	8,617
Agricultural economics	301	260	289	260	293	321	311	309
Anthropology (cultural and social)	473	495	459	447	417	406	436	399
Economics	1,548	1,505	1,545	1,532	1,626	1,736	1,819	1,680
Geography	565	488	467	463	494	458	526	493
History and philosophy of science	46	51	50	47	41	54	64	62
Linguistics	163	164	147	168	168	162	208	201
Political science and public administration	2,723	2,535	2,334	2,508	2,600	2,745	3,214	3,445

TABLE D-4. First-time enrollment of full-time S&E graduate students, by field and sex: 1997–2004

Field and sex	1997	1998	1999	2000	2001	2002	2003	2004
Sociology	576	506	455	443	474	525	523	468
Other	1,484	1,367	1,350	1,275	1,343	1,366	1,580	1,560
Engineering	15,058	15,397	16,260	17,372	18,258	18,918	18,383	16,623
Aerospace	641	628	631	648	656	592	714	684
Agricultural	108	108	126	113	119	126	118	109
Biomedical	440	473	487	578	563	674	816	756
Chemical	1,077	1,117	1,109	1,197	1,141	1,142	1,099	980
Civil	2,785	2,770	2,660	2,665	2,722	2,869	2,922	2,825
Electrical	4,696	4,815	5,257	5,948	6,324	6,509	6,168	5,352
Engineering science/physics	222	240	207	227	268	315	293	272
Industrial/manufacturing	1,222	1,234	1,502	1,546	1,773	1,762	1,499	1,265
Mechanical	2,436	2,573	2,729	2,837	3,105	3,227	2,960	2,677
Metallurgical/materials	659	649	644	762	713	747	697	666
Mining	57	35	35	37	33	32	59	59
Nuclear	153	124	115	120	124	123	137	141
Petroleum	112	117	128	124	130	164	135	120
Other	450	514	630	570	587	636	766	717

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering, 1997–2004.

TABLE D-5. First-time enrollment of full-time S&E graduate students, by field, citizenship, and race/ethnicity: 2000–2004

Field, citizenship, and race/ethnicity	2000	2001	2002	2003	2004
S&E	78,332	82,411	86,833	89,331	86,447
Science	56,141	59,105	62,226	64,902	64,462
Agricultural sciences	2,335	2,338	2,320	2,424	2,316
Biological sciences	10,955	11,608	12,133	12,719	12,763
Anatomy	198	159	199	178	180
Biochemistry	929	851	880	958	907
Biology	2,282	2,376	2,532	2,610	2,718
Biometry/epidemiology	837	953	1,001	1,022	986
Biophysics	128	162	166	223	210
Botany	357	315	335	307	336
Cell/molecular biology	977	993	1,085	1,125	1,140
Ecology	280	348	317	345	302
Entomology/parasitology	185	202	203	175	211
Genetics	380	382	362	373	441
Microbiology, immunology, and virology	823	884	914	909	889
Nutrition	830	906	890	895	841
Pathology	276	320	294	256	277
Pharmacology	549	507	554	552	494
Physiology	570	615	633	760	738
Zoology	230	247	231	258	212
Other	1,124	1,388	1,537	1,773	1,881
Computer sciences	8,431	9,077	9,037	8,134	7,767
Earth, atmospheric, and ocean sciences	2,649	2,794	3,085	3,104	2,942
Atmospheric	222	205	213	268	228
Earth	1,230	1,383	1,437	1,412	1,336
Ocean	479	511	533	567	550
Other	718	695	902	857	828
Mathematics and statistics	3,419	3,686	3,918	4,185	4,243
Mathematics/applied mathematics	2,757	2,892	3,114	3,266	3,356
Statistics	662	794	804	919	887
Physical sciences	5,829	6,011	6,280	6,841	6,591
Astronomy	183	193	194	225	210
Chemistry	3,482	3,651	3,746	3,983	3,862
Physics	2,101	2,102	2,231	2,543	2,430
Other	63	65	109	90	89
Psychology	7,545	7,691	8,420	8,858	9,455
Clinical	1,829	1,731	1,898	1,986	2,251
General	2,534	2,652	2,657	3,009	2,960
Nonclinical	3,182	3,308	3,865	3,863	4,244
Social sciences	14,978	15,900	17,033	18,637	18,385
Agricultural economics	455	496	575	536	523
Anthropology (cultural and social)	1,157	1,119	1,177	1,279	1,180
Economics	2,508	2,562	2,843	2,921	2,686
Geography	784	872	812	915	858
History and philosophy of science	78	72	97	107	107
Linguistics	454	495	466	588	574
Political science and public administration	5,142	5,562	6,241	6,950	7,340
Sociology	1,300	1,431	1,535	1,543	1,346
Other	3,100	3,291	3,287	3,798	3,771
Engineering	22,191	23,306	24,607	24,429	21,985
Aerospace	775	767	712	845	834
Agricultural	177	187	187	187	177
Biomedical	926	889	1,139	1,337	1,277
Chemical	1,595	1,541	1,616	1,600	1,392
Civil	3,840	3,820	4,107	4,363	4,131
Electrical	7,195	7,882	8,221	7,834	6,633
Engineering science/physics	299	339	404	392	361
Industrial/manufacturing	2,005	2,216	2,238	2,029	1,717

TABLE D-5. First-time enrollment of full-time S&E graduate students, by field, citizenship, and race/ethnicity: 2000–2004

Field, citizenship, and race/ethnicity	2000	2001	2002	2003	2004
Mechanical	3,269	3,583	3,709	3,476	3,139
Metallurgical/materials	1,005	975	1,044	958	924
Mining	48	40	41	73	64
Nuclear	163	164	149	177	192
Petroleum	149	153	198	166	151
Other	745	750	842	992	993
U.S. citizens and permanent residents	46,316	48,232	54,659	59,669	58,961
Science	37,698	39,543	43,886	47,390	47,732
Agricultural sciences	1,916	1,845	1,856	1,971	1,870
Biological sciences	8,355	8,772	9,269	9,763	9,824
Anatomy	162	134	174	138	156
Biochemistry	577	530	561	627	564
Biology	1,837	1,883	2,052	2,139	2,250
Biometry/epidemiology	583	693	648	706	709
Biophysics	88	104	117	154	146
Botany	244	224	226	231	221
Cell/molecular biology	748	715	814	822	829
Ecology	241	303	280	291	261
Entomology/parasitology	146	144	163	142	163
Genetics	307	293	298	283	341
Microbiology, immunology, and virology	640	660	686	718	671
Nutrition	603	668	673	678	621
Pathology	215	266	248	194	227
Pharmacology	382	350	417	415	375
Physiology	475	519	552	640	647
Zoology	195	216	194	221	182
Other	912	1,070	1,166	1,364	1,461
Computer sciences	2,414	2,621	3,534	3,891	3,651
Earth, atmospheric, and ocean sciences	2,082	2,210	2,550	2,573	2,480
Atmospheric	147	140	159	220	186
Earth	986	1,091	1,179	1,129	1,102
Ocean	374	426	447	485	487
Other	575	553	765	739	705
Mathematics and statistics	1,849	2,030	2,311	2,527	2,629
Mathematics/applied mathematics	1,532	1,717	1,952	2,106	2,219
Statistics	317	313	359	421	410
Physical sciences	3,323	3,325	3,775	4,095	4,034
Astronomy	123	135	137	150	145
Chemistry	2,151	2,125	2,292	2,442	2,400
Physics	1,009	1,025	1,270	1,442	1,415
Other	40	40	76	61	74
Psychology	7,060	7,167	7,902	8,285	8,938
Clinical	1,751	1,634	1,806	1,898	2,170
General	2,342	2,455	2,466	2,794	2,759
Nonclinical	2,967	3,078	3,630	3,593	4,009
Social sciences	10,699	11,573	12,689	14,285	14,306
Agricultural economics	231	250	353	321	319
Anthropology (cultural and social)	996	985	1,028	1,142	1,061
Economics	976	1,025	1,206	1,373	1,270
Geography	626	703	675	741	730
History and philosophy of science	65	62	90	95	97
Linguistics	257	294	305	405	385
Political science and public administration	3,870	4,291	4,949	5,561	5,996
Sociology	1,062	1,163	1,302	1,340	1,196
Other	2,616	2,800	2,781	3,307	3,252
Engineering	8,618	8,689	10,773	12,279	11,229
Aerospace	374	348	396	536	537
Agricultural	102	101	107	111	96

TABLE D-5. First-time enrollment of full-time S&E graduate students, by field, citizenship, and race/ethnicity: 2000–2004

Field, citizenship, and race/ethnicity	2000	2001	2002	2003	2004
Biomedical	602	559	721	886	861
Chemical	659	616	765	856	744
Civil	2,009	1,989	2,250	2,595	2,556
Electrical	1,901	1,985	2,679	3,127	2,484
Engineering science/physics	136	164	228	231	225
Industrial/manufacturing	596	600	789	840	762
Mechanical	1,238	1,384	1,692	1,847	1,691
Metallurgical/materials	413	410	502	479	454
Mining	28	27	27	38	37
Nuclear	78	76	99	114	138
Petroleum	56	52	47	25	46
Other	426	378	471	594	598
White	33,868	34,664	38,773	41,619	40,570
Science	27,874	28,737	31,484	33,551	32,985
Agricultural sciences	1,670	1,560	1,571	1,638	1,528
Biological sciences	6,222	6,368	6,793	6,928	6,795
Anatomy	120	117	125	96	107
Biochemistry	415	380	423	417	401
Biology	1,430	1,396	1,593	1,580	1,596
Biometry/epidemiology	364	448	417	460	418
Biophysics	59	69	75	118	104
Botany	214	195	190	186	168
Cell/molecular biology	536	473	551	546	539
Ecology	210	254	234	238	217
Entomology/parasitology	126	118	150	122	140
Genetics	233	217	228	205	261
Microbiology, immunology, and virology	461	478	481	506	452
Nutrition	499	536	544	529	454
Pathology	161	195	182	130	176
Pharmacology	281	230	280	261	238
Physiology	283	334	340	416	386
Zoology	173	195	171	192	160
Other	657	733	809	926	978
Computer sciences	1,481	1,578	2,046	2,399	2,161
Earth, atmospheric, and ocean sciences	1,836	1,935	2,164	2,175	2,079
Atmospheric	124	125	142	190	155
Earth	882	979	1,004	984	955
Ocean	339	360	385	410	417
Other	491	471	633	591	552
Mathematics and statistics	1,384	1,569	1,722	1,848	1,904
Mathematics/applied mathematics	1,162	1,321	1,465	1,546	1,625
Statistics	222	248	257	302	279
Physical sciences	2,587	2,557	2,935	3,113	3,029
Astronomy	98	115	113	118	126
Chemistry	1,666	1,621	1,781	1,817	1,762
Physics	788	790	985	1,128	1,087
Other	35	31	56	50	54
Psychology	5,274	5,251	5,793	5,971	6,075
Clinical	1,318	1,171	1,309	1,352	1,482
General	1,728	1,822	1,863	2,047	1,980
Nonclinical	2,228	2,258	2,621	2,572	2,613
Social sciences	7,420	7,919	8,460	9,479	9,414
Agricultural economics	197	213	300	262	262
Anthropology (cultural and social)	778	768	776	859	781
Economics	687	700	770	894	870
Geography	546	605	590	626	603
History and philosophy of science	54	53	68	69	73

TABLE D-5. First-time enrollment of full-time S&E graduate students, by field, citizenship, and race/ethnicity: 2000–2004

Field, citizenship, and race/ethnicity	2000	2001	2002	2003	2004
Linguistics	195	220	231	290	280
Political science and public administration	2,466	2,799	3,068	3,476	3,727
Sociology	748	804	876	905	826
Other	1,749	1,757	1,781	2,098	1,992
Engineering	5,994	5,927	7,289	8,068	7,585
Aerospace	285	295	308	394	408
Agricultural	80	80	90	85	78
Biomedical	420	359	465	545	491
Chemical	455	434	510	576	556
Civil	1,542	1,470	1,701	1,970	1,934
Electrical	1,121	1,144	1,480	1,617	1,383
Engineering science/physics	96	112	171	178	166
Industrial/manufacturing	355	392	514	512	452
Mechanical	950	983	1,244	1,322	1,243
Metallurgical/materials	323	321	383	338	349
Mining	25	22	24	35	29
Nuclear	63	65	85	95	110
Petroleum	13	6	10	17	27
Other	266	244	304	384	359
Asian/Pacific Islander	4,061	4,300	5,376	5,808	5,690
Science	2,906	3,042	3,596	3,855	4,025
Agricultural sciences	39	51	50	55	59
Biological sciences	883	927	990	1,126	1,249
Anatomy	18	10	16	19	17
Biochemistry	78	69	53	103	80
Biology	128	105	125	154	182
Biometry/epidemiology	83	111	100	110	126
Biophysics	22	23	22	18	23
Botany	14	13	12	22	20
Cell/molecular biology	103	95	116	114	136
Ecology	7	8	7	9	10
Entomology/parasitology	5	8	2	7	8
Genetics	31	27	34	39	28
Microbiology, immunology, and virology	56	71	80	77	102
Nutrition	40	55	48	57	57
Pathology	23	32	35	27	26
Pharmacology	52	54	50	57	51
Physiology	125	133	156	165	193
Zoology	4	4	5	8	10
Other	94	109	129	140	180
Computer sciences	551	553	830	736	657
Earth, atmospheric, and ocean sciences	58	71	79	66	85
Atmospheric	4	6	5	16	7
Earth	26	29	36	15	30
Ocean	9	14	14	8	14
Other	19	22	24	27	34
Mathematics and statistics	176	181	234	269	288
Mathematics/applied mathematics	132	152	180	213	220
Statistics	44	29	54	56	68
Physical sciences	275	241	237	297	318
Astronomy	7	6	9	11	6
Chemistry	189	153	151	201	223
Physics	78	78	68	79	82
Other	1	4	9	6	7

TABLE D-5. First-time enrollment of full-time S&E graduate students, by field, citizenship, and race/ethnicity: 2000–2004

Field, citizenship, and race/ethnicity	2000	2001	2002	2003	2004
Psychology	341	330	357	394	465
Clinical	97	83	88	97	111
General	109	118	114	155	164
Nonclinical	135	129	155	142	190
Social sciences	583	688	819	912	904
Agricultural economics	3	7	10	11	13
Anthropology (cultural and social)	36	36	42	44	31
Economics	85	110	142	162	149
Geography	16	27	18	29	27
History and philosophy of science	3	1	5	5	5
Linguistics	17	28	26	35	25
Political science and public administration	253	283	340	349	387
Sociology	47	59	74	78	56
Other	123	137	162	199	211
Engineering	1,155	1,258	1,780	1,953	1,665
Aerospace	42	23	41	50	46
Agricultural	5	11	11	13	14
Biomedical	103	111	146	154	211
Chemical	101	94	130	131	90
Civil	153	180	211	218	225
Electrical	422	444	743	864	601
Engineering science/physics	21	33	39	31	38
Industrial/manufacturing	74	75	119	132	90
Mechanical	112	177	195	208	171
Metallurgical/materials	46	36	69	73	55
Mining	1	5	1	2	2
Nuclear	8	3	3	7	9
Petroleum	11	12	8	2	10
Other	56	54	64	68	103
Black	2,908	3,020	3,342	3,584	3,869
Science	2,446	2,617	2,859	3,080	3,353
Agricultural sciences	51	65	64	105	74
Biological sciences	386	472	458	503	617
Anatomy	9	1	8	3	7
Biochemistry	27	20	19	33	23
Biology	88	137	106	114	165
Biometry/epidemiology	33	45	52	41	58
Biophysics	2	3	4	4	3
Botany	6	3	6	1	1
Cell/molecular biology	26	34	31	31	44
Ecology	2	3	3	8	5
Entomology/parasitology	3	5	1	2	2
Genetics	14	13	9	13	16
Microbiology, immunology, and virology	35	35	36	40	41
Nutrition	23	29	28	27	46
Pathology	9	12	9	13	10
Pharmacology	19	32	33	34	46
Physiology	23	21	16	19	22
Zoology	4	2	5	0	1
Other	63	77	92	120	127
Computer sciences	130	142	191	207	227
Earth, atmospheric, and ocean sciences	31	38	49	51	38
Atmospheric	2	1	5	2	7
Earth	7	10	16	15	8

TABLE D-5. First-time enrollment of full-time S&E graduate students, by field, citizenship, and race/ethnicity: 2000–2004

Field, citizenship, and race/ethnicity	2000	2001	2002	2003	2004
Ocean	3	10	10	8	5
Other	19	17	18	26	18
Mathematics and statistics	105	87	118	130	143
Mathematics/applied mathematics	93	77	102	105	119
Statistics	12	10	16	25	24
Physical sciences	146	161	168	186	194
Astronomy	3	1	2	2	3
Chemistry	110	121	114	131	136
Physics	32	38	50	52	50
Other	1	1	2	1	5
Psychology	530	530	562	581	655
Clinical	115	99	116	120	131
General	201	217	184	222	223
Nonclinical	214	214	262	239	301
Social sciences	1,067	1,122	1,249	1,317	1,405
Agricultural economics	18	15	26	18	14
Anthropology (cultural and social)	40	28	34	42	43
Economics	61	38	58	75	78
Geography	13	20	18	18	20
History and philosophy of science	1	0	3	3	3
Linguistics	5	3	3	9	12
Political science and public administration	542	529	591	596	684
Sociology	95	147	161	176	142
Other	292	342	355	380	409
Engineering	462	403	483	504	516
Aerospace	14	4	8	9	18
Agricultural	5	5	4	5	2
Biomedical	26	29	33	35	50
Chemical	36	31	36	37	30
Civil	79	72	59	47	82
Electrical	108	108	130	136	123
Engineering science/physics	2	2	7	4	3
Industrial/manufacturing	72	50	79	76	73
Mechanical	58	60	66	70	58
Metallurgical/materials	23	20	23	22	8
Mining	0	0	0	0	1
Nuclear	4	0	1	3	4
Petroleum	0	0	1	2	6
Other	35	22	36	58	58
Hispanic	2,331	2,626	3,021	3,313	3,421
Science	1,872	2,146	2,469	2,634	2,775
Agricultural sciences	75	65	69	78	93
Biological sciences	385	487	525	537	545
Anatomy	8	3	9	10	13
Biochemistry	28	35	39	38	28
Biology	82	126	110	121	119
Biometry/epidemiology	38	32	48	56	57
Biophysics	1	7	3	5	9
Botany	2	4	4	6	14
Cell/molecular biology	40	46	61	42	51
Ecology	6	11	11	5	10
Entomology/parasitology	8	7	3	5	6
Genetics	7	16	12	4	13
Microbiology, immunology, and virology	36	47	53	61	44

TABLE D-5. First-time enrollment of full-time S&E graduate students, by field, citizenship, and race/ethnicity: 2000–2004

Field, citizenship, and race/ethnicity	2000	2001	2002	2003	2004
Nutrition	18	19	24	38	33
Pathology	7	16	8	13	7
Pharmacology	20	25	33	22	17
Physiology	19	12	22	15	29
Zoology	4	6	4	5	4
Other	61	75	81	91	91
Computer sciences	56	70	102	121	140
Earth, atmospheric, and ocean sciences	65	67	90	87	92
Atmospheric	3	2	2	3	8
Earth	29	24	43	29	36
Ocean	14	26	25	33	27
Other	19	15	20	22	21
Mathematics and statistics	73	87	88	97	96
Mathematics/applied mathematics	60	77	77	84	80
Statistics	13	10	11	13	16
Physical sciences	136	153	193	217	209
Astronomy	4	3	4	6	5
Chemistry	96	117	129	147	126
Physics	34	31	55	62	76
Other	2	2	5	2	2
Psychology	403	416	556	585	637
Clinical	114	124	149	166	194
General	142	111	135	162	159
Nonclinical	147	181	272	257	284
Social sciences	679	801	846	912	963
Agricultural economics	5	9	8	12	12
Anthropology (cultural and social)	52	65	77	71	80
Economics	36	63	62	73	60
Geography	18	11	16	25	22
History and philosophy of science	0	3	5	4	2
Linguistics	17	17	20	18	27
Political science and public administration	277	298	335	348	437
Sociology	87	83	99	102	80
Other	187	252	224	259	243
Engineering	459	480	552	679	646
Aerospace	11	7	14	25	27
Agricultural	7	3	0	2	0
Biomedical	21	18	23	37	37
Chemical	39	31	52	71	44
Civil	139	155	139	175	145
Electrical	87	93	144	157	162
Engineering science/physics	4	4	4	9	5
Industrial/manufacturing	52	34	41	43	73
Mechanical	60	84	86	108	96
Metallurgical/materials	9	14	13	20	18
Mining	1	0	0	0	2
Nuclear	3	7	5	5	4
Petroleum	16	18	10	2	2
Other	10	12	21	25	31
American Indian/Alaska Native	248	296	272	318	344
Science	218	258	232	267	301
Agricultural sciences	11	11	16	15	20
Biological sciences	33	42	29	56	45
Anatomy	1	1	0	3	0

TABLE D-5. First-time enrollment of full-time S&E graduate students, by field, citizenship, and race/ethnicity: 2000–2004

Field, citizenship, and race/ethnicity	2000	2001	2002	2003	2004
Biochemistry	2	1	1	5	3
Biology	9	9	4	9	10
Biometry/epidemiology	4	5	3	5	2
Biophysics	0	0	0	0	3
Botany	0	1	0	1	1
Cell/molecular biology	2	4	3	2	4
Ecology	1	3	2	2	2
Entomology/parasitology	1	0	0	1	0
Genetics	2	2	2	1	3
Microbiology, immunology, and virology	4	2	4	3	3
Nutrition	0	2	2	3	2
Pathology	0	0	0	2	0
Pharmacology	2	2	3	7	5
Physiology	1	4	3	3	1
Zoology	1	2	0	3	1
Other	3	4	2	6	5
Computer sciences	3	11	11	13	13
Earth, atmospheric, and ocean sciences	13	17	17	7	20
Atmospheric	1	2	1	1	2
Earth	7	8	5	3	6
Ocean	1	2	3	1	5
Other	4	5	8	2	7
Mathematics and statistics	5	5	3	5	9
Mathematics/applied mathematics	4	4	3	5	9
Statistics	1	1	0	0	0
Physical sciences	12	15	20	14	16
Astronomy	1	0	2	1	0
Chemistry	9	12	10	11	12
Physics	2	3	8	1	3
Other	0	0	0	1	1
Psychology	40	50	49	57	61
Clinical	9	14	17	17	19
General	14	13	17	19	18
Nonclinical	17	23	15	21	24
Social sciences	101	107	87	100	117
Agricultural economics	1	0	2	1	5
Anthropology (cultural and social)	16	16	6	20	17
Economics	4	7	6	4	1
Geography	2	4	4	2	4
History and philosophy of science	0	0	0	1	0
Linguistics	0	5	3	3	6
Political science and public administration	27	31	21	32	41
Sociology	14	12	7	8	7
Other	37	32	38	29	36
Engineering	30	38	40	51	43
Aerospace	3	1	1	7	1
Agricultural	1	0	0	0	0
Biomedical	0	1	2	1	5
Chemical	1	4	9	2	3
Civil	12	7	11	7	11
Electrical	4	5	5	13	6
Engineering science/physics	2	2	2	5	1
Industrial/manufacturing	3	8	0	4	5
Mechanical	4	6	6	8	8

TABLE D-5. First-time enrollment of full-time S&E graduate students, by field, citizenship, and race/ethnicity: 2000–2004

Field, citizenship, and race/ethnicity	2000	2001	2002	2003	2004
Metallurgical/materials	0	1	0	2	0
Mining	0	0	2	0	0
Nuclear	0	0	0	0	1
Petroleum	0	0	0	0	0
Other	0	3	2	2	2
Other race/ethnicity	2,900	3,326	3,875	5,027	5,067
Science	2,382	2,743	3,246	4,003	4,293
Agricultural sciences	70	93	86	80	96
Biological sciences	446	476	474	613	573
Anatomy	6	2	16	7	12
Biochemistry	27	25	26	31	29
Biology	100	110	114	161	178
Biometry/epidemiology	61	52	28	34	48
Biophysics	4	2	13	9	4
Botany	8	8	14	15	17
Cell/molecular biology	41	63	52	87	55
Ecology	15	24	23	29	17
Entomology/parasitology	3	6	7	5	7
Genetics	20	18	13	21	20
Microbiology, immunology, and virology	48	27	32	31	29
Nutrition	23	27	27	24	29
Pathology	15	11	14	9	8
Pharmacology	8	7	18	34	18
Physiology	24	15	15	22	16
Zoology	9	7	9	13	6
Other	34	72	53	81	80
Computer sciences	193	267	354	415	453
Earth, atmospheric, and ocean sciences	79	82	151	187	166
Atmospheric	13	4	4	8	7
Earth	35	41	75	83	67
Ocean	8	14	10	25	19
Other	23	23	62	71	73
Mathematics and statistics	106	101	146	178	189
Mathematics/applied mathematics	81	86	125	153	166
Statistics	25	15	21	25	23
Physical sciences	167	198	222	268	268
Astronomy	10	10	7	12	5
Chemistry	81	101	107	135	141
Physics	75	85	104	120	117
Other	1	2	4	1	5
Psychology	472	590	585	697	1,045
Clinical	98	143	127	146	233
General	148	174	153	189	215
Nonclinical	226	273	305	362	597
Social sciences	849	936	1,228	1,565	1,503
Agricultural economics	7	6	7	17	13
Anthropology (cultural and social)	74	72	93	106	109
Economics	103	107	168	165	112
Geography	31	36	29	41	54
History and philosophy of science	7	5	9	13	14
Linguistics	23	21	22	50	35
Political science and public administration	305	351	594	760	720
Sociology	71	58	85	71	85
Other	228	280	221	342	361

TABLE D-5. First-time enrollment of full-time S&E graduate students, by field, citizenship, and race/ethnicity: 2000–2004

Field, citizenship, and race/ethnicity	2000	2001	2002	2003	2004
Engineering	518	583	629	1,024	774
Aerospace	19	18	24	51	37
Agricultural	4	2	2	6	2
Biomedical	32	41	52	114	67
Chemical	27	22	28	39	21
Civil	84	105	129	178	159
Electrical	159	191	177	340	209
Engineering science/physics	11	11	5	4	12
Industrial/manufacturing	40	41	36	73	69
Mechanical	54	74	95	131	115
Metallurgical/materials	12	18	14	24	24
Mining	1	0	0	1	3
Nuclear	0	1	5	4	10
Petroleum	16	16	18	2	1
Other	59	43	44	57	45
Temporary residents	32,016	34,179	32,174	29,662	27,486
Science	18,443	19,562	18,340	17,512	16,730
Agricultural sciences	419	493	464	453	446
Biological sciences	2,600	2,836	2,864	2,956	2,939
Anatomy	36	25	25	40	24
Biochemistry	352	321	319	331	343
Biology	445	493	480	471	468
Biometry/epidemiology	254	260	353	316	277
Biophysics	40	58	49	69	64
Botany	113	91	109	76	115
Cell/molecular biology	229	278	271	303	311
Ecology	39	45	37	54	41
Entomology/parasitology	39	58	40	33	48
Genetics	73	89	64	90	100
Microbiology, immunology, and virology	183	224	228	191	218
Nutrition	227	238	217	217	220
Pathology	61	54	46	62	50
Pharmacology	167	157	137	137	119
Physiology	95	96	81	120	91
Zoology	35	31	37	37	30
Other	212	318	371	409	420
Computer sciences	6,017	6,456	5,503	4,243	4,116
Earth, atmospheric, and ocean sciences	567	584	535	531	462
Atmospheric	75	65	54	48	42
Earth	244	292	258	283	234
Ocean	105	85	86	82	63
Other	143	142	137	118	123
Mathematics and statistics	1,570	1,656	1,607	1,658	1,614
Mathematics/applied mathematics	1,225	1,175	1,162	1,160	1,137
Statistics	345	481	445	498	477
Physical sciences	2,506	2,686	2,505	2,746	2,557
Astronomy	60	58	57	75	65
Chemistry	1,331	1,526	1,454	1,541	1,462
Physics	1,092	1,077	961	1,101	1,015
Other	23	25	33	29	15
Psychology	485	524	518	573	517
Clinical	78	97	92	88	81
General	192	197	191	215	201
Nonclinical	215	230	235	270	235

TABLE D-5. First-time enrollment of full-time S&E graduate students, by field, citizenship, and race/ethnicity: 2000–2004

Field, citizenship, and race/ethnicity	2000	2001	2002	2003	2004
Social sciences	4,279	4,327	4,344	4,352	4,079
Agricultural economics	224	246	222	215	204
Anthropology (cultural and social)	161	134	149	137	119
Economics	1,532	1,537	1,637	1,548	1,416
Geography	158	169	137	174	128
History and philosophy of science	13	10	7	12	10
Linguistics	197	201	161	183	189
Political science and public administration	1,272	1,271	1,292	1,389	1,344
Sociology	238	268	233	203	150
Other	484	491	506	491	519
Engineering	13,573	14,617	13,834	12,150	10,756
Aerospace	401	419	316	309	297
Agricultural	75	86	80	76	81
Biomedical	324	330	418	451	416
Chemical	936	925	851	744	648
Civil	1,831	1,831	1,857	1,768	1,575
Electrical	5,294	5,897	5,542	4,707	4,149
Engineering science/physics	163	175	176	161	136
Industrial/manufacturing	1,409	1,616	1,449	1,189	955
Mechanical	2,031	2,199	2,017	1,629	1,448
Metallurgical/materials	592	565	542	479	470
Mining	20	13	14	35	27
Nuclear	85	88	50	63	54
Petroleum	93	101	151	141	105
Other	319	372	371	398	395

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering, 2000–2004.

TABLE D-6. Black U.S.-citizen and permanent-resident S&E graduate students in all institutions and HBCUs, by field and sex: 2004

Field	All institutions			HBCUs			Black students in HBCUs		
	Both sexes	Female	Male	Both sexes	Female	Male	Both sexes	Female	Male
							Number	Percent	Percent
S&E	24,695	14,883	9,812	4,106	2,659	1,447	16.6	17.9	14.7
Science	21,283	13,752	7,531	3,707	2,506	1,201	17.4	18.2	15.9
Agricultural sciences	394	241	153	170	102	68	43.1	42.3	44.4
Biological sciences	2,886	2,025	861	568	398	170	19.7	19.7	19.7
Anatomy	51	34	17	8	7	1	15.7	20.6	5.9
Biochemistry	156	97	59	24	14	10	15.4	14.4	16.9
Biology	780	535	245	251	173	78	32.2	32.3	31.8
Biometry and epidemiology	263	193	70	0	0	0	0.0	0.0	0.0
Biophysics	23	10	13	0	0	0	0.0	0.0	0.0
Botany	18	12	6	0	0	0	0.0	0.0	0.0
Cell and molecular biology	186	123	63	0	0	0	0.0	0.0	0.0
Ecology	27	19	8	0	0	0	0.0	0.0	0.0
Entomology and parasitology	11	9	2	0	0	0	0.0	0.0	0.0
Genetics	68	53	15	22	16	6	32.4	30.2	40.0
Microbiology, immunology, and virology	244	161	83	35	23	12	14.3	14.3	14.5
Nutrition	293	244	49	84	67	17	28.7	27.5	34.7
Pathology	59	43	16	0	0	0	0.0	0.0	0.0
Pharmacology	192	125	67	54	37	17	28.1	29.6	25.4
Physiology	104	69	35	26	16	10	25.0	23.2	28.6
Zoology	11	7	4	0	0	0	0.0	0.0	0.0
Other	400	291	109	64	45	19	16.0	15.5	17.4
Computer sciences	1,818	714	1,104	208	82	126	11.4	11.5	11.4
Earth, atmospheric, and ocean sciences	260	141	119	57	27	30	21.9	19.1	25.2
Atmospheric	36	14	22	15	4	11	41.7	28.6	50.0
Earth	83	43	40	0	0	0	0.0	0.0	0.0
Ocean	30	22	8	0	0	0	0.0	0.0	0.0
Other	111	62	49	42	23	19	37.8	37.1	38.8
Mathematics and statistics	692	328	364	100	45	55	14.5	13.7	15.1
Mathematics/applied mathematics	579	277	302	100	45	55	17.3	16.2	18.2
Statistics	113	51	62	0	0	0	0.0	0.0	0.0
Physical sciences	995	454	541	205	98	107	20.6	21.6	19.8
Astronomy	10	6	4	0	0	0	0.0	0.0	0.0
Chemistry	713	380	333	126	72	54	17.7	18.9	16.2
Physics	248	57	191	79	26	53	31.9	45.6	27.7
Other	24	11	13	0	0	0	0.0	0.0	0.0
Psychology	4,994	3,751	1,243	882	740	142	17.7	19.7	11.4
Clinical	894	724	170	0	0	0	0.0	0.0	0.0
General	1,828	1,184	644	359	307	52	19.6	25.9	8.1
Nonclinical	2,272	1,843	429	523	433	90	23.0	23.5	21.0
Social sciences	9,244	6,098	3,146	1,517	1,014	503	16.4	16.6	16.0
Agricultural economics	52	28	24	13	11	2	25.0	39.3	8.3
Anthropology (cultural and social)	271	216	55	0	0	0	0.0	0.0	0.0
Economics	381	157	224	17	8	9	4.5	5.1	4.0
Geography	150	85	65	0	0	0	0.0	0.0	0.0
History and philosophy of science	30	10	20	1	1	0	3.3	10.0	0.0
Linguistics	46	31	15	0	0	0	0.0	0.0	0.0
Political science and public administration	4,945	3,247	1,698	843	552	291	17.0	17.0	17.1
Sociology	1,056	750	306	185	141	44	17.5	18.8	14.4
Other	2,313	1,574	739	458	301	157	19.8	19.1	21.2
Engineering	3,412	1,131	2,281	399	153	246	11.7	13.5	10.8
Aerospace	68	14	54	0	0	0	0.0	0.0	0.0
Agricultural	22	13	9	0	0	0	0.0	0.0	0.0
Biomedical	195	117	78	0	0	0	0.0	0.0	0.0
Chemical	169	74	95	13	4	9	7.7	5.4	9.5
Civil	452	160	292	60	33	27	13.3	20.6	9.2
Electrical	861	195	666	72	17	55	8.4	8.7	8.3
Engineering sciences/physics	38	12	26	0	0	0	0.0	0.0	0.0

TABLE D-6. Black U.S.-citizen and permanent-resident S&E graduate students in all institutions and HBCUs, by field and sex: 2004

Field	All institutions			HBCUs			Black students in HBCUs		
	Both sexes	Female	Male	Both sexes	Female	Male	Both sexes	Female	Male
							Number	Percent	Percent
Industrial/manufacturing	714	273	441	44	21	23	6.2	7.7	5.2
Mechanical	369	91	278	40	10	30	10.8	11.0	10.8
Metallurgical and materials	105	48	57	8	5	3	7.6	10.4	5.3
Mining	5	0	5	0	0	0	0.0	0.0	0.0
Nuclear	20	12	8	0	0	0	0.0	0.0	0.0
Petroleum	21	4	17	0	0	0	0.0	0.0	0.0
Other	373	118	255	162	63	99	43.4	53.4	38.8

HBCUs = historically black colleges and universities

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering, 2004.

TABLE D-7. Hispanic U.S.-citizen and permanent-resident S&E graduate students in all institutions and HSIs, by field and sex: 2003

Field	All institutions			HSIs			Hispanic students in HSIs		
	Both sexes	Female	Male	Both sexes	Female	Male	Both sexes	Female	Male
							Number	Percent	Percent
S&E	21,264	11,070	10,194	5,400	2,899	2,501	25.4	26.2	24.5
Science	17,288	10,014	7,274	4,409	2,625	1,784	25.5	26.2	24.5
Agricultural sciences	496	240	256	200	102	98	40.3	42.5	38.3
Biological sciences	2,849	1,622	1,227	734	449	285	25.8	27.7	23.2
Anatomy	42	16	26	6	2	4	14.3	12.5	15.4
Biochemistry	229	110	119	34	15	19	14.8	13.6	16.0
Biology	806	454	352	427	248	179	53.0	54.6	50.9
Biometry and epidemiology	196	118	78	73	52	21	37.2	44.1	26.9
Biophysics	28	6	22	0	0	0	0.0	0.0	0.0
Botany	38	18	20	0	0	0	0.0	0.0	0.0
Cell and molecular biology	225	129	96	15	8	7	6.7	6.2	7.3
Ecology	61	37	24	0	0	0	0.0	0.0	0.0
Entomology and parasitology	41	25	16	0	0	0	0.0	0.0	0.0
Genetics	61	37	24	0	0	0	0.0	0.0	0.0
Microbiology, immunology, and virology	286	163	123	35	24	11	12.2	14.7	8.9
Nutrition	201	164	37	61	50	11	30.3	30.5	29.7
Pathology	63	33	30	6	5	1	9.5	15.2	3.3
Pharmacology	134	79	55	17	12	5	12.7	15.2	9.1
Physiology	81	36	45	15	9	6	18.5	25.0	13.3
Zoology	32	10	22	0	0	0	0.0	0.0	0.0
Other	325	187	138	45	24	21	13.8	12.8	15.2
Computer sciences	1,099	285	814	149	38	111	13.6	13.3	13.6
Earth, atmospheric, and ocean sciences	484	261	223	164	81	83	33.9	31.0	37.2
Atmospheric	21	8	13	0	0	0	0.0	0.0	0.0
Earth	187	100	87	43	20	23	23.0	20.0	26.4
Ocean	158	86	72	90	46	44	57.0	53.5	61.1
Other	118	67	51	31	15	16	26.3	22.4	31.4
Mathematics and statistics	604	223	381	197	74	123	32.6	33.2	32.3
Mathematics/applied mathematics	538	196	342	188	71	117	34.9	36.2	34.2
Statistics	66	27	39	9	3	6	13.6	11.1	15.4
Physical sciences	1,097	417	680	324	151	173	29.5	36.2	25.4
Astronomy	25	11	14	1	0	1	4.0	0.0	7.1
Chemistry	750	339	411	233	131	102	31.1	38.6	24.8
Physics	300	61	239	84	20	64	28.0	32.8	26.8
Other	22	6	16	6	0	6	27.3	0.0	37.5
Psychology	4,682	3,551	1,131	863	647	216	18.4	18.2	19.1
Clinical	1,631	1,252	379	160	116	44	9.8	9.3	11.6
General	985	716	269	221	160	61	22.4	22.3	22.7
Nonclinical	2,066	1,583	483	482	371	111	23.3	23.4	23.0
Social sciences	5,977	3,415	2,562	1,778	1,083	695	29.7	31.7	27.1
Agricultural economics	42	18	24	9	5	4	21.4	27.8	16.7
Anthropology (cultural and social)	435	260	175	49	29	20	11.3	11.2	11.4
Economics	369	134	235	95	34	61	25.7	25.4	26.0
Geography	150	64	86	21	8	13	14.0	12.5	15.1
History and philosophy of science	38	16	22	29	12	17	76.3	75.0	77.3
Linguistics	136	93	43	48	34	14	35.3	36.6	32.6
Political science and public administration	2,746	1,581	1,165	951	605	346	34.6	38.3	29.7
Sociology	664	407	257	159	101	58	23.9	24.8	22.6
Other	1,397	842	555	417	255	162	29.8	30.3	29.2
Engineering	3,976	1,056	2,920	991	274	717	24.9	25.9	24.6
Aerospace	119	26	93	0	0	0	0.0	0.0	0.0
Agricultural	14	8	6	0	0	0	0.0	0.0	0.0
Biomedical	155	57	98	22	5	17	14.2	8.8	17.3
Chemical	249	106	143	63	29	34	25.3	27.4	23.8
Civil	845	282	563	294	86	208	34.8	30.5	36.9
Electrical	1,093	204	889	310	74	236	28.4	36.3	26.5
Engineering sciences/physics	49	5	44	0	0	0	0.0	0.0	0.0

TABLE D-7. Hispanic U.S.-citizen and permanent-resident S&E graduate students in all institutions and HSIs, by field and sex: 2003

Field	All institutions			HSIs			Hispanic students in HSIs		
	Both sexes	Female	Male	Both sexes	Female	Male	Both sexes	Female	Male
							Number	Percent	Percent
Industrial/manufacturing	561	178	383	144	56	88	25.7	31.5	23.0
Mechanical	537	96	441	125	13	112	23.3	13.5	25.4
Metallurgical and materials	97	37	60	5	2	3	5.2	5.4	5.0
Mining	3	0	3	0	0	0	0.0	0.0	0.0
Nuclear	31	7	24	6	1	5	19.4	14.3	20.8
Petroleum	13	6	7	0	0	0	0.0	0.0	0.0
Other	210	44	166	22	8	14	10.5	18.2	8.4

HSIs = Hispanic-serving institutions

NOTE: Data in this table do not match data for 2003 in other tables in this section because schools revised data for previous years. Data for later years are not available.

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering, 2003.

TABLE D-8. Disability status of S&E graduate students, by sex, age, race/ethnicity, enrollment, and citizenship status: 2004

(Percent)

Sex, age, race/ethnicity, and enrollment and citizenship status	All students	No disability	With disability
All S&E graduate students	100.0	93.3	6.7
Female	44.3	43.5	57.2
Male	55.7	56.6	42.8
Age (years)			
15–23	15.1	15.6	7.5
24–29	44.8	45.0	41.4
39 and older	40.1	39.4	51.1
Race/ethnicity			
White	59.7	59.0	70.5
Asian	22.4	23.3	9.4
Black	7.1	7.2	5.5
Hispanic	6.3	6.2	8.5
American Indian/Alaska Native	0.6	0.6	0.0
Native Hawaiian/Pacific Islander	0.7	0.8	0.0
Other	1.4	1.5	0.6
More than one race	1.7	1.5	5.4
Enrollment status			
Mostly full time	70.0	70.4	64.9
Mostly part time	25.9	25.4	32.3
Mix of full and part time	4.1	4.2	2.8
Citizenship status			
U.S. citizen	73.0	72.0	88.1
Resident alien	5.8	5.8	5.8
Foreign/international student	21.2	22.2	6.1

NOTES: Enrollment status was determined by graduate student responses to the question, *Since you started working on your degree, have you been enrolled mainly as a full-time student or part-time student?* For disability status, those who reported any type of disability at all related to blindness, deafness, a severe vision or hearing impairment, substantial limitation of mobility, or any other physical, mental, or emotional condition that lasted 6 months or more are classified as "with disability."

SOURCE: U.S. Department of Education, National Center for Education Statistics, National Postsecondary Student Aid Study, 2004.

TABLE D-9. Field distribution of graduate student enrollment, by disability status: 2004

(Percent distribution)

Field	All students	No disability	With disability
All fields	100.0	100.0	100.0
Business/management	17.8	18.1	14.1
Education	26.2	25.7	32.8
Health	14.6	14.8	11.0
Humanities	8.1	8.1	7.0
Law	6.0	6.0	6.2
S&E	18.9	19.0	17.3
Life/physical sciences	3.9	3.8	3.9
Math/Engineering/Computer science	9.0	9.3	4.7
Social/behavioral sciences	6.1	5.9	8.6
Others	8.5	8.2	11.8

SOURCE: U.S. Department of Education, National Center for Education Statistics, National Postsecondary Student Aid Study, 2004.

TABLE D-10. Enrollment status of S&E graduate students, by field and sex: 2004

Field	All graduate students			Female			Male		
	Total	Full time	Part time	Total	Full time	Part time	Total	Full time	Part time
S&E	476,331	340,615	135,716	202,020	143,705	58,315	274,311	196,910	77,401
Science	352,630	253,570	99,060	174,702	123,849	50,853	177,928	129,721	48,207
Agricultural sciences	13,445	10,040	3,405	6,258	4,736	1,522	7,187	5,304	1,883
Biological sciences	66,520	55,819	10,701	37,249	30,883	6,366	29,271	24,936	4,335
Anatomy	917	821	96	480	421	59	437	400	37
Biochemistry	5,612	5,318	294	2,643	2,498	145	2,969	2,820	149
Biology	15,438	11,535	3,903	8,605	6,348	2,257	6,833	5,187	1,646
Biometry and epidemiology	4,674	3,218	1,456	2,867	2,028	839	1,807	1,190	617
Biophysics	1,180	1,115	65	434	409	25	746	706	40
Botany	1,831	1,653	178	974	887	87	857	766	91
Cell and molecular biology	5,830	5,395	435	3,095	2,827	268	2,735	2,568	167
Ecology	2,185	1,531	654	1,192	849	343	993	682	311
Entomology and parasitology	1,241	1,046	195	565	482	83	676	564	112
Genetics	2,129	2,047	82	1,283	1,233	50	846	814	32
Microbiology, immunology, and virology	5,375	5,083	292	3,053	2,886	167	2,322	2,197	125
Nutrition	4,726	3,371	1,355	3,680	2,620	1,060	1,046	751	295
Pathology	1,540	1,350	190	911	793	118	629	557	72
Pharmacology	3,122	2,974	148	1,694	1,614	80	1,428	1,360	68
Physiology	2,441	2,251	190	1,248	1,154	94	1,193	1,097	96
Zoology	1,236	1,072	164	640	554	86	596	518	78
Other	7,043	6,039	1,004	3,885	3,280	605	3,158	2,759	399
Computer sciences	50,331	29,281	21,050	13,366	7,224	6,142	36,965	22,057	14,908
Earth, atmospheric, and ocean sciences	15,110	11,685	3,425	6,928	5,356	1,572	8,182	6,329	1,853
Atmospheric	1,086	963	123	363	321	42	723	642	81
Earth	7,337	5,712	1,625	3,055	2,399	656	4,282	3,313	969
Ocean	2,801	2,284	517	1,509	1,215	294	1,292	1,069	223
Other	3,886	2,726	1,160	2,001	1,421	580	1,885	1,305	580
Mathematics and statistics	19,873	14,881	4,992	7,486	5,177	2,309	12,387	9,704	2,683
Mathematics/applied mathematics	15,885	11,880	4,005	5,585	3,748	1,837	10,300	8,132	2,168
Statistics	3,988	3,001	987	1,901	1,429	472	2,087	1,572	515
Physical sciences	35,772	31,686	4,086	11,298	9,884	1,414	24,474	21,802	2,672
Astronomy	1,119	1,078	41	355	345	10	764	733	31
Chemistry	20,776	18,311	2,465	8,232	7,183	1,049	12,544	11,128	1,416
Physics	13,309	12,028	1,281	2,499	2,241	258	10,810	9,787	1,023
Other	568	269	299	212	115	97	356	154	202
Psychology	54,052	37,805	16,247	40,092	27,830	12,262	13,960	9,975	3,985
Clinical	16,276	11,776	4,500	11,107	8,084	3,023	5,169	3,692	1,477
General	24,105	15,834	8,271	18,438	11,900	6,538	5,667	3,934	1,733
Nonclinical	13,671	10,195	3,476	10,547	7,846	2,701	3,124	2,349	775
Social sciences	97,527	62,373	35,154	52,025	32,759	19,266	45,502	29,614	15,888
Agricultural economics	2,195	1,888	307	854	738	116	1,341	1,150	191
Anthropology (cultural and social)	7,826	5,832	1,994	4,968	3,710	1,258	2,858	2,122	736
Economics	12,250	9,969	2,281	4,473	3,628	845	7,777	6,341	1,436
Geography	4,809	3,172	1,637	2,007	1,321	686	2,802	1,851	951
History and philosophy of science	994	533	461	414	224	190	580	309	271
Linguistics	2,941	2,364	577	1,923	1,521	402	1,018	843	175
Political science and public administration	39,238	21,139	18,099	20,960	11,055	9,905	18,278	10,084	8,194
Sociology	8,895	6,428	2,467	5,807	4,159	1,648	3,088	2,269	819
Other	18,379	11,048	7,331	10,619	6,403	4,216	7,760	4,645	3,115
Engineering	123,701	87,045	36,656	27,318	19,856	7,462	96,383	67,189	29,194
Aerospace	4,089	3,243	846	600	454	146	3,489	2,789	700
Agricultural	998	808	190	295	252	43	703	556	147
Biomedical	5,892	5,103	789	2,213	1,930	283	3,679	3,173	506
Chemical	7,452	6,379	1,073	2,106	1,817	289	5,346	4,562	784
Civil	18,560	13,587	4,973	5,454	4,175	1,279	13,106	9,412	3,694
Electrical	38,995	26,732	12,263	7,201	5,087	2,114	31,794	21,645	10,149
Engineering sciences/physics	2,198	1,741	457	465	378	87	1,733	1,363	370
Industrial/manufacturing	13,852	6,591	7,261	3,229	1,594	1,635	10,623	4,997	5,626

TABLE D-10. Enrollment status of S&E graduate students, by field and sex: 2004

Field	All graduate students			Female			Male		
	Total	Full time	Part time	Total	Full time	Part time	Total	Full time	Part time
Mechanical	17,946	12,787	5,159	2,477	1,789	688	15,469	10,998	4,471
Metallurgical and materials	5,059	4,359	700	1,320	1,142	178	3,739	3,217	522
Mining	308	238	70	42	30	12	266	208	58
Nuclear	971	809	162	196	168	28	775	641	134
Petroleum	845	660	185	134	120	14	711	540	171
Other	6,536	4,008	2,528	1,586	920	666	4,950	3,088	1,862

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering, 2004.

TABLE D-11. Enrollment status of S&E graduate students, by field, citizenship, and race/ethnicity: 2004

Field and enrollment status	S&E graduate students	U.S. citizens and permanent residents						
		Asian/Pacific Islander		American Indian/Alaska Native		Other/unknown	Temporary resident	
		White	Black	Hispanic				
S&E	476,331	224,982	31,508	24,695	22,388	1,863	27,795	143,100
Full time	340,615	151,555	20,548	14,067	14,284	1,256	16,556	122,349
Part time	135,716	73,427	10,960	10,628	8,104	607	11,239	20,751
Science	352,630	181,741	21,215	21,283	18,187	1,584	22,242	86,378
Full time	253,570	125,425	14,501	12,097	11,867	1,100	13,781	74,799
Part time	99,060	56,316	6,714	9,186	6,320	484	8,461	11,579
Agricultural sciences	13,445	8,936	340	394	528	82	485	2,680
Full time	10,040	6,261	264	298	412	59	334	2,412
Part time	3,405	2,675	76	96	116	23	151	268
Biological sciences	66,520	36,049	5,354	2,886	3,033	249	3,261	15,688
Full time	55,819	29,265	4,611	2,238	2,521	205	2,464	14,515
Part time	10,701	6,784	743	648	512	44	797	1,173
Anatomy	917	502	101	51	39	2	37	185
Full time	821	434	97	38	39	2	35	176
Part time	96	68	4	13	0	0	2	9
Biochemistry	5,612	2,587	449	156	212	10	220	1,978
Full time	5,318	2,442	423	143	192	10	204	1,904
Part time	294	145	26	13	20	0	16	74
Biology	15,438	9,139	907	780	865	54	953	2,740
Full time	11,535	6,559	670	519	655	39	655	2,438
Part time	3,903	2,580	237	261	210	15	298	302
Biometry and epidemiology	4,674	2,237	554	263	195	15	198	1,212
Full time	3,218	1,419	360	160	138	10	125	1,006
Part time	1,456	818	194	103	57	5	73	206
Biophysics	1,180	586	113	23	30	7	46	375
Full time	1,115	548	107	19	28	6	45	362
Part time	65	38	6	4	2	1	1	13
Botany	1,831	968	101	18	63	10	76	595
Full time	1,653	845	95	16	61	8	70	558
Part time	178	123	6	2	2	2	6	37
Cell and molecular biology	5,830	2,883	567	186	243	18	320	1,613
Full time	5,395	2,665	527	175	222	17	268	1,521
Part time	435	218	40	11	21	1	52	92
Ecology	2,185	1,597	51	27	65	12	161	272
Full time	1,531	1,085	39	21	42	10	106	228
Part time	654	512	12	6	23	2	55	44
Entomology and parasitology	1,241	816	34	11	38	6	33	303
Full time	1,046	654	27	11	34	5	30	285
Part time	195	162	7	0	4	1	3	18
Genetics	2,129	1,132	185	68	62	13	117	552
Full time	2,047	1,078	180	64	60	13	113	539
Part time	82	54	5	4	2	0	4	13
Microbiology, immunology, and virology	5,375	2,865	487	244	295	18	238	1,228
Full time	5,083	2,675	465	226	288	17	216	1,196
Part time	292	190	22	18	7	1	22	32
Nutrition	4,726	2,532	329	293	245	9	180	1,138
Full time	3,371	1,686	254	185	153	5	107	981
Part time	1,355	846	75	108	92	4	73	157
Pathology	1,540	863	181	59	61	5	55	316
Full time	1,350	743	157	52	54	3	41	300
Part time	190	120	24	7	7	2	14	16
Pharmacology	3,122	1,564	303	192	144	21	89	809
Full time	2,974	1,482	289	182	138	19	84	780
Part time	148	82	14	10	6	2	5	29

TABLE D-11. Enrollment status of S&E graduate students, by field, citizenship, and race/ethnicity: 2004

Field and enrollment status	S&E graduate students	U.S. citizens and permanent residents						
		Asian/Pacific Islander		American Indian/Alaska Native		Other/unknown	Temporary resident	
		White	Black	Hispanic				
Physiology	2,441	1,243	379	104	94	13	77	531
Full time	2,251	1,132	368	97	90	12	62	490
Part time	190	111	11	7	4	1	15	41
Zoology	1,236	932	40	11	28	7	36	182
Full time	1,072	792	39	9	21	6	32	173
Part time	164	140	1	2	7	1	4	9
Other	7,043	3,603	573	400	354	29	425	1,659
Full time	6,039	3,026	514	321	306	23	271	1,578
Part time	1,004	577	59	79	48	6	154	81
Computer sciences	50,331	17,043	5,167	1,818	1,160	93	3,248	21,802
Full time	29,281	7,992	2,204	800	505	49	1,249	16,482
Part time	21,050	9,051	2,963	1,018	655	44	1,999	5,320
Earth, atmospheric, and ocean sciences	15,110	10,327	436	260	537	67	701	2,782
Full time	11,685	7,582	356	194	417	51	529	2,556
Part time	3,425	2,745	80	66	120	16	172	226
Atmospheric	1,086	663	59	36	27	4	30	267
Full time	963	571	53	34	24	3	27	251
Part time	123	92	6	2	3	1	3	16
Earth	7,337	5,096	149	83	217	33	312	1,447
Full time	5,712	3,789	119	60	153	24	239	1,328
Part time	1,625	1,307	30	23	64	9	73	119
Ocean	2,801	1,933	69	30	161	11	100	497
Full time	2,284	1,471	62	27	150	10	84	480
Part time	517	462	7	3	11	1	16	17
Other	3,886	2,635	159	111	132	19	259	571
Full time	2,726	1,751	122	73	90	14	179	497
Part time	1,160	884	37	38	42	5	80	74
Mathematics and statistics	19,873	8,832	1,332	692	618	39	1,006	7,354
Full time	14,881	6,007	886	391	361	19	585	6,632
Part time	4,992	2,825	446	301	257	20	421	722
Mathematics	15,885	7,556	1,029	579	544	39	861	5,277
Full time	11,880	5,161	693	330	311	19	521	4,845
Part time	4,005	2,395	336	249	233	20	340	432
Statistics	3,988	1,276	303	113	74	0	145	2,077
Full time	3,001	846	193	61	50	0	64	1,787
Part time	987	430	110	52	24	0	81	290
Physical sciences	35,772	15,723	1,752	995	1,232	78	1,443	14,549
Full time	31,686	13,724	1,439	803	1,026	68	1,093	13,533
Part time	4,086	1,999	313	192	206	10	350	1,016
Astronomy	1,119	631	38	10	23	3	44	370
Full time	1,078	605	37	10	23	3	39	361
Part time	41	26	1	0	0	0	5	9
Chemistry	20,776	9,170	1,188	713	837	54	741	8,073
Full time	18,311	8,057	955	568	708	49	563	7,411
Part time	2,465	1,113	233	145	129	5	178	662
Physics	13,309	5,598	501	248	343	18	571	6,030
Full time	12,028	4,896	435	216	285	14	477	5,705
Part time	1,281	702	66	32	58	4	94	325
Other	568	324	25	24	29	3	87	76
Full time	269	166	12	9	10	2	14	56
Part time	299	158	13	15	19	1	73	20
Psychology	54,052	33,636	2,444	4,994	4,777	323	4,713	3,165
Full time	37,805	23,698	1,751	2,758	3,356	248	3,353	2,641
Part time	16,247	9,938	693	2,236	1,421	75	1,360	524

TABLE D-11. Enrollment status of S&E graduate students, by field, citizenship, and race/ethnicity: 2004

Field and enrollment status	S&E graduate students	U.S. citizens and permanent residents					
		Asian/Pacific Islander		American Indian/Alaska Native		Other/unknown	Temporary resident
		White	Black	Hispanic	Native		
Clinical	13,671	8,636	671	894	1,737	92	1,209
Full time	10,195	6,448	487	649	1,362	70	839
Part time	3,476	2,188	184	245	375	22	370
General	16,276	10,154	813	1,828	1,035	104	968
Full time	11,776	7,514	633	897	725	78	676
Part time	4,500	2,640	180	931	310	26	292
Nonclinical	24,105	14,846	960	2,272	2,005	127	2,536
Full time	15,834	9,736	631	1,212	1,269	100	1,838
Part time	8,271	5,110	329	1,060	736	27	698
Social sciences	97,527	51,195	4,390	9,244	6,302	653	7,385
Full time	62,373	30,896	2,990	4,615	3,269	401	4,174
Part time	35,154	20,299	1,400	4,629	3,033	252	3,211
Agricultural economics	2,195	965	45	52	50	26	64
Full time	1,888	795	40	42	45	11	52
Part time	307	170	5	10	5	15	12
Anthropology (cultural and social)	7,826	5,253	295	271	455	105	585
Full time	5,832	3,816	231	216	323	78	420
Part time	1,994	1,437	64	55	132	27	165
Economics	12,250	3,845	617	381	358	30	481
Full time	9,969	2,705	463	250	227	18	355
Part time	2,281	1,140	154	131	131	12	126
Geography	4,809	3,315	144	150	143	24	244
Full time	3,172	2,078	96	83	91	12	152
Part time	1,637	1,237	48	67	52	12	92
History and philosophy of science	994	700	48	30	56	7	84
Full time	533	355	28	14	24	5	43
Part time	461	345	20	16	32	2	41
Linguistics	2,941	1,349	175	46	148	17	202
Full time	2,364	1,056	123	36	88	14	129
Part time	577	293	52	10	60	3	73
Political science/public administration	39,238	20,472	1,802	4,945	3,059	219	3,745
Full time	21,139	10,567	1,091	2,137	1,307	108	1,808
Part time	18,099	9,905	711	2,808	1,752	111	1,937
Sociology	8,895	5,030	391	1,056	635	56	458
Full time	6,428	3,619	288	598	419	42	328
Part time	2,467	1,411	103	458	216	14	130
Other	18,379	10,266	873	2,313	1,398	169	1,522
Full time	11,048	5,905	630	1,239	745	113	887
Part time	7,331	4,361	243	1,074	653	56	635
Engineering	123,701	43,241	10,293	3,412	4,201	279	5,553
Full time	87,045	26,130	6,047	1,970	2,417	156	2,775
Part time	36,656	17,111	4,246	1,442	1,784	123	2,778
Aerospace	4,089	1,791	212	68	118	16	196
Full time	3,243	1,300	150	42	75	9	119
Part time	846	491	62	26	43	7	77
Agricultural	998	430	47	22	8	1	14
Full time	808	328	39	22	6	0	9
Part time	190	102	8	0	2	1	5
Biomedical	5,892	2,363	844	195	181	16	233
Full time	5,103	2,037	745	166	151	15	201
Part time	789	326	99	29	30	1	32

TABLE D-11. Enrollment status of S&E graduate students, by field, citizenship, and race/ethnicity: 2004

Field and enrollment status	S&E graduate students	U.S. citizens and permanent residents						
		Asian/Pacific Islander		American Indian/Alaska Native			Other/unknown	
		White	Black	Hispanic	Native			
Chemical	7,452	2,666	528	169	249	27	191	3,622
Full time	6,379	2,158	418	137	208	25	125	3,308
Part time	1,073	508	110	32	41	2	66	314
Civil	18,560	8,264	1,022	452	895	51	770	7,106
Full time	13,587	5,522	662	261	558	33	450	6,101
Part time	4,973	2,742	360	191	337	18	320	1,005
Electrical	38,995	9,444	4,106	861	1,097	54	1,643	21,790
Full time	26,732	5,050	2,258	488	560	27	704	17,645
Part time	12,263	4,394	1,848	373	537	27	939	4,145
Engineering sciences/physics	2,198	865	163	38	45	11	65	1,011
Full time	1,741	616	124	26	31	9	42	893
Part time	457	249	39	12	14	2	23	118
Industrial/manufacturing	13,852	5,484	974	714	629	48	908	5,095
Full time	6,591	1,514	342	253	233	10	247	3,992
Part time	7,261	3,970	632	461	396	38	661	1,103
Mechanical	17,946	6,991	1,016	369	606	24	764	8,176
Full time	12,787	4,257	626	243	363	18	381	6,899
Part time	5,159	2,734	390	126	243	6	383	1,277
Metallurgical and materials	5,059	1,818	345	105	98	6	130	2,557
Full time	4,359	1,468	284	78	74	3	89	2,363
Part time	700	350	61	27	24	3	41	194
Mining	308	157	6	5	10	1	10	119
Full time	238	112	6	4	5	1	7	103
Part time	70	45	0	1	5	0	3	16
Nuclear	971	492	42	20	28	3	31	355
Full time	809	375	33	15	21	2	24	339
Part time	162	117	9	5	7	1	7	16
Petroleum	845	123	24	21	15	0	11	651
Full time	660	66	19	14	12	0	8	541
Part time	185	57	5	7	3	0	3	110
Other	6,536	2,353	964	373	222	21	587	2,016
Full time	4,008	1,327	341	221	120	4	369	1,626
Part time	2,528	1,026	623	152	102	17	218	390

NOTES: Race/ethnicity breakouts are for U.S. citizens and permanent residents only. Temporary residents include all racial/ethnic groups.

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering, 2004.

TABLE D-12. Primary source of support for full-time S&E graduate students, by sex and field: 2004

Sex and field	All sources	Federal support										Other outside support				Self-support	
		HHS			Institutional				United States								
		Total	DOD	DOE	Total	NIH	Other	NASA	NSF	USDA	Other	support	Total	Foreign	Self-support		
S&E	340,615	73,530	7,928	4,084	23,822	22,365	1,457	2,898	19,877	3,450	11,471	140,994	25,016	22,413	2,603	101,075	
Science	253,570	52,686	3,087	2,316	21,668	20,458	1,210	1,466	13,058	3,046	8,045	109,930	14,921	13,219	1,702	76,033	
Agricultural sciences	10,040	2,516	24	49	90	67	23	52	202	1,369	730	4,050	1,603	1,474	129	1,871	
Biological sciences	55,819	21,729	437	219	16,184	15,623	561	106	2,254	1,067	1,462	22,269	3,849	3,591	258	7,972	
Anatomy	821	271	6	0	231	229	2	3	13	5	13	320	46	39	7	184	
Biochemistry	5,318	2,812	54	52	2,251	2,171	80	3	246	33	173	1,716	446	425	21	344	
Biology	11,535	2,883	77	26	1,571	1,521	50	30	778	61	340	6,329	594	541	53	1,729	
Biometry/epidemiology	3,218	1,191	17	0	1,023	940	83	0	41	8	102	832	151	131	20	1,044	
Biophysics	1,115	565	8	21	476	468	8	2	49	2	7	324	129	126	3	97	
Botany	1,653	493	4	33	31	27	4	5	129	212	79	909	152	137	15	99	
Cell/molecular biology	5,395	2,852	52	22	2,444	2,429	15	12	207	31	84	1,811	386	368	18	346	
Ecology	1,531	365	6	6	17	14	3	6	160	50	120	921	71	64	7	174	
Entomology/parasitology	1,046	336	0	0	49	39	10	0	64	174	49	481	151	138	13	78	
Genetics	2,047	1,082	15	4	926	891	35	3	88	22	24	608	149	148	1	208	
Microbiology, immunology, and virology	5,083	2,738	57	25	2,391	2,355	36	20	120	54	71	1,682	387	367	20	276	
Nutrition	3,371	706	18	1	238	212	26	10	7	349	83	1,146	311	290	21	1,208	
Pathology	1,350	500	20	0	411	392	19	1	10	27	31	446	101	88	13	303	
Pharmacology	2,974	1,634	50	1	1,485	1,434	51	0	27	6	65	860	238	213	25	242	
Physiology	2,251	793	8	0	717	698	19	1	33	5	29	665	104	97	7	689	
Zoology	1,072	282	8	0	39	38	1	0	118	12	105	654	96	95	1	40	
Other	6,039	2,226	37	28	1,884	1,765	119	10	164	16	87	2,565	337	324	13	911	
Computer sciences	29,281	5,115	1,187	151	296	260	36	140	2,757	35	549	9,062	1,733	1,547	186	13,371	
Earth, atmospheric, and ocean sciences	11,685	3,343	128	172	41	24	17	457	1,513	93	939	5,213	920	848	72	2,209	
Atmospheric	963	526	28	27	0	0	0	138	208	13	112	297	50	45	5	90	
Earth	5,712	1,546	30	111	5	2	3	225	838	20	317	2,991	359	331	28	816	
Ocean	2,284	838	50	13	14	9	5	59	343	14	345	856	247	236	11	343	
Other	2,726	433	20	21	22	13	9	35	124	46	165	1,069	264	236	28	960	
Mathematics and statistics	14,881	1,744	163	61	175	154	21	24	1,051	28	242	9,898	435	356	79	2,804	
Mathematics/applied mathematics	11,880	1,388	147	60	61	49	12	21	874	12	213	8,071	280	210	70	2,141	
Statistics	3,001	356	16	1	114	105	9	3	177	16	29	1,827	155	146	9	663	
Physical sciences	31,686	10,969	874	1,585	2,559	2,349	210	565	4,126	42	1,218	16,902	2,141	2,041	100	1,674	
Astronomy	1,078	470	7	22	18	17	1	154	197	0	72	484	98	95	3	26	
Chemistry	18,311	6,128	440	466	2,352	2,155	197	116	2,086	36	632	9,998	1,357	1,318	39	828	
Physics	12,028	4,356	427	1,097	180	168	12	293	1,841	6	512	6,311	683	625	58	678	
Other	269	15	0	0	9	9	0	2	2	0	2	109	3	3	0	142	
Psychology	37,805	3,624	140	24	1,883	1,666	217	31	363	16	1,167	13,559	1,404	1,358	46	19,218	
Clinical	10,195	836	23	4	403	330	73	7	17	1	381	2,552	461	460	1	6,346	
General	11,776	1,456	44	16	892	810	82	14	221	0	269	5,446	387	355	32	4,487	
Nonclinical	15,834	1,332	73	4	588	526	62	10	125	15	517	5,561	556	543	13	8,385	
Social sciences	62,373	3,646	134	55	440	315	125	91	792	396	1,738	28,977	2,836	2,004	832	26,914	
Agricultural economics	1,888	454	2	0	8	2	6	1	10	280	153	786	118	100	18	530	
Anthropology (cultural and social)	5,832	450	5	4	38	29	9	3	175	3	222	3,300	226	203	23	1,856	

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TABLE D-12. Primary source of support for full-time S&E graduate students, by sex and field: 2004

Sex and field	All sources	Federal support										Other outside support				Self-support	
		HHS			Institutional				United States		Foreign						
		Total	DOD	DOE	Total	NIH	Other	NASA	NSF	USDA	Other	support	Total	States	Foreign		
Economics	9,969	430	38	3	54	40	14	0	158	40	137	5,757	501	256	245	3,281	
Geography	3,172	411	17	6	21	14	7	74	99	19	175	1,677	186	158	28	898	
History and philosophy of science	533	9	0	0	0	0	0	0	6	0	3	318	28	20	8	178	
Linguistics	2,364	147	0	0	26	24	2	0	61	0	60	1,319	47	35	12	851	
Political science and public administration	21,139	789	57	39	28	12	16	8	121	11	525	8,518	906	571	335	10,926	
Sociology	6,428	425	4	1	209	168	41	0	90	31	90	4,001	242	220	22	1,760	
Other	11,048	531	11	2	56	26	30	5	72	12	373	3,301	582	441	141	6,634	
Engineering	87,045	20,844	4,841	1,768	2,154	1,907	247	1,432	6,819	404	3,426	31,064	10,095	9,194	901	25,042	
Aerospace	3,243	1,215	537	50	12	10	2	423	117	0	76	920	364	298	66	744	
Agricultural	808	239	9	0	14	3	11	14	25	136	41	337	128	115	13	104	
Biomedical	5,103	1,531	92	7	1,016	990	26	36	245	5	130	1,530	750	711	39	1,292	
Chemical	6,379	2,146	218	357	296	260	36	95	871	46	263	2,440	996	941	55	797	
Civil	13,587	2,154	168	90	61	33	28	59	700	73	1,003	5,651	1,252	1,120	132	4,530	
Electrical	26,732	6,007	1,973	209	350	290	60	334	2,368	45	728	8,567	2,820	2,656	164	9,338	
Engineering science/physics	1,741	556	166	65	42	37	5	22	207	14	40	776	176	157	19	233	
Industrial/manufacturing	6,591	968	303	45	66	43	23	43	334	12	165	2,329	600	520	80	2,694	
Mechanical	12,787	3,134	732	360	179	150	29	286	1,042	22	513	4,966	1,558	1,407	151	3,129	
Metallurgical/materials	4,359	1,571	363	270	50	43	7	52	652	3	181	1,511	752	679	73	525	
Mining	238	50	0	18	13	1	12	0	7	2	10	112	19	17	2	57	
Nuclear	809	336	48	197	12	6	6	13	7	0	59	272	102	99	3	99	
Petroleum	660	58	2	47	1	0	1	0	3	1	4	302	144	80	64	156	
Other	4,008	879	230	53	42	41	1	55	241	45	213	1,351	434	394	40	1,344	
Female	143,705	27,747	1,528	925	12,095	11,375	720	783	6,234	1,538	4,644	60,005	8,658	7,900	758	47,295	
Science	123,849	23,213	797	585	11,417	10,753	664	527	4,581	1,426	3,880	52,717	6,469	5,893	576	41,450	
Agricultural sciences	4,736	1,116	5	13	44	31	13	17	95	597	345	2,026	712	667	45	882	
Biological sciences	30,883	11,553	218	105	8,641	8,327	314	47	1,203	572	767	12,473	1,966	1,847	119	4,891	
Anatomy	421	129	2	0	108	107	1	2	5	3	9	172	22	20	2	98	
Biochemistry	2,498	1,324	27	23	1,069	1,030	39	0	114	12	79	794	204	197	7	176	
Biology	6,348	1,551	39	12	822	800	22	13	447	33	185	3,476	316	288	28	1,005	
Biometry/epidemiology	2,028	742	14	0	642	583	59	0	16	2	68	540	87	81	6	659	
Biophysics	409	191	0	3	169	167	2	0	15	2	2	140	36	36	0	42	
Botany	887	251	1	14	16	13	3	3	71	106	40	518	70	65	5	48	
Cell/molecular biology	2,827	1,493	19	12	1,295	1,286	9	4	111	14	38	972	191	182	9	171	
Ecology	849	194	4	4	5	5	0	5	86	22	68	532	34	29	5	89	
Entomology/parasitology	482	154	0	0	28	22	6	0	27	73	26	225	62	58	4	41	
Genetics	1,233	623	11	3	525	508	17	3	55	15	11	355	89	89	0	166	
Microbiology, immunology, and virology	2,886	1,492	30	14	1,310	1,290	20	6	66	26	40	1,012	215	201	14	167	
Nutrition	2,620	515	15	1	191	174	17	7	6	232	63	878	209	194	15	1,018	
Pathology	793	281	12	0	237	226	11	1	6	13	12	265	44	41	3	203	
Pharmacology	1,614	899	22	1	828	797	31	0	13	5	30	474	129	118	11	112	
Physiology	1,154	389	3	0	350	338	12	0	20	3	13	352	58	53	5	355	

TABLE D-12. Primary source of support for full-time S&E graduate students, by sex and field: 2004

Sex and field	All sources	Federal support										Other outside support				Self-support	
		HHS			Institutional support				United States		Foreign						
		Total	DOD	DOE	Total	NIH	Other	NASA	NSF	USDA	Other	Total	States	Foreign	United		
Zoology	554	138	4	0	23	22	1	0	65	5	41	359	34	34	0	23	
Other	3,280	1,187	15	18	1,023	959	64	3	80	6	42	1,409	166	161	5	518	
Computer sciences	7,224	1,028	173	26	63	57	6	37	575	9	145	2,132	352	308	44	3,712	
Earth, atmospheric, and ocean sciences	5,356	1,430	54	61	21	13	8	203	645	40	406	2,436	405	385	20	1,085	
Atmospheric	321	174	7	9	0	0	0	53	65	4	36	101	16	16	0	30	
Earth	2,399	637	11	34	3	1	2	106	362	9	112	1,311	133	128	5	318	
Ocean	1,215	433	25	9	12	8	4	34	175	5	173	459	117	115	2	206	
Other	1,421	186	11	9	6	4	2	10	43	22	85	565	139	126	13	531	
Mathematics and statistics	5,177	542	34	22	77	69	8	8	305	10	86	3,410	169	139	30	1,056	
Mathematics/applied mathematics	3,748	385	24	22	19	16	3	7	238	5	70	2,524	98	75	23	741	
Statistics	1,429	157	10	0	58	53	5	1	67	5	16	886	71	64	7	315	
Physical sciences	9,884	3,238	211	325	999	913	86	164	1,187	14	338	5,530	602	577	25	514	
Astronomy	345	156	2	0	5	5	0	59	70	0	20	158	25	24	1	6	
Chemistry	7,183	2,308	140	154	952	871	81	37	784	14	227	4,078	471	456	15	326	
Physics	2,241	768	69	171	40	35	5	68	331	0	89	1,244	106	97	9	123	
Other	115	6	0	0	2	2	0	0	2	0	2	50	0	0	0	59	
Psychology	27,830	2,522	71	16	1,298	1,143	155	19	226	10	882	9,702	1,014	989	25	14,592	
Clinical	7,846	625	12	4	305	247	58	5	14	0	285	1,884	335	334	1	5,002	
General	8,084	968	19	11	607	548	59	9	132	0	190	3,765	261	244	17	3,090	
Nonclinical	11,900	929	40	1	386	348	38	5	80	10	407	4,053	418	411	7	6,500	
Social sciences	32,759	1,784	31	17	274	200	74	32	345	174	911	15,008	1,249	981	268	14,718	
Agricultural economics	738	184	0	0	1	0	1	0	2	121	60	309	50	44	6	195	
Anthropology (cultural and social)	3,710	288	4	1	31	23	8	0	110	1	141	2,093	140	129	11	1,189	
Economics	3,628	132	2	3	22	13	9	0	40	17	48	2,140	149	96	53	1,207	
Geography	1,321	144	6	1	4	1	3	25	29	7	72	741	69	57	12	367	
History and philosophy of science	224	3	0	0	0	0	0	0	1	0	2	139	11	7	4	71	
Linguistics	1,521	80	0	0	16	14	2	0	27	0	37	817	27	21	6	597	
Political science and public administration	11,055	364	12	11	15	6	9	5	52	3	266	4,216	400	299	101	6,075	
Sociology	4,159	280	2	0	143	121	22	0	57	17	61	2,629	138	128	10	1,112	
Other	6,403	309	5	1	42	22	20	2	27	8	224	1,924	265	200	65	3,905	
Engineering	19,856	4,534	731	340	678	622	56	256	1,653	112	764	7,288	2,189	2,007	182	5,845	
Aerospace	454	153	44	5	2	2	0	62	26	0	14	133	62	51	11	106	
Agricultural	252	77	3	0	7	2	5	4	8	44	11	107	41	39	2	27	
Biomedical	1,930	561	25	1	387	380	7	9	94	1	44	597	275	263	12	497	
Chemical	1,817	649	52	99	101	88	13	28	274	12	83	689	265	249	16	214	
Civil	4,175	648	47	31	20	11	9	24	228	20	278	1,781	334	294	40	1,412	
Electrical	5,087	1,004	265	42	63	54	9	52	456	13	113	1,607	479	456	23	1,997	
Engineering science/physics	378	130	17	10	15	13	2	5	60	7	16	163	34	28	6	51	
Industrial/manufacturing	1,594	213	55	9	16	12	4	10	73	3	47	650	144	126	18	587	

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TABLE D-12. Primary source of support for full-time S&E graduate students, by sex and field: 2004

Sex and field	All sources	Federal support										Other outside support				Self-support	
		HHS			Institutional support				United States		Foreign						
		Total	DOD	DOE	Total	NIH	Other	NASA	NSF	USDA	Other	Total	States	Foreign	Self-support		
Mechanical	1,789	448	93	40	25	23	2	42	186	1	61	711	235	211	24	395	
Metallurgical/materials	1,142	404	82	52	23	22	1	14	189	1	43	414	198	183	15	126	
Mining	30	4	0	0	2	0	2	0	2	0	0	13	0	0	0	13	
Nuclear	168	60	5	35	7	5	2	3	0	0	10	62	19	19	0	27	
Petroleum	120	6	0	6	0	0	0	0	0	0	0	67	28	18	10	19	
Other	920	177	43	10	10	10	0	3	57	10	44	294	75	70	5	374	
Male	196,910	45,783	6,400	3,159	11,727	10,990	737	2,115	13,643	1,912	6,827	80,989	16,358	14,513	1,845	53,780	
Science	129,721	29,473	2,290	1,731	10,251	9,705	546	939	8,477	1,620	4,165	57,213	8,452	7,326	1,126	34,583	
Agricultural sciences	5,304	1,400	19	36	46	36	10	35	107	772	385	2,024	891	807	84	989	
Biological sciences	24,936	10,176	219	114	7,543	7,296	247	59	1,051	495	695	9,796	1,883	1,744	139	3,081	
Anatomy	400	142	4	0	123	122	1	1	8	2	4	148	24	19	5	86	
Biochemistry	2,820	1,488	27	29	1,182	1,141	41	3	132	21	94	922	242	228	14	168	
Biology	5,187	1,332	38	14	749	721	28	17	331	28	155	2,853	278	253	25	724	
Biometry/epidemiology	1,190	449	3	0	381	357	24	0	25	6	34	292	64	50	14	385	
Biophysics	706	374	8	18	307	301	6	2	34	0	5	184	93	90	3	55	
Botany	766	242	3	19	15	14	1	2	58	106	39	391	82	72	10	51	
Cell/molecular biology	2,568	1,359	33	10	1,149	1,143	6	8	96	17	46	839	195	186	9	175	
Ecology	682	171	2	2	12	9	3	1	74	28	52	389	37	35	2	85	
Entomology/parasitology	564	182	0	0	21	17	4	0	37	101	23	256	89	80	9	37	
Genetics	814	459	4	1	401	383	18	0	33	7	13	253	60	59	1	42	
Microbiology, immunology, and virology	2,197	1,246	27	11	1,081	1,065	16	14	54	28	31	670	172	166	6	109	
Nutrition	751	191	3	0	47	38	9	3	1	117	20	268	102	96	6	190	
Pathology	557	219	8	0	174	166	8	0	4	14	19	181	57	47	10	100	
Pharmacology	1,360	735	28	0	657	637	20	0	14	1	35	386	109	95	14	130	
Physiology	1,097	404	5	0	367	360	7	1	13	2	16	313	46	44	2	334	
Zoology	518	144	4	0	16	16	0	0	53	7	64	295	62	61	1	17	
Other	2,759	1,039	22	10	861	806	55	7	84	10	45	1,156	171	163	8	393	
Computer sciences	22,057	4,087	1,014	125	233	203	30	103	2,182	26	404	6,930	1,381	1,239	142	9,659	
Earth, atmospheric, and ocean sciences	6,329	1,913	74	111	20	11	9	254	868	53	533	2,777	515	463	52	1,124	
Atmospheric	642	352	21	18	0	0	0	85	143	9	76	196	34	29	5	60	
Earth	3,313	909	19	77	2	1	1	119	476	11	205	1,680	226	203	23	498	
Ocean	1,069	405	25	4	2	1	1	25	168	9	172	397	130	121	9	137	
Other	1,305	247	9	12	16	9	7	25	81	24	80	504	125	110	15	429	
Mathematics and statistics	9,704	1,202	129	39	98	85	13	16	746	18	156	6,488	266	217	49	1,748	
Mathematics/applied mathematics	8,132	1,003	123	38	42	33	9	14	636	7	143	5,547	182	135	47	1,400	
Statistics	1,572	199	6	1	56	52	4	2	110	11	13	941	84	82	2	348	
Physical sciences	21,802	7,731	663	1,260	1,560	1,436	124	401	2,939	28	880	11,372	1,539	1,464	75	1,160	
Astronomy	733	314	5	22	13	12	1	95	127	0	52	326	73	71	2	20	
Chemistry	11,128	3,820	300	312	1,400	1,284	116	79	1,302	22	405	5,920	886	862	24	502	

TABLE D-12. Primary source of support for full-time S&E graduate students, by sex and field: 2004

Sex and field	All sources	Federal support										Other outside support				Self-support	
		HHS			Institutional support				United States		Foreign						
		Total	DOD	DOE	Total	NIH	Other	NASA	NSF	USDA	Other	Total	States	Foreign	Self-support		
Physics	9,787	3,588	358	926	140	133	7	225	1,510	6	423	5,067	577	528	49	555	
Other	154	9	0	0	7	7	0	2	0	0	0	59	3	3	0	83	
Psychology	9,975	1,102	69	8	585	523	62	12	137	6	285	3,857	390	369	21	4,626	
Clinical	2,349	211	11	0	98	83	15	2	3	1	96	668	126	126	0	1,344	
General	3,692	488	25	5	285	262	23	5	89	0	79	1,681	126	111	15	1,397	
Nonclinical	3,934	403	33	3	202	178	24	5	45	5	110	1,508	138	132	6	1,885	
Social sciences	29,614	1,862	103	38	166	115	51	59	447	222	827	13,969	1,587	1,023	564	12,196	
Agricultural economics	1,150	270	2	0	7	2	5	1	8	159	93	477	68	56	12	335	
Anthropology (cultural and social)	2,122	162	1	3	7	6	1	3	65	2	81	1,207	86	74	12	667	
Economics	6,341	298	36	0	32	27	5	0	118	23	89	3,617	352	160	192	2,074	
Geography	1,851	267	11	5	17	13	4	49	70	12	103	936	117	101	16	531	
History and philosophy of science	309	6	0	0	0	0	0	0	5	0	1	179	17	13	4	107	
Linguistics	843	67	0	0	10	10	0	0	34	0	23	502	20	14	6	254	
Political science and public administration	10,084	425	45	28	13	6	7	3	69	8	259	4,302	506	272	234	4,851	
Sociology	2,269	145	2	1	66	47	19	0	33	14	29	1,372	104	92	12	648	
Other	4,645	222	6	1	14	4	10	3	45	4	149	1,377	317	241	76	2,729	
Engineering	67,189	16,310	4,110	1,428	1,476	1,285	191	1,176	5,166	292	2,662	23,776	7,906	7,187	719	19,197	
Aerospace	2,789	1,062	493	45	10	8	2	361	91	0	62	787	302	247	55	638	
Agricultural	556	162	6	0	7	1	6	10	17	92	30	230	87	76	11	77	
Biomedical	3,173	970	67	6	629	610	19	27	151	4	86	933	475	448	27	795	
Chemical	4,562	1,497	166	258	195	172	23	67	597	34	180	1,751	731	692	39	583	
Civil	9,412	1,506	121	59	41	22	19	35	472	53	725	3,870	918	826	92	3,118	
Electrical	21,645	5,003	1,708	167	287	236	51	282	1,912	32	615	6,960	2,341	2,200	141	7,341	
Engineering science/physics	1,363	426	149	55	27	24	3	17	147	7	24	613	142	129	13	182	
Industrial/manufacturing	4,997	755	248	36	50	31	19	33	261	9	118	1,679	456	394	62	2,107	
Mechanical	10,998	2,686	639	320	154	127	27	244	856	21	452	4,255	1,323	1,196	127	2,734	
Metallurgical/materials	3,217	1,167	281	218	27	21	6	38	463	2	138	1,097	554	496	58	399	
Mining	208	46	0	18	11	1	10	0	5	2	10	99	19	17	2	44	
Nuclear	641	276	43	162	5	1	4	10	7	0	49	210	83	80	3	72	
Petroleum	540	52	2	41	1	0	1	0	3	1	4	235	116	62	54	137	
Other	3,088	702	187	43	32	31	1	52	184	35	169	1,057	359	324	35	970	

DOD = Department of Defense; DOE = Department of Energy; HHS = Department of Health and Human Services; NASA = National Aeronautics and Space Administration; NIH = National Institutes of Health;

NSF = National Science Foundation; USDA = U.S. Department of Agriculture

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering, 2004.

TABLE E-1. Master's degrees, by field: 1995–2004

Field	1995	1996	1997	1998	2000	2001	2002	2003	2004
All fields	399,428	408,932	420,954	431,871	456,260	466,645	481,132	511,603	555,537
S&E	94,309	95,313	93,485	93,918	95,683	98,986	99,173	107,427	118,051
Sciences	65,679	67,552	67,611	67,780	69,947	72,463	72,907	77,723	84,179
Agricultural sciences	3,574	4,021	3,927	3,862	3,858	3,752	4,019	3,686	3,980
Biological sciences	5,495	6,286	6,594	6,368	6,325	6,487	6,334	6,706	7,556
Computer sciences	10,563	10,613	10,489	11,752	14,529	16,341	16,582	19,248	19,853
Earth, atmospheric, and ocean sciences	1,483	1,487	1,435	1,426	1,345	1,363	1,406	1,491	1,570
Atmospheric sciences	203	199	177	199	156	140	141	167	179
Earth sciences	1,142	1,146	1,145	1,105	1,104	1,121	1,151	1,203	1,248
Ocean sciences	138	142	113	122	85	102	114	121	143
Mathematics and statistics	3,932	3,742	3,599	3,525	3,295	3,280	3,408	3,706	4,297
Physical sciences	4,241	4,364	4,141	3,969	3,512	3,737	3,624	3,702	4,030
Astronomy	119	115	93	101	102	93	112	123	150
Chemistry	2,105	2,273	2,268	2,173	1,908	2,009	1,866	1,830	2,056
Physics	1,826	1,686	1,497	1,401	1,244	1,376	1,353	1,453	1,637
Other	191	290	283	294	258	259	293	296	187
Psychology	13,132	13,043	13,633	13,146	13,708	14,335	14,041	14,469	15,298
Social sciences	23,259	23,996	23,793	23,732	23,375	23,168	23,493	24,715	27,595
Anthropology	1,053	1,051	1,111	1,098	950	1,092	1,017	1,043	1,098
Area and ethnic studies	1,584	1,657	1,587	1,550	1,529	1,515	1,497	1,514	1,617
Economics	2,838	2,964	2,804	2,843	2,515	2,492	2,651	2,951	3,201
History of science	13	10	18	22	24	26	35	25	25
Linguistics	603	601	642	568	553	552	520	525	574
Political science and public administration	12,802	13,370	13,368	13,151	13,035	12,929	13,183	14,072	15,679
Sociology	1,790	1,822	1,752	1,774	2,036	1,901	1,957	1,929	2,031
Other	2,576	2,521	2,511	2,726	2,733	2,661	2,633	2,656	3,370
Engineering	28,630	27,761	25,874	26,138	25,736	26,523	26,266	29,704	33,872
Aerospace engineering	821	774	625	584	560	611	682	735	870
Chemical engineering	1,369	1,416	1,345	1,372	1,352	1,368	1,267	1,365	1,506
Civil engineering	5,168	5,002	4,880	4,736	4,140	4,013	3,947	4,190	4,445
Electrical engineering	8,743	8,156	7,341	7,971	8,339	8,630	8,279	10,075	12,173
Industrial engineering	2,873	3,027	2,935	3,109	3,048	3,401	3,388	3,849	4,244
Materials engineering	852	774	724	698	759	709	630	720	800
Mechanical engineering	4,368	4,009	3,756	3,551	3,378	3,472	3,519	3,839	4,555
Other	4,436	4,603	4,268	4,117	4,160	4,319	4,554	4,931	5,279
Non-S&E	305,119	313,619	327,469	337,953	360,577	367,659	381,959	404,176	437,486

NOTE: Data not available for 1999.

SOURCE: National Science Foundation, Division of Science Resources Statistics, special tabulations of U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Completions Survey, 1995–2004.

TABLE E-2. Master's degrees awarded to women, by field: 1995–2004

Field	1995	1996	1997	1998	2000	2001	2002	2003	2004	1995	2004
	Number										Percent
All fields	220,230	228,572	239,497	246,810	265,026	273,639	283,035	300,845	328,202	55.1	59.1
S&E	35,791	37,453	38,262	38,583	41,470	43,393	43,472	46,414	51,420	38.0	43.6
Sciences	31,159	32,701	33,567	33,420	36,130	37,765	37,898	40,230	44,285	47.4	52.6
Agricultural sciences	1,471	1,707	1,695	1,709	1,819	1,837	1,997	1,908	2,128	41.2	53.5
Biological sciences	2,858	3,341	3,518	3,354	3,510	3,755	3,669	3,906	4,430	52.0	58.6
Computer sciences	2,786	2,850	2,979	3,414	4,868	5,508	5,499	6,091	6,195	26.4	31.2
Earth, atmospheric, and ocean sciences	451	436	487	494	513	564	572	612	701	30.4	44.6
Atmospheric sciences	51	35	42	52	37	40	46	55	67	25.1	37.4
Earth sciences	353	347	393	397	434	472	473	501	566	30.9	45.4
Ocean sciences	47	54	52	45	42	52	53	56	68	34.1	47.6
Mathematics and statistics	1,579	1,506	1,489	1,470	1,498	1,389	1,471	1,677	1,950	40.2	45.4
Physical sciences	1,283	1,450	1,333	1,440	1,215	1,301	1,326	1,324	1,513	30.3	37.5
Astronomy	31	27	32	30	25	36	27	42	53	26.1	35.3
Chemistry	885	998	927	998	823	825	852	829	950	42.0	46.2
Physics	291	301	255	255	244	286	286	313	413	15.9	25.2
Other	76	124	119	157	123	154	161	140	97	39.8	51.9
Psychology	9,397	9,373	9,918	9,540	10,293	10,858	10,672	11,100	11,950	71.6	78.1
Social sciences	11,334	12,038	12,148	11,999	12,414	12,553	12,692	13,612	15,418	48.7	55.9
Anthropology	668	631	712	686	587	689	642	655	721	63.4	65.7
Area and ethnic studies	818	856	845	842	879	896	879	888	961	51.6	59.4
Economics	894	1,002	953	944	952	973	1,050	1,161	1,252	31.5	39.1
History of science	4	4	7	7	6	10	17	10	14	30.8	56.0
Linguistics	416	393	418	389	407	380	360	380	410	69.0	71.4
Political science and public administration	6,124	6,654	6,691	6,566	6,720	6,841	6,978	7,689	8,761	47.8	55.9
Sociology	1,112	1,180	1,142	1,118	1,387	1,258	1,315	1,296	1,358	62.1	66.9
Other	1,298	1,318	1,380	1,447	1,476	1,506	1,451	1,533	1,941	50.4	57.6
Engineering	4,632	4,752	4,695	5,163	5,340	5,628	5,574	6,184	7,135	16.2	21.1
Aerospace engineering	99	92	75	81	76	90	125	107	149	12.1	17.1
Chemical engineering	306	306	332	344	344	352	335	343	417	22.4	27.7
Civil engineering	1,045	1,064	1,099	1,154	1,075	1,061	1,063	1,148	1,211	20.2	27.2
Electrical engineering	1,204	1,196	1,144	1,376	1,558	1,673	1,561	1,902	2,385	13.8	19.6
Industrial engineering	512	624	604	676	648	789	795	844	906	17.8	21.3
Materials engineering	184	175	174	170	201	173	171	183	199	21.6	24.9
Mechanical engineering	450	454	419	461	455	448	468	459	563	10.3	12.4
Other	832	841	848	901	983	1,042	1,056	1,198	1,305	18.8	24.7
Non-S&E	184,439	191,119	201,235	208,227	223,556	230,246	239,563	254,431	276,782	60.4	63.3

NOTE: Data not available for 1999.

SOURCE: National Science Foundation, Division of Science Resources Statistics, special tabulations of U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Completions Survey, 1995–2004.

TABLE E-3. Master's degrees, by field, citizenship, and race/ethnicity: 1995–2004

Field, citizenship, and race/ethnicity	1995	1996	1997	1998	2000	2001	2002	2003	2004
All fields	399,428	408,932	420,954	431,871	456,260	466,645	481,132	511,603	555,537
S&E	94,309	95,313	93,485	93,918	95,683	98,986	99,173	107,427	118,051
Sciences	65,679	67,552	67,611	67,780	69,947	72,463	72,907	77,723	84,179
Agricultural sciences	3,574	4,021	3,927	3,862	3,858	3,752	4,019	3,686	3,980
Biological sciences	5,495	6,286	6,594	6,368	6,325	6,487	6,334	6,706	7,556
Computer sciences	10,563	10,613	10,489	11,752	14,529	16,341	16,582	19,248	19,853
Earth, atmospheric, and ocean sciences	1,483	1,487	1,435	1,426	1,345	1,363	1,406	1,491	1,570
Atmospheric sciences	203	199	177	199	156	140	141	167	179
Earth sciences	1,142	1,146	1,145	1,105	1,104	1,121	1,151	1,203	1,248
Ocean sciences	138	142	113	122	85	102	114	121	143
Mathematics and statistics	3,932	3,742	3,599	3,525	3,295	3,280	3,408	3,706	4,297
Physical sciences	4,241	4,364	4,141	3,969	3,512	3,737	3,624	3,702	4,030
Astronomy	119	115	93	101	102	93	112	123	150
Chemistry	2,105	2,273	2,268	2,173	1,908	2,009	1,866	1,830	2,056
Physics	1,826	1,686	1,497	1,401	1,244	1,376	1,353	1,453	1,637
Other	191	290	283	294	258	259	293	296	187
Psychology	13,132	13,043	13,633	13,146	13,708	14,335	14,041	14,469	15,298
Social sciences	23,259	23,996	23,793	23,732	23,375	23,168	23,493	24,715	27,595
Anthropology	1,053	1,051	1,111	1,098	950	1,092	1,017	1,043	1,098
Area and ethnic studies	1,584	1,657	1,587	1,550	1,529	1,515	1,497	1,514	1,617
Economics	2,838	2,964	2,804	2,843	2,515	2,492	2,651	2,951	3,201
History of science	13	10	18	22	24	26	35	25	25
Linguistics	603	601	642	568	553	552	520	525	574
Political science and public administration	12,802	13,370	13,368	13,151	13,035	12,929	13,183	14,072	15,679
Sociology	1,790	1,822	1,752	1,774	2,036	1,901	1,957	1,929	2,031
Other	2,576	2,521	2,511	2,726	2,733	2,661	2,633	2,656	3,370
Engineering	28,630	27,761	25,874	26,138	25,736	26,523	26,266	29,704	33,872
Aerospace engineering	821	774	625	584	560	611	682	735	870
Chemical engineering	1,369	1,416	1,345	1,372	1,352	1,368	1,267	1,365	1,506
Civil engineering	5,168	5,002	4,880	4,736	4,140	4,013	3,947	4,190	4,445
Electrical engineering	8,743	8,156	7,341	7,971	8,339	8,630	8,279	10,075	12,173
Industrial engineering	2,873	3,027	2,935	3,109	3,048	3,401	3,388	3,849	4,244
Materials engineering	852	774	724	698	759	709	630	720	800
Mechanical engineering	4,368	4,009	3,756	3,551	3,378	3,472	3,519	3,839	4,555
Other	4,436	4,603	4,268	4,117	4,160	4,319	4,554	4,931	5,279
Non-S&E	305,119	313,619	327,469	337,953	360,577	367,659	381,959	404,176	437,486
U.S. citizen/permanent resident									
All fields	350,672	360,682	371,477	379,666	400,689	405,455	417,821	440,227	481,135
S&E	72,092	73,635	72,220	71,295	70,933	71,564	71,623	75,114	82,741
Sciences	53,161	54,870	54,982	54,318	55,020	56,042	56,160	58,784	64,489
Agricultural sciences	2,921	3,363	3,269	3,264	3,342	3,281	3,540	3,189	3,357
Biological sciences	4,610	5,295	5,671	5,468	5,575	5,614	5,529	5,742	6,455
Computer sciences	6,667	6,712	6,516	6,957	7,966	8,596	8,895	10,159	11,033
Earth, atmospheric, and ocean sciences	1,198	1,238	1,198	1,218	1,150	1,191	1,207	1,285	1,312
Atmospheric sciences	151	163	143	152	118	116	113	128	135
Earth sciences	938	962	959	972	962	987	1,001	1,046	1,058
Ocean sciences	109	113	96	94	70	88	93	111	119
Mathematics and statistics	2,816	2,712	2,606	2,499	2,184	2,050	2,114	2,193	2,512
Physical sciences	2,774	2,879	2,734	2,680	2,372	2,498	2,436	2,513	2,662
Astronomy	94	94	74	82	80	65	77	94	102
Chemistry	1,366	1,468	1,501	1,446	1,309	1,388	1,260	1,297	1,384

TABLE E-3. Master's degrees, by field, citizenship, and race/ethnicity: 1995–2004

Field, citizenship, and race/ethnicity	1995	1996	1997	1998	2000	2001	2002	2003	2004
Physics	1,144	1,082	938	882	761	808	829	851	1,010
Other	170	235	221	270	222	237	270	271	166
Psychology	12,659	12,619	13,231	12,686	13,241	13,871	13,562	13,804	14,695
Social sciences	19,516	20,052	19,757	19,546	19,190	18,941	18,877	19,899	22,463
Anthropology	958	956	1,020	1,012	864	1,004	918	960	993
Area and ethnic studies	1,401	1,489	1,397	1,340	1,300	1,287	1,269	1,266	1,364
Economics	1,561	1,620	1,456	1,440	1,209	1,172	1,191	1,337	1,493
History of science	13	10	16	16	22	21	33	18	22
Linguistics	412	430	473	420	380	394	351	353	398
Political science and public administration	11,217	11,580	11,517	11,220	11,111	10,946	11,037	11,850	13,317
Sociology	1,614	1,647	1,580	1,622	1,845	1,744	1,766	1,744	1,832
Other	2,340	2,320	2,298	2,476	2,459	2,373	2,312	2,371	3,044
Engineering	18,931	18,765	17,238	16,977	15,913	15,522	15,463	16,330	18,252
Aerospace engineering	615	576	441	374	339	360	395	447	579
Chemical engineering	685	820	748	780	721	726	662	657	704
Civil engineering	3,712	3,664	3,664	3,547	3,048	2,780	2,593	2,686	2,782
Electrical engineering	5,375	4,994	4,265	4,452	4,231	3,959	4,036	4,403	5,276
Industrial engineering	1,874	2,044	1,872	2,004	1,872	1,992	1,958	2,084	2,268
Materials engineering	535	501	472	447	483	409	386	381	417
Mechanical engineering	2,939	2,806	2,602	2,423	2,212	2,222	2,214	2,239	2,630
Other	3,196	3,360	3,174	2,950	3,007	3,074	3,219	3,433	3,596
Non-S&E	278,580	287,047	299,257	308,371	329,756	333,891	346,198	365,113	398,394
White									
All fields	277,437	282,713	288,353	291,962	297,226	293,390	296,978	306,552	326,932
S&E	54,610	55,349	53,769	52,328	49,850	48,792	48,410	49,582	54,045
Sciences	40,779	41,773	41,277	40,243	38,830	38,326	38,006	38,856	42,288
Agricultural sciences	2,447	2,918	2,809	2,827	2,864	2,782	2,951	2,675	2,774
Biological sciences	3,642	4,131	4,395	4,212	4,179	4,124	4,085	4,192	4,559
Computer sciences	4,354	4,353	4,105	4,277	4,435	4,541	4,738	5,125	5,686
Earth, atmospheric, and ocean sciences	1,019	1,074	1,084	1,106	1,036	1,043	1,065	1,125	1,144
Atmospheric sciences	133	148	128	133	111	99	98	117	120
Earth sciences	819	853	873	889	861	876	890	914	921
Ocean sciences	67	73	83	84	64	68	77	94	103
Mathematics and statistics	2,222	2,083	2,005	1,895	1,655	1,515	1,555	1,623	1,795
Physical sciences	2,152	2,250	2,088	2,023	1,774	1,874	1,782	1,848	2,023
Astronomy	77	79	67	73	65	47	59	67	76
Chemistry	1,007	1,099	1,068	1,028	929	992	876	905	1,012
Physics	924	866	755	696	585	627	613	642	790
Other	144	206	198	226	195	208	234	234	145
Psychology	10,367	10,071	10,444	9,820	9,646	9,798	9,315	9,356	9,901
Social sciences	14,576	14,893	14,347	14,083	13,241	12,649	12,515	12,912	14,406
Anthropology	774	789	862	839	686	800	705	743	770
Area and ethnic studies	947	999	992	958	898	794	769	720	838
Economics	1,161	1,205	1,047	1,067	839	840	827	828	927
History of science	11	9	12	16	20	18	23	13	17
Linguistics	317	340	364	319	295	284	270	258	290
Political science and public administration	8,320	8,551	8,185	7,820	7,427	7,005	7,051	7,470	8,297
Sociology	1,165	1,160	1,130	1,165	1,254	1,178	1,183	1,177	1,202
Other	1,881	1,840	1,755	1,899	1,822	1,730	1,687	1,703	2,065
Engineering	13,831	13,576	12,492	12,085	11,020	10,466	10,404	10,726	11,757
Aerospace engineering	451	427	345	297	284	277	310	347	444
Chemical engineering	494	605	541	537	501	487	435	431	455
Civil engineering	2,913	2,849	2,842	2,777	2,337	2,130	1,931	1,995	2,089
Electrical engineering	3,473	3,165	2,737	2,710	2,474	2,244	2,308	2,433	2,812

TABLE E-3. Master's degrees, by field, citizenship, and race/ethnicity: 1995–2004

Field, citizenship, and race/ethnicity	1995	1996	1997	1998	2000	2001	2002	2003	2004
Industrial engineering	1,342	1,479	1,360	1,406	1,238	1,290	1,261	1,302	1,361
Materials engineering	447	396	350	356	373	295	287	282	304
Mechanical engineering	2,237	2,119	1,967	1,815	1,630	1,558	1,584	1,618	1,840
Other	2,474	2,536	2,350	2,187	2,183	2,185	2,288	2,318	2,452
Non-S&E	222,827	227,364	234,584	239,634	247,376	244,598	248,568	256,970	272,887
Asian/Pacific Islander									
All fields	15,906	17,281	17,912	19,936	21,412	21,946	22,610	24,184	26,990
S&E	5,989	6,328	6,180	6,554	6,990	7,045	6,814	7,566	8,559
Sciences	3,417	3,707	3,861	4,103	4,611	4,631	4,613	5,122	5,557
Agricultural sciences	97	110	103	83	94	97	126	94	110
Biological sciences	426	528	575	591	595	540	537	629	756
Computer sciences	1,266	1,283	1,322	1,579	2,028	2,053	2,004	2,284	2,330
Earth, atmospheric, and ocean sciences	50	37	30	30	22	28	37	28	39
Atmospheric sciences	6	6	4	11	4	5	7	4	5
Earth sciences	37	28	19	15	17	17	25	18	28
Ocean sciences	7	3	7	4	1	6	5	6	6
Mathematics and statistics	228	220	238	216	180	205	214	221	275
Physical sciences	238	267	278	248	240	220	213	231	196
Astronomy	8	7	2	4	5	5	4	7	6
Chemistry	136	180	197	172	172	153	125	157	128
Physics	91	77	73	60	53	56	66	57	60
Other	3	3	6	12	10	6	18	10	2
Psychology	289	322	364	379	472	498	526	525	580
Social sciences	823	940	951	977	980	990	956	1,110	1,271
Anthropology	25	27	25	36	39	39	34	42	43
Area and ethnic studies	75	86	91	83	78	101	92	101	93
Economics	138	144	155	127	132	113	119	156	157
History of science	0	0	0	0	0	0	2	2	3
Linguistics	47	41	37	41	42	43	26	32	37
Political science and public administration	405	500	478	534	516	534	512	599	715
Sociology	74	65	69	72	66	70	86	95	106
Other	59	77	96	84	107	90	85	83	117
Engineering	2,572	2,621	2,319	2,451	2,379	2,414	2,201	2,444	3,002
Aerospace engineering	44	48	42	35	26	37	29	42	51
Chemical engineering	100	98	87	123	114	120	96	96	135
Civil engineering	369	381	386	329	283	220	204	241	254
Electrical engineering	1,117	1,096	911	1,082	1,061	1,026	919	1,049	1,421
Industrial engineering	221	196	153	180	192	212	190	275	284
Materials engineering	42	51	62	50	54	55	43	53	53
Mechanical engineering	344	328	293	278	265	358	315	262	347
Other	335	423	385	374	384	386	405	426	457
Non-S&E	9,917	10,953	11,732	13,382	14,422	14,901	15,796	16,618	18,431
Black									
All fields	22,954	24,588	26,948	28,616	33,305	35,059	36,524	39,582	44,375
S&E	4,210	4,420	4,870	4,894	5,492	6,117	6,133	6,783	7,433
Sciences	3,545	3,746	4,196	4,180	4,834	5,417	5,395	5,956	6,580
Agricultural sciences	74	88	96	95	84	96	88	98	93
Biological sciences	163	199	236	190	223	313	288	293	381
Computer sciences	373	435	411	424	580	654	659	881	902

TABLE E-3. Master's degrees, by field, citizenship, and race/ethnicity: 1995–2004

Field, citizenship, and race/ethnicity	1995	1996	1997	1998	2000	2001	2002	2003	2004
Earth, atmospheric, and ocean sciences	15	11	12	15	7	21	18	18	22
Atmospheric sciences	2	0	2	2	0	4	2	2	3
Earth sciences	13	9	10	13	6	15	15	13	16
Ocean sciences	0	2	0	0	1	2	1	3	3
Mathematics and statistics	140	145	154	142	98	113	113	98	115
Physical sciences	132	105	132	131	117	130	121	113	120
Astronomy	4	1	2	0	0	0	2	1	1
Chemistry	77	65	84	79	65	82	74	76	87
Physics	41	32	39	34	44	41	37	32	27
Other	10	7	7	18	8	7	8	4	5
Psychology	802	870	1,059	1,020	1,346	1,598	1,631	1,801	1,923
Social sciences	1,846	1,893	2,096	2,163	2,379	2,492	2,477	2,654	3,024
Anthropology	38	28	29	26	33	37	32	33	31
Area and ethnic studies	101	98	109	104	91	86	108	122	127
Economics	95	96	96	94	71	66	76	67	70
History of science	1	0	1	0	0	1	2	0	0
Linguistics	12	7	12	12	4	14	5	7	3
Political science and public administration	1,176	1,198	1,386	1,453	1,585	1,754	1,717	1,854	2,044
Sociology	229	261	247	220	344	294	285	274	301
Other	194	205	216	254	251	240	252	297	448
Engineering	665	674	674	714	658	700	738	827	853
Aerospace engineering	13	10	9	7	7	10	14	8	11
Chemical engineering	28	33	35	43	34	34	31	43	31
Civil engineering	105	116	109	127	93	102	101	96	76
Electrical engineering	228	192	168	198	183	188	189	226	238
Industrial engineering	80	112	89	111	90	119	142	158	170
Materials engineering	12	9	18	13	15	9	19	14	21
Mechanical engineering	91	85	110	96	91	89	71	79	85
Other	108	117	136	119	145	149	171	203	221
Non-S&E	18,744	20,168	22,078	23,722	27,813	28,942	30,391	32,799	36,942
Hispanic									
All fields	13,905	15,394	16,360	17,416	20,803	22,163	23,165	25,257	29,498
S&E	2,945	3,090	3,220	3,462	3,746	4,077	4,089	4,371	5,062
Sciences	2,234	2,342	2,455	2,655	2,894	3,239	3,234	3,495	3,932
Agricultural sciences	96	95	105	116	133	123	175	127	162
Biological sciences	167	194	214	192	268	310	267	262	325
Computer sciences	210	188	211	219	288	440	333	555	602
Earth, atmospheric, and ocean sciences	34	27	23	20	30	28	35	28	36
Atmospheric sciences	6	1	3	2	2	0	1	2	2
Earth sciences	28	25	18	17	26	25	31	24	32
Ocean sciences	0	1	2	1	2	3	3	2	2
Mathematics and statistics	72	88	63	85	100	72	82	108	113
Physical sciences	95	100	116	129	96	119	136	144	127
Astronomy	2	4	2	0	2	1	2	2	3
Chemistry	51	46	72	84	56	74	72	90	70
Physics	37	39	36	35	34	37	56	41	44
Other	5	11	6	10	4	7	6	11	10
Psychology	622	667	718	787	837	937	953	957	1,085
Social sciences	938	983	1,005	1,107	1,142	1,210	1,253	1,314	1,482
Anthropology	45	35	37	48	37	45	59	48	58
Area and ethnic studies	88	102	91	96	107	113	121	139	117
Economics	53	64	71	63	67	53	57	79	80
History of science	0	0	1	0	0	1	0	1	0
Linguistics	17	23	24	27	18	27	19	23	26

TABLE E-3. Master's degrees, by field, citizenship, and race/ethnicity: 1995–2004

Field, citizenship, and race/ethnicity	1995	1996	1997	1998	2000	2001	2002	2003	2004
Political science and public administration	573	593	634	651	701	736	743	800	903
Sociology	85	87	69	97	110	116	140	117	139
Other	77	79	78	125	102	119	114	107	159
Engineering	711	748	765	807	852	838	855	876	1,130
Aerospace engineering	22	10	20	16	13	11	19	14	21
Chemical engineering	30	43	51	46	39	40	45	39	40
Civil engineering	151	147	159	158	180	168	187	152	163
Electrical engineering	197	208	187	190	211	172	180	242	340
Industrial engineering	95	130	108	150	172	192	204	163	229
Materials engineering	11	21	22	15	15	22	16	6	16
Mechanical engineering	100	98	113	117	99	93	87	117	157
Other	105	91	105	115	123	140	117	143	164
Non-S&E	10,960	12,304	13,140	13,954	17,057	18,086	19,076	20,886	24,436
American Indian/Alaskan Native									
All fields	1,542	1,693	1,844	1,951	2,099	2,274	2,382	2,546	2,826
S&E	307	321	370	372	383	472	420	447	529
Sciences	264	265	317	318	319	412	363	377	444
Agricultural sciences	13	14	18	23	23	18	25	20	17
Biological sciences	20	17	25	21	26	29	34	30	33
Computer sciences	16	26	25	15	32	68	32	42	57
Earth, atmospheric, and ocean sciences	4	5	5	10	9	11	4	9	7
Atmospheric sciences	0	0	0	0	0	0	0	0	0
Earth sciences	4	4	5	8	9	8	4	9	7
Ocean sciences	0	1	0	2	0	3	0	0	0
Mathematics and statistics	11	5	14	9	9	9	8	8	7
Physical sciences	15	5	11	14	9	9	15	12	8
Astronomy	0	0	0	0	0	0	0	1	0
Chemistry	11	3	8	12	5	7	11	5	3
Physics	4	2	2	2	3	2	4	5	5
Other	0	0	1	0	1	0	0	1	0
Psychology	81	78	97	108	69	106	96	104	108
Social sciences	104	115	122	118	142	162	149	152	207
Anthropology	16	12	10	14	14	17	12	11	19
Area and ethnic studies	10	22	21	15	16	20	20	33	27
Economics	5	3	8	5	3	7	10	6	6
History of science	0	0	0	0	0	1	1	0	0
Linguistics	0	2	2	2	1	1	4	1	2
Political science and public administration	46	48	55	49	62	70	74	77	118
Sociology	14	20	16	19	30	28	17	17	17
Other	13	8	10	14	16	18	11	7	18
Engineering	43	56	53	54	64	60	57	70	85
Aerospace engineering	2	5	2	0	0	2	4	2	6
Chemical engineering	3	4	5	1	3	4	2	2	0
Civil engineering	10	9	10	14	14	10	11	13	16
Electrical engineering	10	15	8	9	14	10	13	18	10
Industrial engineering	5	3	6	7	8	15	8	8	19
Materials engineering	1	2	0	0	4	1	2	1	1
Mechanical engineering	7	11	10	13	7	7	6	9	21
Other	5	7	12	10	14	11	11	17	12
Non-S&E	1,235	1,372	1,474	1,579	1,716	1,802	1,962	2,099	2,297

TABLE E-3. Master's degrees, by field, citizenship, and race/ethnicity: 1995–2004

Field, citizenship, and race/ethnicity	1995	1996	1997	1998	2000	2001	2002	2003	2004
Other or unknown race/ethnicity									
All fields	18,928	19,013	20,060	19,785	25,844	30,623	36,162	42,106	50,514
S&E	4,031	4,127	3,811	3,685	4,472	5,061	5,757	6,365	7,113
Sciences	2,922	3,037	2,876	2,819	3,532	4,017	4,549	4,978	5,688
Agricultural sciences	194	138	138	120	144	165	175	175	201
Biological sciences	192	226	226	262	284	298	318	336	401
Computer sciences	448	427	442	443	603	840	1,129	1,272	1,456
Earth, atmospheric, and ocean sciences	76	84	44	37	46	60	48	77	64
Atmospheric sciences	4	8	6	4	1	8	5	3	5
Earth sciences	37	43	34	30	43	46	36	68	54
Ocean sciences	35	33	4	3	2	6	7	6	5
Mathematics and statistics	143	171	132	152	142	136	142	135	207
Physical sciences	142	152	109	135	136	146	169	165	188
Astronomy	3	3	1	5	8	12	10	16	16
Chemistry	84	75	72	71	82	80	102	64	84
Physics	47	66	33	55	42	45	53	74	84
Other	8	8	3	4	4	9	4	11	4
Psychology	498	611	549	572	871	934	1,041	1,061	1,098
Social sciences	1,229	1,228	1,236	1,098	1,306	1,438	1,527	1,757	2,073
Anthropology	60	65	57	49	55	66	76	83	72
Area and ethnic studies	180	182	93	84	110	173	159	151	162
Economics	109	108	79	84	97	93	102	201	253
History of science	1	1	2	0	2	0	5	2	2
Linguistics	19	17	34	19	20	25	27	32	40
Political science and public administration	697	690	779	713	820	847	940	1,050	1,240
Sociology	47	54	49	49	41	58	55	64	67
Other	116	111	143	100	161	176	163	174	237
Engineering	1,109	1,090	935	866	940	1,044	1,208	1,387	1,425
Aerospace engineering	83	76	23	19	9	23	19	34	46
Chemical engineering	30	37	29	30	30	41	53	46	43
Civil engineering	164	162	158	142	141	150	159	189	184
Electrical engineering	350	318	254	263	288	319	427	435	455
Industrial engineering	131	124	156	150	172	164	153	178	205
Materials engineering	22	22	20	13	22	27	19	25	22
Mechanical engineering	160	165	109	104	120	117	151	154	180
Other	169	186	186	145	158	203	227	326	290
Non-S&E	14,897	14,886	16,249	16,100	21,372	25,562	30,405	35,741	43,401
Temporary resident									
All fields	48,756	48,250	49,477	52,205	55,571	61,190	63,311	71,376	74,402
S&E	22,217	21,678	21,265	22,623	24,750	27,422	27,550	32,313	35,310
Sciences	12,518	12,682	12,629	13,462	14,927	16,421	16,747	18,939	19,690
Agricultural sciences	653	658	658	598	516	471	479	497	623
Biological sciences	885	991	923	900	750	873	805	964	1,101
Computer sciences	3,896	3,901	3,973	4,795	6,563	7,745	7,687	9,089	8,820
Earth, atmospheric, and ocean sciences	285	249	237	208	195	172	199	206	258
Atmospheric sciences	52	36	34	47	38	24	28	39	44
Earth sciences	204	184	186	133	142	134	150	157	190
Ocean sciences	29	29	17	28	15	14	21	10	24
Mathematics and statistics	1,116	1,030	993	1,026	1,111	1,230	1,294	1,513	1,785
Physical sciences	1,467	1,485	1,407	1,289	1,140	1,239	1,188	1,189	1,368
Astronomy	25	21	19	19	22	28	35	29	48
Chemistry	739	805	767	727	599	621	606	533	672

TABLE E-3. Master's degrees, by field, citizenship, and race/ethnicity: 1995–2004

Field, citizenship, and race/ethnicity	1995	1996	1997	1998	2000	2001	2002	2003	2004
Physics	682	604	559	519	483	568	524	602	627
Other	21	55	62	24	36	22	23	25	21
Psychology	473	424	402	460	467	464	479	665	603
Social sciences	3,743	3,944	4,036	4,186	4,185	4,227	4,616	4,816	5,132
Anthropology	95	95	91	86	86	88	99	83	105
Area and ethnic studies	183	168	190	210	229	228	228	248	253
Economics	1,277	1,344	1,348	1,403	1,306	1,320	1,460	1,614	1,708
History of science	0	0	2	6	2	5	2	7	3
Linguistics	191	171	169	148	173	158	169	172	176
Political science and public administration	1,585	1,790	1,851	1,931	1,924	1,983	2,146	2,222	2,362
Sociology	176	175	172	152	191	157	191	185	199
Other	236	201	213	250	274	288	321	285	326
Engineering	9,699	8,996	8,636	9,161	9,823	11,001	10,803	13,374	15,620
Aerospace engineering	206	198	184	210	221	251	287	288	291
Chemical engineering	684	596	597	592	631	642	605	708	802
Civil engineering	1,456	1,338	1,216	1,189	1,092	1,233	1,354	1,504	1,663
Electrical engineering	3,368	3,162	3,076	3,519	4,108	4,671	4,243	5,672	6,897
Industrial engineering	999	983	1,063	1,105	1,176	1,409	1,430	1,765	1,976
Materials engineering	317	273	252	251	276	300	244	339	383
Mechanical engineering	1,429	1,203	1,154	1,128	1,166	1,250	1,305	1,600	1,925
Other	1,240	1,243	1,094	1,167	1,153	1,245	1,335	1,498	1,683
Non-S&E	26,539	26,572	28,212	29,582	30,821	33,768	35,761	39,063	39,092

NOTES: Physical sciences includes earth, atmospheric, and ocean sciences; physics; astronomy; and chemistry. Race/ethnicity breakouts are for U.S. citizens and permanent residents only. Temporary resident includes all racial/ethnic groups. Data are not available for 1999.

SOURCE: National Science Foundation, Division of Science Resources Statistics, special tabulations of U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Completions Survey, 1995–2004.

TABLE E-4. Racial/ethnic distribution of S&E master's degrees awarded to U.S. citizens and permanent residents, by field: 1995–2004
(Percent)

Field and race/ethnicity	1995	1996	1997	1998	2000	2001	2002	2003	2004
White									
All fields	79.1	78.4	77.6	76.9	74.2	72.4	71.1	69.6	68.0
S&E	75.8	75.2	74.5	73.4	70.3	68.2	67.6	66.0	65.3
Sciences	76.7	76.1	75.1	74.1	70.6	68.4	67.7	66.1	65.6
Agricultural sciences	83.8	86.8	85.9	86.6	85.7	84.8	83.4	83.9	82.6
Biological sciences	79.0	78.0	77.5	77.0	75.0	73.5	73.9	73.0	70.6
Computer sciences	65.3	64.9	63.0	61.5	55.7	52.8	53.3	50.4	51.5
Earth, atmospheric, and ocean sciences	85.1	86.8	90.5	90.8	90.1	87.6	88.2	87.5	87.2
Atmospheric sciences	88.1	90.8	89.5	87.5	94.1	85.3	86.7	91.4	88.9
Earth sciences	87.3	88.7	91.0	91.5	89.5	88.8	88.9	87.4	87.1
Ocean sciences	61.5	64.6	86.5	89.4	91.4	77.3	82.8	84.7	86.6
Mathematics and statistics	78.9	76.8	76.9	75.8	75.8	73.9	73.6	74.0	71.5
Physical sciences	77.6	78.2	76.4	75.5	74.8	75.0	73.2	73.5	76.0
Astronomy	81.9	84.0	90.5	89.0	81.3	72.3	76.6	71.3	74.5
Chemistry	73.7	74.9	71.2	71.1	71.0	71.5	69.5	69.8	73.1
Physics	80.8	80.0	80.5	78.9	76.9	77.6	73.9	75.4	78.2
Other	84.7	87.7	89.6	83.7	87.8	87.8	86.7	86.3	87.3
Psychology	81.9	79.8	78.9	77.4	72.8	70.6	68.7	67.8	67.4
Social sciences	74.7	74.3	72.6	72.1	69.0	66.8	66.3	64.9	64.1
Anthropology	80.8	82.5	84.5	82.9	79.4	79.7	76.8	77.4	77.5
Area and ethnic studies	67.6	67.1	71.0	71.5	69.1	61.7	60.6	56.9	61.4
Economics	74.4	74.4	71.9	74.1	69.4	71.7	69.4	61.9	62.1
History of science	84.6	90.0	75.0	100.0	90.9	85.7	69.7	72.2	77.3
Linguistics	76.9	79.1	77.0	76.0	77.6	72.1	76.9	73.1	72.9
Political science and public administration	74.2	73.8	71.1	69.7	66.8	64.0	63.9	63.0	62.3
Sociology	72.2	70.4	71.5	71.8	68.0	67.5	67.0	67.5	65.6
Other	80.4	79.3	76.4	76.7	74.1	72.9	73.0	71.8	67.8
Engineering	73.1	72.3	72.5	71.2	69.3	67.4	67.3	65.7	64.4
Aerospace engineering	73.3	74.1	78.2	79.4	83.8	76.9	78.5	77.6	76.7
Chemical engineering	72.1	73.8	72.3	68.8	69.5	67.1	65.7	65.6	64.6
Civil engineering	78.5	77.8	77.6	78.3	76.7	76.6	74.5	74.3	75.1
Electrical engineering	64.6	63.4	64.2	60.9	58.5	56.7	57.2	55.3	53.3
Industrial engineering	71.6	72.4	72.6	70.2	66.1	64.8	64.4	62.5	60.0
Materials engineering	83.6	79.0	74.2	79.6	77.2	72.1	74.4	74.0	72.9
Mechanical engineering	76.1	75.5	75.6	74.9	73.7	70.1	71.5	72.3	70.0
Other	77.4	75.5	74.0	74.1	72.6	71.1	71.1	67.5	68.2
Non-S&E	80.0	79.2	78.4	77.7	75.0	73.3	71.8	70.4	68.5
Asian/Pacific Islander									
All fields	4.5	4.8	4.8	5.3	5.3	5.4	5.4	5.5	5.6
S&E	8.3	8.6	8.6	9.2	9.9	9.8	9.5	10.1	10.3
Sciences	6.4	6.8	7.0	7.6	8.4	8.3	8.2	8.7	8.6
Agricultural sciences	3.3	3.3	3.2	2.5	2.8	3.0	3.6	2.9	3.3
Biological sciences	9.2	10.0	10.1	10.8	10.7	9.6	9.7	11.0	11.7
Computer sciences	19.0	19.1	20.3	22.7	25.5	23.9	22.5	22.5	21.1
Earth, atmospheric, and ocean sciences	4.2	3.0	2.5	2.5	1.9	2.4	3.1	2.2	3.0
Atmospheric sciences	4.0	3.7	2.8	7.2	3.4	4.3	6.2	3.1	3.7
Earth sciences	3.9	2.9	2.0	1.5	1.8	1.7	2.5	1.7	2.6
Ocean sciences	6.4	2.7	7.3	4.3	1.4	6.8	5.4	5.4	5.0
Mathematics and statistics	8.1	8.1	9.1	8.6	8.2	10.0	10.1	10.1	10.9
Physical sciences	8.6	9.3	10.2	9.3	10.1	8.8	8.7	9.2	7.4
Astronomy	8.5	7.4	2.7	4.9	6.3	7.7	5.2	7.4	5.9

TABLE E-4. Racial/ethnic distribution of S&E master's degrees awarded to U.S. citizens and permanent residents, by field: 1995–2004
(Percent)

Field and race/ethnicity	1995	1996	1997	1998	2000	2001	2002	2003	2004
Chemistry	10.0	12.3	13.1	11.9	13.1	11.0	9.9	12.1	9.2
Physics	8.0	7.1	7.8	6.8	7.0	6.9	8.0	6.7	5.9
Other	1.8	1.3	2.7	4.4	4.5	2.5	6.7	3.7	1.2
Psychology	2.3	2.6	2.8	3.0	3.6	3.6	3.9	3.8	3.9
Social sciences	4.2	4.7	4.8	5.0	5.1	5.2	5.1	5.6	5.7
Anthropology	2.6	2.8	2.5	3.6	4.5	3.9	3.7	4.4	4.3
Area and ethnic studies	5.4	5.8	6.5	6.2	6.0	7.8	7.2	8.0	6.8
Economics	8.8	8.9	10.6	8.8	10.9	9.6	10.0	11.7	10.5
History of science	0.0	0.0	0.0	0.0	0.0	0.0	6.1	11.1	13.6
Linguistics	11.4	9.5	7.8	9.8	11.1	10.9	7.4	9.1	9.3
Political science and public administration	3.6	4.3	4.2	4.8	4.6	4.9	4.6	5.1	5.4
Sociology	4.6	3.9	4.4	4.4	3.6	4.0	4.9	5.4	5.8
Other	2.5	3.3	4.2	3.4	4.4	3.8	3.7	3.5	3.8
Engineering	13.6	14.0	13.5	14.4	15.0	15.6	14.2	15.0	16.4
Aerospace engineering	7.2	8.3	9.5	9.4	7.7	10.3	7.3	9.4	8.8
Chemical engineering	14.6	12.0	11.6	15.8	15.8	16.5	14.5	14.6	19.2
Civil engineering	9.9	10.4	10.5	9.3	9.3	7.9	7.9	9.0	9.1
Electrical engineering	20.8	21.9	21.4	24.3	25.1	25.9	22.8	23.8	26.9
Industrial engineering	11.8	9.6	8.2	9.0	10.3	10.6	9.7	13.2	12.5
Materials engineering	7.9	10.2	13.1	11.2	11.2	13.4	11.1	13.9	12.7
Mechanical engineering	11.7	11.7	11.3	11.5	12.0	16.1	14.2	11.7	13.2
Other	10.5	12.6	12.1	12.7	12.8	12.6	12.6	12.4	12.7
Non-S&E	3.6	3.8	3.9	4.3	4.4	4.5	4.6	4.6	4.6
Black									
All fields	6.5	6.8	7.3	7.5	8.3	8.6	8.7	9.0	9.2
S&E	5.8	6.0	6.7	6.9	7.7	8.5	8.6	9.0	9.0
Sciences	6.7	6.8	7.6	7.7	8.8	9.7	9.6	10.1	10.2
Agricultural sciences	2.5	2.6	2.9	2.9	2.5	2.9	2.5	3.1	2.8
Biological sciences	3.5	3.8	4.2	3.5	4.0	5.6	5.2	5.1	5.9
Computer sciences	5.6	6.5	6.3	6.1	7.3	7.6	7.4	8.7	8.2
Earth, atmospheric, and ocean sciences	1.3	0.9	1.0	1.2	0.6	1.8	1.5	1.4	1.7
Atmospheric sciences	1.3	0.0	1.4	1.3	0.0	3.4	1.8	1.6	2.2
Earth sciences	1.4	0.9	1.0	1.3	0.6	1.5	1.5	1.2	1.5
Ocean sciences	0.0	1.8	0.0	0.0	1.4	2.3	1.1	2.7	2.5
Mathematics and statistics	5.0	5.3	5.9	5.7	4.5	5.5	5.3	4.5	4.6
Physical sciences	4.8	3.6	4.8	4.9	4.9	5.2	5.0	4.5	4.5
Astronomy	4.3	1.1	2.7	0.0	0.0	0.0	2.6	1.1	1.0
Chemistry	5.6	4.4	5.6	5.5	5.0	5.9	5.9	5.9	6.3
Physics	3.6	3.0	4.2	3.9	5.8	5.1	4.5	3.8	2.7
Other	5.9	3.0	3.2	6.7	3.6	3.0	3.0	1.5	3.0
Psychology	6.3	6.9	8.0	8.0	10.2	11.5	12.0	13.0	13.1
Social sciences	9.5	9.4	10.6	11.1	12.4	13.2	13.1	13.3	13.5
Anthropology	4.0	2.9	2.8	2.6	3.8	3.7	3.5	3.4	3.1
Area and ethnic studies	7.2	6.6	7.8	7.8	7.0	6.7	8.5	9.6	9.3
Economics	6.1	5.9	6.6	6.5	5.9	5.6	6.4	5.0	4.7
History of science	7.7	0.0	6.3	0.0	0.0	4.8	6.1	0.0	0.0
Linguistics	2.9	1.6	2.5	2.9	1.1	3.6	1.4	2.0	0.8
Political science and public administration	10.5	10.3	12.0	13.0	14.3	16.0	15.6	15.6	15.3
Sociology	14.2	15.8	15.6	13.6	18.6	16.9	16.1	15.7	16.4
Other	8.3	8.8	9.4	10.3	10.2	10.1	10.9	12.5	14.7
Engineering	3.5	3.6	3.9	4.2	4.1	4.5	4.8	5.1	4.7
Aerospace engineering	2.1	1.7	2.0	1.9	2.1	2.8	3.5	1.8	1.9

TABLE E-4. Racial/ethnic distribution of S&E master's degrees awarded to U.S. citizens and permanent residents, by field: 1995–2004
(Percent)

Field and race/ethnicity	1995	1996	1997	1998	2000	2001	2002	2003	2004
Chemical engineering	4.1	4.0	4.7	5.5	4.7	4.7	4.7	6.5	4.4
Civil engineering	2.8	3.2	3.0	3.6	3.1	3.7	3.9	3.6	2.7
Electrical engineering	4.2	3.8	3.9	4.4	4.3	4.7	4.7	5.1	4.5
Industrial engineering	4.3	5.5	4.8	5.5	4.8	6.0	7.3	7.6	7.5
Materials engineering	2.2	1.8	3.8	2.9	3.1	2.2	4.9	3.7	5.0
Mechanical engineering	3.1	3.0	4.2	4.0	4.1	4.0	3.2	3.5	3.2
Other	3.4	3.5	4.3	4.0	4.8	4.8	5.3	5.9	6.1
Non-S&E	6.7	7.0	7.4	7.7	8.4	8.7	8.8	9.0	9.3
Hispanic									
All fields	4.0	4.3	4.4	4.6	5.2	5.5	5.5	5.7	6.1
S&E	4.1	4.2	4.5	4.9	5.3	5.7	5.7	5.8	6.1
Sciences	4.2	4.3	4.5	4.9	5.3	5.8	5.8	5.9	6.1
Agricultural sciences	3.3	2.8	3.2	3.6	4.0	3.7	4.9	4.0	4.8
Biological sciences	3.6	3.7	3.8	3.5	4.8	5.5	4.8	4.6	5.0
Computer sciences	3.1	2.8	3.2	3.1	3.6	5.1	3.7	5.5	5.5
Earth, atmospheric, and ocean sciences	2.8	2.2	1.9	1.6	2.6	2.4	2.9	2.2	2.7
Atmospheric sciences	4.0	0.6	2.1	1.3	1.7	0.0	0.9	1.6	1.5
Earth sciences	3.0	2.6	1.9	1.7	2.7	2.5	3.1	2.3	3.0
Ocean sciences	0.0	0.9	2.1	1.1	2.9	3.4	3.2	1.8	1.7
Mathematics and statistics	2.6	3.2	2.4	3.4	4.6	3.5	3.9	4.9	4.5
Physical sciences	3.4	3.5	4.2	4.8	4.0	4.8	5.6	5.7	4.8
Astronomy	2.1	4.3	2.7	0.0	2.5	1.5	2.6	2.1	2.9
Chemistry	3.7	3.1	4.8	5.8	4.3	5.3	5.7	6.9	5.1
Physics	3.2	3.6	3.8	4.0	4.5	4.6	6.8	4.8	4.4
Other	2.9	4.7	2.7	3.7	1.8	3.0	2.2	4.1	6.0
Psychology	4.9	5.3	5.4	6.2	6.3	6.8	7.0	6.9	7.4
Social sciences	4.8	4.9	5.1	5.7	6.0	6.4	6.6	6.6	6.6
Anthropology	4.7	3.7	3.6	4.7	4.3	4.5	6.4	5.0	5.8
Area and ethnic studies	6.3	6.9	6.5	7.2	8.2	8.8	9.5	11.0	8.6
Economics	3.4	4.0	4.9	4.4	5.5	4.5	4.8	5.9	5.4
History of science	0.0	0.0	6.3	0.0	0.0	4.8	0.0	5.6	0.0
Linguistics	4.1	5.3	5.1	6.4	4.7	6.9	5.4	6.5	6.5
Political science and public administration	5.1	5.1	5.5	5.8	6.3	6.7	6.7	6.8	6.8
Sociology	5.3	5.3	4.4	6.0	6.0	6.7	7.9	6.7	7.6
Other	3.3	3.4	3.4	5.0	4.1	5.0	4.9	4.5	5.2
Engineering	3.8	4.0	4.4	4.8	5.4	5.4	5.5	5.4	6.2
Aerospace engineering	3.6	1.7	4.5	4.3	3.8	3.1	4.8	3.1	3.6
Chemical engineering	4.4	5.2	6.8	5.9	5.4	5.5	6.8	5.9	5.7
Civil engineering	4.1	4.0	4.3	4.5	5.9	6.0	7.2	5.7	5.9
Electrical engineering	3.7	4.2	4.4	4.3	5.0	4.3	4.5	5.5	6.4
Industrial engineering	5.1	6.4	5.8	7.5	9.2	9.6	10.4	7.8	10.1
Materials engineering	2.1	4.2	4.7	3.4	3.1	5.4	4.1	1.6	3.8
Mechanical engineering	3.4	3.5	4.3	4.8	4.5	4.2	3.9	5.2	6.0
Other	3.3	2.7	3.3	3.9	4.1	4.6	3.6	4.2	4.6
Non-S&E	3.9	4.3	4.4	4.5	5.2	5.4	5.5	5.7	6.1
American Indian/Alaskan Native									
All fields	0.4	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.6
S&E	0.4	0.4	0.5	0.5	0.5	0.7	0.6	0.6	0.6
Sciences	0.5	0.5	0.6	0.6	0.6	0.7	0.6	0.6	0.7
Agricultural sciences	0.4	0.4	0.6	0.7	0.7	0.5	0.7	0.6	0.5
Biological sciences	0.4	0.3	0.4	0.4	0.5	0.5	0.6	0.5	0.5

TABLE E-4. Racial/ethnic distribution of S&E master's degrees awarded to U.S. citizens and permanent residents, by field: 1995–2004
(Percent)

Field and race/ethnicity	1995	1996	1997	1998	2000	2001	2002	2003	2004
Computer sciences	0.2	0.4	0.4	0.2	0.4	0.8	0.4	0.4	0.5
Earth, atmospheric, and ocean sciences	0.3	0.4	0.4	0.8	0.8	0.9	0.3	0.7	0.5
Atmospheric sciences	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Earth sciences	0.4	0.4	0.5	0.8	0.9	0.8	0.4	0.9	0.7
Ocean sciences	0.0	0.9	0.0	2.1	0.0	3.4	0.0	0.0	0.0
Mathematics and statistics	0.4	0.2	0.5	0.4	0.4	0.4	0.4	0.4	0.3
Physical sciences	0.5	0.2	0.4	0.5	0.4	0.4	0.6	0.5	0.3
Astronomy	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0
Chemistry	0.8	0.2	0.5	0.8	0.4	0.5	0.9	0.4	0.2
Physics	0.3	0.2	0.2	0.2	0.4	0.2	0.5	0.6	0.5
Other	0.0	0.0	0.5	0.0	0.5	0.0	0.0	0.4	0.0
Psychology	0.6	0.6	0.7	0.9	0.5	0.8	0.7	0.8	0.7
Social sciences	0.5	0.6	0.6	0.6	0.7	0.9	0.8	0.8	0.9
Anthropology	1.7	1.3	1.0	1.4	1.6	1.7	1.3	1.1	1.9
Area and ethnic studies	0.7	1.5	1.5	1.1	1.2	1.6	1.6	2.6	2.0
Economics	0.3	0.2	0.5	0.3	0.2	0.6	0.8	0.4	0.4
History of science	0.0	0.0	0.0	0.0	0.0	4.8	3.0	0.0	0.0
Linguistics	0.0	0.5	0.4	0.5	0.3	0.3	1.1	0.3	0.5
Political science and public administration	0.4	0.4	0.5	0.4	0.6	0.6	0.7	0.6	0.9
Sociology	0.9	1.2	1.0	1.2	1.6	1.6	1.0	1.0	0.9
Other	0.6	0.3	0.4	0.6	0.7	0.8	0.5	0.3	0.6
Engineering	0.2	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.5
Aerospace engineering	0.3	0.9	0.5	0.0	0.0	0.6	1.0	0.4	1.0
Chemical engineering	0.4	0.5	0.7	0.1	0.4	0.6	0.3	0.3	0.0
Civil engineering	0.3	0.2	0.3	0.4	0.5	0.4	0.4	0.5	0.6
Electrical engineering	0.2	0.3	0.2	0.2	0.3	0.3	0.3	0.4	0.2
Industrial engineering	0.3	0.1	0.3	0.3	0.4	0.8	0.4	0.4	0.8
Materials engineering	0.2	0.4	0.0	0.0	0.8	0.2	0.5	0.3	0.2
Mechanical engineering	0.2	0.4	0.4	0.5	0.3	0.3	0.3	0.4	0.8
Other	0.2	0.2	0.4	0.3	0.5	0.4	0.3	0.5	0.3
Non-S&E	0.4	0.5	0.5	0.5	0.5	0.5	0.6	0.6	0.6
Other or unknown race/ethnicity									
All fields	5.4	5.3	5.4	5.2	6.4	7.6	8.7	9.6	10.5
S&E	5.6	5.6	5.3	5.2	6.3	7.1	8.0	8.5	8.6
Sciences	5.5	5.5	5.2	5.2	6.4	7.2	8.1	8.5	8.8
Agricultural sciences	6.6	4.1	4.2	3.7	4.3	5.0	4.9	5.5	6.0
Biological sciences	4.2	4.3	4.0	4.8	5.1	5.3	5.8	5.9	6.2
Computer sciences	6.7	6.4	6.8	6.4	7.6	9.8	12.7	12.5	13.2
Earth, atmospheric, and ocean sciences	6.3	6.8	3.7	3.0	4.0	5.0	4.0	6.0	4.9
Atmospheric sciences	2.6	4.9	4.2	2.6	0.8	6.9	4.4	2.3	3.7
Earth sciences	3.9	4.5	3.5	3.1	4.5	4.7	3.6	6.5	5.1
Ocean sciences	32.1	29.2	4.2	3.2	2.9	6.8	7.5	5.4	4.2
Mathematics and statistics	5.1	6.3	5.1	6.1	6.5	6.6	6.7	6.2	8.2
Physical sciences	5.1	5.3	4.0	5.0	5.7	5.8	6.9	6.6	7.1
Astronomy	3.2	3.2	1.4	6.1	10.0	18.5	13.0	17.0	15.7
Chemistry	6.1	5.1	4.8	4.9	6.3	5.8	8.1	4.9	6.1
Physics	4.1	6.1	3.5	6.2	5.5	5.6	6.4	8.7	8.3
Other	4.7	3.4	1.4	1.5	1.8	3.8	1.5	4.1	2.4
Psychology	3.9	4.8	4.1	4.5	6.6	6.7	7.7	7.7	7.5
Social sciences	6.3	6.1	6.3	5.6	6.8	7.6	8.1	8.8	9.2
Anthropology	6.3	6.8	5.6	4.8	6.4	6.6	8.3	8.6	7.3

TABLE E-4. Racial/ethnic distribution of S&E master's degrees awarded to U.S. citizens and permanent residents, by field: 1995–2004
(Percent)

Field and race/ethnicity	1995	1996	1997	1998	2000	2001	2002	2003	2004
Area and ethnic studies	12.8	12.2	6.7	6.3	8.5	13.4	12.5	11.9	11.9
Economics	7.0	6.7	5.4	5.8	8.0	7.9	8.6	15.0	16.9
History of science	7.7	10.0	12.5	0.0	9.1	0.0	15.2	11.1	9.1
Linguistics	4.6	4.0	7.2	4.5	5.3	6.3	7.7	9.1	10.1
Political science and public administration	6.2	6.0	6.8	6.4	7.4	7.7	8.5	8.9	9.3
Sociology	2.9	3.3	3.1	3.0	2.2	3.3	3.1	3.7	3.7
Other	5.0	4.8	6.2	4.0	6.5	7.4	7.1	7.3	7.8
Engineering	5.9	5.8	5.4	5.1	5.9	6.7	7.8	8.5	7.8
Aerospace engineering	13.5	13.2	5.2	5.1	2.7	6.4	4.8	7.6	7.9
Chemical engineering	4.4	4.5	3.9	3.8	4.2	5.6	8.0	7.0	6.1
Civil engineering	4.4	4.4	4.3	4.0	4.6	5.4	6.1	7.0	6.6
Electrical engineering	6.5	6.4	6.0	5.9	6.8	8.1	10.6	9.9	8.6
Industrial engineering	7.0	6.1	8.3	7.5	9.2	8.2	7.8	8.5	9.0
Materials engineering	4.1	4.4	4.2	2.9	4.6	6.6	4.9	6.6	5.3
Mechanical engineering	5.4	5.9	4.2	4.3	5.4	5.3	6.8	6.9	6.8
Other	5.3	5.5	5.9	4.9	5.3	6.6	7.1	9.5	8.1
Non-S&E	5.3	5.2	5.4	5.2	6.5	7.7	8.8	9.8	10.9

NOTES: Race/ethnicity breakouts are for U.S. citizens and permanent residents only. Temporary resident includes all racial/ethnic groups. Data are not available for 1999.

SOURCE: National Science Foundation, Division of Science Resources Statistics, special tabulations of U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Completions Survey, 1995–2004.

TABLE E-5. Master's degrees awarded to women, by field, citizenship, and race/ethnicity: 1995–2004

Field, citizenship, and race/ethnicity	1995	1996	1997	1998	2000	2001	2002	2003	2004
All fields	220,230	228,572	239,497	246,810	265,026	273,639	283,035	300,845	328,202
S&E	35,791	37,453	38,262	38,583	41,470	43,393	43,472	46,414	51,420
Sciences	31,159	32,701	33,567	33,420	36,130	37,765	37,898	40,230	44,285
Agricultural sciences	1,471	1,707	1,695	1,709	1,819	1,837	1,997	1,908	2,128
Biological sciences	2,858	3,341	3,518	3,354	3,510	3,755	3,669	3,906	4,430
Computer sciences	2,786	2,850	2,979	3,414	4,868	5,508	5,499	6,091	6,195
Earth, atmospheric, and ocean sciences	451	436	487	494	513	564	572	612	701
Atmospheric sciences	51	35	42	52	37	40	46	55	67
Earth sciences	353	347	393	397	434	472	473	501	566
Ocean sciences	47	54	52	45	42	52	53	56	68
Mathematics and statistics	1,579	1,506	1,489	1,470	1,498	1,389	1,471	1,677	1,950
Physical sciences	1,283	1,450	1,333	1,440	1,215	1,301	1,326	1,324	1,513
Astronomy	31	27	32	30	25	36	27	42	53
Chemistry	885	998	927	998	823	825	852	829	950
Physics	291	301	255	255	244	286	286	313	413
Other	76	124	119	157	123	154	161	140	97
Psychology	9,397	9,373	9,918	9,540	10,293	10,858	10,672	11,100	11,950
Social sciences	11,334	12,038	12,148	11,999	12,414	12,553	12,692	13,612	15,418
Anthropology	668	631	712	686	587	689	642	655	721
Area and ethnic studies	818	856	845	842	879	896	879	888	961
Economics	894	1,002	953	944	952	973	1,050	1,161	1,252
History of science	4	4	7	7	6	10	17	10	14
Linguistics	416	393	418	389	407	380	360	380	410
Political science and public administration	6,124	6,654	6,691	6,566	6,720	6,841	6,978	7,689	8,761
Sociology	1,112	1,180	1,142	1,118	1,387	1,258	1,315	1,296	1,358
Other	1,298	1,318	1,380	1,447	1,476	1,506	1,451	1,533	1,941
Engineering	4,632	4,752	4,695	5,163	5,340	5,628	5,574	6,184	7,135
Aerospace engineering	99	92	75	81	76	90	125	107	149
Chemical engineering	306	306	332	344	344	352	335	343	417
Civil engineering	1,045	1,064	1,099	1,154	1,075	1,061	1,063	1,148	1,211
Electrical engineering	1,204	1,196	1,144	1,376	1,558	1,673	1,561	1,902	2,385
Industrial engineering	512	624	604	676	648	789	795	844	906
Materials engineering	184	175	174	170	201	173	171	183	199
Mechanical engineering	450	454	419	461	455	448	468	459	563
Other	832	841	848	901	983	1,042	1,056	1,198	1,305
Non-S&E	184,439	191,119	201,235	208,227	223,556	230,246	239,563	254,431	276,782
U.S. citizen/permanent resident									
All fields	202,633	210,372	220,221	226,085	242,244	248,590	256,938	272,030	298,321
S&E	30,119	31,300	31,983	31,669	33,169	34,334	34,383	35,977	40,105
Sciences	26,822	27,940	28,737	28,229	29,856	30,961	30,941	32,441	36,127
Agricultural sciences	1,239	1,447	1,448	1,466	1,601	1,611	1,751	1,661	1,813
Biological sciences	2,426	2,810	3,010	2,850	3,051	3,248	3,177	3,347	3,783
Computer sciences	1,807	1,853	1,867	2,020	2,546	2,774	2,871	3,124	3,461
Earth, atmospheric, and ocean sciences	367	374	421	443	456	495	497	544	603
Atmospheric sciences	25	20	32	37	22	28	33	38	50
Earth sciences	304	311	341	364	396	420	419	453	496
Ocean sciences	38	43	48	42	38	47	45	53	57
Mathematics and statistics	1,205	1,147	1,142	1,100	1,011	888	936	966	1,103
Physical sciences	835	964	894	972	832	893	913	944	1,021
Astronomy	26	23	28	27	20	28	21	33	38
Chemistry	558	631	602	646	551	559	567	593	635

TABLE E-5. Master's degrees awarded to women, by field, citizenship, and race/ethnicity: 1995–2004

Field, citizenship, and race/ethnicity	1995	1996	1997	1998	2000	2001	2002	2003	2004
Physics	179	195	158	151	151	163	173	181	260
Other	72	115	106	148	110	143	152	137	88
Psychology	9,069	9,070	9,641	9,193	9,947	10,521	10,325	10,585	11,488
Social sciences	9,874	10,275	10,314	10,185	10,412	10,531	10,471	11,270	12,855
Anthropology	625	573	658	634	530	628	582	615	652
Area and ethnic studies	719	779	731	734	736	756	728	738	812
Economics	532	518	486	454	439	434	458	497	557
History of science	4	4	7	6	4	7	16	8	11
Linguistics	283	284	312	293	273	272	244	255	282
Political science and public administration	5,496	5,812	5,817	5,687	5,837	5,925	5,975	6,606	7,558
Sociology	1,024	1,075	1,035	1,044	1,252	1,165	1,180	1,162	1,211
Other	1,191	1,230	1,268	1,333	1,341	1,344	1,288	1,389	1,772
Engineering	3,297	3,360	3,246	3,440	3,313	3,373	3,442	3,536	3,978
Aerospace engineering	79	72	60	58	51	60	78	67	114
Chemical engineering	171	202	200	219	201	208	192	190	219
Civil engineering	815	836	877	898	819	787	758	787	835
Electrical engineering	705	691	614	688	690	642	715	720	874
Industrial engineering	396	445	431	470	402	507	501	519	580
Materials engineering	126	118	113	110	130	105	110	106	115
Mechanical engineering	338	341	321	345	299	311	323	287	364
Other	667	655	630	652	721	753	765	860	877
Non-S&E	172,514	179,072	188,238	194,416	209,075	214,256	222,555	236,053	258,216
White									
All fields	160,782	165,154	170,411	173,498	179,311	179,684	182,078	188,555	201,469
S&E	22,680	23,175	23,213	22,717	22,749	22,792	22,558	23,124	25,366
Sciences	20,440	20,985	21,108	20,496	20,712	20,751	20,462	21,053	23,104
Agricultural sciences	1,017	1,238	1,211	1,251	1,350	1,328	1,453	1,352	1,482
Biological sciences	1,889	2,165	2,275	2,196	2,278	2,381	2,324	2,414	2,672
Computer sciences	1,033	1,015	965	1,027	1,162	1,163	1,255	1,308	1,396
Earth, atmospheric, and ocean sciences	314	331	378	391	410	422	439	473	521
Atmospheric sciences	25	19	25	27	20	23	27	33	43
Earth sciences	258	275	309	329	355	365	371	394	429
Ocean sciences	31	37	44	35	35	34	41	46	49
Mathematics and statistics	942	864	860	815	753	652	683	713	775
Physical sciences	609	707	623	694	597	645	628	673	738
Astronomy	21	19	25	25	17	22	16	23	24
Chemistry	396	439	391	431	367	375	366	396	442
Physics	133	150	112	117	117	126	114	134	196
Other	59	99	95	121	96	122	132	120	76
Psychology	7,405	7,181	7,557	7,049	7,240	7,343	7,019	7,097	7,670
Social sciences	7,231	7,484	7,239	7,073	6,922	6,817	6,661	7,023	7,850
Anthropology	507	471	553	523	413	493	438	472	491
Area and ethnic studies	499	535	508	507	490	451	424	387	481
Economics	379	379	332	318	289	314	324	285	324
History of science	2	4	5	6	4	7	10	4	7
Linguistics	216	224	232	217	210	194	188	186	205
Political science and public administration	3,941	4,144	3,893	3,745	3,702	3,620	3,588	3,939	4,411
Sociology	743	772	757	753	851	788	800	794	790
Other	944	955	959	1,004	963	950	889	956	1,141
Engineering	2,240	2,190	2,105	2,221	2,037	2,041	2,096	2,071	2,262
Aerospace engineering	55	52	42	46	39	39	59	58	83
Chemical engineering	117	136	123	131	127	113	107	113	125
Civil engineering	619	605	648	672	593	564	545	543	584
Electrical engineering	356	340	307	299	285	276	314	289	313

TABLE E-5. Master's degrees awarded to women, by field, citizenship, and race/ethnicity: 1995–2004

Field, citizenship, and race/ethnicity	1995	1996	1997	1998	2000	2001	2002	2003	2004
Industrial engineering	263	303	280	310	233	284	282	281	323
Materials engineering	96	85	74	75	89	75	74	72	69
Mechanical engineering	250	233	214	235	204	199	217	183	239
Other	484	436	417	453	467	491	498	532	526
Non-S&E	138,102	141,979	147,198	150,781	156,562	156,892	159,520	165,431	176,103
Asian/Pacific Islander									
All fields	7,521	8,404	9,327	10,298	11,307	11,802	12,292	13,251	14,639
S&E	2,115	2,428	2,575	2,678	3,045	3,033	3,001	3,299	3,731
Sciences	1,566	1,807	2,014	2,050	2,385	2,406	2,425	2,632	2,928
Agricultural sciences	53	61	72	40	58	63	84	59	67
Biological sciences	210	286	324	294	304	305	304	357	426
Computer sciences	460	473	530	629	860	860	812	877	939
Earth, atmospheric, and ocean sciences	14	13	15	18	10	12	16	15	20
Atmospheric sciences	0	1	2	6	2	1	4	1	2
Earth sciences	10	10	12	9	8	8	10	12	15
Ocean sciences	4	2	1	3	0	3	2	2	3
Mathematics and statistics	104	101	116	105	94	104	99	107	147
Physical sciences	87	123	125	110	98	94	98	100	84
Astronomy	2	2	0	1	2	2	2	2	4
Chemistry	65	103	106	93	79	77	71	79	57
Physics	20	16	17	11	12	10	17	13	22
Other	0	2	2	5	5	5	8	6	1
Psychology	213	244	279	289	365	372	411	418	446
Social sciences	425	506	553	565	596	596	601	699	799
Anthropology	19	18	15	23	28	29	28	25	33
Area and ethnic studies	43	51	56	54	53	62	56	74	61
Economics	60	53	69	49	67	40	51	71	71
History of science	0	0	0	0	0	0	2	2	3
Linguistics	32	29	27	33	31	34	21	26	27
Political science and public administration	195	275	278	309	304	327	328	373	443
Sociology	48	36	48	44	45	41	60	72	83
Other	28	44	60	53	68	63	55	56	78
Engineering	549	621	561	628	660	627	576	667	803
Aerospace engineering	9	7	7	4	7	8	6	3	11
Chemical engineering	23	28	28	42	34	46	38	32	50
Civil engineering	107	117	123	105	99	84	76	90	97
Electrical engineering	214	224	195	264	277	239	210	263	349
Industrial engineering	50	42	43	39	45	66	56	73	73
Materials engineering	19	18	20	21	21	17	16	21	24
Mechanical engineering	42	59	50	50	42	46	56	47	52
Other	85	126	95	103	135	121	118	138	147
Non-S&E	5,406	5,976	6,752	7,620	8,262	8,769	9,291	9,952	10,908
Black									
All fields	15,318	16,590	18,504	19,509	22,996	24,658	26,011	28,314	31,789
S&E	2,319	2,520	2,887	2,828	3,294	3,855	3,855	4,233	4,794
Sciences	2,118	2,310	2,662	2,584	3,087	3,609	3,590	3,952	4,510
Agricultural sciences	39	39	40	59	47	51	49	62	54
Biological sciences	113	122	167	122	150	221	200	186	269
Computer sciences	159	201	182	162	255	309	294	364	405
Earth, atmospheric, and ocean sciences	7	5	5	5	5	10	6	9	12
Atmospheric sciences	0	0	1	1	0	1	0	0	2

TABLE E-5. Master's degrees awarded to women, by field, citizenship, and race/ethnicity: 1995–2004

Field, citizenship, and race/ethnicity	1995	1996	1997	1998	2000	2001	2002	2003	2004
Earth sciences	7	4	4	4	4	8	6	9	8
Ocean sciences	0	1	0	0	1	1	0	0	2
Mathematics and statistics	82	71	79	77	52	48	64	49	52
Physical sciences	54	52	65	60	54	59	65	52	67
Astronomy	2	1	1	0	0	0	0	1	0
Chemistry	36	35	45	37	40	42	47	40	54
Physics	11	12	13	10	9	13	12	9	10
Other	5	4	6	13	5	4	6	2	3
Psychology	598	647	814	766	1,035	1,297	1,288	1,457	1,566
Social sciences	1,066	1,173	1,310	1,333	1,489	1,614	1,624	1,773	2,085
Anthropology	22	16	19	19	24	31	24	27	23
Area and ethnic studies	62	66	68	62	57	61	76	83	83
Economics	35	39	36	39	23	25	28	28	34
History of science	1	0	1	0	0	0	1	0	0
Linguistics	9	4	9	11	3	7	4	5	2
Political science and public administration	680	739	882	903	988	1,128	1,131	1,257	1,439
Sociology	142	171	154	142	234	193	188	173	203
Other	115	138	141	157	160	169	172	200	301
Engineering	201	210	225	244	207	246	265	281	284
Aerospace engineering	2	1	0	1	0	2	0	0	1
Chemical engineering	10	16	23	19	15	19	12	20	14
Civil engineering	34	42	40	45	34	41	38	43	29
Electrical engineering	52	48	47	53	40	49	50	45	58
Industrial engineering	37	43	39	48	41	50	64	71	66
Materials engineering	5	5	5	7	6	2	12	7	11
Mechanical engineering	20	17	21	28	19	26	17	19	19
Other	41	38	50	43	52	57	72	76	86
Non-S&E	12,999	14,070	15,617	16,681	19,702	20,803	22,156	24,081	26,995
Hispanic									
All fields	8,180	9,322	9,894	10,568	12,799	13,925	14,736	16,140	19,066
S&E	1,333	1,426	1,502	1,667	1,836	2,119	2,116	2,265	2,650
Sciences	1,200	1,258	1,326	1,489	1,635	1,898	1,864	2,039	2,340
Agricultural sciences	40	40	54	58	74	74	85	86	95
Biological sciences	92	109	104	95	146	168	141	157	173
Computer sciences	51	51	59	77	89	156	105	189	211
Earth, atmospheric, and ocean sciences	12	10	8	8	12	18	19	7	16
Atmospheric sciences	0	0	2	1	0	0	1	1	1
Earth sciences	12	9	5	6	10	15	17	4	15
Ocean sciences	0	1	1	1	2	3	1	2	0
Mathematics and statistics	22	33	17	39	41	32	30	41	49
Physical sciences	29	37	45	54	37	39	52	58	54
Astronomy	0	0	2	0	0	0	0	2	1
Chemistry	22	26	33	42	29	30	33	43	37
Physics	5	5	9	5	6	4	16	7	10
Other	2	6	1	7	2	5	3	6	6
Psychology	454	495	518	578	607	701	716	736	863
Social sciences	500	483	521	580	629	710	716	765	879
Anthropology	27	23	27	34	21	27	39	28	37
Area and ethnic studies	44	46	43	50	62	67	60	83	75
Economics	21	18	20	17	23	23	19	28	26
History of science	0	0	0	0	0	0	0	0	0
Linguistics	10	16	19	16	15	21	14	18	19
Political science and public administration	310	291	336	337	383	426	423	463	533

TABLE E-5. Master's degrees awarded to women, by field, citizenship, and race/ethnicity: 1995–2004

Field, citizenship, and race/ethnicity	1995	1996	1997	1998	2000	2001	2002	2003	2004
Sociology	51	49	42	60	69	84	84	74	83
Other	37	40	34	66	56	62	77	71	106
Engineering	133	168	176	178	201	221	252	226	310
Aerospace engineering	5	0	4	5	2	3	7	2	8
Chemical engineering	8	14	19	18	15	15	18	15	16
Civil engineering	32	46	36	42	59	51	58	51	61
Electrical engineering	27	30	25	28	34	25	46	35	75
Industrial engineering	20	34	32	42	46	68	70	57	78
Materials engineering	0	9	10	5	6	3	4	1	6
Mechanical engineering	13	14	20	15	12	20	11	17	24
Other	28	21	30	23	27	36	38	48	42
Non-S&E	6,847	7,896	8,392	8,901	10,963	11,806	12,620	13,875	16,416
American Indian/Alaskan Native									
All fields	919	1,028	1,147	1,212	1,321	1,446	1,502	1,648	1,841
S&E	150	154	174	190	190	255	219	229	306
Sciences	147	149	167	182	174	238	202	215	279
Agricultural sciences	3	8	8	8	5	7	7	11	10
Biological sciences	9	8	14	12	12	14	20	13	24
Computer sciences	5	7	9	3	10	29	13	20	22
Earth, atmospheric, and ocean sciences	4	1	3	5	2	7	3	5	5
Atmospheric sciences									
Earth sciences	4	1	3	3	2	5	3	5	5
Ocean sciences	0	0	0	2	0	2	0	0	0
Mathematics and statistics	6	1	6	6	4	3	1	4	3
Physical sciences	4	3	2	6	3	4	6	7	4
Astronomy	0	0	0	0	0	0	0	0	0
Chemistry	4	2	1	5	3	4	6	5	2
Physics	0	1	1	1	0	0	0	1	2
Other	0	0	0	0	0	0	0	1	0
Psychology	51	56	63	76	54	77	68	73	83
Social sciences	65	65	62	66	84	97	84	82	128
Anthropology	13	7	5	8	10	7	4	5	15
Area and ethnic studies	7	14	15	9	8	14	15	22	15
Economics	1	1	4	3	2	2	4	2	3
History of science	0	0	0	0	0	0	1	0	0
Linguistics	0	1	1	2	1	1	2	1	2
Political science and public administration	29	24	20	26	33	44	40	37	69
Sociology	9	15	10	12	23	18	12	10	13
Other	6	3	7	6	7	11	6	5	11
Engineering	3	5	7	8	16	17	17	14	27
Aerospace engineering	0	2	0	0	0	0	2	0	4
Chemical engineering	0	0	0	0	1	1	1	0	0
Civil engineering	1	0	1	2	4	2	6	3	4
Electrical engineering	0	1	0	2	1	3	3	3	3
Industrial engineering	1	0	2	1	3	5	1	1	6
Materials engineering	0	0	0	0	2	1	0	0	0
Mechanical engineering	1	1	0	2	0	2	2	3	5
Other	0	1	4	1	5	3	2	4	5
Non-S&E	769	874	973	1,022	1,131	1,191	1,283	1,419	1,535
Other or unknown race/ethnicity									
All fields	9,913	9,874	10,938	11,000	14,510	17,075	20,319	24,122	29,517
S&E	1,522	1,597	1,632	1,589	2,055	2,280	2,634	2,827	3,258

TABLE E-5. Master's degrees awarded to women, by field, citizenship, and race/ethnicity: 1995–2004

Field, citizenship, and race/ethnicity	1995	1996	1997	1998	2000	2001	2002	2003	2004
Sciences	1,351	1,431	1,460	1,428	1,863	2,059	2,398	2,550	2,966
Agricultural sciences	87	61	63	50	67	88	73	91	105
Biological sciences	113	120	126	131	161	159	188	220	219
Computer sciences	99	106	122	122	170	257	392	366	488
Earth, atmospheric, and ocean sciences	16	14	12	16	17	26	14	35	29
Atmospheric sciences	0	0	2	2	0	3	1	3	2
Earth sciences	13	12	8	13	17	19	12	29	24
Ocean sciences	3	2	2	1	0	4	1	3	3
Mathematics and statistics	49	77	64	58	67	49	59	52	77
Physical sciences	52	42	34	48	43	52	64	54	74
Astronomy	1	1	0	1	1	4	3	5	9
Chemistry	35	26	26	38	33	31	44	30	43
Physics	10	11	6	7	7	10	14	17	20
Other	6	4	2	2	2	7	3	2	2
Psychology	348	447	410	435	646	731	823	804	860
Social sciences	587	564	629	568	692	697	785	928	1,114
Anthropology	37	38	39	27	34	41	49	58	53
Area and ethnic studies	64	67	41	52	66	101	97	89	97
Economics	36	28	25	28	35	30	32	83	99
History of science	1	0	1	0	0	0	2	2	1
Linguistics	16	10	24	14	13	15	15	19	27
Political science and public administration	341	339	408	367	427	380	465	537	663
Sociology	31	32	24	33	30	41	36	39	39
Other	61	50	67	47	87	89	89	101	135
Engineering	171	166	172	161	192	221	236	277	292
Aerospace engineering	8	10	7	2	3	8	4	4	7
Chemical engineering	13	8	7	9	9	14	16	10	14
Civil engineering	22	26	29	32	30	45	35	57	60
Electrical engineering	56	48	40	42	53	50	92	85	76
Industrial engineering	25	23	35	30	34	34	28	36	34
Materials engineering	6	1	4	2	6	7	4	5	5
Mechanical engineering	12	17	16	15	22	18	20	18	25
Other	29	33	34	29	35	45	37	62	71
Non-S&E	8,391	8,277	9,306	9,411	12,455	14,795	17,685	21,295	26,259
Temporary resident									
All fields	17,597	18,200	19,276	20,725	22,782	25,049	26,097	28,815	29,881
S&E	5,672	6,153	6,279	6,914	8,301	9,059	9,089	10,437	11,315
Sciences	4,337	4,761	4,830	5,191	6,274	6,804	6,957	7,789	8,158
Agricultural sciences	232	260	247	243	218	226	246	247	315
Biological sciences	432	531	508	504	459	507	492	559	647
Computer sciences	979	997	1,112	1,394	2,322	2,734	2,628	2,967	2,734
Earth, atmospheric, and ocean sciences	84	62	66	51	57	69	75	68	98
Atmospheric sciences	26	15	10	15	15	12	13	17	17
Earth sciences	49	36	52	33	38	52	54	48	70
Ocean sciences	9	11	4	3	4	5	8	3	11
Mathematics and statistics	374	359	347	370	487	501	535	711	847
Physical sciences	448	486	439	468	383	408	413	380	492
Astronomy	5	4	4	3	5	8	6	9	15
Chemistry	327	367	325	352	272	266	285	236	315
Physics	112	106	97	104	93	123	113	132	153
Other	4	9	13	9	13	11	9	3	9
Psychology	328	303	277	347	346	337	347	515	462

TABLE E-5. Master's degrees awarded to women, by field, citizenship, and race/ethnicity: 1995–2004

Field, citizenship, and race/ethnicity	1995	1996	1997	1998	2000	2001	2002	2003	2004
Social sciences	1,460	1,763	1,834	1,814	2,002	2,022	2,221	2,342	2,563
Anthropology	43	58	54	52	57	61	60	40	69
Area and ethnic studies	99	77	114	108	143	140	151	150	149
Economics	362	484	467	490	513	539	592	664	695
History of science	0	0	0	1	2	3	1	2	3
Linguistics	133	109	106	96	134	108	116	125	128
Political science and public administration	628	842	874	879	883	916	1,003	1,083	1,203
Sociology	88	105	107	74	135	93	135	134	147
Other	107	88	112	114	135	162	163	144	169
Engineering	1,335	1,392	1,449	1,723	2,027	2,255	2,132	2,648	3,157
Aerospace engineering	20	20	15	23	25	30	47	40	35
Chemical engineering	135	104	132	125	143	144	143	153	198
Civil engineering	230	228	222	256	256	274	305	361	376
Electrical engineering	499	505	530	688	868	1,031	846	1,182	1,511
Industrial engineering	116	179	173	206	246	282	294	325	326
Materials engineering	58	57	61	60	71	68	61	77	84
Mechanical engineering	112	113	98	116	156	137	145	172	199
Other	165	186	218	249	262	289	291	338	428
Non-S&E	11,925	12,047	12,997	13,811	14,481	15,990	17,008	18,378	18,566

NOTES: Race/ethnicity breakouts are for U.S. citizens and permanent residents only. Temporary resident includes all racial/ethnic groups. Data are not available for 1999.

SOURCE: National Science Foundation, Division of Science Resources Statistics, special tabulations of U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Completions Survey, 1995–2004.

TABLE E-6. Master's degrees awarded to men, by field, citizenship, and race/ethnicity: 1995–2004

Field, citizenship, and race/ethnicity	1995	1996	1997	1998	2000	2001	2002	2003	2004
All fields	179,198	180,360	181,457	185,061	191,234	193,006	198,097	210,758	227,335
S&E	58,518	57,860	55,223	55,335	54,213	55,593	55,701	61,013	66,631
Sciences	34,520	34,851	34,044	34,360	33,817	34,698	35,009	37,493	39,894
Agricultural sciences	2,103	2,314	2,232	2,153	2,039	1,915	2,022	1,778	1,852
Biological sciences	2,637	2,945	3,076	3,014	2,815	2,732	2,665	2,800	3,126
Computer sciences	7,777	7,763	7,510	8,338	9,661	10,833	11,083	13,157	13,658
Earth, atmospheric, and ocean sciences	1,032	1,051	948	932	832	799	834	879	869
Atmospheric sciences	152	164	135	147	119	100	95	112	112
Earth sciences	789	799	752	708	670	649	678	702	682
Ocean sciences	91	88	61	77	43	50	61	65	75
Mathematics and statistics	2,353	2,236	2,110	2,055	1,797	1,891	1,937	2,029	2,347
Physical sciences	2,958	2,914	2,808	2,529	2,297	2,436	2,298	2,378	2,517
Astronomy	88	88	61	71	77	57	85	81	97
Chemistry	1,220	1,275	1,341	1,175	1,085	1,184	1,014	1,001	1,106
Physics	1,535	1,385	1,242	1,146	1,000	1,090	1,067	1,140	1,224
Other	115	166	164	137	135	105	132	156	90
Psychology	3,735	3,670	3,715	3,606	3,415	3,477	3,369	3,369	3,348
Social sciences	11,925	11,958	11,645	11,733	10,961	10,615	10,801	11,103	12,177
Anthropology	385	420	399	412	363	403	375	388	377
Area and ethnic studies	766	801	742	708	650	619	618	626	656
Economics	1,944	1,962	1,851	1,899	1,563	1,519	1,601	1,790	1,949
History of science	9	6	11	15	18	16	18	15	11
Linguistics	187	208	224	179	146	172	160	145	164
Political science and public administration	6,678	6,716	6,677	6,585	6,315	6,088	6,205	6,383	6,918
Sociology	678	642	610	656	649	643	642	633	673
Other	1,278	1,203	1,131	1,279	1,257	1,155	1,182	1,123	1,429
Engineering	23,998	23,009	21,179	20,975	20,396	20,895	20,692	23,520	26,737
Aerospace engineering	722	682	550	503	484	521	557	628	721
Chemical engineering	1,063	1,110	1,013	1,028	1,008	1,016	932	1,022	1,089
Civil engineering	4,123	3,938	3,781	3,582	3,065	2,952	2,884	3,042	3,234
Electrical engineering	7,539	6,960	6,197	6,595	6,781	6,957	6,718	8,173	9,788
Industrial engineering	2,361	2,403	2,331	2,433	2,400	2,612	2,593	3,005	3,338
Materials engineering	668	599	550	528	558	536	459	537	601
Mechanical engineering	3,918	3,555	3,337	3,090	2,923	3,024	3,051	3,380	3,992
Other	3,604	3,762	3,420	3,216	3,177	3,277	3,498	3,733	3,974
Non-S&E	120,680	122,500	126,234	129,726	137,021	137,413	142,396	149,745	160,704
U.S. citizen/permanent resident									
All fields	148,039	150,310	151,256	153,581	158,445	156,865	160,883	168,197	182,814
S&E	41,973	42,335	40,237	39,626	37,764	37,230	37,240	39,137	42,636
Sciences	26,339	26,930	26,245	26,089	25,164	25,081	25,219	26,343	28,362
Agricultural sciences	1,682	1,916	1,821	1,798	1,741	1,670	1,789	1,528	1,544
Biological sciences	2,184	2,485	2,661	2,618	2,524	2,366	2,352	2,395	2,672
Computer sciences	4,860	4,859	4,649	4,937	5,420	5,822	6,024	7,035	7,572
Earth, atmospheric, and ocean sciences	831	864	777	775	694	696	710	741	709
Atmospheric sciences	126	143	111	115	96	88	80	90	85
Earth sciences	634	651	618	608	566	567	582	593	562
Ocean sciences	71	70	48	52	32	41	48	58	62
Mathematics and statistics	1,611	1,565	1,464	1,399	1,173	1,162	1,178	1,227	1,409
Physical sciences	1,939	1,915	1,840	1,708	1,540	1,605	1,523	1,569	1,641
Astronomy	68	71	46	55	60	37	56	61	64
Chemistry	808	837	899	800	758	829	693	704	749

TABLE E-6. Master's degrees awarded to men, by field, citizenship, and race/ethnicity: 1995–2004

Field, citizenship, and race/ethnicity	1995	1996	1997	1998	2000	2001	2002	2003	2004
Physics	965	887	780	731	610	645	656	670	750
Other	98	120	115	122	112	94	118	134	78
Psychology	3,590	3,549	3,590	3,493	3,294	3,350	3,237	3,219	3,207
Social sciences	9,642	9,777	9,443	9,361	8,778	8,410	8,406	8,629	9,608
Anthropology	333	383	362	378	334	376	336	345	341
Area and ethnic studies	682	710	666	606	564	531	541	528	552
Economics	1,029	1,102	970	986	770	738	733	840	936
History of science	9	6	9	10	18	14	17	10	11
Linguistics	129	146	161	127	107	122	107	98	116
Political science and public administration	5,721	5,768	5,700	5,533	5,274	5,021	5,062	5,244	5,759
Sociology	590	572	545	578	593	579	586	582	621
Other	1,149	1,090	1,030	1,143	1,118	1,029	1,024	982	1,272
Engineering	15,634	15,405	13,992	13,537	12,600	12,149	12,021	12,794	14,274
Aerospace engineering	536	504	381	316	288	300	317	380	465
Chemical engineering	514	618	548	561	520	518	470	467	485
Civil engineering	2,897	2,828	2,787	2,649	2,229	1,993	1,835	1,899	1,947
Electrical engineering	4,670	4,303	3,651	3,764	3,541	3,317	3,321	3,683	4,402
Industrial engineering	1,478	1,599	1,441	1,534	1,470	1,485	1,457	1,565	1,688
Materials engineering	409	383	359	337	353	304	276	275	302
Mechanical engineering	2,601	2,465	2,281	2,078	1,913	1,911	1,891	1,952	2,266
Other	2,529	2,705	2,544	2,298	2,286	2,321	2,454	2,573	2,719
Non-S&E	106,066	107,975	111,019	113,955	120,681	119,635	123,643	129,060	140,178
White									
All fields	116,655	117,559	117,942	118,464	117,915	113,706	114,900	117,997	125,463
S&E	31,930	32,174	30,556	29,611	27,101	26,000	25,852	26,458	28,679
Sciences	20,339	20,788	20,169	19,747	18,118	17,575	17,544	17,803	19,184
Agricultural sciences	1,430	1,680	1,598	1,576	1,514	1,454	1,498	1,323	1,292
Biological sciences	1,753	1,966	2,120	2,016	1,901	1,743	1,761	1,778	1,887
Computer sciences	3,321	3,338	3,140	3,250	3,273	3,378	3,483	3,817	4,290
Earth, atmospheric, and ocean sciences	705	743	706	715	626	621	626	652	623
Atmospheric sciences	108	129	103	106	91	76	71	84	77
Earth sciences	561	578	564	560	506	511	519	520	492
Ocean sciences	36	36	39	49	29	34	36	48	54
Mathematics and statistics	1,280	1,219	1,145	1,080	902	863	872	910	1,020
Physical sciences	1,543	1,543	1,465	1,329	1,177	1,229	1,154	1,175	1,285
Astronomy	56	60	42	48	48	25	43	44	52
Chemistry	611	660	677	597	562	617	510	509	570
Physics	791	716	643	579	468	501	499	508	594
Other	85	107	103	105	99	86	102	114	69
Psychology	2,962	2,890	2,887	2,771	2,406	2,455	2,296	2,259	2,231
Social sciences	7,345	7,409	7,108	7,010	6,319	5,832	5,854	5,889	6,556
Anthropology	267	318	309	316	273	307	267	271	279
Area and ethnic studies	448	464	484	451	408	343	345	333	357
Economics	782	826	715	749	550	526	503	543	603
History of science	9	5	7	10	16	11	13	9	10
Linguistics	101	116	132	102	85	90	82	72	85
Political science and public administration	4,379	4,407	4,292	4,075	3,725	3,385	3,463	3,531	3,886
Sociology	422	388	373	412	403	390	383	383	412
Other	937	885	796	895	859	780	798	747	924
Engineering	11,591	11,386	10,387	9,864	8,983	8,425	8,308	8,655	9,495
Aerospace engineering	396	375	303	251	245	238	251	289	361
Chemical engineering	377	469	418	406	374	374	328	318	330
Civil engineering	2,294	2,244	2,194	2,105	1,744	1,566	1,386	1,452	1,505
Electrical engineering	3,117	2,825	2,430	2,411	2,189	1,968	1,994	2,144	2,499

TABLE E-6. Master's degrees awarded to men, by field, citizenship, and race/ethnicity: 1995–2004

Field, citizenship, and race/ethnicity	1995	1996	1997	1998	2000	2001	2002	2003	2004
Industrial engineering	1,079	1,176	1,080	1,096	1,005	1,006	979	1,021	1,038
Materials engineering	351	311	276	281	284	220	213	210	235
Mechanical engineering	1,987	1,886	1,753	1,580	1,426	1,359	1,367	1,435	1,601
Other	1,990	2,100	1,933	1,734	1,716	1,694	1,790	1,786	1,926
Non-S&E	84,725	85,385	87,386	88,853	90,814	87,706	89,048	91,539	96,784
Asian/Pacific Islander									
All fields	8,385	8,877	8,585	9,638	10,105	10,144	10,318	10,933	12,351
S&E	3,874	3,900	3,605	3,876	3,945	4,012	3,813	4,267	4,828
Sciences	1,851	1,900	1,847	2,053	2,226	2,225	2,188	2,490	2,629
Agricultural sciences	44	49	31	43	36	34	42	35	43
Biological sciences	216	242	251	297	291	235	233	272	330
Computer sciences	806	810	792	950	1,168	1,193	1,192	1,407	1,391
Earth, atmospheric, and ocean sciences	36	24	15	12	12	16	21	13	19
Atmospheric sciences	6	5	2	5	2	4	3	3	3
Earth sciences	27	18	7	6	9	9	15	6	13
Ocean sciences	3	1	6	1	1	3	3	4	3
Mathematics and statistics	124	119	122	111	86	101	115	114	128
Physical sciences	151	144	153	138	142	126	115	131	112
Astronomy	6	5	2	3	3	3	2	5	2
Chemistry	71	77	91	79	93	76	54	78	71
Physics	71	61	56	49	41	46	49	44	38
Other	3	1	4	7	5	1	10	4	1
Psychology	76	78	85	90	107	126	115	107	134
Social sciences	398	434	398	412	384	394	355	411	472
Anthropology	6	9	10	13	11	10	6	17	10
Area and ethnic studies	32	35	35	29	25	39	36	27	32
Economics	78	91	86	78	65	73	68	85	86
History of science	0	0	0	0	0	0	0	0	0
Linguistics	15	12	10	8	11	9	5	6	10
Political science and public administration	210	225	200	225	212	207	184	226	272
Sociology	26	29	21	28	21	29	26	23	23
Other	31	33	36	31	39	27	30	27	39
Engineering	2,023	2,000	1,758	1,823	1,719	1,787	1,625	1,777	2,199
Aerospace engineering	35	41	35	31	19	29	23	39	40
Chemical engineering	77	70	59	81	80	74	58	64	85
Civil engineering	262	264	263	224	184	136	128	151	157
Electrical engineering	903	872	716	818	784	787	709	786	1,072
Industrial engineering	171	154	110	141	147	146	134	202	211
Materials engineering	23	33	42	29	33	38	27	32	29
Mechanical engineering	302	269	243	228	223	312	259	215	295
Other	250	297	290	271	249	265	287	288	310
Non-S&E	4,511	4,977	4,980	5,762	6,160	6,132	6,505	6,666	7,523
Black									
All fields	7,636	7,998	8,444	9,107	10,309	10,401	10,513	11,268	12,586
S&E	1,891	1,900	1,983	2,066	2,198	2,262	2,278	2,550	2,639
Sciences	1,427	1,436	1,534	1,596	1,747	1,808	1,805	2,004	2,070
Agricultural sciences	35	49	56	36	37	45	39	36	39
Biological sciences	50	77	69	68	73	92	88	107	112
Computer sciences	214	234	229	262	325	345	365	517	497
Earth, atmospheric, and ocean sciences	8	6	7	10	2	11	12	9	10
Atmospheric sciences	2	0	1	1	0	3	2	2	1

TABLE E-6. Master's degrees awarded to men, by field, citizenship, and race/ethnicity: 1995–2004

Field, citizenship, and race/ethnicity	1995	1996	1997	1998	2000	2001	2002	2003	2004
Earth sciences	6	5	6	9	2	7	9	4	8
Ocean sciences	0	1	0	0	0	1	1	3	1
Mathematics and statistics	58	74	75	65	46	65	49	49	63
Physical sciences	78	53	67	71	63	71	56	61	53
Astronomy	2	0	1	0	0	0	2	0	1
Chemistry	41	30	39	42	25	40	27	36	33
Physics	30	20	26	24	35	28	25	23	17
Other	5	3	1	5	3	3	2	2	2
Psychology	204	223	245	254	311	301	343	344	357
Social sciences	780	720	786	830	890	878	853	881	939
Anthropology	16	12	10	7	9	6	8	6	8
Area and ethnic studies	39	32	41	42	34	25	32	39	44
Economics	60	57	60	55	48	41	48	39	36
History of science	0	0	0	0	0	1	1	0	0
Linguistics	3	3	3	1	1	7	1	2	1
Political science and public administration	496	459	504	550	597	626	586	597	605
Sociology	87	90	93	78	110	101	97	101	98
Other	79	67	75	97	91	71	80	97	147
Engineering	464	464	449	470	451	454	473	546	569
Aerospace engineering	11	9	9	6	7	8	14	8	10
Chemical engineering	18	17	12	24	19	15	19	23	17
Civil engineering	71	74	69	82	59	61	63	53	47
Electrical engineering	176	144	121	145	143	139	139	181	180
Industrial engineering	43	69	50	63	49	69	78	87	104
Materials engineering	7	4	13	6	9	7	7	7	10
Mechanical engineering	71	68	89	68	72	63	54	60	66
Other	67	79	86	76	93	92	99	127	135
Non-S&E	5,745	6,098	6,461	7,041	8,111	8,139	8,235	8,718	9,947
Hispanic									
All fields	5,725	6,072	6,466	6,848	8,004	8,238	8,429	9,117	10,432
S&E	1,612	1,664	1,718	1,795	1,910	1,958	1,973	2,106	2,412
Sciences	1,034	1,084	1,129	1,166	1,259	1,341	1,370	1,456	1,592
Agricultural sciences	56	55	51	58	59	49	90	41	67
Biological sciences	75	85	110	97	122	142	126	105	152
Computer sciences	159	137	152	142	199	284	228	366	391
Earth, atmospheric, and ocean sciences	22	17	15	12	18	10	16	21	20
Atmospheric sciences	6	1	1	1	2	0	0	1	1
Earth sciences	16	16	13	11	16	10	14	20	17
Ocean sciences	0	0	1	0	0	0	2	0	2
Mathematics and statistics	50	55	46	46	59	40	52	67	64
Physical sciences	66	63	71	75	59	80	84	86	73
Astronomy	2	4	0	0	2	1	2	0	2
Chemistry	29	20	39	42	27	44	39	47	33
Physics	32	34	27	30	28	33	40	34	34
Other	3	5	5	3	2	2	3	5	4
Psychology	168	172	200	209	230	236	237	221	222
Social sciences	438	500	484	527	513	500	537	549	603
Anthropology	18	12	10	14	16	18	20	20	21
Area and ethnic studies	44	56	48	46	45	46	61	56	42
Economics	32	46	51	46	44	30	38	51	54
History of science	0	0	1	0	0	1	0	1	0
Linguistics	7	7	5	11	3	6	5	5	7
Political science and public administration	263	302	298	314	318	310	320	337	370

TABLE E-6. Master's degrees awarded to men, by field, citizenship, and race/ethnicity: 1995–2004

Field, citizenship, and race/ethnicity	1995	1996	1997	1998	2000	2001	2002	2003	2004
Sociology	34	38	27	37	41	32	56	43	56
Other	40	39	44	59	46	57	37	36	53
Engineering	578	580	589	629	651	617	603	650	820
Aerospace engineering	17	10	16	11	11	8	12	12	13
Chemical engineering	22	29	32	28	24	25	27	24	24
Civil engineering	119	101	123	116	121	117	129	101	102
Electrical engineering	170	178	162	162	177	147	134	207	265
Industrial engineering	75	96	76	108	126	124	134	106	151
Materials engineering	11	12	12	10	9	19	12	5	10
Mechanical engineering	87	84	93	102	87	73	76	100	133
Other	77	70	75	92	96	104	79	95	122
Non-S&E	4,113	4,408	4,748	5,053	6,094	6,280	6,456	7,011	8,020
American Indian/Alaskan Native									
All fields	623	665	697	739	778	828	880	898	985
S&E	157	167	196	182	193	217	201	218	223
Sciences	117	116	150	136	145	174	161	162	165
Agricultural sciences	10	6	10	15	18	11	18	9	7
Biological sciences	11	9	11	9	14	15	14	17	9
Computer sciences	11	19	16	12	22	39	19	22	35
Earth, atmospheric, and ocean sciences	0	4	2	5	7	4	1	4	2
Atmospheric sciences	0	0	0	0	0	0	0	0	0
Earth sciences	0	3	2	5	7	3	1	4	2
Ocean sciences	0	1	0	0	0	1	0	0	0
Mathematics and statistics	5	4	8	3	5	6	7	4	4
Physical sciences	11	2	9	8	6	5	9	5	4
Astronomy	0	0	0	0	0	0	0	1	0
Chemistry	7	1	7	7	2	3	5	0	1
Physics	4	1	1	1	3	2	4	4	3
Other	0	0	1	0	1	0	0	0	0
Psychology	30	22	34	32	15	29	28	31	25
Social sciences	39	50	60	52	58	65	65	70	79
Anthropology	3	5	5	6	4	10	8	6	4
Area and ethnic studies	3	8	6	6	8	6	5	11	12
Economics	4	2	4	2	1	5	6	4	3
History of science	0	0	0	0	0	1	0	0	0
Linguistics	0	1	1	0	0	0	2	0	0
Political science and public administration	17	24	35	23	29	26	34	40	49
Sociology	5	5	6	7	7	10	5	7	4
Other	7	5	3	8	9	7	5	2	7
Engineering	40	51	46	46	48	43	40	56	58
Aerospace engineering	2	3	2	0	0	2	2	2	2
Chemical engineering	3	4	5	1	2	3	1	2	0
Civil engineering	9	9	9	12	10	8	5	10	12
Electrical engineering	10	14	8	7	13	7	10	15	7
Industrial engineering	4	3	4	6	5	10	7	7	13
Materials engineering	1	2	0	0	2	0	2	1	1
Mechanical engineering	6	10	10	11	7	5	4	6	16
Other	5	6	8	9	9	8	9	13	7
Non-S&E	466	498	501	557	585	611	679	680	762
Other or unknown race/ethnicity									
All fields	9,015	9,139	9,122	8,785	11,334	13,548	15,843	17,984	20,997
S&E	2,509	2,530	2,179	2,096	2,417	2,781	3,123	3,538	3,855

TABLE E-6. Master's degrees awarded to men, by field, citizenship, and race/ethnicity: 1995–2004

Field, citizenship, and race/ethnicity	1995	1996	1997	1998	2000	2001	2002	2003	2004
Sciences	1,571	1,606	1,416	1,391	1,669	1,958	2,151	2,428	2,722
Agricultural sciences	107	77	75	70	77	77	102	84	96
Biological sciences	79	106	100	131	123	139	130	116	182
Computer sciences	349	321	320	321	433	583	737	906	968
Earth, atmospheric, and ocean sciences	60	70	32	21	29	34	34	42	35
Atmospheric sciences	4	8	4	2	1	5	4	0	3
Earth sciences	24	31	26	17	26	27	24	39	30
Ocean sciences	32	31	2	2	2	2	6	3	2
Mathematics and statistics	94	94	68	94	75	87	83	83	130
Physical sciences	90	110	75	87	93	94	105	111	114
Astronomy	2	2	1	4	7	8	7	11	7
Chemistry	49	49	46	33	49	49	58	34	41
Physics	37	55	27	48	35	35	39	57	64
Other	2	4	1	2	2	2	1	9	2
Psychology	150	164	139	137	225	203	218	257	238
Social sciences	642	664	607	530	614	741	742	829	959
Anthropology	23	27	18	22	21	25	27	25	19
Area and ethnic studies	116	115	52	32	44	72	62	62	65
Economics	73	80	54	56	62	63	70	118	154
History of science	0	1	1	0	2	0	3	0	1
Linguistics	3	7	10	5	7	10	12	13	13
Political science and public administration	356	351	371	346	393	467	475	513	577
Sociology	16	22	25	16	11	17	19	25	28
Other	55	61	76	53	74	87	74	73	102
Engineering	938	924	763	705	748	823	972	1,110	1,133
Aerospace engineering	75	66	16	17	6	15	15	30	39
Chemical engineering	17	29	22	21	21	27	37	36	29
Civil engineering	142	136	129	110	111	105	124	132	124
Electrical engineering	294	270	214	221	235	269	335	350	379
Industrial engineering	106	101	121	120	138	130	125	142	171
Materials engineering	16	21	16	11	16	20	15	20	17
Mechanical engineering	148	148	93	89	98	99	131	136	155
Other	140	153	152	116	123	158	190	264	219
Non-S&E	6,506	6,609	6,943	6,689	8,917	10,767	12,720	14,446	17,142
Temporary resident									
All fields	31,159	30,050	30,201	31,480	32,789	36,141	37,214	42,561	44,521
S&E	16,545	15,525	14,986	15,709	16,449	18,363	18,461	21,876	23,995
Sciences	8,181	7,921	7,799	8,271	8,653	9,617	9,790	11,150	11,532
Agricultural sciences	421	398	411	355	298	245	233	250	308
Biological sciences	453	460	415	396	291	366	313	405	454
Computer sciences	2,917	2,904	2,861	3,401	4,241	5,011	5,059	6,122	6,086
Earth, atmospheric, and ocean sciences	201	187	171	157	138	103	124	138	160
Atmospheric sciences	26	21	24	32	23	12	15	22	27
Earth sciences	155	148	134	100	104	82	96	109	120
Ocean sciences	20	18	13	25	11	9	13	7	13
Mathematics and statistics	742	671	646	656	624	729	759	802	938
Physical sciences	1,019	999	968	821	757	831	775	809	876
Astronomy	20	17	15	16	17	20	29	20	33
Chemistry	412	438	442	375	327	355	321	297	357
Physics	570	498	462	415	390	445	411	470	474
Other	17	46	49	15	23	11	14	22	12
Psychology	145	121	125	113	121	127	132	150	141

TABLE E-6. Master's degrees awarded to men, by field, citizenship, and race/ethnicity: 1995–2004

Field, citizenship, and race/ethnicity	1995	1996	1997	1998	2000	2001	2002	2003	2004
Social sciences	2,283	2,181	2,202	2,372	2,183	2,205	2,395	2,474	2,569
Anthropology	52	37	37	34	29	27	39	43	36
Area and ethnic studies	84	91	76	102	86	88	77	98	104
Economics	915	860	881	913	793	781	868	950	1,013
History of science	0	0	2	5	0	2	1	5	0
Linguistics	58	62	63	52	39	50	53	47	48
Political science and public administration	957	948	977	1,052	1,041	1,067	1,143	1,139	1,159
Sociology	88	70	65	78	56	64	56	51	52
Other	129	113	101	136	139	126	158	141	157
Engineering	8,364	7,604	7,187	7,438	7,796	8,746	8,671	10,726	12,463
Aerospace engineering	186	178	169	187	196	221	240	248	256
Chemical engineering	549	492	465	467	488	498	462	555	604
Civil engineering	1,226	1,110	994	933	836	959	1,049	1,143	1,287
Electrical engineering	2,869	2,657	2,546	2,831	3,240	3,640	3,397	4,490	5,386
Industrial engineering	883	804	890	899	930	1,127	1,136	1,440	1,650
Materials engineering	259	216	191	191	205	232	183	262	299
Mechanical engineering	1,317	1,090	1,056	1,012	1,010	1,113	1,160	1,428	1,726
Other	1,075	1,057	876	918	891	956	1,044	1,160	1,255
Non-S&E	14,614	14,525	15,215	15,771	16,340	17,778	18,753	20,685	20,526

NOTES: Race/ethnicity breakouts are for U.S. citizens and permanent residents only. Temporary resident includes all racial/ethnic groups. Data are not available for 1999.

SOURCE: National Science Foundation, Division of Science Resources Statistics, special tabulations of U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Completions Survey, 1995–2004.

TABLE F-1. S&E doctoral degrees awarded, by field: 1997–2004

Field	1997	1998	1999	2000	2001	2002	2003	2004
All S&E	27,232	27,278	25,933	25,966	25,548	24,588	25,289	26,275
Science	21,117	21,354	20,603	20,645	20,043	19,512	20,011	20,499
Agricultural sciences	1,078	1,110	1,065	1,038	975	1,009	1,061	1,046
Biological sciences	5,789	5,845	5,582	5,854	5,691	5,690	5,697	5,937
Computer sciences	909	927	856	859	826	807	865	949
Earth, atmospheric, and ocean sciences	782	741	706	663	630	673	646	672
Atmospheric sciences	149	125	124	143	116	117	139	126
Earth sciences	489	504	452	386	393	428	374	420
Ocean sciences	144	112	130	134	121	128	133	126
Mathematics and statistics	1,123	1,177	1,083	1,050	1,007	918	994	1,075
Physical sciences	3,769	3,824	3,579	3,407	3,394	3,212	3,325	3,353
Astronomy	198	206	159	185	186	144	168	165
Chemistry	2,148	2,216	2,132	1,989	1,981	1,923	2,041	1,987
Physics	1,401	1,378	1,271	1,204	1,197	1,127	1,080	1,186
Other	22	24	17	29	30	18	36	15
Psychology	3,557	3,675	3,668	3,618	3,442	3,199	3,281	3,336
Social sciences	4,110	4,055	4,064	4,156	4,078	4,004	4,142	4,131
Anthropology	469	459	489	482	450	521	505	563
Area and ethnic studies	94	114	109	127	146	122	106	133
Economics	1,163	1,156	1,075	1,086	1,081	1,024	1,051	1,066
History of science	35	44	50	42	40	46	46	48
Linguistics	244	220	251	230	230	195	225	253
Political science and public administration	975	959	1,016	987	984	938	1,026	946
Sociology	601	579	572	637	577	565	612	598
Other	529	524	502	565	570	593	571	524
Engineering	6,115	5,924	5,330	5,321	5,505	5,076	5,278	5,776
Aerospace engineering	273	241	206	214	203	209	200	201
Chemical engineering	767	776	674	725	729	705	648	723
Civil engineering	655	650	584	556	594	626	674	675
Electrical engineering	1,720	1,596	1,478	1,544	1,576	1,395	1,466	1,649
Industrial engineering	246	229	211	176	206	230	213	217
Materials engineering	582	565	469	451	497	396	474	509
Mechanical engineering	1,022	1,022	855	864	953	827	814	853
Other	850	845	853	791	747	688	789	949

NOTE: Totals include those with unknown gender and will not equal the sum of female and male in tables F-2 and F-3.

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Earned Doctorates, 1997–2004.

TABLE F-2. S&E doctoral degrees awarded to women, by field: 1997–2004

Field	1997	1998	1999	2000	2001	2002	2003	2004	1997	2004
	Number								Percent	
All S&E	8,934	9,349	9,082	9,393	9,331	9,159	9,477	9,819	32.8	37.4
Science	8,184	8,575	8,294	8,556	8,402	8,271	8,581	8,805	38.8	43.0
Agricultural sciences	287	328	311	317	339	318	370	398	26.6	38.0
Biological sciences	2,495	2,536	2,394	2,622	2,549	2,545	2,599	2,747	43.1	46.3
Computer sciences	150	159	157	141	155	166	175	195	16.5	20.5
Earth, atmospheric, and ocean sciences	182	189	179	187	189	202	202	228	23.3	33.9
Atmospheric sciences	25	30	22	33	28	31	39	46	16.8	36.5
Earth sciences	119	127	112	108	115	121	104	132	24.3	31.4
Ocean sciences	38	32	45	46	46	50	59	50	26.4	39.7
Mathematics and statistics	263	297	277	259	276	265	263	305	23.4	28.4
Physical sciences	852	926	831	835	838	861	894	870	22.6	25.9
Astronomy	37	45	33	40	41	28	41	46	18.7	27.9
Chemistry	613	695	632	624	628	647	649	629	28.5	31.7
Physics	193	177	160	163	160	177	193	184	13.8	15.5
Other	9	9	6	8	9	9	11	11	40.9	73.3
Psychology	2,363	2,456	2,449	2,411	2,306	2,133	2,230	2,245	66.4	67.3
Social sciences	1,592	1,684	1,696	1,784	1,750	1,781	1,848	1,817	38.7	44.0
Anthropology	261	262	275	276	263	304	308	310	55.7	55.1
Area and ethnic studies	52	63	59	67	97	70	73	77	55.3	57.9
Economics	266	312	291	293	306	281	302	311	22.9	29.2
History of science	13	20	18	17	8	11	23	12	37.1	25.0
Linguistics	135	123	148	135	136	114	132	149	55.3	58.9
Political science and public administration	298	364	356	365	330	394	397	344	30.6	36.4
Sociology	334	317	342	376	337	345	361	351	55.6	58.7
Other	233	223	207	255	273	262	252	263	44.0	50.2
Engineering	750	774	788	837	929	888	896	1,014	12.3	17.6
Aerospace engineering	16	15	17	21	28	24	27	24	5.9	11.9
Chemical engineering	122	140	123	151	180	176	154	173	15.9	23.9
Civil engineering	80	100	89	88	111	120	125	132	12.2	19.6
Electrical engineering	150	156	155	195	203	163	179	222	8.7	13.5
Industrial engineering	40	40	42	35	45	67	53	42	16.3	19.4
Materials engineering	106	84	88	83	105	80	101	90	18.2	17.7
Mechanical engineering	88	93	96	96	91	96	84	95	8.6	11.1
Other	148	146	178	168	166	162	173	236	17.4	24.9

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Earned Doctorates, 1997–2004.

TABLE F-3. S&E doctoral degrees awarded to men, by field: 1997–2004

Field	1997	1998	1999	2000	2001	2002	2003	2004
All S&E	18,083	17,810	16,735	16,521	16,174	15,374	15,728	16,405
Science	12,767	12,699	12,231	12,062	11,607	11,203	11,375	11,655
Agricultural sciences	783	781	749	719	629	683	685	644
Biological sciences	3,262	3,294	3,171	3,226	3,133	3,143	3,085	3,181
Computer sciences	743	765	692	716	669	638	690	749
Earth, atmospheric, and ocean sciences	595	549	524	473	440	471	443	444
Atmospheric sciences	124	93	101	108	87	86	100	80
Earth sciences	366	376	338	277	278	307	269	288
Ocean sciences	105	80	85	88	75	78	74	76
Mathematics and statistics	851	872	803	790	731	650	729	770
Physical sciences	2,893	2,879	2,733	2,567	2,551	2,346	2,420	2,476
Astronomy	161	161	126	145	145	116	127	119
Chemistry	1,523	1,509	1,493	1,361	1,349	1,275	1,386	1,352
Physics	1,196	1,195	1,103	1,040	1,036	946	882	1,001
Other	13	14	11	21	21	9	25	4
Psychology	1,162	1,206	1,209	1,204	1,132	1,061	1,042	1,086
Social sciences	2,478	2,353	2,350	2,367	2,322	2,211	2,281	2,305
Anthropology	203	194	214	206	187	217	197	253
Area and ethnic studies	42	51	48	60	49	52	33	55
Economics	876	840	781	791	773	736	744	752
History of science	21	24	32	25	32	35	23	36
Linguistics	107	96	99	95	94	80	92	104
Political science and public administration	674	594	655	620	650	541	625	600
Sociology	265	260	228	260	240	220	251	244
Other	290	294	293	310	297	330	316	261
Engineering	5,316	5,111	4,504	4,459	4,567	4,171	4,353	4,750
Aerospace engineering	254	225	188	191	174	184	172	177
Chemical engineering	641	630	550	571	547	527	492	549
Civil engineering	571	544	495	466	482	504	545	541
Electrical engineering	1,560	1,429	1,310	1,339	1,372	1,224	1,279	1,421
Industrial engineering	205	188	169	140	160	162	156	174
Materials engineering	470	477	376	367	392	315	373	419
Mechanical engineering	928	922	751	767	860	729	726	758
Other	687	696	665	618	580	526	610	711

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Earned Doctorates, 1997–2004.

TABLE F-4. Top baccalaureate institutions of S&E doctorate recipients, by sex: 2000–2004

Academic institution	Doctorates	Academic institution	Doctorates
Female, all institutions	47,179	Male, all institutions	80,202
Foreign	10,760	Foreign	28,661
Unknown	4,193	Unknown	7,761
Top 51 U.S.	11,638	Top 51 U.S.	17,581
University of California-Berkeley	529	University of California-Berkeley	923
Cornell University all campuses	469	Cornell University all campuses	704
University of Michigan at Ann Arbor	445	University of Illinois at Urbana-Champaign	658
University of California-Los Angeles	382	Massachusetts Institute of Technology	612
University of California-San Diego	331	Pennsylvania State University main campus	576
Harvard University	313	Harvard University	557
Massachusetts Institute of Technology	310	University of Michigan at Ann Arbor	556
University of Illinois at Urbana-Champaign	307	Brigham Young University main campus	553
University of Wisconsin-Madison	302	University of Texas at Austin	474
University of California-Davis	301	University of Wisconsin-Madison	466
University of Texas at Austin	300	University of California-Los Angeles	453
Pennsylvania State University main campus	285	University of California-Davis	417
Stanford University	275	Texas A&M University main campus	395
University of Florida	245	Virginia Polytechnic Institute and State University	389
University of Maryland at College Park	239	University of California-San Diego	384
Brown University	235	Purdue University main campus	382
University of Pennsylvania	232	Stanford University	368
Rutgers the State University of New Jersey New Brunswick	231	University of Florida	364
Texas A&M University main campus	231	Princeton University	334
Michigan State University	227	University of Minnesota-Twin Cities	327
Princeton University	220	Rutgers the State University of New Jersey New Brunswick	323
Yale University	220	University of Virginia main campus	315
University of Virginia main campus	214	University of Washington-Seattle	309
Duke University	213	Michigan State University	304
University of Washington-Seattle	213	University of Maryland at College Park	304
University of North Carolina at Chapel Hill	212	Yale University	294
Wellesley College	201	Ohio State University main campus	293
University of Colorado at Boulder	197	University of Colorado at Boulder	291
University of California-Santa Cruz	195	Georgia Institute of Technology main campus	275
University of California-Irvine	191	University of Arizona	272
University of California-Santa Barbara	190	California Institute of Technology	268
University of Arizona	188	Brown University	262
University of Minnesota-Twin Cities	187	Duke University	260
Boston University	186	North Carolina State University at Raleigh	257
Purdue University main campus	176	University of California-Santa Cruz	251
Ohio State University main campus	173	University of Chicago	249
Smith College	173	University of Pennsylvania	246
Indiana University at Bloomington	171	Rensselaer Polytechnic Institute	233
Virginia Polytechnic Institute and State University	171	Carnegie Mellon University	230
University of Chicago	170	Iowa State University	227
College of William and Mary	167	Johns Hopkins University	223
Northwestern University	166	University of California-Santa Barbara	223
University of Massachusetts at Amherst	159	Northwestern University	214
Bryn Mawr College	140	University of North Carolina at Chapel Hill	214
New York University	138	University of California-Irvine	205
Wesleyan University	138	University of Notre Dame	196
SUNY at Binghamton	137	SUNY at Buffalo	194
University of Puerto Rico Rio Piedras Campus	137	University of Rochester	191
Washington University	136	Boston University	190
Dartmouth College	135	Rice University	188
Florida State University	135	University of Utah	188
Other U.S.	20,588	Other U.S.	26,199

NOTE: Institutions with the same number of doctorate recipients are listed alphabetically.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Earned Doctorates, 2000–2004.

TABLE F-5. Field distribution of doctorate recipients, by race/ethnicity and citizenship: 2004

Race/ethnicity and citizenship	All fields	All S&E	Science	Agricultural sciences	Biological sciences	Computer sciences	Earth, atmospheric, and ocean sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Engineering	Non-S&E
	Number												
All doctorate recipients	42,155	26,275	20,499	1,046	5,937	949	672	1,075	3,353	3,336	4,131	5,776	15,880
U.S. citizen	26,431	14,722	12,781	527	3,955	398	405	455	1,748	2,725	2,568	1,941	11,709
Permanent resident	1,528	999	758	36	232	50	21	55	118	64	182	241	529
Temporary resident	11,585	9,122	5,820	413	1,462	459	221	526	1,347	188	1,204	3,302	2,463
Unknown citizenship	2,611	1,432	1,140	70	288	42	25	39	140	359	177	292	1,179
White	24,578	14,453	12,303	553	3,536	458	446	585	1,888	2,308	2,529	2,150	10,125
U.S. citizen	20,745	11,619	10,162	452	3,100	309	354	375	1,420	2,110	2,042	1,457	9,126
Permanent resident	650	399	314	13	84	12	13	23	59	31	79	85	251
Temporary resident	3,028	2,326	1,725	88	335	136	78	186	406	89	407	601	702
Unknown citizenship	155	109	102	0	17	1	1	1	3	78	1	7	46
Asian ^a	9,039	7,158	4,386	225	1,446	340	113	326	990	232	714	2,772	1,881
U.S. citizen	1,449	1,066	837	13	379	42	6	29	125	135	108	229	383
Permanent resident	605	425	300	18	109	30	5	25	37	18	58	125	180
Temporary resident	6,941	5,636	3,232	194	955	267	101	272	823	74	546	2,404	1,305
Unknown citizenship	44	31	17	0	3	1	1	0	5	5	2	14	13
Black	2,376	961	832	53	179	21	13	22	85	216	243	129	1,415
U.S. citizen	1,869	685	601	18	136	15	6	8	48	202	168	84	1,184
Permanent resident	102	61	51	2	12	2	1	2	11	2	19	10	41
Temporary resident	355	200	170	33	30	4	6	12	22	8	55	30	155
Unknown citizenship	50	15	10	0	1	0	0	0	4	4	1	5	35
Hispanic	2,019	1,276	1,043	82	274	40	39	61	102	179	266	233	743
U.S. citizen	1,177	642	569	15	174	12	10	21	56	162	119	73	535
Permanent resident	120	73	58	1	17	1	1	5	6	8	19	15	47
Temporary resident	708	557	413	66	82	27	27	35	40	8	128	144	151
Unknown citizenship	14	4	3	0	1	0	1	0	0	1	0	1	10
American Indian/Alaska Native	135	62	56	4	14	2	4	0	5	13	14	6	73
U.S. citizen	129	60	55	4	14	2	4	0	5	13	13	5	69
Permanent resident	2	1	0	0	0	0	0	0	0	0	0	1	1
Temporary resident	4	1	1	0	0	0	0	0	0	0	1	0	3
Unknown citizenship	0	0	0	0	0	0	0	0	0	0	0	0	0
Other/unknown race/ethnicity ^b	4,008	2,365	1,879	129	488	88	57	81	283	388	365	486	1,643
U.S. citizen	1,062	650	557	25	152	18	25	22	94	103	118	93	412
Permanent resident	49	40	35	2	10	5	1	0	5	5	7	5	9
Temporary resident	549	402	279	32	60	25	9	21	56	9	67	123	147
Unknown citizenship	2,348	1,273	1,008	70	266	40	22	38	128	271	173	265	1,075
Percent distribution													
All doctorate recipients	100.0	62.3	48.6	2.5	14.1	2.3	1.6	2.6	8.0	7.9	9.8	13.7	37.7
U.S. citizen	100.0	55.7	48.4	2.0	15.0	1.5	1.5	1.7	6.6	10.3	9.7	7.3	44.3

TABLE F-5. Field distribution of doctorate recipients, by race/ethnicity and citizenship: 2004

Race/ethnicity and citizenship	All fields	All S&E	Science	Agricultural sciences	Biological sciences	Computer sciences	Earth, atmospheric, and ocean sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Engineering	Non-S&E
Permanent resident	100.0	65.4	49.6	2.4	15.2	3.3	1.4	3.6	7.7	4.2	11.9	15.8	34.6
Temporary resident	100.0	78.7	50.2	3.6	12.6	4.0	1.9	4.5	11.6	1.6	10.4	28.5	21.3
Unknown citizenship	100.0	54.8	43.7	2.7	11.0	1.6	1.0	1.5	5.4	13.7	6.8	11.2	45.2
White	100.0	58.8	50.1	2.2	14.4	1.9	1.8	2.4	7.7	9.4	10.3	8.7	41.2
U.S. citizen	100.0	56.0	49.0	2.2	14.9	1.5	1.7	1.8	6.8	10.2	9.8	7.0	44.0
Permanent resident	100.0	61.4	48.3	2.0	12.9	1.8	2.0	3.5	9.1	4.8	12.2	13.1	38.6
Temporary resident	100.0	76.8	57.0	2.9	11.1	4.5	2.6	6.1	13.4	2.9	13.4	19.8	23.2
Unknown citizenship	100.0	70.3	65.8	0.0	11.0	0.6	0.6	0.6	1.9	50.3	0.6	4.5	29.7
Asian ^a	100.0	79.2	48.5	2.5	16.0	3.8	1.3	3.6	11.0	2.6	7.9	30.7	20.8
U.S. citizen	100.0	73.6	57.8	0.9	26.2	2.9	0.4	2.0	8.6	9.3	7.5	15.8	26.4
Permanent resident	100.0	70.2	49.6	3.0	18.0	5.0	0.8	4.1	6.1	3.0	9.6	20.7	29.8
Temporary resident	100.0	81.2	46.6	2.8	13.8	3.8	1.5	3.9	11.9	1.1	7.9	34.6	18.8
Unknown citizenship	100.0	70.5	38.6	0.0	6.8	2.3	2.3	0.0	11.4	11.4	4.5	31.8	29.5
Black	100.0	40.4	35.0	2.2	7.5	0.9	0.5	0.9	3.6	9.1	10.2	5.4	59.6
U.S. citizen	100.0	36.7	32.2	1.0	7.3	0.8	0.3	0.4	2.6	10.8	9.0	4.5	63.3
Permanent resident	100.0	59.8	50.0	2.0	11.8	2.0	1.0	2.0	10.8	2.0	18.6	9.8	40.2
Temporary resident	100.0	56.3	47.9	9.3	8.5	1.1	1.7	3.4	6.2	2.3	15.5	8.5	43.7
Unknown citizenship	100.0	30.0	20.0	0.0	2.0	0.0	0.0	0.0	8.0	8.0	2.0	10.0	70.0
Hispanic	100.0	63.2	51.7	4.1	13.6	2.0	1.9	3.0	5.1	8.9	13.2	11.5	36.8
U.S. citizen	100.0	54.5	48.3	1.3	14.8	1.0	0.8	1.8	4.8	13.8	10.1	6.2	45.5
Permanent resident	100.0	60.8	48.3	0.8	14.2	0.8	0.8	4.2	5.0	6.7	15.8	12.5	39.2
Temporary resident	100.0	78.7	58.3	9.3	11.6	3.8	3.8	4.9	5.6	1.1	18.1	20.3	21.3
Unknown citizenship	100.0	28.6	21.4	0.0	7.1	0.0	7.1	0.0	0.0	7.1	0.0	7.1	71.4
American Indian/Alaska Native	100.0	45.9	41.5	3.0	10.4	1.5	3.0	0.0	3.7	9.6	10.4	4.4	54.1
U.S. citizen	100.0	46.5	42.6	3.1	10.9	1.6	3.1	0.0	3.9	10.1	10.1	3.9	53.5
Permanent resident	100.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50.0	50.0
Temporary resident	100.0	25.0	25.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25.0	0.0	75.0
Unknown citizenship	na	na	na	na	na	na	na	na	na	na	na	na	na
Other/unknown race/ethnicity ^b	100.0	59.0	46.9	3.2	12.2	2.2	1.4	2.0	7.1	9.7	9.1	12.1	41.0
U.S. citizen	100.0	61.2	52.4	2.4	14.3	1.7	2.4	2.1	8.9	9.7	11.1	8.8	38.8
Permanent resident	100.0	81.6	71.4	4.1	20.4	10.2	2.0	0.0	10.2	10.2	14.3	10.2	18.4
Temporary resident	100.0	73.2	50.8	5.8	10.9	4.6	1.6	3.8	10.2	1.6	12.2	22.4	26.8
Unknown citizenship	100.0	54.2	42.9	3.0	11.3	1.7	0.9	1.6	5.5	11.5	7.4	11.3	45.8

na = not applicable; no nonzero values in this cell.

^a Excludes Native Hawaiian/other Pacific Islander per revised Office of Management and Budget guidelines.^b This category was expanded to include Native Hawaiian/other Pacific Islander and respondents choosing multiple races (excluding those selecting Hispanic ethnicity).

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Earned Doctorates, 2004.

TABLE F-6. S&E doctorates awarded to U.S. citizens and permanent residents, by field and race/ethnicity: 1997–2004

Field and race/ethnicity	1997	1998	1999	2000	2001	2002	2003	2004
All S&E	18,393	18,257	17,567	17,114	16,346	15,512	15,715	15,721
White	13,828	14,004	13,719	13,443	12,760	11,913	12,024	12,018
Asian ^a	2,529	2,135	1,932	1,706	1,617	1,616	1,511	1,491
Black	615	644	715	710	703	685	664	746
Hispanic	658	754	722	729	674	724	741	715
American Indian/Alaska Native	79	96	114	88	73	70	73	61
Other/unknown race/ethnicity ^b	684	624	365	438	519	504	702	690
Science	15,061	15,213	14,678	14,543	13,900	13,348	13,545	13,539
White	11,540	11,834	11,609	11,554	11,008	10,436	10,464	10,476
Asian ^a	1,822	1,581	1,420	1,267	1,195	1,208	1,171	1,137
Black	517	563	617	629	611	600	587	652
Hispanic	562	644	639	647	583	627	638	627
American Indian/Alaska Native	62	83	102	80	67	63	61	55
Other/unknown race/ethnicity ^b	558	508	291	366	436	414	624	592
Agricultural sciences	619	591	561	559	504	491	561	563
White	465	454	456	452	430	416	465	465
Asian ^a	73	54	50	36	23	29	25	31
Black	26	22	27	22	14	13	22	20
Hispanic	27	35	16	29	26	21	25	16
American Indian/Alaska Native	5	9	1	5	0	2	4	4
Other/unknown race/ethnicity ^b	23	17	11	15	11	10	20	27
Biological sciences	4,256	4,308	4,124	4,268	4,243	4,112	4,056	4,187
White	3,158	3,246	3,128	3,308	3,255	3,118	3,059	3,184
Asian ^a	721	657	608	539	546	561	526	488
Black	112	111	116	118	139	124	108	148
Hispanic	146	168	175	173	165	182	176	191
American Indian/Alaska Native	7	12	20	17	15	12	11	14
Other/unknown race/ethnicity ^b	112	114	77	113	123	115	176	162
Computer sciences	520	561	493	457	423	419	443	448
White	361	412	356	336	322	290	307	321
Asian ^a	107	90	87	76	61	86	80	72
Black	4	14	19	18	15	17	17	17
Hispanic	16	15	14	14	8	14	10	13
American Indian/Alaska Native	1	4	1	1	1	2	2	2
Other/unknown race/ethnicity ^b	31	26	16	12	16	10	27	23
Earth, atmospheric, ocean sciences	538	514	459	453	395	424	429	426
White	434	427	376	393	338	365	361	367
Asian ^a	60	44	35	22	27	24	21	11
Black	6	5	11	3	5	5	11	7
Hispanic	15	16	20	15	9	14	15	11
American Indian/Alaska Native	2	3	6	4	0	0	2	4
Other/unknown race/ethnicity ^b	21	19	11	16	16	19	26	
Atmospheric sciences	102	85	77	86	61	68	78	71
White	80	69	63	73	51	59	65	62
Asian ^a	18	9	9	6	5	5	7	5
Black	0	2	2	1	0	1	3	1
Hispanic	1	1	3	2	1	2	0	0
American Indian/Alaska Native	0	0	0	0	0	0	0	1
Other/unknown race/ethnicity ^b	3	4	0	4	4	1	3	2
Earth sciences	349	348	295	270	259	266	256	271
White	286	291	242	234	223	234	222	225
Asian ^a	34	29	20	13	18	11	10	6
Black	5	3	6	1	2	3	4	5
Hispanic	10	9	11	8	7	6	4	10
American Indian/Alaska Native	0	3	6	4	0	0	1	3
Other/unknown race/ethnicity ^b	14	13	10	10	9	12	15	22

TABLE F-6. S&E doctorates awarded to U.S. citizens and permanent residents, by field and race/ethnicity: 1997–2004

Field and race/ethnicity	1997	1998	1999	2000	2001	2002	2003	2004
Ocean sciences	87	81	87	97	75	90	95	84
White	68	67	71	86	64	72	74	80
Asian ^a	8	6	6	3	4	8	4	0
Black	1	0	3	1	3	1	4	1
Hispanic	4	6	6	5	1	6	11	1
American Indian/Alaska Native	2	0	0	0	0	0	1	0
Other/unknown race/ethnicity ^b	4	2	1	2	3	3	1	2
Mathematics and statistics	629	669	605	574	524	442	517	510
White	479	526	506	464	428	369	408	398
Asian ^a	97	71	56	70	48	28	51	54
Black	7	16	12	14	19	14	16	10
Hispanic	20	27	15	15	15	12	16	26
American Indian/Alaska Native	1	3	1	2	2	3	2	0
Other/unknown race/ethnicity ^b	25	26	15	9	12	16	24	22
Physical sciences	2,497	2,455	2,277	2,092	2,045	1,940	1,970	1,866
White	1,884	1,916	1,840	1,691	1,649	1,548	1,554	1,479
Asian ^a	400	331	252	203	197	194	183	162
Black	51	56	66	62	55	67	57	59
Hispanic	69	54	63	78	65	64	72	62
American Indian/Alaska Native	10	9	9	9	12	7	2	5
Other/unknown race/ethnicity ^b	83	89	47	49	67	60	102	99
Astronomy	158	147	117	139	123	109	131	115
White	132	120	109	115	103	87	105	93
Asian ^a	8	13	3	13	6	13	8	8
Black	2	1	2	1	1	1	1	0
Hispanic	3	2	1	3	7	4	3	6
American Indian/Alaska Native	1	1	1	1	1	0	0	0
Other/unknown race/ethnicity ^b	12	10	1	6	5	4	14	8
Chemistry	1,439	1,467	1,406	1,241	1,230	1,230	1,265	1,180
White	1,078	1,129	1,090	988	974	988	1,002	921
Asian ^a	234	206	183	121	123	122	112	110
Black	35	45	56	44	42	44	42	46
Hispanic	44	34	46	51	43	38	45	43
American Indian/Alaska Native	6	7	5	7	11	5	2	4
Other/unknown race/ethnicity ^b	42	46	26	30	37	33	62	56
Physics	883	823	742	692	677	589	552	559
White	659	651	630	571	557	461	429	453
Asian ^a	157	111	66	68	68	59	62	44
Black	14	10	8	16	12	22	12	13
Hispanic	22	18	16	23	15	22	24	13
American Indian/Alaska Native	2	1	3	1	0	2	0	1
Other/unknown race/ethnicity ^b	29	32	19	13	25	23	25	35
Other	17	18	12	20	15	12	22	12
White	15	16	11	17	15	12	18	12
Asian ^a	1	1	0	1	0	0	1	0
Black	0	0	0	1	0	0	2	0
Hispanic	0	0	0	1	0	0	0	0
American Indian/Alaska Native	1	0	0	0	0	0	0	0
Other/unknown race/ethnicity ^b	0	1	1	0	0	0	1	0
Psychology	3,125	3,275	3,292	3,231	3,033	2,795	2,857	2,789
White	2,523	2,646	2,701	2,607	2,454	2,229	2,263	2,141
Asian ^a	126	113	132	145	116	119	118	153
Black	152	158	172	189	174	171	169	204
Hispanic	171	208	215	211	175	185	170	170
American Indian/Alaska Native	18	31	35	22	17	15	22	13
Other/unknown race/ethnicity ^b	135	119	37	57	97	76	115	108

TABLE F-6. S&E doctorates awarded to U.S. citizens and permanent residents, by field and race/ethnicity: 1997–2004

Field and race/ethnicity	1997	1998	1999	2000	2001	2002	2003	2004
Social sciences	2,877	2,840	2,867	2,909	2,733	2,725	2,712	2,750
White	2,236	2,207	2,246	2,303	2,132	2,101	2,047	2,121
Asian ^a	238	221	200	176	177	167	167	166
Black	159	181	194	203	190	189	187	187
Hispanic	98	121	121	112	120	135	154	138
American Indian/Alaska Native	18	12	29	20	20	22	16	13
Other/unknown race/ethnicity ^b	128	98	77	95	94	111	141	125
Anthropology	376	380	401	411	369	430	422	469
White	299	298	330	337	290	333	310	362
Asian ^a	14	18	19	19	19	14	18	23
Black	12	10	15	21	13	24	24	17
Hispanic	16	21	12	13	20	25	34	37
American Indian/Alaska Native	3	5	8	5	8	7	2	2
Other/unknown race/ethnicity ^b	32	28	17	16	19	27	34	28
Area and ethnic studies	88	104	94	118	132	103	93	119
White	70	79	69	93	99	74	60	75
Asian ^a	3	2	4	5	4	2	5	5
Black	9	17	13	11	17	13	12	12
Hispanic	1	4	3	5	5	6	8	12
American Indian/Alaska Native	4	1	3	1	2	2	2	3
Other/unknown race/ethnicity ^b	1	1	2	3	5	6	6	12
Economics	590	578	543	502	460	425	407	399
White	431	428	417	396	358	328	313	308
Asian ^a	89	85	65	48	56	56	54	42
Black	22	23	28	22	13	13	11	23
Hispanic	25	26	21	22	18	16	17	11
American Indian/Alaska Native	1	0	1	1	2	0	1	0
Other/unknown race/ethnicity ^b	22	16	11	13	13	12	11	15
History of science	33	36	42	35	39	39	36	42
White	25	32	36	32	31	37	31	33
Asian ^a	2	0	3	0	3	0	0	2
Black	3	0	1	1	1	0	0	1
Hispanic	0	1	0	1	2	1	1	2
American Indian/Alaska Native	0	0	0	0	0	0	0	0
Other/unknown race/ethnicity ^b	3	3	2	1	2	1	4	4
Linguistics	159	136	156	119	123	109	114	137
White	117	103	123	98	97	85	86	106
Asian ^a	25	22	13	11	9	10	12	14
Black	3	4	4	1	6	3	0	3
Hispanic	7	6	13	5	4	7	9	9
American Indian/Alaska Native	1	0	1	0	0	0	1	0
Other/unknown race/ethnicity ^b	6	1	2	4	7	4	6	5
Political science and public administration	789	791	805	802	751	732	766	732
White	655	633	640	637	587	577	595	575
Asian ^a	45	42	45	38	36	33	30	38
Black	37	55	59	61	71	62	70	64
Hispanic	19	35	31	28	23	36	32	31
American Indian/Alaska Native	4	3	7	4	5	3	7	2
Other/unknown race/ethnicity ^b	29	23	23	34	29	21	32	22
Sociology	461	442	459	515	471	476	487	466
White	346	345	346	383	351	349	348	358
Asian ^a	29	23	30	32	27	29	22	28
Black	42	40	45	57	44	46	47	37
Hispanic	19	15	26	26	38	25	40	27
American Indian/Alaska Native	4	3	4	6	2	7	0	2
Other/unknown race/ethnicity ^b	21	16	8	11	9	20	30	14

TABLE F-6. S&E doctorates awarded to U.S. citizens and permanent residents, by field and race/ethnicity: 1997–2004

Field and race/ethnicity	1997	1998	1999	2000	2001	2002	2003	2004
Other	381	373	367	407	388	411	387	386
White	293	289	285	327	319	318	304	304
Asian ^a	31	29	21	23	23	23	26	14
Black	31	32	29	29	25	28	23	30
Hispanic	11	13	15	12	10	19	13	9
American Indian/Alaska Native	1	0	5	3	1	3	3	4
Other/unknown race/ethnicity ^b	14	10	12	13	10	20	18	25
Engineering	3,332	3,044	2,889	2,571	2,446	2,164	2,170	2,182
White	2,288	2,170	2,110	1,889	1,752	1,477	1,560	1,542
Asian ^a	707	554	512	439	422	408	340	354
Black	98	81	98	81	92	85	77	94
Hispanic	96	110	83	82	91	97	103	88
American Indian/Alaska Native	17	13	12	8	6	7	12	6
Other/unknown race/ethnicity ^b	126	116	74	72	83	90	78	98
Aerospace engineering	168	152	112	127	102	91	80	77
White	137	126	97	107	79	73	66	60
Asian ^a	16	12	13	11	12	11	7	9
Black	3	1	1	4	1	2	1	1
Hispanic	4	5	0	3	5	3	4	3
American Indian/Alaska Native	0	0	0	0	0	0	0	0
Other/unknown race/ethnicity ^b	8	8	1	2	5	2	2	4
Chemical engineering	409	374	371	382	361	336	292	312
White	293	275	286	280	272	223	210	216
Asian ^a	73	65	58	69	53	70	46	58
Black	16	3	11	8	17	12	9	10
Hispanic	7	13	7	18	7	16	16	12
American Indian/Alaska Native	4	3	2	1	1	2	1	2
Other/unknown race/ethnicity ^b	16	15	7	6	11	13	10	14
Civil engineering	327	297	312	261	269	247	269	224
White	220	217	241	194	194	185	217	155
Asian ^a	72	38	46	43	37	29	20	35
Black	10	9	6	6	11	13	9	7
Hispanic	12	16	12	9	9	8	13	20
American Indian/Alaska Native	2	0	2	1	0	0	1	3
Other/unknown race/ethnicity ^b	11	17	5	8	18	12	9	4
Electrical engineering	940	804	766	648	560	507	498	498
White	579	523	510	443	368	306	296	312
Asian ^a	256	205	172	141	133	130	130	109
Black	31	23	30	21	22	16	21	33
Hispanic	26	31	30	22	22	31	23	15
American Indian/Alaska Native	5	3	1	0	1	0	5	1
Other/unknown race/ethnicity ^b	43	19	23	21	14	24	23	28
Industrial engineering	119	101	99	77	89	81	70	77
White	80	72	80	59	54	56	47	56
Asian ^a	22	11	7	11	22	10	14	10
Black	9	8	7	4	6	4	3	3
Hispanic	5	7	4	0	3	6	3	3
American Indian/Alaska Native	0	0	0	0	0	1	0	0
Other/unknown race/ethnicity ^b	3	3	1	3	4	4	3	5
Materials engineering	315	313	260	244	225	175	200	210
White	234	225	184	190	165	123	154	160
Asian ^a	59	55	52	34	37	33	23	30
Black	4	10	7	5	6	5	4	6
Hispanic	10	8	8	8	9	7	13	7
American Indian/Alaska Native	0	2	2	0	1	1	0	0
Other/unknown race/ethnicity ^b	8	13	7	7	7	6	6	7

TABLE F-6. S&E doctorates awarded to U.S. citizens and permanent residents, by field and race/ethnicity: 1997–2004

Field and race/ethnicity	1997	1998	1999	2000	2001	2002	2003	2004
Mechanical engineering	538	515	464	396	428	342	332	299
White	377	371	336	279	302	226	246	210
Asian ^a	113	89	88	72	75	70	50	47
Black	12	13	12	18	17	17	9	18
Hispanic	14	19	9	12	21	12	13	10
American Indian/Alaska Native	6	2	2	3	1	1	1	0
Other/unknown race/ethnicity ^b	16	21	17	12	12	16	13	14
Other	516	488	505	436	412	385	429	485
White	368	361	376	337	318	285	324	373
Asian ^a	96	79	76	58	53	55	50	56
Black	13	14	24	15	12	16	21	16
Hispanic	18	11	13	10	15	14	18	18
American Indian/Alaska Native	0	3	3	3	2	2	4	0
Other/unknown race/ethnicity ^b	21	20	13	13	12	13	12	22

^a Includes Native Hawaiians/other Pacific Islanders through 2000 but excludes them in 2001–2004 per revised Office of Management and Budget guidelines.

^b Includes only those with unknown race/ethnicity through 2000. In 2001, this category was expanded to include Native Hawaiians/other Pacific Islanders and respondents choosing multiple races (excluding those selecting an Hispanic ethnicity).

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Earned Doctorates, 1997–2004.

TABLE F-7. Top baccalaureate institutions of black S&E doctorate recipients: 2000–2004

Academic institution	Doctorates
All institutions	4,442
Foreign	947
Unknown	186
Top 50 U.S.	1,396
Howard University	98
Hampton University	72
Spelman College	70
Morehouse College	51
Florida A&M University	45
Harvard University	38
Southern University A&M College at Baton Rouge	38
North Carolina Agricultural & Technical State University	36
University of Maryland at College Park	36
Jackson State University	34
Massachusetts Institute of Technology	34
University of California-Berkeley	34
Xavier University of Louisiana	33
Tuskegee University	32
Morgan State University	30
Yale University	29
Princeton University	28
University of Michigan at Ann Arbor	28
Stanford University	27
University of North Carolina at Chapel Hill	27
Cornell University all campuses	25
University of Virginia main campus	25
Brown University	24
Clark Atlanta University	24
University of California-Los Angeles	24
Prairie View A&M University	22
Tougaloo College	22
University of Illinois at Urbana-Champaign	22
University of South Carolina at Columbia	20
University of Texas at Austin	20
Louisiana State University and Agricultural & Mechanical College	19
Norfolk State University	19
Pennsylvania State University main campus	19
University of Georgia	19
Alabama Agricultural and Mechanical University	18
CUNY City College	18
Fisk University	18
Florida State University	18
North Carolina Central University	18
University of Pennsylvania	18
Oakwood College	17
Purdue University main campus	17
Rutgers the State University of New Jersey New Brunswick	17
Tennessee State University	17
Alabama State University	16
Georgia Institute of Technology main campus	16
Michigan State University	16
North Carolina State University at Raleigh	16
Texas A&M University main campus	16
University of Maryland Baltimore County	16
Other U.S.	1,913

NOTE: Institutions with the same number of doctorate recipients are listed alphabetically.

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Earned Doctorates, 2000–2004.

TABLE F-8. Top baccalaureate institutions of Hispanic S&E doctorate recipients: 2000–2004

Academic institution	Doctorates
All institutions	6,303
Foreign	2,586
Unknown	445
Top 55 U.S.	1,886
University of Puerto Rico Rio Piedras campus	224
University of Puerto Rico Mayaguez campus	136
University of California-Berkeley	94
University of Texas at Austin	68
Massachusetts Institute of Technology	63
University of California-Los Angeles	59
University of Florida	57
Texas A&M University main campus	55
Florida International University	53
University of California-San Diego	47
University of Miami	45
University of California-Irvine	43
University of Texas at El Paso	42
Stanford University	40
Cornell University all campuses	38
University of California-Davis	38
University of New Mexico all campuses	36
New Mexico State University all campuses	35
University of California-Santa Cruz	35
Rutgers the State University of New Jersey New Brunswick	32
University of Illinois at Urbana-Champaign	31
Harvard University	29
University of Arizona	26
University of Michigan at Ann Arbor	26
University of California-Santa Barbara	25
California State University-Long Beach	24
Princeton University	24
University of Houston	22
California State Polytechnic University-San Luis Obispo	21
San Diego State University	21
CUNY City College	20
California State University-Northridge	20
University of Maryland at College Park	20
University of Texas at San Antonio	20
California State University-Los Angeles	18
University of California-Riverside	18
Purdue University main campus	17
Columbia University in the City of New York	16
Rensselaer Polytechnic Institute	16
University of Colorado at Boulder	16
University of South Florida	16
Boston University	15
California Institute of Technology	15
San Francisco State University	15
University of Puerto Rico Humacao University College	15
Brigham Young University main campus	14
Brown University	14
California State University-Fullerton	14
Florida State University	14
Inter American University of Puerto Rico San German campus	14
New York University	14
The Pontifical Catholic University of Puerto Rico	14

Academic institution	Doctorates
University of Puerto Rico Cayey University College	14
University of Southern California	14
University of Washington-Seattle	14
Other U.S.	1,386

NOTE: Institutions with the same number of doctorate recipients are listed alphabetically.

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Earned Doctorates, 2000–2004.

TABLE F-9. Top baccalaureate institutions of American Indian/Alaska Native S&E doctorate recipients: 2000–2004

Academic institution	Doctorates
All institutions	381
Foreign	21
Unknown	17
Top 25 U.S.	94
University of Oklahoma, Norman campus	10
University of Central Oklahoma	7
University of Washington-Seattle	5
Dartmouth College	4
Oklahoma State University all campuses	4
Oregon State University	4
University of Florida	4
University of New Mexico all campuses	4
University of Texas at Austin	4
Baylor University	3
Colorado College	3
Colorado State University	3
East Central University	3
Pennsylvania State University main campus	3
San Francisco State University	3
University of California-Berkeley	3
University of California-Davis	3
University of California-San Diego	3
University of California-Santa Barbara	3
University of California-Santa Cruz	3
University of North Dakota all campuses	3
University of Oregon	3
University of Utah	3
Virginia Polytechnic Institute and State University	3
Wichita State University	3
Other U.S.	249

NOTE: Institutions with the same number of doctorate recipients are listed alphabetically.

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Earned Doctorates, 2000–2004.

TABLE F-10. Top baccalaureate institutions of Asian/Pacific Islander S&E doctorate recipients: 2000–2004

Academic institution	Doctorates
All institutions	33,207
Foreign	25,380
Unknown	1,410
Top 50 U.S.	3,877
University of California-Berkeley	472
University of California-Los Angeles	242
Massachusetts Institute of Technology	219
Harvard University	182
Cornell University all campuses	176
Stanford University	141
University of California-Davis	128
University of California-Irvine	109
University of Texas at Austin	103
University of California-San Diego	99
University of Illinois at Urbana-Champaign	98
University of Michigan at Ann Arbor	97
California Institute of Technology	85
University of Chicago	79
Yale University	78
University of Wisconsin-Madison	72
Princeton University	70
University of Maryland at College Park	69
University of Pennsylvania	69
University of Washington-Seattle	69
Rutgers the State University of New Jersey New Brunswick	68
University of Minnesota-Twin Cities	59
Northwestern University	57
Boston University	56
University of Southern California	53
Johns Hopkins University	51
Brown University	50
Carnegie Mellon University	47
University of Hawaii at Manoa	47
Columbia University in the City of New York	45
Purdue University main campus	44
Rice University	43
SUNY at Stony Brook all campuses	43
University of Virginia main campus	43
University of Rochester	38
Rensselaer Polytechnic Institute	37
Duke University	36
Iowa State University	36
Ohio State University main campus	36
Pennsylvania State University main campus	36
Texas A&M University main campus	34
New York University	33
Washington University	32
University of Arizona	31
University of California-Santa Barbara	29
Wellesley College	29
University of Florida	28
Pomona College	27
Georgia Institute of Technology main campus	26
University of Kansas main campus	26
Other U.S.	2,540

NOTE: Institutions with the same number of doctorate recipients are listed alphabetically.

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Earned Doctorates, 2000–2004.

TABLE F-11. S&E doctorates awarded to U.S. citizens and permanent residents, by field, sex, and race/ethnicity: 1997-2004

Field, sex, and race/ethnicity	1997	1998	1999	2000	2001	2002	2003	2004
All S&E	18,393	18,257	17,567	17,114	16,346	15,512	15,715	15,721
Female	6,988	7,172	7,072	7,132	6,913	6,701	6,823	6,842
Male	11,391	11,067	10,495	9,980	9,433	8,810	8,890	8,875
Unknown	14	18	0	2	0	1	2	4
White	13,828	14,004	13,719	13,443	12,760	11,913	12,024	12,018
Female	5,266	5,494	5,457	5,511	5,284	5,039	5,130	5,099
Male	8,560	8,510	8,262	7,932	7,476	6,873	6,894	6,919
Unknown	2	0	0	0	0	1	0	0
Asian ^a	2,529	2,135	1,932	1,706	1,617	1,616	1,511	1,491
Female	889	760	715	679	681	677	639	675
Male	1,639	1,369	1,217	1,027	936	939	871	816
Unknown	1	6	0	0	0	0	1	0
Black	615	644	715	710	703	685	664	746
Female	286	351	368	391	375	370	378	419
Male	329	293	347	319	328	315	286	327
Hispanic	658	754	722	729	674	724	741	715
Female	266	326	362	349	338	379	365	361
Male	392	428	360	379	336	345	376	354
Unknown	0	0	0	1	0	0	0	0
American Indian/Alaska Native	79	96	114	88	73	70	73	61
Female	34	42	55	45	32	33	39	27
Male	45	54	59	43	41	37	34	34
Other/unknown race/ethnicity ^b	684	624	365	438	519	504	702	690
Female	247	199	115	157	203	203	272	261
Male	426	413	250	280	316	301	429	425
Unknown	11	12	0	1	0	0	1	4
Science	15,061	15,213	14,678	14,543	13,900	13,348	13,545	13,539
Female	6,476	6,720	6,581	6,641	6,434	6,259	6,383	6,372
Male	8,572	8,481	8,097	7,900	7,466	7,088	7,160	7,163
Unknown	13	12	0	2	0	1	2	4
White	11,540	11,834	11,609	11,554	11,008	10,436	10,464	10,476
Female	4,934	5,187	5,106	5,177	4,966	4,763	4,829	4,782
Male	6,604	6,647	6,503	6,377	6,042	5,672	5,635	5,694
Unknown	2	0	0	0	0	1	0	0
Asian ^a	1,822	1,581	1,420	1,267	1,195	1,208	1,171	1,137
Female	770	663	631	570	583	579	559	592
Male	1,051	915	789	697	612	629	611	545
Unknown	1	3	0	0	0	0	1	0
Black	517	563	617	629	611	600	587	652
Female	263	329	344	367	350	342	359	386
Male	254	234	273	262	261	258	228	266
Hispanic	562	644	639	647	583	627	638	627
Female	243	313	339	336	315	354	342	340
Male	319	331	300	310	268	273	296	287
Unknown	0	0	0	1	0	0	0	0
American Indian/Alaska Native	62	83	102	80	67	63	61	55
Female	31	38	53	41	30	33	36	25
Male	31	45	49	39	37	30	25	30
Other/unknown race/ethnicity ^b	558	508	291	366	436	414	624	592
Female	235	190	108	150	190	188	258	247
Male	313	309	183	215	246	226	365	341
Unknown	10	9	0	1	0	0	1	4
Agricultural sciences	619	591	561	559	504	491	561	563
Female	175	204	185	195	194	181	200	226
Male	443	387	376	364	310	309	361	337
Unknown	1	0	0	0	0	1	0	0

TABLE F-11. S&E doctorates awarded to U.S. citizens and permanent residents, by field, sex, and race/ethnicity: 1997-2004

Field, sex, and race/ethnicity	1997	1998	1999	2000	2001	2002	2003	2004
White	465	454	456	452	430	416	465	465
Female	134	154	147	158	157	150	157	170
Male	331	300	309	294	273	265	308	295
Unknown	0	0	0	0	0	1	0	0
Asian ^a	73	54	50	36	23	29	25	31
Female	20	24	19	12	12	15	16	23
Male	53	30	31	24	11	14	9	8
Black	26	22	27	22	14	13	22	20
Female	6	5	9	11	6	5	8	11
Male	20	17	18	11	8	8	14	9
Hispanic	27	35	16	29	26	21	25	16
Female	7	13	7	11	14	8	11	11
Male	20	22	9	18	12	13	14	5
American Indian/Alaska Native	5	9	1	5	0	2	4	4
Female	0	2	0	1	0	0	1	2
Male	5	7	1	4	0	2	3	2
Other/unknown race/ethnicity ^b	23	17	11	15	11	10	20	27
Female	8	6	3	2	5	3	7	9
Male	14	11	8	13	6	7	13	18
Unknown	1	0	0	0	0	0	0	0
Biological sciences	4,256	4,308	4,124	4,268	4,243	4,112	4,056	4,187
Female	1,920	1,921	1,864	1,987	1,971	1,918	1,916	1,997
Male	2,333	2,385	2,260	2,281	2,272	2,194	2,138	2,188
Unknown	3	2	0	0	0	0	2	2
White	3,158	3,246	3,128	3,308	3,255	3,118	3,059	3,184
Female	1,398	1,436	1,402	1,510	1,487	1,392	1,450	1,464
Male	1,759	1,810	1,726	1,798	1,768	1,726	1,609	1,720
Unknown	1	0	0	0	0	0	0	0
Asian ^a	721	657	608	539	546	561	526	488
Female	348	291	276	263	266	290	250	258
Male	373	365	332	276	280	271	275	230
Unknown	0	1	0	0	0	0	1	0
Black	112	111	116	118	139	124	108	148
Female	60	70	66	74	84	67	64	89
Male	52	41	50	44	55	57	44	59
Hispanic	146	168	175	173	165	182	176	191
Female	63	79	76	91	77	114	80	107
Male	83	89	99	82	88	68	96	84
American Indian/Alaska Native	7	12	20	17	15	12	11	14
Female	3	6	10	7	7	6	8	4
Male	4	6	10	10	8	6	3	10
Other/unknown race/ethnicity ^b	112	114	77	113	123	115	176	162
Female	48	39	34	42	50	49	64	75
Male	62	74	43	71	73	66	111	85
Unknown	2	1	0	0	0	0	1	2
Computer sciences	520	561	493	457	423	419	443	448
Female	100	123	106	86	98	97	97	102
Male	419	437	387	371	325	322	346	345
Unknown	1	1	0	0	0	0	0	1
White	361	412	356	336	322	290	307	321
Female	66	84	71	62	60	59	64	71
Male	295	328	285	274	262	231	243	250
Asian ^a	107	90	87	76	61	86	80	72
Female	26	23	19	15	20	26	17	19
Male	81	67	68	61	41	60	63	53

TABLE F-11. S&E doctorates awarded to U.S. citizens and permanent residents, by field, sex, and race/ethnicity: 1997-2004

Field, sex, and race/ethnicity	1997	1998	1999	2000	2001	2002	2003	2004
Black	4	14	19	18	15	17	17	17
Female	1	8	10	5	10	7	5	5
Male	3	6	9	13	5	10	12	12
Hispanic	16	15	14	14	8	14	10	13
Female	2	1	3	3	4	2	4	3
Male	14	14	11	11	4	12	6	10
American Indian/Alaska Native	1	4	1	1	1	2	2	2
Female	1	0	1	0	0	0	0	0
Male	0	4	0	1	1	2	2	2
Other/unknown race/ethnicity ^b	31	26	16	12	16	10	27	23
Female	4	7	2	1	4	3	7	4
Male	26	18	14	11	12	7	20	18
Unknown	1	1	0	0	0	0	0	1
Earth, atmospheric, and ocean sciences	538	514	459	453	395	424	429	426
Female	144	150	129	139	135	158	145	166
Male	393	364	330	314	260	266	284	260
Unknown	1	0	0	0	0	0	0	0
White	434	427	376	393	338	365	361	367
Female	113	126	105	119	119	135	119	143
Male	320	301	271	274	219	230	242	224
Unknown	1	0	0	0	0	0	0	0
Asian ^a	60	44	35	22	27	24	21	11
Female	17	13	10	8	7	10	7	4
Male	43	31	25	14	20	14	14	7
Black	6	5	11	3	5	5	11	7
Female	1	1	4	1	2	0	5	1
Male	5	4	7	2	3	5	6	6
Hispanic	15	16	20	15	9	14	15	11
Female	5	6	4	3	5	2	6	5
Male	10	10	16	12	4	12	9	6
American Indian/Alaska Native	2	3	6	4	0	0	2	4
Female	1	1	3	1	0	0	1	0
Male	1	2	3	3	0	0	1	4
Other/unknown race/ethnicity ^b	21	19	11	16	16	16	19	26
Female	7	3	3	7	2	11	7	13
Male	14	16	8	9	14	5	12	13
Mathematics and statistics	629	669	605	574	524	442	517	510
Female	177	198	192	164	154	134	152	154
Male	452	470	413	409	370	308	365	356
Unknown	0	1	0	1	0	0	0	0
White	479	526	506	464	428	369	408	398
Female	135	150	159	126	120	111	110	125
Male	344	376	347	338	308	258	298	273
Asian ^a	97	71	56	70	48	28	51	54
Female	28	27	20	21	16	5	24	17
Male	69	44	36	49	32	23	27	37
Black	7	16	12	14	19	14	16	10
Female	2	7	6	7	7	8	5	3
Male	5	9	6	7	12	6	11	7
Hispanic	20	27	15	15	15	12	16	26
Female	6	7	5	7	5	4	7	7
Male	14	20	10	8	10	8	9	19

TABLE F-11. S&E doctorates awarded to U.S. citizens and permanent residents, by field, sex, and race/ethnicity: 1997-2004

Field, sex, and race/ethnicity	1997	1998	1999	2000	2001	2002	2003	2004
American Indian/Alaska Native	1	3	1	2	2	3	2	0
Female	0	2	0	1	1	1	1	0
Male	1	1	1	1	1	2	1	0
Other/unknown race/ethnicity ^b	25	26	15	9	12	16	24	22
Female	6	5	2	2	5	5	5	2
Male	19	20	13	6	7	11	19	20
Unknown	0	1	0	1	0	0	0	0
Physical sciences	2,497	2,455	2,277	2,092	2,045	1,940	1,970	1,866
Female	587	604	553	546	527	541	569	510
Male	1,909	1,849	1,724	1,546	1,518	1,399	1,401	1,356
Unknown	1	2	0	0	0	0	0	0
White	1,884	1,916	1,840	1,691	1,649	1,548	1,554	1,479
Female	412	449	396	419	395	419	426	390
Male	1,472	1,467	1,444	1,272	1,254	1,129	1,128	1,089
Asian ^a	400	331	252	203	197	194	183	162
Female	132	101	93	71	73	62	72	53
Male	267	228	159	132	124	132	111	109
Unknown	1	2	0	0	0	0	0	0
Black	51	56	66	62	55	67	57	59
Female	11	31	29	21	20	28	21	25
Male	40	25	37	41	35	39	36	34
Hispanic	69	54	63	78	65	64	72	62
Female	15	11	22	25	22	22	23	24
Male	54	43	41	53	43	42	49	38
American Indian/Alaska Native	10	9	9	9	12	7	2	5
Female	0	1	3	2	2	0	1	1
Male	10	8	6	7	10	7	1	4
Other/unknown race/ethnicity ^b	83	89	47	49	67	60	102	99
Female	17	11	10	8	15	10	26	17
Male	66	78	37	41	52	50	76	82
Psychology	3,125	3,275	3,292	3,231	3,033	2,795	2,857	2,789
Female	2,106	2,212	2,229	2,178	2,050	1,879	1,963	1,893
Male	1,014	1,058	1,063	1,052	983	916	894	895
Unknown	5	5	0	1	0	0	0	1
White	2,523	2,646	2,701	2,607	2,454	2,229	2,263	2,141
Female	1,690	1,764	1,789	1,725	1,628	1,481	1,549	1,411
Male	833	882	912	882	826	748	714	730
Asian ^a	126	113	132	145	116	119	118	153
Female	95	84	98	99	91	80	81	127
Male	31	29	34	46	25	39	37	26
Black	152	158	172	189	174	171	169	204
Female	111	115	135	144	124	129	126	154
Male	41	43	37	45	50	42	43	50
Hispanic	171	208	215	211	175	185	170	170
Female	107	152	158	151	129	129	116	115
Male	64	56	57	59	46	56	54	55
Unknown	0	0	0	1	0	0	0	0
American Indian/Alaska Native	18	31	35	22	17	15	22	13
Female	12	18	23	19	12	8	14	9
Male	6	13	12	3	5	7	8	4
Other/unknown race/ethnicity ^b	135	119	37	57	97	76	115	108
Female	91	79	26	40	66	52	77	77
Male	39	35	11	17	31	24	38	30
Unknown	5	5	0	0	0	0	0	1

TABLE F-11. S&E doctorates awarded to U.S. citizens and permanent residents, by field, sex, and race/ethnicity: 1997-2004

Field, sex, and race/ethnicity	1997	1998	1999	2000	2001	2002	2003	2004
Social sciences	2,877	2,840	2,867	2,909	2,733	2,725	2,712	2,750
Female	1,267	1,308	1,323	1,346	1,305	1,351	1,341	1,324
Male	1,609	1,531	1,544	1,563	1,428	1,374	1,371	1,426
Unknown	1	1	0	0	0	0	0	0
White	2,236	2,207	2,246	2,303	2,132	2,101	2,047	2,121
Female	986	1,024	1,037	1,058	1,000	1,016	954	1,008
Male	1,250	1,183	1,209	1,245	1,132	1,085	1,093	1,113
Asian ^a	238	221	200	176	177	167	167	166
Female	104	100	96	81	98	91	92	91
Male	134	121	104	95	79	76	75	75
Black	159	181	194	203	190	189	187	187
Female	71	92	85	104	97	98	125	98
Male	88	89	109	99	93	91	62	89
Hispanic	98	121	121	112	120	135	154	138
Female	38	44	64	45	59	73	95	68
Male	60	77	57	67	61	62	59	70
American Indian/Alaska Native	18	12	29	20	20	22	16	13
Female	14	8	13	10	8	18	10	9
Male	4	4	16	10	12	4	6	4
Other/unknown race/ethnicity ^b	128	98	77	95	94	111	141	125
Female	54	40	28	48	43	55	65	50
Male	73	57	49	47	51	56	76	75
Unknown	1	1	0	0	0	0	0	0
Engineering	3,332	3,044	2,889	2,571	2,446	2,164	2,170	2,182
Female	512	452	491	491	479	442	440	470
Male	2,819	2,586	2,398	2,080	1,967	1,722	1,730	1,712
Unknown	1	6	0	0	0	0	0	0
White	2,288	2,170	2,110	1,889	1,752	1,477	1,560	1,542
Female	332	307	351	334	318	276	301	317
Male	1,956	1,863	1,759	1,555	1,434	1,201	1,259	1,225
Asian ^a	707	554	512	439	422	408	340	354
Female	119	97	84	109	98	98	80	83
Male	588	454	428	330	324	310	260	271
Unknown	0	3	0	0	0	0	0	0
Black	98	81	98	81	92	85	77	94
Female	23	22	24	24	25	28	19	33
Male	75	59	74	57	67	57	58	61
Hispanic	96	110	83	82	91	97	103	88
Female	23	13	23	13	23	25	23	21
Male	73	97	60	69	68	72	80	67
American Indian/Alaska Native	17	13	12	8	6	7	12	6
Female	3	4	2	4	2	0	3	2
Male	14	9	10	4	4	7	9	4
Other/unknown race/ethnicity ^b	126	116	74	72	83	90	78	98
Female	12	9	7	7	13	15	14	14
Male	113	104	67	65	70	75	64	84
Unknown	1	3	0	0	0	0	0	0

^a Includes Native Hawaiians/other Pacific Islanders through 2000 but excludes them in 2001-2004 per revised Office of Management and Budget guidelines.^b Includes only those with unknown race/ethnicity through 2000. In 2001, this category was expanded to include Native Hawaiians/other Pacific Islanders and respondents choosing multiple races (excluding those selecting an Hispanic ethnicity).

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Earned Doctorates, 1997-2004.

TABLE F-12. S&E doctorates awarded to U.S. citizens and permanent residents, by sex, race/ethnicity, and field: 2004
(Percent distribution)

Sex and field	All U.S. citizens and permanent residents					American Indian/ Alaska Native	Other/ unknown race/ ethnicity ^b
		White	Asian ^a	Black	Hispanic		
Female (number)	6,842	5,099	675	419	361	27	261
S&E	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Science	93.1	93.8	87.7	92.1	94.2	92.6	94.6
Agricultural sciences	3.3	3.3	3.4	2.6	3.0	7.4	3.4
Biological sciences	29.2	28.7	38.2	21.2	29.6	14.8	28.7
Computer sciences	1.5	1.4	2.8	1.2	0.8	0.0	1.5
Earth, atmospheric, and ocean sciences	2.4	2.8	0.6	0.2	1.4	0.0	5.0
Atmospheric sciences	0.4	0.4	0.3	0.0	0.0	0.0	0.4
Earth sciences	1.5	1.7	0.3	0.2	1.1	0.0	3.8
Ocean sciences	0.6	0.7	0.0	0.0	0.3	0.0	0.8
Mathematics and statistics	2.3	2.5	2.5	0.7	1.9	0.0	0.8
Physical sciences	7.5	7.6	7.9	6.0	6.6	3.7	6.5
Astronomy	0.5	0.5	0.4	0.0	0.6	0.0	0.8
Chemistry	5.6	5.6	6.2	4.8	5.8	0.0	5.0
Physics	1.3	1.4	1.2	1.2	0.3	3.7	0.8
Other	0.1	0.2	0.0	0.0	0.0	0.0	0.0
Psychology	27.7	27.7	18.8	36.8	31.9	33.3	29.5
Social sciences	19.4	19.8	13.5	23.4	18.8	33.3	19.2
Anthropology	3.7	3.8	2.2	2.9	6.4	7.4	3.4
Area/ethnic studies	1.0	0.9	0.4	1.9	1.9	3.7	2.7
Economics	1.9	1.9	2.4	1.7	0.6	0.0	1.5
History of science	0.2	0.2	0.1	0.0	0.0	0.0	0.4
Linguistics	1.3	1.3	1.6	0.5	1.9	0.0	0.8
Political science/public administration	4.1	4.2	3.0	7.2	1.9	3.7	2.7
Sociology	4.3	4.5	2.2	5.7	4.4	3.7	3.1
Other	3.0	3.1	1.5	3.6	1.7	14.8	4.6
Engineering	6.9	6.2	12.3	7.9	5.8	7.4	5.4
Aerospace engineering	0.1	0.1	0.1	0.0	0.0	0.0	0.8
Chemical engineering	1.2	0.9	2.7	1.7	1.1	3.7	0.8
Civil engineering	1.0	0.9	1.6	0.7	1.1	3.7	0.4
Electrical engineering	1.0	0.7	3.0	2.1	0.6	0.0	0.4
Industrial engineering	0.3	0.3	0.4	0.2	0.0	0.0	0.0
Materials engineering	0.5	0.5	1.0	0.7	0.3	0.0	0.4
Mechanical engineering	0.6	0.6	0.9	0.7	0.6	0.0	0.8
Other	2.1	2.1	2.5	1.7	2.2	0.0	1.9
Male (number)	8,875	6,919	816	327	354	34	425
S&E	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Science	80.7	82.3	66.8	81.3	81.1	88.2	80.2
Agricultural sciences	3.8	4.3	1.0	2.8	1.4	5.9	4.2
Biological sciences	24.7	24.9	28.2	18.0	23.7	29.4	20.0
Computer sciences	3.9	3.6	6.5	3.7	2.8	5.9	4.2
Earth, atmospheric, and ocean sciences	2.9	3.2	0.9	1.8	1.7	11.8	3.1
Atmospheric sciences	0.5	0.6	0.4	0.3	0.0	2.9	0.2
Earth sciences	1.9	2.0	0.5	1.2	1.7	8.8	2.8
Ocean sciences	0.5	0.6	0.0	0.3	0.0	0.0	0.0
Mathematics and statistics	4.0	3.9	4.5	2.1	5.4	0.0	4.7
Physical sciences	15.3	15.7	13.4	10.4	10.7	11.8	19.3
Astronomy	0.9	1.0	0.6	0.0	1.1	0.0	1.4
Chemistry	9.0	9.2	8.3	8.0	6.2	11.8	10.1
Physics	5.3	5.5	4.4	2.4	3.4	0.0	7.8
Other	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TABLE F-12. S&E doctorates awarded to U.S. citizens and permanent residents, by sex, race/ethnicity, and field: 2004
(Percent distribution)

Sex and field	All U.S. citizens and permanent residents	White	Asian ^a	Black	Hispanic	American Indian/ Alaska Native	Other/ unknown race/ ethnicity ^b
Psychology	10.1	10.6	3.2	15.3	15.5	11.8	7.1
Social sciences	16.1	16.1	9.2	27.2	19.8	11.8	17.6
Anthropology	2.4	2.5	1.0	1.5	4.0	0.0	4.5
Area/ethnic studies	0.6	0.4	0.2	1.2	1.4	5.9	1.2
Economics	3.1	3.0	3.2	4.9	2.5	0.0	2.6
History of science	0.3	0.3	0.1	0.3	0.6	0.0	0.7
Linguistics	0.6	0.6	0.4	0.3	0.6	0.0	0.7
Political science/public administration	5.1	5.2	2.2	10.4	6.8	2.9	3.5
Sociology	2.0	1.9	1.6	4.0	3.1	2.9	1.4
Other	2.0	2.1	0.5	4.6	0.8	0.0	3.1
Engineering	19.3	17.7	33.2	18.7	18.9	11.8	19.8
Aerospace engineering	0.8	0.8	1.0	0.3	0.8	0.0	0.5
Chemical engineering	2.6	2.4	4.9	0.9	2.3	2.9	2.8
Civil engineering	1.8	1.6	2.9	1.2	4.5	5.9	0.7
Electrical engineering	4.8	4.0	10.9	7.3	3.7	2.9	6.4
Industrial engineering	0.6	0.6	0.9	0.6	0.8	0.0	1.2
Materials engineering	1.9	2.0	2.8	0.9	1.7	0.0	1.4
Mechanical engineering	2.9	2.6	5.0	4.6	2.3	0.0	2.8
Other	3.8	3.8	4.8	2.8	2.8	0.0	4.0

^a Excludes Native Hawaiians/other Pacific Islanders per revised Office of Management and Budget guidelines.

^b This category includes Native Hawaiians/other Pacific Islanders and respondents choosing multiple races (excluding those selecting an Hispanic ethnicity).

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Earned Doctorates, 2004.

TABLE F-13. S&E doctorate recipients, by disability status: 1997–2004

Disability status	1997	1998	1999	2000	2001	2002	2003	2004
All S&E doctorate recipients	27,232	27,278	25,933	25,966	25,548	24,588	25,289	26,275
No disability	26,912	26,956	25,596	25,638	25,207	24,262	24,976	25,991
With disability	320	322	337	328	341	326	313	284
Blind/visually impaired	39	55	54	49	39	26	28	22
Deaf/hard of hearing	45	36	40	38	48	42	48	34
Learning disabilities ^a	na	na	na	na	84	78	74	97
Physical/orthopedic disability	104	92	96	94	99	120	95	88
Vocal/speech disability	7	11	6	6	8	8	11	11
Other or more than one	98	96	110	110	58	47	52	27
Unspecified	27	32	31	31	5	5	5	5

na = not applicable.

^a Not included in survey before 2001.

NOTE: Respondents are asked if they have a disability and then are asked to mark one or more types of disability (blind/visually impaired, deaf/hard of hearing, physical/orthopedic disability, learning/cognitive disability, vocal/speech disability, or other disability).

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Earned Doctorates, 1997–2004.

TABLE F-14. Top baccalaureate institutions of S&E doctorate recipients with disabilities, by disability type: 2000–2004

Academic institution	All disabilities	Blind/ visually impaired	Deaf/hard of hearing	Learning disabilities ^a	Physical/ orthopedic disability	Vocal/ speech disability	Other/more than one	Unspecified
All institutions	1,592	164	210	333	496	44	294	51
Foreign	180	25	34	17	64	10	15	15
Unknown	45	8	6	7	13	1	8	2
Top 54 U.S.	527	49	72	130	149	16	99	12
University of California-Berkeley	35	4	2	11	5	2	10	1
University of Minnesota-Twin Cities	22	3	2	5	5	1	5	1
Cornell University all campuses	22	3	2	4	8	0	5	0
University of California-Los Angeles	18	1	3	3	5	0	6	0
University of Maryland College Park campus	16	1	2	3	5	1	3	1
Pennsylvania State University main campus	15	0	4	1	4	2	4	0
University of Virginia main campus	14	1	2	5	6	0	0	0
University of California-Davis	13	2	1	4	4	0	1	1
Brigham Young University	13	0	2	5	3	0	1	2
University of California-Santa Barbara	12	1	1	2	5	0	3	0
University of Illinois at Urbana-Champaign	12	2	3	3	2	0	1	1
University of California-Santa Cruz	11	0	2	8	0	0	1	0
University of Michigan-Ann Arbor	11	0	1	2	2	0	5	1
University of Washington	11	0	1	4	3	0	3	0
University of Colorado	10	1	0	3	2	0	4	0
University of Florida	10	1	3	0	4	0	2	0
University of Massachusetts-Amherst	10	0	1	3	2	0	4	0
Michigan State University	10	3	2	2	1	0	1	1
Ohio State University	10	1	0	3	1	1	4	0
University of Arizona	9	0	1	4	3	0	1	0
California Polytechnic State University-San Luis Obispo	9	2	1	3	3	0	0	0
University of California-San Diego	9	2	2	3	2	0	0	0
University of New Mexico	9	0	0	2	4	1	2	0
Texas A&M University	9	0	3	1	2	0	3	0
University of Texas-Austin	9	0	1	1	4	1	2	0
Purdue University	9	1	1	1	4	0	2	0
University of California-Irvine	8	1	1	4	2	0	0	0
San Francisco State University	8	1	2	2	2	0	1	0
Rutgers University	8	2	2	1	2	0	1	0
Oberlin College	8	2	1	1	3	0	1	0
University of Wisconsin-Madison	8	1	1	1	2	0	3	0
Arizona State University	7	0	1	3	2	0	1	0
University of Delaware	7	0	0	0	5	0	1	1
Florida State University	7	0	2	0	3	1	1	0
Princeton University	7	0	1	3	3	0	0	0
SUNY-Buffalo	7	0	1	2	4	0	0	0
Duke University	7	0	2	2	2	0	1	0
Brown University	7	0	1	4	0	0	1	1
Rice University	7	1	2	1	0	2	1	0
Virginia Polytechnic Institute and State University	7	1	1	2	1	0	1	1
Washington State University	7	2	0	0	5	0	0	0
Stanford University	7	1	2	1	0	1	2	0
San Jose State University	6	0	2	1	2	0	1	0
University of Southern California	6	0	0	3	2	0	1	0
University of South Florida	6	0	1	1	3	0	1	0
University of Chicago	6	1	0	1	2	1	1	0
Indiana University-Bloomington	6	0	2	3	0	0	1	0
University of Kansas	6	1	0	1	2	1	1	0
Harvard University	6	1	0	1	3	1	0	0
University of Oklahoma	6	0	2	1	1	0	2	0
University of Pennsylvania	6	0	2	1	1	0	2	0
University of Pittsburgh	6	2	0	1	2	0	1	0

TABLE F-14. Top baccalaureate institutions of S&E doctorate recipients with disabilities, by disability type: 2000–2004

Academic institution	All	Blind/ visually impaired	Deaf/hard of hearing	Learning disabilities ^a	Physical/ orthopedic disability	Vocal/ speech disability	Other/more than one	Unspecified
	disabilities							
College of William & Mary	6	2	0	2	2	0	0	0
West Virginia University	6	1	0	1	4	0	0	0
Other U.S.	840	82	98	179	270	17	172	22

^a Not included in survey before 2001.

NOTE: Respondents are asked if they have a disability and then are asked to mark one or more types of disability (blind/visually impaired, deaf/hard of hearing, physical/orthopedic disability, learning/cognitive disability, vocal/speech disability, or other disability). Institutions with the same number of doctorate recipients are listed alphabetically.

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Earned Doctorates, 2000–2004.

TABLE F-15. S&E doctorate recipients, by field and disability status: 2004

Field	All recipients	No disability		With disability	
		Number	Percent	Number	Percent
S&E	26,275	25,991	100.0	284	100.0
Science	20,499	20,245	77.9	254	89.4
Agricultural sciences	1,046	1,036	4.0	10	3.5
Biological sciences	5,937	5,889	22.7	48	16.9
Computer sciences	949	944	3.6	5	1.8
Earth, atmospheric, and ocean sciences	672	667	2.6	5	1.8
Atmospheric sciences	126	126	0.5	0	0.0
Earth sciences	420	415	1.6	5	1.8
Ocean sciences	126	126	0.5	0	0.0
Mathematics and statistics	1,075	1,062	4.1	13	4.6
Physical sciences	3,353	3,323	12.8	30	10.6
Astronomy	165	163	0.6	2	0.7
Chemistry	1,987	1,973	7.6	14	4.9
Physics	1,186	1,172	4.5	14	4.9
Other	15	15	0.1	0	0.0
Psychology	3,336	3,265	12.6	71	25.0
Social sciences	4,131	4,059	15.6	72	25.4
Anthropology	563	554	2.1	9	3.2
Area/ethnic studies	133	131	0.5	2	0.7
Economics	1,066	1,061	4.1	5	1.8
History of science	48	47	0.2	1	0.4
Linguistics	253	250	1.0	3	1.1
Political science	946	923	3.6	23	8.1
Sociology	598	584	2.2	14	4.9
Other	524	509	2.0	15	5.3
Engineering	5,776	5,746	22.1	30	10.6
Aerospace engineering	201	201	0.8	0	0.0
Chemical engineering	723	720	2.8	3	1.1
Civil engineering	675	671	2.6	4	1.4
Electrical engineering	1,649	1,643	6.3	6	2.1
Industrial engineering	217	216	0.8	1	0.4
Materials engineering	509	503	1.9	6	2.1
Mechanical engineering	853	848	3.3	5	1.8
Other	949	944	3.6	5	1.8

NOTE: Respondents are asked if they have a disability and then are asked to mark one or more types of disability (blind/visually impaired, deaf/hard of hearing, physical/orthopedic disability, learning/cognitive disability, vocal/speech disability, or other disability).

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Earned Doctorates, 2004.

TABLE F-16. Primary source of support for U.S.-citizen and permanent-resident S&E doctorate recipients, by sex and doctorate field: 2000–2004
(Percent distribution)

Sex and primary source of support	All S&E	Science	Agricultural sciences	Biological sciences	Computer sciences	Earth, atmospheric, and ocean sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Engineering
All recipients (number) ^a	80,408	68,875	2,678	20,866	2,190	2,127	2,567	9,913	14,705	13,829	11,533
All sources	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Personal/family funds	21.5	22.9	20.4	10.2	23.6	11.0	11.0	6.5	46.8	32.9	13.3
Loans	7.0	7.9	4.1	2.1	3.0	1.7	1.5	1.2	22.3	9.8	1.9
Savings	1.8	1.8	2.0	0.7	3.7	1.4	0.9	0.4	2.8	3.1	1.8
Other earnings in graduate school	6.3	6.3	8.0	2.7	11.1	5.0	4.2	1.7	9.2	11.6	5.9
Other family earnings or savings	6.5	6.9	6.3	4.7	5.8	2.9	4.5	3.3	12.5	8.4	3.7
Teaching assistantship	15.0	16.5	7.4	10.3	8.1	14.6	51.0	20.0	14.1	22.7	6.3
Research assistantship, traineeship, and internship	28.7	26.5	41.3	31.9	34.7	39.2	11.1	48.5	16.0	10.3	42.4
Research assistantship	25.9	23.3	40.7	25.3	33.6	38.2	10.2	47.3	12.7	9.4	41.4
Traineeship	2.5	2.8	0.3	6.3	0.6	0.8	0.8	1.1	2.5	0.7	0.7
Internship or residency	0.3	0.3	0.2	0.2	0.4	0.2	0.1	0.1	0.9	0.2	0.3
Fellowship/scholarship and dissertation grant	26.0	26.2	18.9	41.2	18.0	28.1	20.6	18.5	13.7	26.0	24.3
Fellowship/scholarship	22.5	22.6	15.1	33.4	15.9	23.8	19.3	16.2	12.5	24.5	21.7
Dissertation grant	3.5	3.7	3.8	7.8	2.1	4.2	1.2	2.3	1.2	1.6	2.5
Employer reimbursement or assistance	3.2	2.3	6.3	1.7	8.8	3.1	2.6	1.7	1.4	2.6	8.6
Foreign	0.2	0.2	0.4	0.1	0.2	0.2	0.2	0.1	0.1	0.3	0.4
Other	0.3	0.3	0.3	0.2	0.3	0.3	0.2	0.1	0.8	0.2	0.1
Not reported	5.1	5.1	5.0	4.4	6.3	3.4	3.4	4.6	7.1	5.0	4.7
Female (number)	34,411	32,089	996	9,789	480	743	758	2,693	9,963	6,667	2,322
All sources	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Personal/family funds	26.0	27.1	19.4	10.7	26.3	9.0	11.3	6.6	48.0	33.2	11.4
Loans	9.4	10.0	4.9	1.9	3.1	1.3	1.3	1.1	22.5	9.9	1.6
Savings	1.7	1.7	1.7	0.6	2.9	1.1	0.7	0.3	2.7	2.6	1.0
Other earnings in graduate school	6.3	6.4	5.8	2.8	11.0	4.6	2.5	1.3	8.5	10.9	4.3
Other family earnings or savings	8.7	9.0	6.9	5.4	9.2	2.0	6.9	3.9	14.3	9.8	4.4
Teaching assistantship	14.4	15.1	8.5	9.6	7.9	13.9	50.5	20.5	13.2	21.5	5.1
Research assistantship, traineeship, and internship	24.6	23.7	38.7	32.1	28.3	36.7	12.3	45.2	16.3	10.9	37.0
Research assistantship	21.1	20.0	38.0	25.0	27.3	35.4	10.7	43.6	12.9	9.9	35.9
Traineeship	3.1	3.2	0.5	6.8	0.2	1.2	1.2	1.5	2.5	0.8	0.9
Internship or residency	0.4	0.4	0.2	0.2	0.8	0.1	0.4	0.1	0.9	0.1	0.2
Fellowship/scholarship and dissertation grant	27.2	26.6	23.3	41.3	22.1	36.5	20.3	22.2	13.5	26.8	35.8
Fellowship/scholarship	23.6	22.9	18.8	33.1	21.3	32.0	19.3	20.0	12.4	25.1	33.0
Dissertation grant	3.6	3.7	4.5	8.2	0.8	4.4	1.1	2.3	1.1	1.6	2.8

TABLE F-16. Primary source of support for U.S.-citizen and permanent-resident S&E doctorate recipients, by sex and doctorate field: 2000–2004
(Percent distribution)

Sex and primary source of support	All S&E	Science	Agricultural sciences	Biological sciences	Computer sciences	Earth, atmospheric, and ocean sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Engineering
Employer reimbursement or assistance	2.0	1.7	5.9	1.7	6.3	1.1	2.0	0.9	1.1	2.1	5.6
Foreign	0.2	0.2	0.2	0.2	0.2	0.1	0.3	0.0	0.1	0.3	0.4
Other	0.4	0.4	0.1	0.3	0.2	0.3	0.1	0.1	0.8	0.2	0.2
Not reported	5.2	5.2	3.9	4.2	8.8	2.4	3.2	4.5	6.9	5.0	4.4
Male (number)	45,988	36,777	1,681	11,073	1,709	1,384	1,808	7,220	4,740	7,162	9,211
All sources	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Personal/family funds	18.2	19.2	21.1	9.7	22.9	12.1	10.8	6.5	44.2	32.5	13.8
Loans	5.2	6.1	3.6	2.3	3.0	2.0	1.5	1.2	22.0	9.7	2.0
Savings	1.8	1.8	2.2	0.7	3.9	1.6	0.9	0.5	2.9	3.6	2.0
Other earnings in graduate school	6.3	6.3	9.2	2.6	11.1	5.2	4.9	1.8	10.7	12.2	6.3
Other family earnings or savings	4.8	5.1	6.0	4.2	4.9	3.4	3.5	3.1	8.6	7.1	3.6
Teaching assistantship	15.4	17.7	6.8	10.9	8.1	15.0	51.2	19.8	16.1	23.8	6.6
Research assistantship, traineeship, and internship	31.9	28.9	42.8	31.7	36.5	40.5	10.6	49.8	15.6	9.7	43.7
Research assistantship	29.5	26.2	42.4	25.6	35.4	39.7	10.0	48.7	12.3	9.0	42.7
Traineeship	2.1	2.5	0.2	5.9	0.8	0.7	0.6	0.9	2.4	0.6	0.7
Internship or residency	0.3	0.3	0.2	0.2	0.3	0.2	0.0	0.2	0.8	0.2	0.3
Fellowship/scholarship and dissertation grant	25.0	25.9	16.3	41.1	16.9	23.6	20.7	17.1	14.0	25.4	21.3
Fellowship/scholarship	21.6	22.3	13.0	33.7	14.5	19.4	19.4	14.8	12.6	23.8	18.9
Dissertation grant	3.4	3.7	3.3	7.4	2.5	4.1	1.3	2.4	1.4	1.5	2.4
Employer reimbursement or assistance	4.1	2.8	6.6	1.8	9.5	4.2	2.8	2.0	1.8	3.1	9.3
Foreign	0.2	0.2	0.5	0.1	0.2	0.3	0.1	0.1	0.1	0.3	0.4
Other	0.2	0.3	0.4	0.2	0.4	0.4	0.3	0.1	0.7	0.2	0.1
Not reported	5.0	5.0	5.6	4.5	5.5	3.9	3.5	4.6	7.5	4.9	4.8

^a All recipients include those with unknown gender. The data for all recipients, therefore, will not equal the sum of female and male.

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Earned Doctorates, 2000–2004.

TABLE F-17. Primary source of support for U.S.-citizen and permanent-resident S&E doctorate recipients, by race/ethnicity and doctorate field: 2000–2004
(Percent distribution)

Race/ethnicity and primary source of support	All S&E	Science	Agricultural sciences	Biological sciences	Computer sciences	Earth, atmospheric, and ocean sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences		Engineering
										Social sciences	Engineering	
All recipients (number)	80,408	68,875	2,678	20,866	2,190	2,127	2,567	9,913	14,705	13,829	11,533	
All sources	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Personal/family funds	21.5	22.9	20.4	10.2	23.6	11.0	11.0	6.5	46.8	32.9	13.3	
Loans	7.0	7.9	4.1	2.1	3.0	1.7	1.5	1.2	22.3	9.8	1.9	
Savings	1.8	1.8	2.0	0.7	3.7	1.4	0.9	0.4	2.8	3.1	1.8	
Other earnings in graduate school	6.3	6.3	8.0	2.7	11.1	5.0	4.2	1.7	9.2	11.6	5.9	
Other family earnings or savings	6.5	6.9	6.3	4.7	5.8	2.9	4.5	3.3	12.5	8.4	3.7	
Teaching assistantship	15.0	16.5	7.4	10.3	8.1	14.6	51.0	20.0	14.1	22.7	6.3	
Research assistantship, traineeship, and internship	28.7	26.5	41.3	31.9	34.7	39.2	11.1	48.5	16.0	10.3	42.4	
Research assistantship	25.9	23.3	40.7	25.3	33.6	38.2	10.2	47.3	12.7	9.4	41.4	
Traineeship	2.5	2.8	0.3	6.3	0.6	0.8	0.8	1.1	2.5	0.7	0.7	
Internship or residency	0.3	0.3	0.2	0.2	0.4	0.2	0.1	0.1	0.9	0.2	0.3	
Fellowship/scholarship or dissertation grant	26.0	26.2	18.9	41.2	18.0	28.1	20.6	18.5	13.7	26.0	24.3	
Fellowship/scholarship	22.5	22.6	15.1	33.4	15.9	23.8	19.3	16.2	12.5	24.5	21.7	
Dissertation grant	3.5	3.7	3.8	7.8	2.1	4.2	1.2	2.3	1.2	1.6	2.5	
Employer reimbursement or assistance	3.2	2.3	6.3	1.7	8.8	3.1	2.6	1.7	1.4	2.6	8.6	
Foreign	0.2	0.2	0.4	0.1	0.2	0.2	0.2	0.1	0.1	0.3	0.4	
Other	0.3	0.3	0.3	0.2	0.3	0.3	0.2	0.1	0.8	0.2	0.1	
Not reported	5.1	5.1	5.0	4.4	6.3	3.4	3.4	4.6	7.1	5.0	4.7	
White (number)	62,158	53,938	2,228	15,924	1,576	1,824	2,067	7,921	11,694	10,704	8,220	
All sources	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Personal/family funds	22.6	23.9	21.6	11.0	24.7	11.1	10.9	6.9	48.6	33.7	14.1	
Loans	7.1	7.9	3.9	2.2	2.8	1.5	1.2	1.1	22.2	9.6	1.9	
Savings	1.8	1.8	2.0	0.7	3.6	1.5	0.8	0.4	3.0	3.2	1.7	
Other earnings in graduate school	6.7	6.7	8.8	2.9	12.2	5.0	4.3	1.7	9.9	12.1	6.6	
Other family earnings or savings	7.1	7.6	6.9	5.3	6.0	3.1	4.6	3.7	13.6	8.9	4.0	
Teaching assistantship	16.0	17.5	7.7	11.3	7.9	15.5	52.6	20.3	15.4	24.2	6.2	
Research assistantship, traineeship, and internship	29.1	27.2	41.4	32.4	33.9	39.4	11.3	49.8	16.9	11.0	42.0	
Research assistantship	26.2	24.0	41.0	25.8	32.9	38.3	10.3	48.4	13.4	10.1	41.0	
Traineeship	2.6	2.8	0.3	6.3	0.6	0.9	0.9	1.2	2.6	0.7	0.7	
Internship or residency	0.3	0.4	0.0	0.3	0.4	0.2	0.1	0.2	0.9	0.2	0.3	
Fellowship/scholarship or dissertation grant	24.2	24.2	18.0	39.4	17.9	27.5	19.5	17.4	10.9	23.9	24.1	
Fellowship/scholarship	20.7	20.6	14.0	31.6	15.7	23.0	18.3	15.0	9.7	22.2	21.4	
Dissertation grant	3.5	3.7	3.9	7.8	2.2	4.5	1.2	2.4	1.1	1.7	2.7	
Employer reimbursement or assistance	3.3	2.4	6.5	1.8	9.6	3.2	2.4	1.7	1.4	2.8	9.2	
Foreign	0.1	0.1	0.3	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.2	
Other	0.3	0.3	0.3	0.2	0.4	0.3	0.2	0.1	0.8	0.2	0.2	
Not reported	4.2	4.3	4.2	3.6	5.5	2.8	2.8	3.8	6.0	4.1	4.0	

TABLE F-17. Primary source of support for U.S.-citizen and permanent-resident S&E doctorate recipients, by race/ethnicity and doctorate field: 2000–2004
(Percent distribution)

Race/ethnicity and primary source of support	All S&E	Science	Agricultural sciences	Biological sciences	Computer sciences	Earth, atmospheric, and ocean sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Engineering
Asian/Pacific Islander (number)	8,109	6,134	148	2,731	378	109	252	958	682	876	1,975
All sources	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Personal/family funds	11.8	12.3	9.5	5.3	17.5	7.3	14.3	3.5	35.8	23.4	10.3
Loans	2.8	3.2	0.0	0.8	1.3	0.9	1.6	0.5	18.6	4.1	1.3
Savings	1.5	1.3	2.0	0.7	3.2	0.0	1.6	0.6	1.3	3.1	2.0
Other earnings in graduate school	3.2	3.1	2.7	1.3	7.1	4.6	5.6	1.1	4.4	7.1	3.7
Other family earnings or savings	4.3	4.6	4.7	2.5	5.8	1.8	5.6	1.3	11.4	9.1	3.3
Teaching assistantship	12.8	14.6	6.8	7.0	10.3	10.1	49.2	21.7	14.5	24.3	7.2
Research assistantship, traineeship, and internship	38.8	34.2	58.1	37.3	47.4	54.1	13.9	51.4	17.4	12.4	53.3
Research assistantship	35.6	30.1	56.1	30.1	46.0	53.2	13.1	50.5	13.8	11.6	52.4
Traineeship	3.0	3.8	0.0	7.1	0.5	0.9	0.8	0.6	3.1	0.6	0.7
Internship or residency	0.3	0.3	2.0	0.1	0.8	0.0	0.0	0.2	0.6	0.2	0.3
Fellowship/scholarship or dissertation grant	27.7	31.0	15.5	43.3	13.0	24.8	16.7	16.0	20.4	32.4	17.4
Fellowship/scholarship	23.9	26.7	12.8	35.8	10.6	22.0	15.1	14.5	18.8	30.8	15.3
Dissertation grant	3.7	4.3	2.7	7.4	2.4	2.8	1.6	1.5	1.6	1.6	2.1
Employer reimbursement or assistance	2.9	1.9	2.7	1.4	6.9	1.8	2.8	1.8	1.0	1.7	6.2
Foreign	0.4	0.4	2.0	0.1	0.3	0.0	0.0	0.1	0.6	1.3	0.4
Other	0.2	0.3	0.0	0.3	0.0	0.0	0.0	0.1	1.0	0.0	0.0
Not reported	5.4	5.5	5.4	5.3	4.8	1.8	3.2	5.4	9.2	4.5	5.1
Black (number)	3,508	3,079	91	637	84	31	73	300	907	956	429
All sources	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Personal/family funds	24.4	26.1	17.6	8.3	35.7	9.7	8.2	7.7	37.4	34.9	12.1
Loans	13.7	15.0	12.1	3.3	17.9	6.5	6.8	4.0	25.5	17.3	4.4
Savings	2.0	1.9	1.1	0.3	8.3	0.0	0.0	0.3	1.9	3.1	2.8
Other earnings in graduate school	5.7	6.0	3.3	2.4	6.0	3.2	0.0	1.7	6.1	10.6	3.3
Other family earnings or savings	3.0	3.2	1.1	2.4	3.6	0.0	1.4	1.7	4.0	4.0	1.6
Teaching assistantship	9.1	9.5	3.3	6.6	3.6	12.9	32.9	16.7	6.1	11.6	6.3
Research assistantship, traineeship, and internship	14.2	12.9	27.5	19.5	6.0	22.6	1.4	23.7	10.9	6.9	23.3
Research assistantship	11.8	10.5	26.4	12.7	4.8	22.6	1.4	23.0	8.7	6.0	21.7
Traineeship	2.2	2.3	1.1	6.6	1.2	0.0	0.0	0.7	1.9	0.7	1.4
Internship or residency	0.2	0.2	0.0	0.2	0.0	0.0	0.0	0.0	0.3	0.2	0.2
Fellowship/scholarship or dissertation grant	41.4	40.7	37.4	57.0	34.5	35.5	46.6	44.0	33.1	36.7	46.6
Fellowship/scholarship	38.9	38.1	35.2	48.8	34.5	32.3	46.6	40.3	31.8	36.3	45.0
Dissertation grant	2.5	2.7	2.2	8.2	0.0	3.2	0.0	3.7	1.3	0.4	1.6
Employer reimbursement or assistance	2.9	2.4	5.5	1.7	6.0	6.5	4.1	1.0	1.9	2.8	6.3
Foreign	0.1	0.2	0.0	0.2	1.2	0.0	0.0	0.0	0.1	0.2	0.0
Other	0.4	0.4	0.0	0.2	0.0	3.2	1.4	0.3	0.8	0.2	0.0
Not reported	7.5	7.8	8.8	6.6	13.1	9.7	5.5	6.7	9.8	6.6	5.4

TABLE F-17. Primary source of support for U.S.-citizen and permanent-resident S&E doctorate recipients, by race/ethnicity and doctorate field: 2000–2004
(Percent distribution)

Race/ethnicity and primary source of support	All S&E	Science	Agricultural sciences	Biological sciences	Computer sciences	Earth, atmospheric, and ocean sciences		Mathematics and statistics	Physical sciences	Psychology	Social sciences	Engineering
						64	84					
Hispanic (number)	3,583	3,122	117	887	59	64	84	341	911	659	461	
All sources	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
Personal/family funds	23.0	24.7	21.4	10.1	18.6	12.5	6.0	5.9	46.7	28.4	11.5	
Loans	10.2	11.5	9.4	2.7	1.7	4.7	3.6	1.8	26.2	10.8	2.0	
Savings	1.5	1.5	2.6	0.6	5.1	1.6	0.0	0.3	2.3	2.0	1.1	
Other earnings in graduate school	6.0	6.1	5.1	2.9	6.8	6.3	1.2	1.2	9.0	9.7	5.0	
Other family earnings or savings	5.3	5.6	4.3	3.9	5.1	0.0	1.2	2.6	9.1	5.9	3.5	
Teaching assistantship	11.2	12.1	6.8	7.3	6.8	12.5	38.1	19.1	7.6	19.4	5.2	
Research assistantship, traineeship, and internship	18.3	16.4	33.3	19.8	30.5	31.3	6.0	37.2	10.1	5.2	31.7	
Research assistantship	16.4	14.2	31.6	15.6	28.8	31.3	6.0	35.5	8.3	4.4	31.0	
Traineeship	1.7	1.9	0.9	4.2	1.7	0.0	0.0	1.8	1.1	0.6	0.7	
Internship or residency	0.3	0.3	0.9	0.1	0.0	0.0	0.0	0.0	0.7	0.2	0.0	
Fellowship/scholarship or dissertation grant	37.1	37.3	23.9	55.6	23.7	34.4	40.5	31.1	23.3	38.7	36.0	
Fellowship/scholarship	33.6	33.6	20.5	47.0	23.7	32.8	38.1	29.0	21.6	37.3	33.2	
Dissertation grant	3.5	3.7	3.4	8.6	0.0	1.6	2.4	2.1	1.6	1.4	2.8	
Employer reimbursement or assistance	3.0	2.0	8.5	1.5	10.2	3.1	4.8	2.3	1.4	1.2	9.3	
Foreign	0.9	0.7	0.9	0.6	3.4	1.6	1.2	0.3	0.4	0.9	2.6	
Other	0.3	0.3	0.0	0.1	0.0	0.0	1.2	0.0	0.5	0.3	0.0	
Not reported	6.1	6.5	5.1	5.0	6.8	4.7	2.4	4.1	10.0	5.9	3.7	
American Indian/Alaska Native (number)	365	326	15	69	8	10	9	35	89	91	39	
All sources	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
Personal/family funds	30.7	30.7	6.7	13.0	37.5	20.0	0.0	20.0	44.9	41.8	30.8	
Loans	9.3	10.1	6.7	7.2	12.5	0.0	0.0	2.9	19.1	8.8	2.6	
Savings	4.1	3.7	0.0	0.0	0.0	0.0	0.0	2.9	3.4	8.8	7.7	
Other earnings in graduate school	8.8	8.3	0.0	2.9	25.0	10.0	0.0	2.9	9.0	14.3	12.8	
Other family earnings or savings	8.5	8.6	0.0	2.9	0.0	10.0	0.0	11.4	13.5	9.9	7.7	
Teaching assistantship	8.5	9.5	6.7	7.2	0.0	10.0	44.4	11.4	7.9	9.9	0.0	
Research assistantship, traineeship, and internship	15.9	15.3	26.7	18.8	0.0	10.0	33.3	40.0	10.1	6.6	20.5	
Research assistantship	14.5	14.1	26.7	14.5	0.0	10.0	33.3	40.0	9.0	6.6	17.9	
Traineeship	0.8	0.9	0.0	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Internship or residency	0.5	0.3	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	2.6	
Fellowship/scholarship or dissertation grant	32.9	33.4	26.7	55.1	12.5	50.0	0.0	17.1	27.0	34.1	28.2	
Fellowship/scholarship	31.5	31.9	26.7	50.7	12.5	50.0	0.0	17.1	25.8	33.0	28.2	
Dissertation grant	1.4	1.5	0.0	4.3	0.0	0.0	0.0	0.0	1.1	1.1	0.0	
Employer reimbursement or assistance	3.6	2.5	20.0	0.0	37.5	0.0	11.1	0.0	0.0	1.1	12.8	
Foreign	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	
Other	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	
Not reported	7.9	8.0	13.3	5.8	12.5	10.0	11.1	11.4	7.9	6.6	7.7	

TABLE F-17. Primary source of support for U.S.-citizen and permanent-resident S&E doctorate recipients, by race/ethnicity and doctorate field: 2000–2004
(Percent distribution)

Race/ethnicity and primary source of support	All S&E	Science	Agricultural sciences	Biological sciences	Computer sciences	Earth, atmospheric, and ocean sciences		Mathematics and statistics	Physical sciences	Psychology	Social sciences	Engineering
						89	80					
Other or Not reported race/ethnicity (number)	2,676	2,268	79	616	85							
All sources	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Personal/family funds	18.7	19.9	12.7	10.4	21.2	12.4	11.3	3.9	35.5	32.3	12.3	
Loans	5.5	6.1	1.3	1.9	0.0	4.5	2.5	0.3	17.1	8.7	2.0	
Savings	1.7	1.8	3.8	0.6	1.2	1.1	1.3	0.0	2.8	3.3	1.5	
Other earnings in graduate school	6.5	6.6	3.8	3.9	14.1	3.4	3.8	2.0	6.6	12.9	5.9	
Other family earnings or savings	5.0	5.4	3.8	3.9	5.9	3.4	3.8	1.7	9.0	7.4	2.9	
Teaching assistantship	11.3	12.4	6.3	8.1	7.1	5.6	45.0	12.4	10.4	17.0	4.9	
Research assistantship, traineeship, and internship	23.6	22.3	36.7	25.2	27.1	32.6	8.8	46.2	14.9	6.6	30.9	
Research assistantship	21.4	19.8	36.7	19.3	27.1	31.5	8.8	45.6	11.4	6.3	30.1	
Traineeship	1.9	2.2	0.0	5.7	0.0	0.0	0.0	0.6	2.6	0.2	0.7	
Internship or residency	0.3	0.3	0.0	0.2	0.0	1.1	0.0	0.0	0.9	0.2	0.0	
Fellowship/scholarship or dissertation grant	24.9	25.2	21.5	38.8	23.5	33.7	16.3	17.2	16.1	22.7	23.5	
Fellowship/scholarship	21.5	21.6	17.7	31.3	21.2	30.3	15.0	14.4	14.5	20.8	21.3	
Dissertation grant	3.4	3.6	3.8	7.5	2.4	3.4	1.3	2.8	1.7	1.8	2.2	
Employer reimbursement or assistance	2.6	1.5	3.8	1.3	2.4	2.2	0.0	1.4	0.9	1.7	9.1	
Foreign	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.7	
Other	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.3	0.2	0.0	0.0	
Not reported	18.5	18.5	19.0	16.2	18.8	13.5	18.8	18.6	21.8	19.2	18.6	

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Earned Doctorates, 2000–2004.

TABLE F-18. Primary source of support for U.S.-citizen and permanent-resident S&E doctorate recipients, by disability status: 2000–2004

(Percent)

Primary source of support	All recipients	No disability	With disability
All recipients (number)	80,408	79,002	1,406
All sources	100.0	100.0	100.0
Personal/family funds	21.5	21.3	37.0
Loans	7.0	6.9	13.9
Savings	1.8	1.7	4.3
Other earnings in graduate school	6.3	6.2	10.2
Other family earnings or savings	6.5	6.4	8.5
Teaching assistantship	15.0	15.0	14.5
Research assistantship, traineeship, and internship	28.7	28.9	18.6
Research assistantship	25.9	26.1	15.6
Traineeship	2.5	2.5	2.1
Internship or residency	0.3	0.3	0.9
Fellowship/scholarship and dissertation grant	26.0	26.0	22.6
Fellowship/scholarship	22.5	22.5	19.8
Dissertation grant	3.5	3.5	2.8
Employer reimbursement or assistance	3.2	3.2	4.3
Foreign	0.2	0.2	0.1
Other	0.3	0.3	0.9
Not reported	5.1	5.1	2.0

NOTE: Respondents are asked if they have a disability and then are asked to mark one or more types of disability (blind/visually impaired, deaf/hard of hearing, physical/orthopedic disability, learning/cognitive disability, vocal/speech disability, or other disability).

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Earned Doctorates, 2000–2004.

TABLE F-19. Location and type of postgraduate activity for U.S.-citizen and permanent-resident S&E doctorate recipients with definite postgraduate plans, by sex: 2004

(Percent distribution)

Location and type of postgraduate activity	Both sexes	Female	Male
All recipients (number)	10,734	4,517	6,217
All locations and types	100.0	100.0	100.0
United States	95.8	96.2	95.4
Academic employment	22.7	25.1	21.0
Industry employment	12.5	8.1	15.7
Postdoctoral study	45.3	47.3	43.8
Other ^a	15.3	15.8	15.0
Abroad	4.1	3.7	4.4
Location unknown	0.1	0.0	0.2

^aIncludes elementary/secondary schools, government, nonprofit, and other or unknown.

NOTES: Definite postgraduate plans are defined as *Am returning to, or continuing in, postdoctoral employment* or *Have signed contract or made definite commitment for other work or study* by doctoral degree recipients who responded to the question, *How definite are your immediate (within the next year) postgraduate plans?*

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Earned Doctorates, 2004.

TABLE F-20. S&E doctoral degrees awarded by leading institutions, by sex: 2000–2004

Academic institution	Doctoral degrees	Academic institution	Doctoral degrees
Female		Male	
All institutions	47,179	All institutions	80,202
Top 50 institutions	23,396	Top 50 institutions	45,089
University of California-Berkeley	946	University of California-Berkeley	1,803
University of Michigan at Ann Arbor	720	Stanford University	1,610
University of Wisconsin-Madison	719	Massachusetts Institute of Technology	1,602
University of California-Los Angeles	687	University of Illinois at Urbana-Champaign	1,580
University of Minnesota-Twin Cities	675	University of Wisconsin-Madison	1,500
University of Texas at Austin	622	University of Michigan at Ann Arbor	1,485
University of California-Davis	617	University of Texas at Austin	1,377
Stanford University	615	Texas A&M University main campus	1,343
Ohio State University main campus	613	University of California-Los Angeles	1,300
Harvard University	611	Pennsylvania State University main campus	1,254
University of Washington-Seattle	599	Purdue University main campus	1,251
University of Illinois at Urbana-Champaign	591	Ohio State University main campus	1,234
Cornell University all campuses	586	University of Minnesota-Twin Cities	1,138
Pennsylvania State University main campus	575	Cornell University all campuses	1,098
Massachusetts Institute of Technology	537	University of Florida	1,090
University of North Carolina at Chapel Hill	535	University of Washington-Seattle	1,074
University of Florida	519	University of Maryland at College Park	1,014
Michigan State University	515	Harvard University	971
University of Maryland at College Park	514	Georgia Institute of Technology main campus	943
Texas A&M University main campus	477	North Carolina State University at Raleigh	879
Purdue University main campus	471	University of California-Davis	878
University of Arizona	469	University of Southern California	862
University of Pennsylvania	466	Michigan State University	831
Rutgers the State University of New Jersey New Brunswick	460	University of Arizona	805
Johns Hopkins University	444	University of California-San Diego	761
North Carolina State University at Raleigh	432	University of Chicago	761
Yale University	426	Columbia University in the City of New York	753
University of Georgia	420	Northwestern University	752
University of Southern California	418	Virginia Polytechnic Institute and State University	726
University of California-San Diego	409	University of Pennsylvania	710
Columbia University in the City of New York	405	Johns Hopkins University	705
Northwestern University	400	Iowa State University	699
University of Colorado at Boulder	379	Rutgers the State University of New Jersey New Brunswick	679
CUNY Graduate School and University Center	371	University of Colorado at Boulder	675
University of Pittsburgh main campus	368	Princeton University	655
New York University	368	Yale University	607
University of Chicago	349	University of North Carolina at Chapel Hill	603
University of Virginia main campus	337	Carnegie Mellon University	582
Indiana University at Bloomington	337	University of California-Santa Barbara	572
Boston University	334	University of Georgia	564
Duke University	327	SUNY at Stony Brook all campuses	564
University of Connecticut	327	University of Pittsburgh main campus	556
University of Massachusetts at Amherst	318	University of Virginia main campus	553
SUNY at Stony Brook all campuses	311	California Institute of Technology	553
University of Kansas main campus	302	Arizona State University main campus	550
Princeton University	301	Indiana University at Bloomington	527
Wayne State University	299	SUNY at Buffalo	521
Arizona State University main campus	296	Duke University	519
Georgia Institute of Technology main campus	292	University of Utah	519
University of California-Santa Barbara	287	University of Massachusetts at Amherst	501
Other institutions	23,783	Other institutions	35,113

NOTE: Institutions with the same number of doctorate recipients are listed alphabetically.

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Earned Doctorates, 2000–2004.

TABLE F-21. S&E doctoral degrees awarded by leading institutions, by race/ethnicity of minority graduates: 2000–2004

Academic institution	Doctoral degrees	Academic institution	Doctoral degrees
Asian/Pacific Islander		Black	
All institutions	33,207	All institutions	4,442
University of Illinois at Urbana-Champaign	772	Howard University	232
University of California-Los Angeles	706	University of Michigan at Ann Arbor	100
Purdue University main campus	700	University of Maryland at College Park	85
University of California-Berkeley	693	Pennsylvania State University main campus	79
Texas A&M University main campus	668	Michigan State University	72
University of Michigan at Ann Arbor	663	University of Florida	69
Stanford University	662	Georgia Institute of Technology main campus	65
University of Texas at Austin	656	Louisiana State University & A&M College	61
Ohio State University main campus	642	Ohio State University main campus	60
University of Wisconsin-Madison	600	Harvard University	59
Pennsylvania State University main campus	558	CUNY Graduate School and University Center	57
University of Southern California	548	North Carolina State University at Raleigh	57
Massachusetts Institute of Technology	499	University of California-Berkeley	57
Cornell University all campuses	463	Purdue University main campus	55
University of Maryland at College Park	453	University of North Carolina at Chapel Hill	55
Georgia Institute of Technology main campus	440	Meharry Medical College	52
Columbia University in the City of New York	433	University of Illinois at Urbana-Champaign	50
University of Minnesota-Twin Cities	429	Wayne State University	49
Rutgers the State University of New Jersey New Brunswick	421	Northwestern University	48
North Carolina State University at Raleigh	400	Temple University	48
Other institutions	21,801	Other institutions	3,032
Hispanic		American Indian/Alaska Native	
All institutions	6,303	All institutions	381
Texas A&M University main campus	169	Oklahoma State University all campuses	13
University of California-Berkeley	146	University of California-Berkeley	11
University of Texas at Austin	143	University of Oklahoma, Norman campus	11
University of Florida	138	University of New Mexico all campuses	8
University of Wisconsin-Madison	132	University of Wisconsin-Madison	8
Cornell University all campuses	126	University of California-Los Angeles	7
University of California-Los Angeles	122	University of Florida	7
University of Puerto Rico Rio Piedras campus	112	Cornell University all campuses	6
Stanford University	111	Texas A&M University main campus	6
University of Illinois at Urbana-Champaign	106	University of Southern California	6
University of California-Davis	102	University of Tennessee at Knoxville	6
University of Arizona	101	University of Texas at Austin	6
University of Michigan at Ann Arbor	90	University of Washington-Seattle	6
Massachusetts Institute of Technology	83	California School of Professional Psychology at San Diego	5
Caribbean Center for Advanced Studies	81	University of California-Davis	5
Purdue University main campus	81	University of Kansas main campus	5
Harvard University	80	University of Michigan at Ann Arbor	5
Ohio State University main campus	77	University of North Dakota all campuses	5
University of Maryland at College Park	77	Other institutions	255
University of Minnesota-Twin Cities	74		
Other institutions	4,152		

NOTE: Institutions with the same number of doctorate recipients are listed alphabetically.

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Earned Doctorates, 2000–2004.

TABLE F-22. S&E doctoral degrees awarded by leading institutions to persons with disabilities: 2000–2004

Academic institution	All disabilities	Blind/ visually impaired	Deaf/hard of hearing	Learning disabilities ^a	Physical/ orthopedic disability	Vocal/ speech disability	Other/more than one	Unspecified
All institutions	1,592	164	210	333	496	44	294	51
Top 53 institutions	857	94	118	187	266	22	147	23
University of California-Berkeley	49	7	3	9	17	0	13	0
University of Wisconsin-Madison	30	3	4	8	10	0	5	0
Texas A&M University	26	2	7	5	8	0	3	1
University of New Mexico	25	2	0	8	10	1	4	0
Pennsylvania State University main campus	24	3	3	7	7	0	4	0
University of Florida	24	3	3	3	10	0	4	1
University of Texas-Austin	24	0	2	4	12	0	6	0
Ohio State University	23	3	0	6	7	2	3	2
University of California-Los Angeles	23	2	3	7	6	0	4	1
Harvard University	21	5	1	4	5	0	6	0
Stanford University	21	2	3	5	7	0	4	0
University of California-Davis	19	1	2	8	5	0	3	0
University of Illinois at Urbana-Champaign	19	1	7	2	4	1	1	3
University of Kentucky	18	2	2	5	2	1	5	1
Virginia Polytechnic Institute and State University	18	1	3	5	8	0	1	0
Arizona State University	17	1	8	1	4	1	2	0
Cornell University all campuses	17	3	2	2	5	1	3	1
Northwestern University	17	3	1	6	3	1	2	1
SUNY-Buffalo	16	2	2	3	9	0	0	0
University of California-Santa Barbara	16	4	3	2	6	0	0	1
University of Michigan-Ann Arbor	16	1	2	2	5	1	5	0
University of Pennsylvania	16	0	5	5	3	1	2	0
Yale University	16	4	2	4	0	0	4	2
Massachusetts Institute of Technology	15	3	2	2	4	2	1	1
Michigan State University	15	3	2	3	4	0	3	0
University of Colorado	15	1	5	1	4	1	3	0
University of Maryland	15	2	4	4	2	0	1	2
University of Arizona	14	1	0	4	5	0	4	0
University of Connecticut	14	2	2	6	2	1	1	0
University of Minnesota-Twin Cities	14	4	2	1	2	1	4	0
George Mason University	13	0	0	2	3	0	7	1
North Carolina State University-Raleigh	13	2	4	2	4	0	1	0
Rutgers the State University of New Jersey New Brunswick	13	3	1	2	6	0	1	0
University of Washington	13	1	3	3	4	0	2	0
CUNY Graduate School and University Center	12	1	0	3	6	0	2	0
Indiana University-Bloomington	12	0	3	3	5	0	1	0
University of California-San Diego	12	2	3	3	2	0	2	0
University of Georgia	12	1	1	4	3	1	2	0
University of Missouri-Columbia	12	0	4	2	4	1	1	0
University of Southern California	12	0	2	6	4	0	0	0
Wayne State University	12	2	0	0	3	1	5	1
California School of Professional Psychology-Alameda	11	0	2	3	3	0	3	0
University of California-Irvine	11	2	0	1	5	0	2	1
Vanderbilt University	11	2	3	1	3	1	1	0
Walden University	11	0	3	1	4	0	3	0
Boston University	10	0	1	5	2	0	2	0
Georgetown University	10	1	1	1	5	0	2	0
Iowa State University	10	1	1	2	6	0	0	0
Texas Tech University	10	1	1	2	5	1	0	0
University of Chicago	10	2	0	1	2	1	2	2
University of Kansas	10	1	0	5	2	1	1	0
University of Oklahoma	10	0	0	0	6	0	4	0
University of Tennessee-Knoxville	10	1	0	3	3	0	2	1
Other institutions	735	70	92	146	230	22	147	28

^a Not included in survey before 2001.

NOTE: Institutions with the same number of doctorate recipients are listed alphabetically.

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Earned Doctorates, 2000–2004.

TABLE G-1. Definite postgraduation plans of U.S.-citizen and permanent-resident S&E doctoral degree recipients, by major field, sex, and location: 2004
(Percent distribution)

Major field and sex	All definite plans	United States					Location unknown
		All U.S. plans	Academic employment	Industry employment	Postdoctoral study	Other	
All fields ^a	100.0	96.5	37.3	8.4	28.9	21.8	3.4
S&E	100.0	95.8	22.7	12.5	45.3	15.3	4.1
Science	100.0	95.7	23.8	9.1	48.1	14.7	4.2
Agricultural sciences	100.0	96.2	21.4	17.0	35.4	22.3	3.8
Biological sciences	100.0	96.4	8.3	4.3	75.3	8.6	3.5
Computer sciences	100.0	95.5	38.0	27.3	19.5	10.7	4.5
Earth, atmospheric, and ocean sciences	100.0	94.9	18.9	10.8	50.5	14.8	5.1
Mathematics and statistics	100.0	91.7	35.8	9.9	36.9	9.1	8.3
Physical sciences	100.0	95.1	10.0	21.2	55.2	8.7	4.6
Astronomy	100.0	91.6	11.6	6.3	68.4	5.3	8.4
Chemistry	100.0	95.7	9.5	26.1	52.6	7.5	4.0
Physics	100.0	94.8	10.7	14.5	57.8	11.8	4.9
Other	100.0	88.9	11.1	0.0	44.4	33.3	11.1
Psychology	100.0	98.2	24.0	6.9	43.8	23.4	1.7
Social sciences	100.0	93.2	54.3	5.3	13.8	19.8	6.6
Engineering	100.0	96.3	15.7	34.4	26.9	19.2	3.5
Aerospace engineering	100.0	98.2	7.1	35.7	26.8	28.6	1.8
Chemical engineering	100.0	92.5	3.5	46.0	32.7	10.2	7.5
Civil engineering	100.0	94.7	28.5	21.2	18.5	26.5	3.3
Electrical engineering	100.0	97.9	18.0	43.0	18.0	18.9	2.1
Industrial engineering	100.0	100.0	44.7	21.3	8.5	25.5	0.0
Materials engineering	100.0	92.3	4.6	38.5	37.7	11.5	7.7
Mechanical engineering	100.0	98.4	16.0	36.2	26.1	20.2	1.6
Other	100.0	97.5	17.6	22.9	34.7	22.3	2.5
Non-S&E	100.0	97.4	56.2	3.2	7.9	30.2	2.5
Female	100.0	97.1	41.1	5.0	27.1	23.8	2.8
S&E	100.0	96.2	25.1	8.1	47.3	15.8	3.7
Science	100.0	96.2	25.3	6.9	48.4	15.6	3.7
Agricultural sciences	100.0	97.3	21.9	11.6	39.0	24.7	2.7
Biological sciences	100.0	96.3	9.7	4.0	75.1	7.6	3.7
Computer sciences	100.0	95.1	49.2	16.4	21.3	8.2	4.9
Earth, atmospheric, and ocean sciences	100.0	93.5	17.6	11.1	53.7	11.1	6.5
Mathematics and statistics	100.0	94.5	45.0	3.7	37.6	8.3	5.5
Physical sciences	100.0	95.9	12.9	20.2	53.7	9.1	4.1
Astronomy	100.0	92.6	18.5	0.0	70.4	3.7	7.4
Chemistry	100.0	97.7	14.1	25.0	49.6	9.0	2.3
Physics	100.0	90.4	3.8	9.6	65.4	11.5	9.6
Other	100.0	83.3	16.7	0.0	50.0	16.7	16.7
Psychology	100.0	98.2	23.9	6.3	44.1	23.9	1.7
Social sciences	100.0	93.9	53.3	5.6	16.1	18.8	6.0
Engineering	100.0	96.3	22.4	24.4	31.4	18.1	3.7
Aerospace engineering	100.0	100.0	0.0	0.0	60.0	40.0	0.0
Chemical engineering	100.0	93.2	6.8	42.4	39.0	5.1	6.8
Civil engineering	100.0	95.3	34.9	23.3	16.3	20.9	4.7
Electrical engineering	100.0	97.6	24.4	22.0	26.8	24.4	2.4
Industrial engineering	100.0	100.0	57.1	7.1	7.1	28.6	0.0
Materials engineering	100.0	91.3	8.7	39.1	30.4	13.0	8.7
Mechanical engineering	100.0	100.0	20.0	40.0	24.0	16.0	0.0
Other	100.0	97.8	25.8	10.1	40.4	21.3	2.2
Non-S&E	100.0	97.8	55.7	2.2	8.8	31.2	2.0

TABLE G-1. Definite postgraduation plans of U.S.-citizen and permanent-resident S&E doctoral degree recipients, by major field, sex, and location: 2004
(Percent distribution)

Major field and sex	All definite plans	United States					Location unknown
		All U.S. plans	Academic employment	Industry employment	Postdoctoral study	Other	
Male	100.0	95.9	33.6	11.8	30.8	19.8	4.0
S&E	100.0	95.4	21.0	15.7	43.8	15.0	4.4
Science	100.0	95.2	22.6	10.8	47.9	13.9	4.6
Agricultural sciences	100.0	95.4	21.1	20.6	33.0	20.6	4.6
Biological sciences	100.0	96.5	7.1	4.5	75.6	9.4	3.3
Computer sciences	100.0	95.5	35.2	30.0	19.0	11.3	4.5
Earth, atmospheric, and ocean sciences	100.0	95.8	19.6	10.6	48.7	16.9	4.2
Mathematics and statistics	100.0	90.6	31.9	12.6	36.6	9.4	9.4
Physical sciences	100.0	94.8	8.9	21.6	55.7	8.6	4.8
Astronomy	100.0	91.2	8.8	8.8	67.6	5.9	8.8
Chemistry	100.0	94.9	7.4	26.6	54.0	6.9	4.8
Physics	100.0	95.5	11.8	15.3	56.5	11.8	4.2
Other	100.0	100.0	0.0	0.0	33.3	66.7	0.0
Psychology	100.0	98.3	24.4	8.3	43.2	22.4	1.7
Social sciences	100.0	92.6	55.1	5.0	11.8	20.7	7.2
Engineering	100.0	96.3	14.0	37.0	25.7	19.5	3.5
Aerospace engineering	100.0	98.0	7.8	39.2	23.5	27.5	2.0
Chemical engineering	100.0	92.2	2.4	47.3	30.5	12.0	7.8
Civil engineering	100.0	94.4	25.9	20.4	19.4	28.7	2.8
Electrical engineering	100.0	97.9	17.1	46.0	16.7	18.1	2.1
Industrial engineering	100.0	100.0	39.4	27.3	9.1	24.2	0.0
Materials engineering	100.0	92.5	3.7	38.3	39.3	11.2	7.5
Mechanical engineering	100.0	98.2	15.3	35.6	26.4	20.9	1.8
Other	100.0	97.4	14.5	27.8	32.5	22.6	2.6
Non-S&E	100.0	96.8	56.9	4.7	6.6	28.6	3.1

S&E = Science and engineering.

^a Includes those with unknown gender.

NOTES: Definite postgraduate plans are defined as *Am returning to, or continuing in, postdoctoral employment* or *Have signed contract or made definite commitment for other work or study* by doctoral degree recipients who responded to the question, *How definite are your immediate (within the next year) postgraduate plans?* "Other" includes elementary/secondary schools, government, nonprofit, and other/unknown.

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Earned Doctorates, 2004.

TABLE G-2. S&E postdoctoral fellows, by field and sex: 1997–2004

Field and sex	1997	1998	1999	2000	2001	2002	2003	2004
	Number							
All fields								
S&E	27,264	27,876	28,980	30,224	30,194	31,904	33,456	32,886
Sciences	24,293	25,023	25,784	26,911	27,028	28,336	29,642	29,017
Agricultural sciences	724	695	750	822	835	945	1,052	941
Biological sciences	15,082	15,761	16,097	16,734	17,029	17,644	18,565	17,894
Anatomy	464	454	497	428	413	423	464	470
Biochemistry	2,539	2,532	2,485	2,469	2,558	2,752	2,620	2,426
Biology	1,599	1,813	1,892	1,937	1,962	2,047	2,080	1,956
Biometry/epidemiology	180	175	181	125	152	231	244	238
Biophysics	240	239	266	164	187	233	195	218
Botany	574	555	559	518	553	561	547	532
Cell/molecular biology	1,897	2,204	2,237	2,241	2,139	2,292	2,340	2,298
Ecology	133	115	123	152	161	186	189	170
Entomology/parasitology	216	181	178	197	223	234	258	290
Genetics	737	732	796	795	883	926	1,037	941
Microbiology, immunology, and virology	1,990	2,089	2,158	2,253	2,187	2,434	2,319	2,066
Nutrition	209	234	238	224	245	225	243	274
Pathology	1,377	1,332	1,321	1,757	1,803	1,837	1,943	1,774
Pharmacology	1,369	1,470	1,512	1,461	1,392	1,386	1,517	1,528
Physiology	1,118	1,138	1,132	1,140	1,193	1,165	1,232	1,194
Zoology	103	135	138	104	88	92	82	111
Other	337	363	384	769	890	620	1,255	1,408
Computer sciences	322	374	334	344	338	361	360	384
Earth, atmospheric, and ocean sciences	942	902	925	1,155	1,036	1,114	1,166	1,252
Atmospheric	98	85	107	94	87	79	94	119
Earth	494	468	479	514	471	444	463	506
Ocean	258	249	235	246	218	270	249	299
Other	92	100	104	301	260	321	360	328
Mathematics and statistics	308	279	351	385	353	393	447	466
Mathematics/applied mathematics	284	255	321	357	329	365	407	420
Statistics	24	24	30	28	24	28	40	46
Physical sciences	5,968	6,004	6,157	6,270	6,218	6,610	6,694	6,810
Astronomy	319	360	375	315	311	330	319	367
Chemistry	3,747	3,741	3,836	3,877	3,861	3,982	4,032	4,108
Physics	1,803	1,863	1,862	1,948	1,910	2,154	2,182	2,119
Other	99	40	84	130	136	144	161	216
Psychology	586	617	716	730	809	815	956	913
Clinical	45	51	70	73	81	68	72	86
General	361	393	412	411	498	532	630	599
Nonclinical	180	173	234	246	230	215	254	228
Social sciences	361	391	454	471	410	454	402	357
Agricultural economics	50	38	43	41	35	21	25	34
Anthropology (cultural and social)	59	62	87	73	56	66	57	56
Economics	19	29	31	32	23	29	36	20
Geography	12	18	30	34	36	30	29	29
History and philosophy of science	28	23	10	14	9	13	14	6
Linguistics	19	18	15	19	17	22	29	29
Political science and public administration	31	64	70	50	52	61	51	43
Sociology	102	79	104	102	88	80	74	57
Other	41	60	64	106	94	132	87	83
Engineering	2,971	2,853	3,196	3,313	3,166	3,568	3,814	3,869
Aerospace	125	133	128	111	128	140	141	141
Agricultural	58	56	62	56	58	64	80	71
Biomedical	158	180	242	220	264	286	390	424
Chemical	636	613	671	703	575	743	672	688
Civil	248	225	299	295	280	358	319	330
Electrical	508	488	548	525	435	612	646	641
Engineering science/physics	115	110	122	163	162	169	180	180
Industrial/manufacturing	28	30	27	48	20	42	45	50

TABLE G-2. S&E postdoctoral fellows, by field and sex: 1997–2004

Field and sex	1997	1998	1999	2000	2001	2002	2003	2004
Mechanical	440	434	476	480	501	441	543	514
Metallurgical/materials	465	404	421	507	479	507	539	545
Mining	11	10	6	8	14	10	12	9
Nuclear	33	19	30	40	78	28	52	67
Petroleum	21	14	19	20	17	15	17	14
Other	125	137	145	137	155	153	178	195
Female								
S&E	7,894	8,326	8,708	8,928	9,242	10,119	10,734	10,444
Sciences	7,548	7,943	8,239	8,455	8,758	9,518	10,131	9,758
Agricultural sciences	200	189	205	239	252	312	363	322
Biological sciences	5,564	5,906	6,070	6,237	6,441	6,869	7,308	6,969
Anatomy	169	175	191	146	150	181	192	207
Biochemistry	876	891	888	865	909	1,018	987	894
Biology	569	670	693	717	708	778	795	679
Biometry/epidemiology	91	87	98	72	84	104	130	127
Biophysics	65	65	64	45	54	74	63	74
Botany	159	154	170	155	174	205	206	198
Cell/molecular biology	767	858	857	878	843	885	920	886
Ecology	43	37	37	47	54	65	66	57
Entomology/parasitology	53	48	47	53	57	60	67	85
Genetics	284	317	310	307	359	381	432	388
Microbiology, immunology, and virology	809	888	937	945	919	1,057	995	838
Nutrition	72	98	83	94	108	109	118	123
Pathology	540	510	502	653	674	735	750	679
Pharmacology	527	558	590	556	550	545	604	611
Physiology	383	368	405	413	443	411	454	473
Zoology	36	52	63	29	25	31	27	47
Other	121	130	135	262	330	230	502	603
Computer sciences	46	62	58	40	48	51	59	79
Earth, atmospheric, ocean sciences	221	228	219	292	284	327	348	364
Atmospheric	20	17	20	21	23	28	24	29
Earth	111	117	109	114	121	126	136	138
Ocean	75	77	70	81	78	96	85	110
Other	15	17	20	76	62	77	103	87
Mathematics and statistics	40	38	73	51	64	76	86	105
Mathematics/applied mathematics	38	34	66	44	57	66	75	93
Statistics	2	4	7	7	7	10	11	12
Physical sciences	1,046	1,052	1,045	1,044	1,083	1,236	1,284	1,301
Astronomy	51	70	58	49	55	66	70	69
Chemistry	760	780	778	773	809	884	916	908
Physics	206	195	199	208	199	266	276	292
Other	29	7	10	14	20	20	22	32
Psychology	287	316	373	357	413	426	482	461
Clinical	30	33	54	51	60	49	46	59
General	167	191	194	180	243	264	321	297
Nonclinical	90	92	125	126	110	113	115	105
Social sciences	144	152	196	195	173	221	201	157
Agricultural economics	11	6	10	11	9	4	6	7
Anthropology (cultural and social)	24	27	40	35	23	38	31	19
Economics	2	5	5	8	6	11	13	8
Geography	5	6	11	8	8	12	10	10
History and philosophy of science	10	7	5	6	3	5	4	3
Linguistics	11	12	9	7	10	12	13	12
Political science and public administration	11	23	22	15	14	17	20	24
Sociology	50	42	63	53	48	52	51	37
Other	20	24	31	52	52	70	53	37

TABLE G-2. S&E postdoctoral fellows, by field and sex: 1997–2004

Field and sex	1997	1998	1999	2000	2001	2002	2003	2004
Engineering	346	383	469	473	484	601	603	686
Aerospace	11	8	15	10	14	17	15	16
Agricultural	4	6	8	7	6	10	13	11
Biomedical	35	39	64	66	73	81	109	128
Chemical	93	117	119	116	109	156	134	142
Civil	39	35	55	55	50	68	59	82
Electrical	39	49	67	51	48	55	77	85
Engineering science/physics	21	18	17	26	23	29	31	30
Industrial/manufacturing	1	2	5	8	3	14	9	12
Mechanical	26	30	34	38	43	46	39	58
Metallurgical/materials	62	65	69	76	79	86	69	88
Mining	0	0	0	1	1	0	1	0
Nuclear	3	2	2	3	5	1	7	10
Petroleum	1	2	0	1	2	1	2	1
Other	11	10	14	15	28	37	38	23
Male								
S&E	19,370	19,550	20,272	21,296	20,952	21,785	22,722	22,442
Sciences	16,745	17,080	17,545	18,456	18,270	18,818	19,511	19,259
Agricultural sciences	524	506	545	583	583	633	689	619
Biological sciences	9,518	9,855	10,027	10,497	10,588	10,775	11,257	10,925
Anatomy	295	279	306	282	263	242	272	263
Biochemistry	1,663	1,641	1,597	1,604	1,649	1,734	1,633	1,532
Biology	1,030	1,143	1,199	1,220	1,254	1,269	1,285	1,277
Biometry/epidemiology	89	88	83	53	68	127	114	111
Biophysics	175	174	202	119	133	159	132	144
Botany	415	401	389	363	379	356	341	334
Cell/molecular biology	1,130	1,346	1,380	1,363	1,296	1,407	1,420	1,412
Ecology	90	78	86	105	107	121	123	113
Entomology/parasitology	163	133	131	144	166	174	191	205
Genetics	453	415	486	488	524	545	605	553
Microbiology, immunology, and virology	1,181	1,201	1,221	1,308	1,268	1,377	1,324	1,228
Nutrition	137	136	155	130	137	116	125	151
Pathology	837	822	819	1,104	1,129	1,102	1,193	1,095
Pharmacology	842	912	922	905	842	841	913	917
Physiology	735	770	727	727	750	754	778	721
Zoology	67	83	75	75	63	61	55	64
Other	216	233	249	507	560	390	753	805
Computer sciences	276	312	276	304	290	310	301	305
Earth, atmospheric, and ocean sciences	721	674	706	863	752	787	818	888
Atmospheric	78	68	87	73	64	51	70	90
Earth	383	351	370	400	350	318	327	368
Ocean	183	172	165	165	140	174	164	189
Other	77	83	84	225	198	244	257	241
Mathematics and statistics	268	241	278	334	289	317	361	361
Mathematics/applied mathematics	246	221	255	313	272	299	332	327
Statistics	22	20	23	21	17	18	29	34
Physical sciences	4,922	4,952	5,112	5,226	5,135	5,374	5,410	5,509
Astronomy	268	290	317	266	256	264	249	298
Chemistry	2,987	2,961	3,058	3,104	3,052	3,098	3,116	3,200
Physics	1,597	1,668	1,663	1,740	1,711	1,888	1,906	1,827
Other	70	33	74	116	116	124	139	184
Psychology	299	301	343	373	396	389	474	452
Clinical	15	18	16	22	21	19	26	27
General	194	202	218	231	255	268	309	302
Nonclinical	90	81	109	120	120	102	139	123
Social sciences	217	239	258	276	237	233	201	200
Agricultural economics	39	32	33	30	26	17	19	27
Anthropology (cultural and social)	35	35	47	38	33	28	26	37
Economics	17	24	26	24	17	18	23	12

TABLE G-2. S&E postdoctoral fellows, by field and sex: 1997–2004

Field and sex	1997	1998	1999	2000	2001	2002	2003	2004
Geography	7	12	19	26	28	18	19	19
History and philosophy of science	18	16	5	8	6	8	10	3
Linguistics	8	6	6	12	7	10	16	17
Political science and public administration	20	41	48	35	38	44	31	19
Sociology	52	37	41	49	40	28	23	20
Other	21	36	33	54	42	62	34	46
Engineering	2,625	2,470	2,727	2,840	2,682	2,967	3,211	3,183
Aerospace	114	125	113	101	114	123	126	125
Agricultural	54	50	54	49	52	54	67	60
Biomedical	123	141	178	154	191	205	281	296
Chemical	543	496	552	587	466	587	538	546
Civil	209	190	244	240	230	290	260	248
Electrical	469	439	481	474	387	557	569	556
Engineering science/physics	94	92	105	137	139	140	149	150
Industrial/manufacturing	27	28	22	40	17	28	36	38
Mechanical	414	404	442	442	458	395	504	456
Metallurgical/materials	403	339	352	431	400	421	470	457
Mining	11	10	6	7	13	10	11	9
Nuclear	30	17	28	37	73	27	45	57
Petroleum	20	12	19	19	15	14	15	13
Other	114	127	131	122	127	116	140	172
Percent								
Female								
S&E	29.0	29.9	30.0	29.5	30.6	31.7	32.1	31.8
Sciences	31.1	31.7	32.0	31.4	32.4	33.6	34.2	33.6
Agricultural sciences	27.6	27.2	27.3	29.1	30.2	33.0	34.5	34.2
Biological sciences	36.9	37.5	37.7	37.3	37.8	38.9	39.4	38.9
Anatomy	36.4	38.5	38.4	34.1	36.3	42.8	41.4	44.0
Biochemistry	34.5	35.2	35.7	35.0	35.5	37.0	37.7	36.9
Biology	35.6	37.0	36.6	37.0	36.1	38.0	38.2	34.7
Biometry/epidemiology	50.6	49.7	54.1	57.6	55.3	45.0	53.3	53.4
Biophysics	27.1	27.2	24.1	27.4	28.9	31.8	32.3	33.9
Botany	27.7	27.7	30.4	29.9	31.5	36.5	37.7	37.2
Cell/molecular biology	40.4	38.9	38.3	39.2	39.4	38.6	39.3	38.6
Ecology	32.3	32.2	30.1	30.9	33.5	34.9	34.9	33.5
Entomology/parasitology	24.5	26.5	26.4	26.9	25.6	25.6	26.0	29.3
Genetics	38.5	43.3	38.9	38.6	40.7	41.1	41.7	41.2
Microbiology, immunology, and virology	40.7	42.5	43.4	41.9	42.0	43.4	42.9	40.6
Nutrition	34.4	41.9	34.9	42.0	44.1	48.4	48.6	44.9
Pathology	39.2	38.3	38.0	37.2	37.4	40.0	38.6	38.3
Pharmacology	38.5	38.0	39.0	38.1	39.5	39.3	39.8	40.0
Physiology	34.3	32.3	35.8	36.2	37.1	35.3	36.9	39.6
Zoology	35.0	38.5	45.7	27.9	28.4	33.7	32.9	42.3
Other	35.9	35.8	35.2	34.1	37.1	37.1	40.0	42.8
Computer sciences	14.3	16.6	17.4	11.6	14.2	14.1	16.4	20.6
Earth, atmospheric, and ocean sciences	23.5	25.3	23.7	25.3	27.4	29.4	29.8	29.1
Atmospheric	20.4	20.0	18.7	22.3	26.4	35.4	25.5	24.4
Earth	22.5	25.0	22.8	22.2	25.7	28.4	29.4	27.3
Ocean	29.1	30.9	29.8	32.9	35.8	35.6	34.1	36.8
Other	16.3	17.0	19.2	25.2	23.8	24.0	28.6	26.5
Mathematics and statistics	13.0	13.6	20.8	13.2	18.1	19.3	19.2	22.5
Mathematics/applied mathematics	13.4	13.3	20.6	12.3	17.3	18.1	18.4	22.1
Statistics	8.3	16.7	23.3	25.0	29.2	35.7	27.5	26.1
Physical sciences	17.5	17.5	17.0	16.7	17.4	18.7	19.2	19.1
Astronomy	16.0	19.4	15.5	15.6	17.7	20.0	21.9	18.8
Chemistry	20.3	20.9	20.3	19.9	21.0	22.2	22.7	22.1
Physics	11.4	10.5	10.7	10.7	10.4	12.3	12.6	13.8
Other	29.3	17.5	11.9	10.8	14.7	13.9	13.7	14.8

TABLE G-2. S&E postdoctoral fellows, by field and sex: 1997–2004

Field and sex	1997	1998	1999	2000	2001	2002	2003	2004
Psychology	49.0	51.2	52.1	48.9	51.1	52.3	50.4	50.5
Clinical	66.7	64.7	77.1	69.9	74.1	72.1	63.9	68.6
General	46.3	48.6	47.1	43.8	48.8	49.6	51.0	49.6
Nonclinical	50.0	53.2	53.4	51.2	47.8	52.6	45.3	46.1
Social sciences	39.9	38.9	43.2	41.4	42.2	48.7	50.0	44.0
Agricultural economics	22.0	15.8	23.3	26.8	25.7	19.0	24.0	20.6
Anthropology (cultural and social)	40.7	43.5	46.0	47.9	41.1	57.6	54.4	33.9
Economics	10.5	17.2	16.1	25.0	26.1	37.9	36.1	40.0
Geography	41.7	33.3	36.7	23.5	22.2	40.0	34.5	34.5
History and philosophy of science	35.7	30.4	50.0	42.9	33.3	38.5	28.6	50.0
Linguistics	57.9	66.7	60.0	36.8	58.8	54.5	44.8	41.4
Political science and public administration	35.5	35.9	31.4	30.0	26.9	27.9	39.2	55.8
Sociology	49.0	53.2	60.6	52.0	54.5	65.0	68.9	64.9
Other	48.8	40.0	48.4	49.1	55.3	53.0	60.9	44.6
Engineering	11.6	13.4	14.7	14.3	15.3	16.8	15.8	17.7
Aerospace	8.8	6.0	11.7	9.0	10.9	12.1	10.6	11.3
Agricultural	6.9	10.7	12.9	12.5	10.3	15.6	16.3	15.5
Biomedical	22.2	21.7	26.4	30.0	27.7	28.3	27.9	30.2
Chemical	14.6	19.1	17.7	16.5	19.0	21.0	19.9	20.6
Civil	15.7	15.6	18.4	18.6	17.9	19.0	18.5	24.8
Electrical	7.7	10.0	12.2	9.7	11.0	9.0	11.9	13.3
Engineering science/physics	18.3	16.4	13.9	16.0	14.2	17.2	17.2	16.7
Industrial/manufacturing	3.6	6.7	18.5	16.7	15.0	33.3	20.0	24.0
Mechanical	5.9	6.9	7.1	7.9	8.6	10.4	7.2	11.3
Metallurgical/materials	13.3	16.1	16.4	15.0	16.5	17.0	12.8	16.1
Mining	0.0	0.0	0.0	12.5	7.1	0.0	8.3	0.0
Nuclear	9.1	10.5	6.7	7.5	6.4	3.6	13.5	14.9
Petroleum	4.8	14.3	0.0	5.0	11.8	6.7	11.8	7.1
Other	8.8	7.3	9.7	10.9	18.1	24.2	21.3	11.8

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering, 1997–2004.

TABLE G-3. Location and type of postgraduate activity for U.S.-citizen and permanent-resident S&E doctoral degree recipients with definite postgraduate plans, by race/ethnicity: 2004

(Percent distribution)

Location and type of activity	All recipients	White	Asian ^a	Black	Hispanic	American Indian/ Alaska Native	Other/ unknown race/ ethnicity ^b
All doctoral degree recipients with definite plans (number)	10,734	8,436	959	457	479	40	363
All doctoral degree recipients with definite plans	100.0	100.0	100.0	100.0	100.0	100.0	100.0
United States	95.8	95.6	94.8	99.3	97.3	97.5	95.6
Academic employment	22.7	23.6	13.9	26.0	21.9	22.5	22.3
Industry employment	12.5	11.6	21.5	8.3	12.1	10.0	15.7
Postdoctoral study	45.3	45.2	48.0	41.1	49.1	27.5	41.3
Other	15.3	15.2	11.5	23.9	14.2	37.5	16.3
Abroad	4.1	4.3	4.8	0.7	2.5	2.5	4.1
Location unknown	0.1	0.1	0.4	0.0	0.2	0.0	0.3

S&E = Science and engineering.

^a Excludes Native Hawaiians/other Pacific Islanders per revised OMB guidelines.

^b This category includes Native Hawaiians/other Pacific Islanders and respondents choosing multiple races (excluding those selecting an Hispanic ethnicity).

NOTES: Definite postgraduate plans are defined as *Am returning to, or continuing in, postdoctoral employment* or *Have signed contract or made definite commitment for other work or study* by doctoral degree recipients who responded to the question, *How definite are your immediate (within the next year) postgraduate plans?* "Other" includes elementary/secondary schools, government, nonprofit, and other/unknown.

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Earned Doctorates, 2004.

TABLE G-4. Location and type of postgraduate activity for U.S.-citizen and permanent-resident S&E doctoral degree

recipients with definite postgraduate plans, by disability status: 2004

(Percent distribution)

Location and type of activity	All recipients	No disability	With disability
All doctoral degree recipients with definite plans (number)	10,734	10,579	155
All doctoral degree recipients with definite plans	100.0	100.0	100.0
United States	95.8	95.7	97.4
Academic employment	22.7	22.6	32.3
Industry employment	12.5	12.6	6.5
Postdoctoral study	45.3	45.4	36.8
Other	15.3	15.2	21.9
Abroad	4.1	4.1	2.6
Location unknown	0.1	0.1	0.0

S&E = Science and engineering.

NOTES: Definite postgraduate plans are defined as *Am returning to, or continuing in, postdoctoral employment* or *Have signed contract or made definite commitment for other work or study* by doctoral degree recipients who responded to the question, *How definite are your immediate (within the next year) postgraduate plans?* "Other" includes elementary/secondary schools, government, nonprofit, and other/unknown.

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Earned Doctorates, 2004.

TABLE H-1. Employed persons 16 years and older, by detailed occupation: Selected years, 1984–2004 annual averages
(Thousands)

Occupation	1984	1986	1988	1990	1992	1994	1996	1998	2000	2002	2004
All occupations	105,005	109,597	114,968	118,793	118,492	123,060	126,708	131,463	135,208	136,485	139,252
Managers and professionals	24,858	26,554	29,190	30,602	31,085	33,847	36,497	38,937	40,887	42,482	45,445
Executives, administrators, and managers	11,571	12,642	14,216	14,802	14,722	16,312	17,746	19,054	19,774	20,561	20,235
Professional specialty	13,793	14,460	15,544	16,400	16,916	18,085	19,313	20,496	21,812	22,526	25,210
Engineers, architects, and surveyors	1,758	1,906	1,971	2,038	1,908	2,030	2,140	2,224	2,326	2,249	2,760
Architect	107	132	143	142	137	141	160	158	215	197	207
Engineer	1,627	1,749	1,805	1,868	1,754	1,866	1,960	2,052	2,093	2,028	1,819
Aerospace engineer	80	93	115	110	88	75	80	86	78	90	113
Chemical engineer	56	59	65	70	71	56	95	69	85	77	63
Civil engineer	223	233	218	235	217	240	243	296	288	267	293
Computer hardware engineer	na	96									
Electrical and electronic engineer	491	550	573	587	530	556	601	629	725	677	343
Industrial engineer	192	203	221	204	204	245	257	262	244	235	177
Mechanical engineer	268	287	297	316	304	341	350	335	342	301	311
Other engineer	317	324	316	346	340	353	334	375	331	381	193
Surveyors and mappers	S	S	S	S	S	S	S	S	S	S	S
Health assessment and treating occupations	1,929	2,026	2,154	2,313	2,511	2,708	2,812	2,898	2,966	3,267	3,515
Audiologist	na	S									
Chiropractor	na	73									
Dietitian	70	73	74	83	90	86	105	90	97	74	84
Pharmacist	162	162	168	171	198	182	184	180	208	231	233
Physicians' assistant	S	S	54	67	S	53	63	68	72	89	70
Registered nurse	1,402	1,488	1,559	1,667	1,799	1,956	1,986	2,032	2,111	2,311	2,464
Therapist	251	257	298	325	381	430	474	528	478	562	574
Occupational therapist	S	S	S	S	S	50	64	71	55	78	84
Physical therapist	68	56	82	92	105	106	118	134	144	167	173
Radiation therapist	na	14									
Recreational therapist	na	18									
Respiratory therapist	67	73	65	63	77	98	96	103	78	97	103
Speech therapist	51	61	66	63	78	92	97	105	102	117	93
Other therapist	S	S	57	71	74	84	99	114	99	102	89
Health diagnosing occupations	775	728	818	870	913	932	960	1,083	1,038	1,176	1,116
Dentist	138	132	152	160	161	148	137	155	168	180	167
Optometrist	S	S	S	S	S	S	S	S	S	S	S
Physician	520	489	541	577	614	628	667	740	719	825	830
Podiatrist	S	S	S	S	S	S	S	S	S	S	S
Veterinarian	S	S	S	57	S	61	54	58	55	S	58
Other	S	S	S	S	59	55	54	73	57	73	S
Mathematical and computer scientists	1,008	1,180	1,302	1,472	1,491	1,735	1,906	2,360	2,773	2,635	3,140
Actuary	S	S	S	S	S	S	S	S	S	S	S
Computer systems analysts and scientists	310	385	479	609	695	916	1,093	1,471	1,797	1,742	700
Computer programmer	507	549	570	600	553	549	561	613	699	605	564
Computer software engineer	na	813									
Computer support specialist	na	325									
Database administrator	na	94									
Network and computer systems administrators	na	190									
Network systems and data communications analysts	na	312									
Mathematician	na	S									
Operations and systems researchers and analysts	140	195	210	213	192	222	209	212	227	238	90
Statistician	S	S	S	S	S	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S	S	S
Natural scientist	360	384	395	402	461	535	536	519	566	545	655
Agricultural and food scientists	S	S	S	S	S	S	S	S	53	51	S
Atmospheric and space scientists	S	S	S	S	S	S	S	S	S	S	S
Biological and life scientists	60	65	75	75	96	120	116	104	114	119	123
Chemist, except biochemist	101	123	125	126	121	144	149	133	153	130	141

TABLE H-1. Employed persons 16 years and older, by detailed occupation: Selected years, 1984–2004 annual averages
(Thousands)

Occupation	1984	1986	1988	1990	1992	1994	1996	1998	2000	2002	2004
Forestry and conservation scientists	S	S	S	S	S	S	S	S	S	S	S
Geologists and geodesists	58	S	50	52	51	57	S	63	S	S	86
Medical scientist	S	S	S	S	67	62	73	83	84	89	93
Physicists and astronomers	S	S	S	S	S	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	55	S	111
Social scientists and urban planners	278	312	343	363	386	440	438	430	450	457	417
Economist	110	111	116	114	122	106	148	137	139	123	25
Market and survey researchers	na	124									
Psychologist	137	165	196	209	222	280	245	232	265	277	185
Sociologist	S	S	S	S	S	S	S	S	S	S	S
Urban planner	S	S	S	S	S	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S	S	S
Teachers, except postsecondary	3,441	3,558	3,774	3,973	4,203	4,331	4,724	4,962	5,353	5,652	5,438
Elementary school	1,322	1,340	1,424	1,496	1,634	1,634	1,846	1,951	2,177	2,341	2,580
Prekindergarten and kindergarten	330	359	393	457	484	496	543	586	626	647	656
Secondary school	1,203	1,195	1,187	1,199	1,164	1,197	1,228	1,225	1,319	1,289	1,151
Special education	182	216	246	269	267	308	340	381	362	374	384
Other	404	448	524	552	654	696	767	819	869	1,001	667
Teachers, postsecondary (college and university)	619	639	700	768	740	838	889	919	961	1,015	1,176
Other professional	3,625	3,727	4,087	4,201	4,303	4,536	4,908	5,101	5,379	5,530	6,993
Technicians (engineering, health, and science)	2,172	2,269	2,372	2,537	2,692	2,772	2,769	2,988	2,996	3,150	3,087
Engineering and related technologists and technicians	860	937	930	990	926	916	919	970	1,002	980	702
Drafter	305	283	290	285	256	239	233	228	219	247	206
Electrical and electronic technicians	273	328	322	357	332	316	361	431	468	433	na
Industrial engineering technician	S	S	S	S	S	S	S	S	S	S	na
Mechanical engineering technician	S	S	S	S	S	S	S	S	S	S	na
Surveying and mapping technicians	60	80	78	75	73	68	73	71	79	65	80
Other engineering technician	200	229	224	246	247	270	230	212	214	209	416
Health technologists and technicians	1,112	1,124	1,226	1,304	1,524	1,590	1,605	1,733	1,724	1,879	2,092
Clinical laboratory technologists and technicians	281	285	272	298	304	341	376	359	342	384	333
Dental hygienist	62	59	78	87	73	97	94	112	112	133	130
Diagnostic related technologists and technicians	na	284									
Emergency medical technicians and paramedics	na	139									
Health diagnosing and treating practitioner support technicians	na	397									
Health record technologists and technicians	S	S	59	69	57	S	S	S	S	S	91
Licensed practical nurse	416	417	423	441	452	397	395	381	374	382	517
Opticians, dispensing	na	S									
Radiologic technician	110	113	133	122	146	154	135	170	161	182	na
Other health technician	204	202	262	286	491	569	588	694	719	777	155
Science technician	200	208	216	243	242	266	245	285	270	291	293
Agricultural and food science technicians	na	S									
Biological technician	55	55	55	69	80	89	79	108	108	131	S
Chemical technician	72	78	81	85	77	77	78	75	71	64	84
Geological and petroleum technician	na	S									
Nuclear technician	na	S									
Other science technician	73	74	80	89	84	100	87	102	91	96	150
Other occupations	77,975	80,774	83,406	85,654	84,715	86,441	87,442	89,538	91,325	90,853	90,720

na = not applicable; not an occupation category. S = suppressed because fewer than 50,000 weighted cases.

NOTES: Differences in estimates of scientists and engineers in the tables in this report reflect different data sources. Data from the Current Population Survey cover employed persons 16 years and older regardless of degree status. Data based on the SESTAT surveys cover persons with bachelor's or higher degrees who were either educated as or working as scientists or engineers. In 2001, the Current Population Survey taxonomy for occupations was revised, thus data for 2002 and 2004 may not be comparable to data for previous years. Data for 2001 through 2004 reflect weights calculated on the basis of the 2000 decennial census; data for 1994 through 2000 reflect weights based on the 1990 decennial census. Detail may not add to total because of rounding.

SOURCE: Bureau of Labor Statistics, Current Population Survey, 1984–2004.

TABLE H-2. Employed females 16 years and older, by detailed occupation: Selected years, 1984–2004 annual averages
(Thousands)

Occupation	1984	1986	1988	1990	1992	1994	1996	1998	2000	2002	2004
All occupations	45,915	48,706	51,696	53,689	54,052	56,610	58,501	60,771	62,915	63,582	64,728
Managers and professionals	10,508	11,712	13,233	14,218	14,881	16,425	17,927	19,245	20,530	21,600	22,496
Executives, administrators, and managers	3,889	4,653	5,590	5,931	6,110	7,014	7,767	8,469	8,960	9,446	8,517
Professional specialty	6,619	7,059	7,643	8,287	8,771	9,411	10,160	10,776	11,570	12,154	13,979
Engineers, architects, and surveyors	113	119	153	177	172	181	197	257	258	261	380
Architect	S	S	S	S	S	S	S	S	51	S	50
Engineer	101	105	132	149	149	155	167	228	207	219	186
Aerospace engineer	S	S	S	S	S	S	S	S	S	S	S
Chemical engineer	S	S	S	S	S	S	S	S	S	S	S
Civil engineer	S	S	S	S	S	S	S	S	S	S	S
Computer hardware engineer	na	S									
Electrical and electronic engineer	S	S	S	51	S	S	S	57	71	70	S
Industrial engineer	S	S	S	S	S	S	S	S	S	S	S
Mechanical engineer	S	S	S	S	S	S	S	S	S	S	S
Other engineer	S	S	S	S	S	S	S	S	S	S	S
Surveyors and mappers	S	S	S	S	S	S	S	S	S	S	S
Health assessment and treating occupations	1,668	1,728	1,829	1,992	2,177	2,333	2,409	2,470	2,541	2,822	2,957
Audiologist	na	S									
Chiropractor	na	S									
Dietitian	67	68	64	79	80	79	95	78	87	66	75
Pharmacist	S	51	54	64	75	70	78	79	97	120	110
Physicians' assistant	S	S	S	S	S	S	S	S	S	53	S
Registered nurse	1,345	1,403	1,475	1,575	1,695	1,835	1,853	1,879	1,959	2,147	2,271
Therapist	193	191	218	248	302	320	347	398	357	436	427
Occupational therapist	S	S	S	S	S	S	55	59	50	70	78
Physical therapist	52	S	61	68	80	70	73	97	88	117	113
Radiation therapist	na	S									
Recreational therapist	na	S									
Respiratory therapist	S	S	S	S	52	57	56	63	S	57	56
Speech therapist	S	56	59	55	72	87	91	97	95	111	88
Other therapist	S	S	S	52	56	62	73	81	75	81	69
Health diagnosing occupations	104	109	149	155	167	200	245	285	281	344	329
Dentist	S	S	S	S	S	S	S	S	S	S	S
Optometrist	S	S	S	S	S	S	S	S	S	S	S
Physician	83	86	108	111	126	140	176	197	201	253	244
Podiatrist	S	S	S	S	S	S	S	S	S	S	S
Veterinarian	S	S	S	S	S	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S	S	S
Mathematical and computer scientists	333	415	427	534	497	560	585	679	837	780	848
Actuary	S	S	S	S	S	S	S	S	S	S	S
Computer systems analysts and scientists	93	133	141	210	205	287	307	396	525	484	206
Computer programmer	179	187	183	216	183	161	173	174	185	155	151
Computer software engineer	na	204									
Computer support specialist	na	97									
Database administrator	na	S									
Network and computer systems administrators	na	S									
Network systems and data communications analysts	na	68									
Mathematician	na	S									
Operations and systems researchers and analysts	S	77	83	88	87	92	89	89	103	116	S
Statistician	S	S	S	S	S	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S	S	S
Natural scientist	72	86	95	105	125	166	157	161	190	192	234
Agricultural and food scientists	S	S	S	S	S	S	S	S	S	S	S
Atmospheric and space scientists	S	S	S	S	S	S	S	S	S	S	S
Biological and life scientists	S	S	S	S	S	S	S	S	52	52	56
Chemist, except biochemist	S	S	S	S	S	53	S	S	S	S	S
Forestry and conservation scientists	S	S	S	S	S	S	S	S	S	S	S

TABLE H-2. Employed females 16 years and older, by detailed occupation: Selected years, 1984–2004 annual averages
(Thousands)

Occupation	1984	1986	1988	1990	1992	1994	1996	1998	2000	2002	2004
Geologists and geodesists	S	S	S	S	S	S	S	S	S	S	S
Medical scientist	S	S	S	S	S	S	S	S	54	50	
Physicists and astronomers	S	S	S	S	S	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S	S	S
Social scientists and urban planners	130	143	163	187	208	236	249	235	265	272	234
Economist	S	S	S	50	53	50	81	64	74	68	S
Market and survey researchers	na	60									
Psychologist	75	87	110	122	138	164	150	144	171	182	124
Sociologist	S	S	S	S	S	S	S	S	S	S	S
Urban planner	S	S	S	S	S	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S	S	S
Teachers, except postsecondary	2,482	2,611	2,752	2,924	3,144	3,244	3,517	3,737	4,037	4,242	4,128
Elementary school	1,118	1,141	1,207	1,274	1,394	1,398	1,538	1,639	1,814	1,942	2,097
Prekindergarten and kindergarten	327	353	386	450	477	486	533	573	617	632	644
Secondary school	616	655	608	636	647	665	686	697	764	749	636
Special education	155	188	209	228	226	258	288	312	299	320	320
Other	266	274	342	336	400	437	472	516	543	599	431
Teachers, postsecondary (college and university)	227	230	270	288	302	356	387	389	420	433	541
Other professional	1,490	1,618	1,805	1,925	1,979	2,135	2,414	2,563	2,741	2,808	4,328
Technicians (engineering, health, and science)	1,155	1,169	1,255	1,359	1,490	1,575	1,568	1,739	1,705	1,873	1,900
Engineering and related technologists and technicians	157	166	175	196	162	179	183	202	205	204	141
Drafter	S	55	S	54	S	S	S	S	51	53	S
Electrical and electronic technicians	S	S	S	55	S	S	S	73	79	83	na
Industrial engineering technician	S	S	S	S	S	S	S	S	S	S	na
Mechanical engineering technician	S	S	S	S	S	S	S	S	S	S	na
Surveying and mapping technicians	S	S	S	S	S	S	S	S	S	S	S
Other engineering technician	62	59	70	79	64	73	77	71	65	58	82
Health technologist and technician	927	945	1,013	1,086	1,241	1,298	1,293	1,414	1,388	1,531	1,639
Clinical laboratory technologists and technicians	212	218	207	226	235	263	275	282	257	294	240
Dental hygienist	62	59	76	86	73	97	93	111	110	131	129
Diagnostic related technologists and technicians	na	204									
Emergency medical technicians and paramedics	na	S									
Health diagnosing and treating practitioner support technicians	na	334									
Health records technologists and technicians	S	S	51	65	51	S	S	S	S	S	81
Licensed practical nurse	400	407	406	425	428	378	377	365	350	362	487
Opticians, dispensing	na	S									
Radiologic technician	74	76	101	93	108	114	94	118	112	135	na
Other health technician	143	141	172	190	348	417	438	521	546	590	89
Science technician	71	58	67	77	87	98	92	123	112	138	120
Agricultural and food science technicians	na	S									
Biological technician	S	S	S	S	S	S	S	74	64	78	S
Chemical technician	S	S	S	S	S	S	S	S	S	S	S
Geological and petroleum technicians	na	S									
Nuclear technician	na	S									
Other science technician	S	S	S	S	S	S	S	S	S	S	70
Other occupation	34,431	36,012	37,391	38,329	37,864	38,771	39,179	39,962	40,865	40,264	40,332

na = not applicable; not an occupation category.

S = suppressed because fewer than 50,000 weighted cases.

NOTES: Differences in estimates of scientists and engineers in the tables in this report reflect different data sources. Data from the Current Population Survey cover employed persons 16 years and older regardless of degree status. Data based on the SESTAT surveys cover persons with bachelor's or higher degrees who were either educated as or working as scientists or engineers. In 2001, the Current Population Survey taxonomy for occupations was revised, thus data for 2002 and 2004 may not be comparable to data for previous years. Data for 2001 through 2004 reflect weights calculated on the basis of the 2000 decennial census; data for 1994 through 2000 reflect weights based on the 1990 decennial census. Detail may not add to total because of rounding.

SOURCE: Bureau of Labor Statistics, Current Population Survey, 1984–2004.

TABLE H-3. Employed males 16 years and older, by detailed occupation: Selected years, 1983–2004 annual averages

(Thousands)

Occupation	1984	1986	1988	1990	1992	1994	1996	1998	2000	2002	2004
All occupations	59,091	60,892	63,273	65,104	64,440	66,450	68,207	70,693	72,293	72,903	74,524
Managers and professionals	14,856	15,391	16,526	16,985	16,758	17,971	19,131	20,305	21,056	21,487	22,945
Executives, administrators, and managers	7,683	7,990	8,626	8,872	8,612	9,298	9,979	10,585	10,814	11,115	11,718
Professional specialty	7,173	7,401	7,900	8,113	8,146	8,673	9,152	9,720	10,242	10,372	11,227
Engineers, architects, and surveyors	1,645	1,787	1,818	1,861	1,736	1,849	1,943	1,968	2,068	1,988	2,380
Architect	95	119	122	116	116	117	133	130	164	157	157
Engineer	1,526	1,644	1,673	1,719	1,605	1,711	1,793	1,824	1,886	1,809	1,634
Aerospace engineer	77	87	108	102	82	64	77	78	70	83	101
Chemical engineer	51	54	57	63	66	52	81	58	76	65	53
Civil engineer	209	227	205	223	199	221	226	261	260	238	259
Computer hardware engineers	na	84									
Electrical and electronic engineer	456	512	528	536	486	519	553	572	654	607	316
Industrial engineer	174	181	192	179	175	209	223	214	207	195	144
Mechanical engineer	255	277	286	299	288	324	326	311	321	281	293
Other engineer	303	306	297	318	309	322	309	331	296	278	384
Surveyors and mappers	S	S	S	S	S	S	S	S	S	S	S
Health assessment and treating occupations	262	298	325	321	334	375	403	428	425	446	555
Audiologist	na	S									
Chiropractor	na	56									
Dietitian	S	S	S	S	S	S	S	S	S	S	S
Pharmacist	116	111	114	107	122	112	106	101	111	112	123
Physicians' assistant	S	S	S	S	S	S	S	S	S	S	S
Registered nurse	57	85	84	92	104	121	133	153	152	164	193
Therapist	58	66	81	77	79	111	126	130	121	127	145
Occupational therapist	S	S	S	S	S	S	S	S	S	S	S
Physical therapist	S	S	S	S	S	S	S	S	56	50	60
Radiation therapist	na	S									
Recreational therapist	na	S									
Respiratory therapist	S	S	S	S	S	S	S	S	S	S	S
Speech therapist	S	S	S	S	S	S	S	S	S	S	S
Other therapist	S	S	S	S	S	S	S	S	S	S	S
Health diagnosing occupations	671	618	669	715	745	731	715	798	757	832	787
Dentist	129	126	138	145	147	129	119	125	137	145	130
Optometrist	S	S	S	S	S	S	S	S	S	S	S
Physician	437	403	433	466	488	488	491	543	518	572	586
Podiatrist	S	S	S	S	S	S	S	S	S	S	S
Veterinarian	S	S	S	S	S	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S	S	S
Mathematical and computer scientists	675	765	876	937	993	1,175	1,321	1,681	1,937	1,855	2,292
Actuary	S	S	S	S	S	S	S	S	S	S	S
Computer systems analysts and scientists	217	253	338	399	490	629	786	1,075	1,271	1,258	494
Computer programmer	327	362	387	384	371	388	388	438	514	450	414
Computer software engineer	na	609									
Computer support specialist	na	229									
Database administrator	na	63									
Network and computer systems administrators	na	151									
Network systems and data communications analysts	na	244									
Mathematician	na	S									
Operations and systems researchers and analysts	97	118	127	124	105	130	119	123	124	122	51
Statistician	S	S	S	S	S	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S	S	S
Natural scientist	287	298	300	298	336	369	379	359	376	354	419
Agricultural and food scientists	S	S	S	S	S	S	S	S	S	S	S
Atmospheric and space scientists	S	S	S	S	S	S	S	S	S	S	S
Biological and life scientists	S	S	S	S	64	76	71	64	62	66	67
Chemist, except biochemist	77	95	95	92	85	91	106	89	107	91	95

TABLE H-3. Employed males 16 years and older, by detailed occupation: Selected years, 1983–2004 annual averages
(Thousands)

Occupation	1984	1986	1988	1990	1992	1994	1996	1998	2000	2002	2004
Forestry and conservation scientists	S	S	S	S	S	S	S	S	S	S	S
Geologists and geodesists	50	S	S	S	S	S	S	55	S	S	62
Medical scientist	S	S	S	S	S	S	S	S	S	S	S
Physicists and astronomers	S	S	S	S	S	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S	S	74
Social scientists and urban planners	148	169	180	176	178	204	189	195	185	184	183
Economist	66	68	75	64	70	56	67	74	65	55	S
Market and survey researchers	na	64									
Psychologist	62	78	87	87	83	116	94	88	94	94	62
Sociologist	S	S	S	S	S	S	S	S	S	S	S
Urban planner	S	S	S	S	S	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S	S	S
Teachers, except postsecondary	960	946	1,021	1,048	1,060	1,087	1,207	1,225	1,317	1,411	1,311
Elementary school	203	199	217	221	240	236	309	312	363	399	483
Prekindergarten and kindergarten	S	S	S	S	S	S	S	S	S	S	S
Secondary school	587	539	579	562	518	531	542	528	555	540	515
Special education	S	S	S	S	S	50	52	68	63	54	64
Other	138	174	183	216	254	260	295	303	326	402	236
Teachers, postsecondary (college and university)	393	409	431	480	438	482	502	530	541	582	635
Other professional	2,132	2,111	2,280	2,277	2,326	2,401	2,493	2,536	2,636	2,720	2,665
Technicians (engineering, health, and science)	1,017	1,101	1,117	1,178	1,201	1,197	1,201	1,249	1,291	1,278	1,191
Engineering and related technologists and technicians	703	772	755	794	764	737	736	768	797	777	561
Drafter	258	229	243	231	207	191	185	184	167	193	157
Electrical and electronic technicians	236	287	275	302	292	268	315	358	389	351	na
Industrial engineering technician	S	S	S	S	S	S	S	S	S	S	na
Mechanical engineering technician	S	S	S	S	S	S	S	S	S	S	na
Surveying and mapping technicians	53	72	68	71	67	63	63	62	73	59	70
Other engineering technician	137	170	154	167	183	198	153	141	149	150	334
Health technologists and technicians	185	179	213	218	283	292	312	319	336	347	457
Clinical laboratory technologists and technicians	69	67	65	71	69	78	100	77	86	90	93
Dental hygienist	S	S	S	S	S	S	S	S	S	S	S
Diagnostic related technologists and technicians	na	80									
Emergency medical technicians and paramedics	na	94									
Health diagnosing and treating practitioner support technicians	na	63									
Health record technologists and technicians	S	S	S	S	S	S	S	S	S	S	S
Licensed practical nurse	S	S	S	S	S	S	S	S	S	S	S
Opticians, dispensing	na	S									
Radiologic technician	S	S	S	S	S	S	S	52	50	S	na
Other health technician	61	61	90	96	143	153	150	173	173	187	68
Science technician	129	150	149	166	154	168	153	162	158	154	173
Agricultural and food science technicians	na	S									
Biological technician	S	S	S	S	S	S	S	S	S	53	S
Chemical technician	52	60	59	61	56	58	57	59	56	S	56
Geological and petroleum technicians	na	S									
Nuclear technician	na	S									
Other science technician	S	54	58	64	59	69	62	68	59	58	79
Other occupation	43,545	44,762	46,017	47,325	46,852	47,670	48,262	49,577	50,459	50,588	50,388

na = not applicable; not an occupation category. S = suppressed because fewer than 50,000 weighted cases.

NOTES: Differences in estimates of scientists and engineers in the tables in this report reflect different data sources. Data from the Current Population Survey cover employed persons 16 years and older regardless of degree status. Data based on the SESTAT surveys cover persons with bachelor's or higher degrees who were either educated as or working as scientists or engineers. In 2001, the Current Population Survey taxonomy for occupations was revised, thus data for 2002 and 2004 may not be comparable to data for previous years. Data for 2001 through 2004 reflect weights calculated on the basis of the 2000 decennial census; data for 1994 through 2000 reflect weights based on the 1990 decennial census. Detail may not add to total because of rounding.

SOURCE: Bureau of Labor Statistics, Current Population Survey, 1984–2004.

TABLE H-4. Employed persons 16 years and older, by detailed occupation and race/ethnicity: 1994–2004 annual averages

(Thousands)

Occupation, sex, and race/ethnicity	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
All occupations	123,060	124,900	126,708	129,558	131,463	133,488	136,891	136,933	136,485	137,736	139,252
Managers and professionals	33,848	35,318	36,498	37,685	38,937	40,467	41,336	42,271	42,482	44,868	45,445
Executives, administrators, and managers	16,312	17,186	17,746	18,440	19,054	19,584	19,968	20,506	20,561	19,934	20,235
Professional specialty	17,536	18,132	18,752	19,245	19,883	20,883	21,368	21,765	21,921	24,934	25,210
Engineers, architects, and surveyors	2,030	2,117	2,140	2,220	2,224	2,291	2,357	2,362	2,249	2,727	2,760
Architect	141	163	160	169	158	194	218	217	197	180	207
Engineer	1,866	1,934	1,960	2,036	2,052	2,081	2,120	2,121	2,028	1,787	1,819
Aerospace engineer	75	78	80	87	86	79	77	86	90	82	113
Chemical engineer	56	80	95	92	69	82	85	75	77	75	63
Civil engineer	240	231	243	248	296	287	292	296	267	278	293
Computer hardware engineer	na	99	96								
Electrical and electronic engineer	556	611	601	652	629	639	738	740	677	363	343
Industrial engineer	245	250	257	258	262	260	246	258	235	180	177
Mechanical engineer	341	330	350	352	335	340	345	341	301	285	311
Other engineer	351	351	332	347	376	394	335	323	380	425	423
Surveyors and mappers	S	S	S	S	S	S	S	S	S	S	S
Health assessment and treating occupations	2,708	2,762	2,812	2,886	2,898	3,019	3,009	3,112	3,267	3,483	3,515
Audiologist	na	S	S	S							
Chiropractor	na	70	73	73							
Dietitian	86	94	105	101	90	92	98	101	74	85	84
Pharmacist	182	170	184	200	180	216	214	220	231	232	233
Physicians' assistant	53	55	63	65	68	67	73	82	89	65	70
Registered nurse	1,956	1,977	1,986	2,065	2,032	2,128	2,142	2,202	2,311	2,449	2,464
Therapist	430	466	474	455	528	517	482	508	562	569	574
Occupational therapist	50	52	64	61	71	71	55	63	78	77	84
Physical therapist	106	130	118	110	134	144	147	156	167	182	173
Radiation therapist	na	S	S	S							
Recreational therapist	na	S	S	S							
Respiratory therapist	98	94	96	85	103	90	78	89	97	94	103
Speech therapist	92	91	97	102	105	99	102	112	117	93	93
Other therapist	84	101	99	97	114	114	99	89	102	94	89
Health diagnosing occupations	932	1,002	960	1,027	1,083	1,071	1,066	1,115	1,176	1,135	1,116
Dentist	148	155	137	138	155	173	171	169	180	188	167
Optometrist	S	S	S	S	S	S	S	S	S	S	S
Physician	628	693	667	724	740	720	742	781	825	819	830
Podiatrist	S	S	S	S	S	S	S	S	S	S	S
Veterinarian	61	59	54	S	58	53	56	56	S	59	58
Other	55	51	54	69	73	74	57	63	73	S	S
Mathematical and computer scientists	1,735	1,748	1,907	2,119	2,361	2,512	2,820	2,791	2,634	3,122	3,140
Actuary	S	S	S	S	S	S	S	S	S	S	S
Computer systems analysts and scientists	916	933	1,093	1,236	1,471	1,549	1,829	1,835	1,742	722	700
Computer programmer	549	553	561	626	613	665	710	667	605	563	564
Computer software engineer	na	758	813	813							
Computer support specialist	na	330	325								
Database administrator	na	72	94								
Network and computer systems administrators	na	176	190								
Network systems and data communications analysts	na	359	312								
Mathematician	na	S	S								
Operations and systems researchers and analysts	222	217	209	201	212	241	228	233	238	95	90
Statistician	S	S	S	S	S	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S	S	S
Natural scientist	535	519	536	529	519	578	576	590	545	647	655
Agricultural and food scientists	S	S	S	S	S	S	53	S	51	S	S
Atmospheric and space scientists	S	S	S	S	S	S	S	S	S	S	S
Biological and life scientists	120	110	116	106	104	109	116	127	119	112	123
Chemist, except biochemist	144	140	149	144	133	136	157	165	130	140	141
Forestry and conservation scientists	S	S	S	S	S	S	S	S	S	S	S
Geologists and geodesists	57	60	S	59	63	56	S	S	85	86	86

TABLE H-4. Employed persons 16 years and older, by detailed occupation and race/ethnicity: 1994–2004 annual averages
(Thousands)

Occupation, sex, and race/ethnicity	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Medical scientist	62	61	73	77	83	100	87	101	89	101	93
Physicists and astronomers	S	S	S	S	S	S	S	S	S	S	S
Other	S	S	S	S	S	63	55	S	S	112	111
Social scientists and urban planners	440	453	438	441	430	460	454	457	457	414	417
Economist	106	148	148	135	137	141	141	135	123	S	S
Market and survey researchers	na	124	124								
Psychologist	280	260	245	256	232	266	267	271	277	185	185
Sociologist	S	S	S	S	S	S	S	S	S	S	S
Urban planner	S	S	S	S	S	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S	S	S
Teachers, except postsecondary	4,331	4,508	4,724	4,799	4,962	5,276	5,394	5,497	5,652	5,378	5,438
Elementary school	1,634	1,738	1,846	1,872	1,951	2,072	2,191	2,225	2,341	2,557	2,580
Prekindergarten and kindergarten	496	498	543	574	586	600	630	656	647	665	656
Secondary school	1,197	1,232	1,228	1,173	1,225	1,342	1,333	1,318	1,289	1,124	1,151
Special education	308	311	340	384	381	369	365	362	374	370	384
Other	696	729	767	796	819	893	875	936	1,001	662	667
Teachers, postsecondary (college and university)	838	846	889	869	919	978	980	1,027	1,015	1,121	1,176
Other professional	3,987	4,177	4,346	4,355	4,487	4,698	4,712	4,814	4,926	6,907	6,993
Technicians (engineering, health, and science)	2,772	2,804	2,769	2,940	2,988	2,967	3,025	3,151	3,150	3,061	3,087
Engineering and related technologists and technicians	916	880	919	960	970	973	1,010	1,025	980	718	702
Drafter	239	229	233	222	228	235	219	225	247	224	206
Electrical and electronic technicians	316	334	361	391	431	437	472	486	433	na	na
Industrial engineering technician	S	S	S	S	S	S	S	S	S	na	na
Mechanical engineering technician	S	S	S	S	S	S	S	S	S	na	na
Surveying and mapping technicians	68	62	73	76	71	67	79	68	65	75	80
Other engineering technician	270	234	230	243	212	215	216	219	209	419	416
Health technologists and technicians	1,590	1,648	1,605	1,693	1,733	1,701	1,742	1,831	1,879	2,028	2,092
Clinical lab technologists and technicians	341	374	376	388	359	338	348	363	384	294	333
Dental hygienist	97	95	94	107	112	106	112	111	133	126	130
Diagnostic related technologists and technicians	na	268	284								
Emergency medical technicians and paramedics	na	121	139								
Health diagnosing and treating practitioner support technicians	na	388	397								
Health record technologists and technicians	S	S	S	S	S	S	S	S	S	107	91
Licensed practical nurse	397	399	395	408	381	357	378	383	382	531	517
Opticians, dispensing	na	50	S								
Radiologic technician	154	154	135	148	170	167	163	168	182	na	na
Other health technician	569	607	588	624	694	715	724	788	777	143	155
Science technicians	266	276	245	287	285	293	273	295	291	315	293
Agricultural and food science technicians	na										
Biological technician	89	96	79	106	108	106	109	127	131	na	na
Chemical technician	77	84	78	85	75	79	71	69	64	86	84
Geological and petroleum technicians	na										
Nuclear technician	na										
Other science technician	100	96	87	96	102	108	93	99	96	156	150
Other occupations	86,441	86,778	87,442	88,932	89,538	90,054	92,529	91,511	90,853	89,807	90,720
White	105,190	106,490	107,808	109,856	110,931	112,235	114,424	114,430	114,013	114,235	115,239
Managers and professionals	30,045	31,323	32,116	33,089	34,063	35,125	35,476	36,242	36,405	38,104	38,512
Executives, administrators, and managers	14,605	15,398	15,807	16,420	16,903	17,235	17,462	17,880	17,944	17,377	17,590
Professional specialty	15,439	15,924	16,309	16,669	17,160	17,890	18,014	18,362	18,460	20,727	20,922
Engineers, architects, and surveyors	1,827	1,903	1,870	1,934	1,942	1,994	1,967	1,998	1,919	2,321	2,343
Architect	131	153	145	154	147	181	197	193	179	165	187

TABLE H-4. Employed persons 16 years and older, by detailed occupation and race/ethnicity: 1994–2004 annual averages
(Thousands)

Occupation, sex, and race/ethnicity	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Engineer	1,677	1,732	1,705	1,766	1,781	1,797	1,754	1,782	1,716	1,505	1,511
Aerospace engineer	70	72	74	79	71	67	67	78	83	71	95
Chemical engineer	50	69	71	74	61	78	74	61	63	66	51
Civil engineer	216	203	207	222	263	241	239	244	220	228	232
Computer hardware engineer	na	74	66								
Electrical and electronic engineer	488	537	516	540	519	523	573	598	549	294	280
Industrial engineer	221	225	237	236	233	238	217	227	210	155	153
Mechanical engineer	311	301	307	306	298	309	302	302	268	248	270
Other engineer	307	311	281	296	321	322	274	262	313	369	364
Surveyors and mappers	S	S	S	S	S	S	S	S	S	S	S
Health assessment and treating occupations	2,345	2,392	2,413	2,473	2,460	2,540	2,531	2,605	2,694	2,897	2,897
Audiologist	na	S	S								
Chiropractor	na	66	68								
Dietitian	70	73	70	69	68	64	73	73	58	65	62
Pharmacist	163	147	154	169	155	173	175	184	180	194	198
Physicians' assistant	S	S	61	60	60	61	66	73	77	54	59
Registered nurse	1,685	1,713	1,697	1,764	1,715	1,789	1,794	1,829	1,892	1,992	2,006
Therapist	380	411	430	411	462	455	424	446	486	489	487
Occupational therapist	S	S	60	57	64	65	52	57	70	69	72
Physical therapist	96	121	107	99	116	124	125	138	148	159	140
Radiation therapist	na	S	S								
Recreational therapist	na	S	S								
Respiratory therapist	83	76	85	74	82	68	68	75	78	71	84
Speech therapist	86	88	95	97	100	96	97	106	109	86	87
Other therapist	71	77	84	85	99	103	82	70	81	76	76
Health diagnosing occupations	804	874	827	868	912	882	859	901	940	911	875
Dentist	133	143	130	125	140	160	149	141	145	161	138
Optometrist	S	S	S	S	S	S	S	S	S	S	S
Physician	526	583	555	590	598	557	567	607	639	639	635
Podiatrist	S	S	S	S	S	S	S	S	S	S	S
Veterinarian	59	57	S	S	56	51	54	53	S	56	57
Other	50	S	53	65	68	68	54	57	69	S	S
Mathematical and computer scientists	1,497	1,510	1,583	1,744	1,933	2,035	2,189	2,102	2,016	2,418	2,410
Actuary	S	S	S	S	S	S	S	S	S	S	S
Computer systems analysts and scientists	776	812	893	1,009	1,190	1,238	1,404	1,343	1,330	564	548
Computer programmer	476	478	471	516	503	548	550	524	457	449	439
Computer software engineer	na	528	562								
Computer support specialist	na	262	262								
Database administrator	na	59	71								
Network and computer systems administrators	na	148	156								
Network systems and data communications analysts	na	296	256								
Mathematician	na	S	S								
Operations and systems researchers and analysts	204	184	180	171	182	202	193	189	187	75	70
Statistician	S	S	S	S	S	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S	S	S
Natural scientist	471	447	455	433	441	490	476	482	451	514	530
Agricultural and food scientists	S	S	S	S	S	S	S	S	S	S	S
Atmospheric and space scientists	S	S	S	S	S	S	S	S	S	S	S
Biological and life scientists	97	87	94	89	90	92	95	105	97	90	102
Chemist, except biochemist	127	123	125	115	105	106	115	128	96	101	109
Forestry and conservation scientists	S	S	S	S	S	S	S	S	S	S	S
Geologists and geodesists	52	57	S	57	62	54	S	S	S	77	79
Medical scientist	52	S	52	S	60	70	64	71	68	75	71
Physicists and astronomers	S	S	S	S	S	S	S	S	S	S	S
Other	S	S	S	S	S	58	54	S	S	85	78
Social scientists and urban planners	396	402	386	389	386	405	401	407	397	358	372
Economist	97	135	136	117	125	126	119	118	105	S	S
Market and survey researchers	na	102	102								
Psychologist	251	229	211	228	204	231	243	244	243	171	173
Sociologist	S	S	S	S	S	S	S	S	S	S	S

TABLE H-4. Employed persons 16 years and older, by detailed occupation and race/ethnicity: 1994–2004 annual averages
(Thousands)

Occupation, sex, and race/ethnicity	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Urban planner	S	S	S	S	S	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S	S	S
Teachers, except postsecondary	3,842	3,986	4,170	4,205	4,340	4,617	4,686	4,803	4,899	4,633	4,723
Elementary school	1,436	1,530	1,633	1,624	1,696	1,809	1,894	1,943	2,026	2,206	2,255
Prekindergarten and kindergarten	422	412	460	490	487	503	531	538	522	545	530
Secondary school	1,081	1,120	1,113	1,054	1,094	1,210	1,172	1,189	1,166	989	1,039
Special education	282	276	288	335	335	329	323	320	328	333	339
Other	621	648	676	702	728	766	766	813	857	560	560
Teachers, postsecondary (college and university)	726	730	758	737	774	845	824	849	844	923	957
Other professional	4,257	4,410	4,605	4,623	4,746	4,927	4,905	5,064	5,144	6,675	6,772
Technicians (engineering, health, and science)	3,301	3,361	3,334	3,571	3,557	3,622	3,621	3,747	3,716	2,454	2,516
Engineering and related technologists and technicians	800	770	789	841	820	813	833	855	830	612	614
Drafter	220	209	212	200	212	206	192	208	224	200	182
Electrical and electronic technicians	260	280	306	341	349	352	382	399	349	na	na
Industrial engineering technician	S	S	S	S	S	S	S	S	S	na	na
Mechanical engineering technician	S	S	S	S	S	S	S	S	S	na	na
Surveying and mapping technicians	63	55	64	70	67	61	70	63	64	69	76
Other engineering technician	236	206	189	205	171	178	172	162	175	343	356
Health technologists and technicians	1,303	1,369	1,334	1,393	1,404	1,372	1,393	1,464	1,518	1,601	1,665
Clinical laboratory technologists and technicians	267	297	284	287	273	243	257	269	285	220	242
Dental hygienist	96	92	93	105	106	103	109	106	127	122	123
Diagnostic related technologists and technicians	na	223	248								
Emergency medical technicians and paramedics	na	109	121								
Health diagnosing and treating practitioner support technicians	na	299	328								
Health record technologists and technicians	S	S	S	S	S	S	S	S	S	84	71
Licensed practical nurse	310	308	329	335	304	279	283	278	293	387	379
Opticians, dispensing	na	S	S								
Radiologic technician	136	141	119	131	148	148	143	147	163	na	na
Other health technician	469	516	495	519	559	585	588	651	632	113	115
Science technician	223	240	204	243	240	244	232	250	247	241	237
Agricultural and food science technicians	na	S	S								
Biological technician	73	85	68	88	96	93	95	110	114	S	S
Chemical technician	68	73	64	70	60	64	63	60	53	61	67
Geological and petroleum technician	na	S	S								
Nuclear technician	na	S	S								
Other science technician	83	82	72	85	84	87	73	80	80	125	122
Other occupations	71,844	71,806	72,358	73,196	73,311	73,488	75,327	74,441	73,892	73,677	74,211
Black	12,835	13,279	13,542	13,969	14,556	15,056	15,156	15,006	14,872	14,739	14,909
Managers and professionals	2,405	2,651	2,706	2,764	2,947	3,233	3,311	3,393	3,378	3,865	3,913
Executives, administrators, and managers	1,103	1,233	1,218	1,267	1,368	1,484	1,496	1,563	1,553	1,368	1,408
Professional specialty	1,302	1,418	1,488	1,497	1,579	1,749	1,815	1,830	1,825	2,497	2,505
Engineers, architects, and surveyors	75	96	87	82	88	100	122	120	95	119	135
Architect	S	S	S	S	S	S	S	S	S	S	S
Engineer	69	90	82	79	85	96	118	113	91	61	93
Aerospace engineer	S	S	S	S	S	S	S	S	S	S	S
Chemical engineer	S	S	S	S	S	S	S	S	S	S	S
Civil engineer	S	S	S	S	S	S	S	S	S	S	S
Computer hardware engineer	na	S	S								
Electrical and electronic engineer	S	S	S	S	S	S	S	S	S	S	S
Industrial engineer	S	S	S	S	S	S	S	S	S	S	S

TABLE H-4. Employed persons 16 years and older, by detailed occupation and race/ethnicity: 1994–2004 annual averages

(Thousands)

Occupation, sex, and race/ethnicity	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Mechanical engineer	S	S	S	S	S	S	S	S	S	S	S
Other engineer	S	S	S	S	S	S	S	S	S	S	S
Surveyors and mappers	S	S	S	S	S	S	S	S	S	S	S
Health assessment and treating occupations	238	237	246	243	259	276	264	296	317	315	323
Audiologist	na	S	S								
Chiropractor	na	S	S								
Dietitian	S	S	S	S	S	S	S	S	S	S	S
Pharmacist	S	S	S	S	S	S	S	S	S	S	S
Physicians' assistant	S	S	S	S	S	S	S	S	S	S	S
Registered nurse	181	166	170	172	189	205	198	217	232	242	248
Therapist	S	S	S	S	S	S	S	S	S	S	S
Occupational therapist	S	S	S	S	S	S	S	S	S	S	S
Physical therapist	S	S	S	S	S	S	S	S	S	S	S
Radiation therapist	na	S	S								
Recreational therapist	na	S	S								
Respiratory therapist	S	S	S	S	S	S	S	S	S	S	S
Speech therapist	S	S	S	S	S	S	S	S	S	S	S
Other therapist	S	S	S	S	S	S	S	S	S	S	S
Health diagnosing occupations	S	S	S	S	S	S	53	54	55	51	58
Dentist	S	S	S	S	S	S	S	S	S	S	S
Optometrist	S	S	S	S	S	S	S	S	S	S	S
Physician	S	S	S	S	S	S	S	S	S	S	50
Podiatrist	S	S	S	S	S	S	S	S	S	S	S
Veterinarian	S	S	S	S	S	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S	S	S
Mathematical and computer scientists	110	121	127	149	166	180	222	214	171	252	236
Actuary	S	S	S	S	S	S	S	S	S	S	S
Computer systems analysts and scientists	66	57	79	95	106	115	141	146	120	70	68
Computer programmer	S	S	S	S	S	S	S	S	S	S	S
Computer software engineer	na	S	S								
Computer support specialist	na	S	S								
Database administrator	na	S	S								
Network and computer systems administrators	na	S	S								
Network systems and data communications analysts	na	S	S								
Mathematician	na	S	S								
Operations and systems researchers and analysts	S	S	S	S	S	S	S	S	S	S	S
Statistician	S	S	S	S	S	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S	S	S
Natural scientist	S	S	S	S	S	S	S	S	S	S	S
Agricultural and food scientists	S	S	S	S	S	S	S	S	S	S	S
Atmospheric and space scientists	S	S	S	S	S	S	S	S	S	S	S
Biological and life scientists	S	S	S	S	S	S	S	S	S	S	S
Chemist, except biochemist	S	S	S	S	S	S	S	S	S	S	S
Forestry and conservation scientists	S	S	S	S	S	S	S	S	S	S	S
Geologists and geodesists	S	S	S	S	S	S	S	S	S	S	S
Medical scientist	S	S	S	S	S	S	S	S	S	S	S
Physicists and astronomers	S	S	S	S	S	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S	S	S
Social scientists and urban planners	S	S	S	S	S	S	S	S	S	S	S
Economist	S	S	S	S	S	S	S	S	S	S	S
Market and survey researchers	na	S	S								
Psychologist	S	S	S	S	S	S	S	S	S	S	S
Sociologist	S	S	S	S	S	S	S	S	S	S	S
Urban planner	S	S	S	S	S	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S	S	S
Teachers, except postsecondary	386	419	461	487	495	523	551	545	572	543	515
Elementary school	167	175	183	205	205	214	244	237	258	267	244
Prekindergarten and kindergarten	55	69	74	76	84	81	82	96	95	93	100
Secondary school	91	93	97	97	109	107	117	93	90	95	76
Special education	S	S	S	S	S	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S	57	58

TABLE H-4. Employed persons 16 years and older, by detailed occupation and race/ethnicity: 1994–2004 annual averages
(Thousands)

Occupation, sex, and race/ethnicity	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Teachers, postsecondary (college and university)	42	52	58	57	53	64	61	61	54	56	69
Other professional	408	447	474	436	477	565	537	537	555	1,166	1,191
Technicians (engineering, health, and science)	314	308	301	319	350	371	376	370	363	58	S
Engineering and related technologists and technicians	68	70	78	71	84	95	98	92	76	58	S
Drafter	S	S	S	S	S	S	S	S	S	S	S
Electrical and electronic technicians	S	S	S	S	S	S	50	S	S	na	na
Industrial engineering technician	S	S	S	S	S	S	S	S	S	na	na
Mechanical engineering technician	S	S	S	S	S	S	S	S	S	na	na
Surveying and mapping technicians	S	S	S	S	S	S	S	S	S	S	S
Other engineering technician	S	S	S	S	S	S	S	S	S	S	S
Health technologists and technicians	221	213	197	221	241	244	255	259	268	305	293
Clinical laboratory technologists and technicians	S	51	60	62	54	66	61	60	75	S	S
Dental hygienist	S	S	S	S	S	S	S	S	S	S	S
Diagnostic related technologists and technicians	na	S	S								
Emergency medical technicians and paramedics	na	S	S								
Health diagnosing and treating practitioner support technicians	na	65	S								
Health record technologists and technicians	S	S	S	S	S	S	S	S	S	S	S
Licensed practical nurse	74	78	55	63	66	66	74	89	79	119	108
Opticians, dispensing	na	S	S								
Radiologic technician	S	S	S	S	S	S	S	S	S	na	na
Other health technician	80	69	67	81	99	91	97	91	100	S	S
Science technicians	S	S	S	S	S	S	S	S	S	S	S
Agricultural and food science technicians	na	S	S								
Biological technician	S	S	S	S	S	S	S	S	S	S	S
Chemical technician	S	S	S	S	S	S	S	S	S	S	S
Geological and petroleum technician	na	S	S								
Nuclear technician	na	S	S								
Other science technician	S	S	S	S	S	S	S	S	S	S	S
Other occupations	10,116	10,320	10,535	10,886	11,259	11,452	11,469	11,243	11,131	10,816	10,960
Hispanic	10,788	11,127	11,642	12,726	13,291	13,720	15,735	16,190	16,590	17,372	17,930
Managers and professionals	1,517	1,548	1,654	1,867	1,933	2,040	2,182	2,329	2,461	2,481	2,627
Executives, administrators, and managers	807	821	854	1,001	1,028	1,097	1,143	1,239	1,293	1,176	1,290
Professional specialty	709	727	799	866	905	943	1,039	1,091	1,168	1,305	1,337
Engineers, architects, and surveyors	67	74	81	86	87	82	99	91	92	141	158
Architect	S	S	S	S	S	S	S	S	S	S	S
Engineer	62	63	74	77	78	74	86	80	81	72	80
Aerospace engineer	S	S	S	S	S	S	S	S	S	S	S
Chemical engineer	S	S	S	S	S	S	S	S	S	S	S
Civil engineer	S	S	S	S	S	S	S	S	S	S	S
Computer hardware engineer	na	S	S								
Electrical and electronic engineer	S	S	S	S	S	S	S	S	S	S	S
Industrial engineer	S	S	S	S	S	S	S	S	S	S	S
Mechanical engineer	S	S	S	S	S	S	S	S	S	S	S
Other engineer	S	S	S	S	S	S	S	S	S	S	S
Surveyors and mappers	S	S	S	S	S	S	S	S	S	S	S
Health assessment and treating occupations	92	86	87	95	99	102	108	129	122	110	135
Audiologist	na	S	S								
Chiropractor	na	S	S								
Dietitian	S	S	S	S	S	S	S	S	S	S	S
Pharmacist	S	S	S	S	S	S	S	S	S	S	S
Physicians' assistant	S	S	S	S	S	S	S	S	S	S	S
Registered nurse	57	52	53	60	64	66	62	83	77	95	108
Therapist	S	S	S	S	S	S	S	S	S	S	S
Occupational therapist	S	S	S	S	S	S	S	S	S	S	S
Physical therapist	S	S	S	S	S	S	S	S	S	S	S
Radiation therapist	na	S	S								
Recreational therapist	na	S	S								

TABLE H-4. Employed persons 16 years and older, by detailed occupation and race/ethnicity: 1994–2004 annual averages

(Thousands)

Occupation, sex, and race/ethnicity	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Respiratory therapist	S	S	S	S	S	S	S	S	S	S	S
Speech therapist	S	S	S	S	S	S	S	S	S	S	S
Other therapist	S	S	S	S	S	S	S	S	S	S	S
Health diagnosing occupations	S	S	S	S	S	S	S	50	55	54	55
Dentist	S	S	S	S	S	S	S	S	S	S	S
Optometrist	S	S	S	S	S	S	S	S	S	S	S
Physician	S	S	S	S	S	S	S	S	S	S	S
Podiatrist	S	S	S	S	S	S	S	S	S	S	S
Veterinarian	S	S	S	S	S	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S	S	S
Mathematical and computer scientists	63	59	60	75	104	92	105	118	134	172	172
Actuary	S	S	S	S	S	S	S	S	S	S	S
Computer systems analysts and scientists	S	S	S	S	54	53	73	75	90	S	S
Computer programmer	S	S	S	S	S	S	S	S	S	S	S
Computer software engineer	na	S	S								
Computer support specialist	na	S	S								
Database administrator	na	S	S								
Network and computer systems administrators	na	S	S								
Network systems and data communications analysts	na	S	S								
Mathematician	S	S	S	S	S	S	S	S	S	S	S
Operations and systems researchers and analysts	S	S	S	S	S	S	S	S	S	S	S
Statistician	S	S	S	S	S	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S	S	S
Natural scientist	S	S	S	S	S	S	S	S	S	S	S
Agricultural and food scientists	S	S	S	S	S	S	S	S	S	S	S
Atmospheric and space scientists	S	S	S	S	S	S	S	S	S	S	S
Biological and life scientists	S	S	S	S	S	S	S	S	S	S	S
Chemist, except biochemist	S	S	S	S	S	S	S	S	S	S	S
Forestry and conservation scientists	S	S	S	S	S	S	S	S	S	S	S
Geologists and geodesists	S	S	S	S	S	S	S	S	S	S	S
Medical scientist	S	S	S	S	S	S	S	S	S	S	S
Physicists and astronomers	S	S	S	S	S	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S	S	S
Social scientists and urban planners	S	S	S	S	S	S	S	S	S	S	S
Economist	S	S	S	S	S	S	S	S	S	S	S
Market and survey researchers	na	S	S								
Psychologist	S	S	S	S	S	S	S	S	S	S	S
Sociologist	S	S	S	S	S	S	S	S	S	S	S
Urban planner	S	S	S	S	S	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S	S	S
Teachers, except postsecondary	187	199	227	259	268	287	297	314	346	344	356
Elementary school	68	75	89	100	110	106	128	125	149	152	166
Prekindergarten and kindergarten	S	S	S	55	S	S	53	73	50	56	54
Secondary school	S	50	62	S	51	67	59	54	65	68	60
Special education	S	S	S	S	S	S	S	S	S	S	S
Other	S	S	S	S	S	54	S	53	65	50	57
Teachers, postsecondary (college and university)	S	S	S	S	S	S	S	S	55	50	41
Other professional	232	237	276	279	265	301	352	356	383	431	414

TABLE H-4. Employed persons 16 years and older, by detailed occupation and race/ethnicity: 1994–2004 annual averages
(Thousands)

Occupation, sex, and race/ethnicity	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Technicians (engineering, health, and science)	153	183	178	195	211	205	245	281	257	222	237
Engineering and related technologists and technicians	57	54	56	64	74	61	69	86	76	56	62
Drafter	S	S	S	S	S	S	S	S	S	S	S
Electrical and electronic technicians	S	S	S	S	S	S	S	S	S	na	na
Industrial engineering technician	S	S	S	S	S	S	S	S	S	na	na
Mechanical engineering technician	S	S	S	S	S	S	S	S	S	na	na
Surveying and mapping technicians	S	S	S	S	S	S	S	S	S	S	S
Other engineering technician	S	S	S	S	S	S	S	S	S	S	S
Health technologists and technicians	84	109	107	107	121	123	151	171	162	137	153
Clinical laboratory technologists and technicians	S	S	S	S	S	S	S	S	S	S	S
Dental hygienist	S	S	S	S	S	S	S	S	S	S	S
Diagnostic related technologists and technicians	na	na	na	na	na	na	na	na	na	S	S
Emergency medical technicians and paramedics	na	na	na	na	na	na	na	na	na	S	S
Health diagnosing and treating practitioner support technicians	na	na	na	na	na	na	na	na	na	S	S
Health record technologists and technicians	S	S	S	S	S	S	S	S	S	S	S
Licensed practical nurse	S	S	S	S	S	S	S	S	S	S	S
Opticians, dispensing	na	na	na	na	na	na	na	na	na	S	S
Radiologic technician	S	S	S	S	S	S	S	S	S	na	na
Other health technician	S	S	50	51	67	76	88	112	96	S	S
Science technician	S	S	S	S	S	S	S	S	S	S	S
Agricultural and food science technicians	na	na	na	na	na	na	na	na	na	S	S
Biological technician	S	S	S	S	S	S	S	S	S	S	S
Chemical technician	S	S	S	S	S	S	S	S	S	S	S
Geological and petroleum technician	na	na	na	na	na	na	na	na	na	S	S
Nuclear technician	na	na	na	na	na	na	na	na	na	S	S
Other science technician	S	S	S	S	S	S	S	S	S	S	S
Other occupations	9,118	9,396	9,810	10,664	11,147	11,475	13,308	13,580	13,872	14,669	15,066

na = not applicable; not an occupation category.

S = suppressed because fewer than 50,000 weighted cases.

NOTES: Data for 2000 through 2004 reflect weights calculated on the basis of the 2000 decennial census; data for 1994 through 1999 reflect weights based on the 1990 decennial census. In 2001, the Current Population Survey taxonomy for occupations was revised, thus data for 2002, 2003, and 2004 may not be comparable to data for previous years. Hispanics may be of any race and are classified by race as well as ethnicity. Total includes other races, e.g., Asian, American Indian/Alaska Native (all years), and multiple race (from 2000 on) not shown separately due to small sample. Differences in estimates of scientists and engineers in the tables in this report reflect different data sources. Data from the Current Population Survey cover employed persons 16 years and older regardless of degree status. Data based on the SESTAT surveys cover persons with bachelor's or higher degrees who were either educated as or working as scientists or engineers. Detail may not add to total because of rounding.

SOURCE: Bureau of Labor Statistics, Current Population Survey, 1994–2004.

TABLE H-5. Employed scientists and engineers, by occupation, highest degree level, and sex: 2003

Occupation	All degrees			Bachelor's			Master's			Doctorate		
	Both sexes	Female	Male	Both sexes	Female	Male	Both sexes	Female	Male	Both sexes	Female	Male
All occupations	18,019,400	7,582,200	10,437,200	10,484,300	4,575,300	5,909,100	4,976,800	2,221,900	2,754,900	883,700	256,900	626,900
S&E occupations	4,927,500	1,330,500	3,597,100	2,799,200	696,000	2,103,200	1,453,300	437,000	1,016,200	581,800	162,200	419,600
Scientist	3,372,700	1,158,200	2,214,500	1,789,700	588,600	1,201,100	1,003,700	381,500	622,100	488,400	153,500	334,800
Biological/life scientist	554,500	240,400	314,200	195,500	93,500	102,000	128,700	66,400	62,300	171,600	61,200	110,500
Agricultural/food scientist	48,500	15,200	33,300	26,100	10,000	16,100	12,500	3,300	9,200	9,200	1,600	7,700
Biological/medical scientist	298,500	137,100	161,400	118,200	66,200	51,900	62,700	30,100	32,600	102,600	35,800	66,800
Forestry and conservation scientist	39,500	4,400	35,100	28,600	2,800	25,900	9,000	1,100	7,800	1,800	400	1,400
Postsecondary teacher	168,100	83,700	84,400	22,600	14,500	8,100	44,500	31,900	12,600	58,000	23,400	34,600
Computer and information scientist	1,883,400	519,700	1,363,700	1,292,700	367,300	925,400	526,900	142,000	384,800	53,400	8,200	45,200
Computer/information scientist	1,849,000	509,700	1,339,300	1,281,400	363,900	917,500	514,700	137,200	377,500	42,600	6,500	36,000
Postsecondary teacher	34,400	10,000	24,400	11,300	3,400	7,900	12,200	4,900	7,300	10,900	1,700	9,200
Mathematical scientist	125,100	50,100	75,000	38,700	18,200	20,500	51,300	22,300	29,100	33,000	8,500	24,500
Mathematical scientist	67,000	25,500	41,500	28,800	13,300	15,600	25,300	9,000	16,300	11,000	2,300	8,700
Postsecondary teacher	58,000	24,600	33,500	9,900	5,000	4,900	26,000	13,300	12,800	22,100	6,300	15,800
Physical scientist	315,100	89,900	225,100	139,400	49,400	90,000	82,900	27,000	55,900	90,500	13,300	77,300
Chemist, except biochemist	124,200	46,300	77,900	68,900	30,100	38,800	25,300	11,100	14,200	29,900	5,000	24,900
Earth scientist/geologist/oceanographer	71,300	12,800	58,500	33,300	6,600	26,700	27,200	5,000	22,100	10,200	1,200	9,000
Physicist/astronomer	30,500	3,400	27,100	5,100	600	4,500	8,300	1,500	6,800	16,800	1,300	15,500
Other physical scientist	37,300	13,100	24,200	22,300	8,500	13,800	10,200	3,900	6,300	4,000	700	3,300
Postsecondary teacher	51,700	14,400	37,400	9,800	3,700	6,100	12,100	5,600	6,500	29,600	5,000	24,600
Psychologist	212,000	136,600	75,400	15,900	9,300	6,500	107,600	77,800	29,800	74,700	39,500	35,200
Psychologist	180,800	120,900	59,900	14,000	8,100	5,900	99,800	73,400	26,400	54,600	30,400	24,200
Postsecondary teacher	31,200	15,700	15,500	1,900	1,300	S	7,800	4,400	3,400	20,100	9,100	11,000
Social scientist	282,600	121,500	161,100	107,600	50,800	56,800	106,200	46,000	60,200	65,000	22,800	42,200
Economist	34,500	10,400	24,100	8,800	2,400	6,500	16,500	6,400	10,100	8,500	1,700	6,900
Political scientist	14,200	6,900	7,300	8,600	5,600	3,000	4,000	1,000	3,000	1,500	400	1,100
Sociologist/anthropologist	21,700	12,600	9,100	8,700	5,900	2,900	7,900	4,200	3,700	5,100	2,600	2,500
Other social scientist	137,800	63,800	74,000	74,200	33,400	40,800	55,800	25,800	30,000	6,200	3,200	3,000
Postsecondary teacher	74,400	27,600	46,700	7,200	3,500	3,700	22,100	8,600	13,500	43,700	15,000	28,700
Engineer	1,554,900	172,300	1,382,500	1,009,500	107,400	902,100	449,600	55,500	394,100	93,400	8,600	84,800
Aerospace engineer	95,200	9,400	85,800	53,200	4,800	48,400	36,700	4,400	32,300	5,100	200	4,900
Chemical engineer	74,600	14,700	60,000	45,200	10,700	34,500	20,500	3,200	17,300	9,000	700	8,200
Civil engineer	247,300	31,300	216,000	173,800	20,700	153,100	68,300	10,300	58,100	5,100	400	4,800
Electrical engineer	367,400	35,200	332,200	228,900	20,700	208,200	117,500	12,900	104,600	20,700	1,500	19,200
Industrial engineer	85,700	10,400	75,300	60,500	7,000	53,400	22,600	3,200	19,400	2,400	200	2,200
Mechanical engineer	272,100	17,800	254,200	187,900	12,400	175,500	74,100	4,900	69,200	9,600	500	9,000
Other engineer	379,600	49,100	330,500	254,600	30,600	224,000	102,100	14,900	87,200	21,900	2,900	19,000
Postsecondary teacher	33,000	4,400	28,600	5,400	500	5,000	7,800	1,700	6,100	19,600	2,200	17,400
S&E related occupations	5,220,600	2,886,900	2,333,700	2,938,500	1,837,400	1,101,100	1,196,200	717,200	479,000	81,700	29,800	51,900
Health related occupation	3,404,800	2,207,300	1,197,500	1,812,700	1,437,400	375,300	568,300	454,100	114,200	33,700	18,200	15,400

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TABLE H-5. Employed scientists and engineers, by occupation, highest degree level, and sex: 2003

Occupation	All degrees			Bachelor's			Master's			Doctorate		
	Both sexes	Female	Male	Both sexes	Female	Male	Both sexes	Female	Male	Both sexes	Female	Male
S&E manager	385,700	112,200	273,500	219,200	64,900	154,300	135,300	42,100	93,200	26,000	4,800	21,200
S&E precollege teacher	715,900	372,200	343,800	356,800	190,600	166,200	341,100	172,700	168,400	11,900	5,100	6,800
S&E technician/technologist	499,600	143,000	356,600	401,100	107,800	293,300	89,400	33,100	56,200	7,500	1,500	6,100
Other S&E related occupation	214,500	52,100	162,300	148,700	36,800	111,900	62,100	15,200	46,900	2,600	S	2,500
Non-S&E occupations	7,871,300	3,364,900	4,506,400	4,746,600	2,041,800	2,704,800	2,327,400	1,067,700	1,259,700	220,200	64,900	155,300
Art, humanities and related occupation	247,700	130,400	117,300	159,900	88,600	71,400	73,700	36,400	37,300	9,600	3,700	5,900
Management related occupation	1,310,600	530,700	779,900	793,500	337,800	455,700	457,400	172,000	285,500	31,300	8,600	22,700
Non-S&E manager	919,700	201,000	718,700	455,300	87,600	367,700	362,100	88,400	273,700	73,400	19,000	54,400
Non-S&E postsecondary teacher	139,200	61,100	78,000	25,800	12,900	12,900	63,000	30,700	32,300	45,400	15,500	29,900
Non-S&E precollege teacher	599,800	472,300	127,400	303,600	247,600	56,000	283,100	216,600	66,500	8,100	3,900	4,100
Sales and marketing occupation	1,322,100	431,300	890,800	980,000	327,200	652,800	303,500	96,100	207,500	17,700	3,900	13,900
Social services and related occupation	621,000	422,900	198,000	240,000	169,400	70,600	352,800	246,000	106,800	12,300	3,200	9,100
Other non-S&E occupation	2,711,400	1,115,100	1,596,300	1,788,500	770,800	1,017,700	431,700	181,500	250,200	22,400	7,200	15,300

S = suppressed because fewer than 50 weighted cases.

NOTES: Numbers are rounded to nearest 100. Detail may not add to total because of rounding. All degrees includes professional degrees not shown separately. Differences in estimates of scientists and engineers in the tables in this report reflect different data sources. Data from the Current Population Survey cover employed persons 16 years and older regardless of degree status. Data based on the SESTAT surveys cover persons with bachelor's or higher degrees who were either educated as or working as scientists or engineers.

SOURCE: National Science Foundation, Division of Science Resources Statistics, Scientist and Engineers Statistical Data System (SESTAT).

TABLE H-6. Employed scientists and engineers, by occupation, highest degree level, and race/ethnicity: 2003

Highest degree and occupation	All races/ethnicities	White	Asian	Black	Hispanic	American Indian/Alaska Native
All degrees	18,019,400	13,953,800	1,721,900	1,036,200	936,900	76,200
S&E occupations	4,927,500	3,706,100	697,100	215,800	214,300	17,300
Scientist	3,372,700	2,509,100	502,300	163,000	134,500	12,500
Biological/life scientist	554,500	422,500	78,500	20,400	23,100	3,900
Agricultural/food scientist	48,500	40,300	4,600	1,400	1,800	S
Biological/medical scientist	298,500	211,500	57,600	9,500	14,100	2,000
Forestry and conservation scientist	39,500	36,900	S	800	1,200	S
Postsecondary teacher	168,100	133,800	16,200	8,700	6,100	1,300
Computer and information scientist	1,883,400	1,335,800	342,900	96,600	72,800	3,200
Computer/information scientist	1,849,000	1,308,800	338,600	95,300	71,200	3,200
Postsecondary teacher	34,400	27,000	4,300	1,300	1,500	S
Mathematical scientist	125,100	95,700	14,600	9,300	3,800	400
Mathematical scientist	67,000	52,800	7,700	3,600	1,800	S
Postsecondary teacher	58,000	42,900	6,900	5,800	2,000	S
Physical scientist	315,100	248,900	38,600	8,800	12,600	1,500
Chemist, except biochemist	124,200	86,700	22,900	5,700	6,100	400
Earth scientist/geologist/oceanographer	71,300	64,800	2,600	500	2,200	300
Physicist/astronomer	30,500	24,200	4,900	600	600	S
Other physical scientist	37,300	30,700	2,800	900	1,900	S
Postsecondary teacher	51,700	42,500	5,400	1,000	1,800	200
Psychologist	212,000	180,200	7,000	10,300	11,100	1,000
Psychologist	180,800	154,600	5,200	8,900	9,500	800
Postsecondary teacher	31,200	25,600	1,800	1,400	1,600	200
Social scientist	282,600	225,900	20,700	17,700	11,200	2,500
Economist	34,500	26,600	3,800	2,600	900	S
Political scientist	14,200	11,500	300	600	1,000	S
Sociologist/anthropologist	21,700	18,100	100	1,700	1,600	S
Other social scientist	137,800	109,900	10,300	8,800	4,800	S
Postsecondary teacher	74,400	59,700	6,300	4,000	2,900	600
Engineer	1,554,900	1,197,000	194,800	52,800	79,700	4,800
Aerospace engineer	95,200	77,900	7,100	2,300	4,500	S
Chemical engineer	74,600	54,700	12,600	1,900	3,200	1,100
Civil engineer	247,300	187,900	24,200	8,200	17,400	1,300
Electrical engineer	367,400	252,900	77,100	14,600	17,900	500
Industrial engineer	85,700	64,200	8,000	5,100	7,500	S
Mechanical engineer	272,100	222,800	27,800	5,700	12,300	S
Other engineer	379,600	313,300	31,900	13,500	15,500	800
Postsecondary teacher	33,000	23,400	6,300	1,600	1,500	S
S&E related occupations	5,220,600	4,071,300	482,100	287,400	266,700	20,800
Health related occupation	3,404,800	2,602,700	350,300	197,600	175,600	13,200
S&E manager	385,700	326,900	27,500	12,900	11,800	1,500
S&E precollege teacher	715,900	596,700	14,400	49,900	41,000	3,200
S&E technician/technologist	499,600	372,400	71,100	19,800	26,300	1,600
Other S&E related occupation	214,500	172,600	18,900	7,300	11,900	S
Non-S&E occupations	7,871,300	6,176,500	542,700	533,000	456,000	38,100
Art, humanities and related occupation	247,700	205,500	9,800	9,200	19,200	S
Management related occupation	1,310,600	983,800	125,200	97,300	72,500	10,000
Non-S&E manager	919,700	779,000	44,500	47,600	37,400	3,200
Non-S&E postsecondary teacher	139,200	106,200	9,700	8,700	11,400	1,400
Non-S&E precollege teacher	599,800	463,500	18,700	57,800	47,200	2,700
Sales and marketing occupation	1,322,100	1,080,600	102,000	53,300	57,400	5,200
Social services and related occupation	621,000	449,800	18,700	84,400	51,800	5,000
Other non-S&E occupation	2,711,400	2,108,000	214,100	174,600	159,200	9,400
Bachelor's	10,484,300	8,131,800	871,500	647,900	588,300	47,100
S&E occupations	2,799,200	2,178,700	278,900	139,400	138,900	11,000

TABLE H-6. Employed scientists and engineers, by occupation, highest degree level, and race/ethnicity: 2003

Highest degree and occupation	All races/ethnicities	White	Asian	Black	Hispanic	American Indian/Alaska Native
Scientist	1,789,700	1,374,000	194,500	99,900	82,300	6,800
Biological/life scientist	195,500	157,100	15,900	7,800	8,700	2,900
Agricultural/food scientist	26,100	22,900	1,200	S	S	S
Biological/medical scientist	118,200	90,600	12,800	4,800	5,800	1,700
Forestry and conservation scientist	28,600	26,400	S	S	1,100	S
Postsecondary teacher	22,600	17,200	1,900	1,800	700	S
Computer and information scientist	1,292,700	976,400	160,400	73,900	57,100	2,400
Computer/information scientist	1,281,400	966,600	160,000	73,600	56,400	2,400
Postsecondary teacher	11,300	9,800	S	S	700	S
Mathematical scientist	38,700	32,500	1,600	2,700	900	S
Mathematical scientist	28,800	24,900	S	1,700	S	S
Postsecondary teacher	9,900	7,600	S	1,100	200	S
Physical scientist	139,400	111,100	11,000	5,500	7,800	900
Chemist, except biochemist	68,900	50,600	7,300	4,100	4,600	S
Earth scientist/geologist/oceanographer	33,300	31,200	S	S	900	S
Physicist/astronomer	5,100	3,600	900	S	200	S
Other physical scientist	22,300	18,900	1,100	S	1,100	S
Postsecondary teacher	9,800	6,900	S	200	900	S
Psychologist	15,900	11,500	S	1,400	2,300	S
Psychologist	14,000	10,200	S	S	1,800	S
Postsecondary teacher	1,900	1,300	S	S	S	S
Social scientist	107,600	85,300	4,900	8,600	5,600	S
Economist	8,800	6,000	S	S	500	S
Political scientist	8,600	6,600	S	S	S	S
Sociologist/anthropologist	8,700	6,600	S	S	1,300	S
Other social scientist	74,200	59,600	3,900	5,600	2,700	S
Postsecondary teacher	7,200	6,500	S	S	S	S
Engineer	1,009,500	804,700	84,400	39,500	56,600	4,100
Aerospace engineer	53,200	42,500	3,800	1,900	2,600	S
Chemical engineer	45,200	35,300	4,300	1,200	2,100	S
Civil engineer	173,800	134,900	11,100	6,200	13,200	1,300
Electrical engineer	228,900	164,600	36,600	11,100	13,400	S
Industrial engineer	60,500	46,600	3,400	4,500	5,200	S
Mechanical engineer	187,900	159,000	12,100	4,500	9,800	S
Other engineer	254,600	217,700	12,300	9,800	10,100	600
Postsecondary teacher	5,400	4,000	800	S	300	S
S&E related occupations	2,938,500	2,272,200	246,100	184,600	157,900	14,000
Health related occupation	1,812,700	1,364,800	171,800	131,000	92,200	7,300
S&E manager	219,200	188,100	12,100	8,800	6,200	S
S&E precollege teacher	356,800	292,200	6,500	22,700	26,900	3,000
S&E technician/technologist	401,100	309,100	42,200	16,800	23,500	1,600
Other S&E related occupation	148,700	118,000	13,400	5,300	9,100	S
Non-S&E occupations	4,746,600	3,680,900	346,500	323,900	291,500	22,100
Art, humanities and related occupation	159,900	128,200	6,000	5,700	16,000	S
Management related occupation	793,500	598,800	69,500	58,300	47,300	5,300
Non-S&E manager	455,300	390,000	19,200	21,200	20,800	S
Non-S&E postsecondary teacher	25,800	18,600	2,300	1,600	3,200	S
Non-S&E precollege teacher	303,600	225,500	10,700	28,600	31,500	1,000
Sales and marketing occupation	980,000	811,600	70,800	40,400	38,800	2,600
Social services and related occupation	240,000	158,300	7,900	41,800	24,100	3,300
Other non-S&E occupation	1,788,500	1,350,000	160,100	126,400	109,800	7,300
Master's	4,976,800	3,854,400	524,500	292,200	216,700	19,500
S&E occupations	1,453,300	1,035,400	288,300	53,100	52,900	2,900
Scientist	1,003,700	703,700	207,500	41,800	32,600	2,700
Biological/life scientist	128,700	102,200	14,400	5,100	5,200	S
Agricultural/food scientist	12,500	9,700	1,900	400	S	S

TABLE H-6. Employed scientists and engineers, by occupation, highest degree level, and race/ethnicity: 2003

Highest degree and occupation	All races/ethnicities	White	Asian	Black	Hispanic	American Indian/Alaska Native
Biological/medical scientist	62,700	46,600	10,300	1,400	3,600	S
Forestry and conservation scientist	9,000	9,000	S	S	S	S
Postsecondary teacher	44,500	36,900	2,200	3,300	1,200	S
Computer and information scientist	526,900	317,900	164,400	20,700	14,600	700
Computer/information scientist	514,700	308,600	162,700	20,100	14,000	700
Postsecondary teacher	12,200	9,300	1,600	S	S	S
Mathematical scientist	51,300	39,000	5,800	3,900	2,100	S
Mathematical scientist	25,300	19,100	3,700	1,600	800	S
Postsecondary teacher	26,000	19,900	2,100	2,300	1,300	S
Physical scientist	82,900	66,500	10,100	1,900	2,900	S
Chemist, except biochemist	25,300	15,800	7,200	1,100	900	S
Earth scientist/geologist/oceanographer	27,200	25,000	S	S	1,000	S
Physicist/astronomer	8,300	7,200	800	S	S	S
Other physical scientist	10,200	8,500	S	S	700	S
Postsecondary teacher	12,100	10,100	1,500	200	100	S
Psychologist	107,600	91,400	3,800	5,500	5,100	S
Psychologist	99,800	85,500	2,600	5,300	4,900	S
Postsecondary teacher	7,800	5,800	S	S	S	S
Social scientist	106,200	86,700	9,100	4,700	2,600	S
Economist	16,500	13,200	2,000	600	S	S
Political scientist	4,000	3,700	S	S	S	S
Sociologist/anthropologist	7,900	7,000	S	S	S	S
Other social scientist	55,800	44,900	5,600	2,300	1,400	S
Postsecondary teacher	22,100	18,000	1,300	1,200	900	S
Engineer	449,600	331,700	80,800	11,300	20,400	S
Aerospace engineer	36,700	31,300	2,300	S	1,900	S
Chemical engineer	20,500	14,100	5,600	S	500	S
Civil engineer	68,300	49,900	11,400	1,900	4,000	S
Electrical engineer	117,500	76,900	31,600	3,300	4,100	S
Industrial engineer	22,600	15,700	3,900	600	2,200	S
Mechanical engineer	74,100	57,900	11,800	1,100	2,400	S
Other engineer	102,100	80,300	12,800	3,500	5,000	S
Postsecondary teacher	7,800	5,700	1,300	S	500	S
S&E related occupations	1,196,200	983,100	86,600	64,600	43,700	3,500
Health related occupation	568,300	468,500	38,700	31,300	20,800	2,700
S&E manager	135,300	113,900	11,000	3,100	4,800	S
S&E precollege teacher	341,100	290,500	7,400	25,300	12,600	S
S&E technician/technologist	89,400	58,200	25,100	2,900	2,700	S
Other S&E related occupation	62,100	52,000	4,600	2,000	2,900	S
Non-S&E occupations	2,327,400	1,835,900	149,500	174,600	120,100	13,100
Art, humanities and related occupation	73,700	65,300	2,300	3,300	2,800	S
Management related occupation	457,400	337,500	49,700	36,000	22,400	4,500
Non-S&E manager	362,100	302,700	18,300	21,100	13,800	1,500
Non-S&E postsecondary teacher	63,000	48,900	2,900	3,700	5,400	S
Non-S&E precollege teacher	283,100	228,700	7,800	28,300	14,300	S
Sales and marketing occupation	303,500	238,500	26,600	12,000	16,200	S
Social services and related occupation	352,800	272,100	9,300	39,300	24,100	1,600
Other non-S&E occupation	431,700	342,300	32,700	30,900	21,100	S
Doctorate	883,700	660,900	151,200	34,500	29,300	4,400
S&E occupations	581,800	424,300	116,100	19,200	17,200	3,400
Scientist	488,400	365,500	86,700	17,300	14,500	3,000
Biological/life scientist	171,600	122,900	37,200	4,600	5,600	900
Agricultural/food scientist	9,200	7,200	1,300	300	300	S
Biological/medical scientist	102,600	65,700	30,500	2,400	3,500	300
Forestry and conservation scientist	1,800	1,500	S	S	S	S
Postsecondary teacher	58,000	48,400	5,300	1,700	1,800	400

TABLE H-6. Employed scientists and engineers, by occupation, highest degree level, and race/ethnicity: 2003

Highest degree and occupation	All races/ethnicities	White	Asian	Black	Hispanic	American Indian/Alaska Native
Computer and information scientist	53,400	33,400	16,900	1,800	1,000	200
Computer/information scientist	42,600	25,600	14,600	1,300	800	S
Postsecondary teacher	10,900	7,800	2,300	500	300	S
Mathematical scientist	33,000	22,600	6,800	2,700	900	S
Mathematical scientist	11,000	7,300	3,000	300	300	S
Postsecondary teacher	22,100	15,400	3,800	2,400	500	S
Physical scientist	90,500	69,200	17,400	1,400	1,900	500
Chemist, except biochemist	29,900	20,300	8,200	600	600	200
Earth scientist/geologist/oceanographer	10,200	8,000	1,800	S	300	S
Physicist/astronomer	16,800	13,300	3,100	100	200	S
Other physical scientist	4,000	2,600	1,300	100	S	S
Postsecondary teacher	29,600	25,200	2,900	600	800	200
Psychologist	74,700	66,100	2,000	3,000	2,500	700
Psychologist	54,600	48,800	1,400	2,000	1,700	500
Postsecondary teacher	20,100	17,400	600	900	800	200
Social scientist	65,000	51,200	6,400	3,800	2,500	700
Economist	8,500	6,800	1,100	300	300	S
Political scientist	1,500	1,200	S	100	100	S
Sociologist/anthropologist	5,100	4,500	100	300	100	S
Other social scientist	6,200	4,600	600	500	400	S
Postsecondary teacher	43,700	34,200	4,500	2,600	1,600	500
Engineer	93,400	58,700	29,400	1,900	2,600	400
Aerospace engineer	5,100	4,000	1,000	100	S	S
Chemical engineer	9,000	5,300	2,700	300	700	S
Civil engineer	5,100	3,100	1,700	S	200	S
Electrical engineer	20,700	11,300	8,700	300	400	S
Industrial engineer	2,400	1,700	700	S	S	S
Mechanical engineer	9,600	5,500	3,800	100	200	S
Other engineer	21,900	14,400	6,700	200	400	S
Postsecondary teacher	19,600	13,600	4,100	900	700	S
S&E related occupations	81,700	62,100	12,200	3,300	3,200	300
Health related occupation	33,700	24,500	4,800	1,400	2,500	100
S&E manager	26,000	21,000	3,600	800	400	100
S&E precollege teacher	11,900	10,000	300	1,200	300	S
S&E technician/technologist	7,500	4,500	3,000	S	S	S
Other S&E related occupation	2,600	2,200	400	S	S	S
Non-S&E occupations	220,200	174,600	22,800	12,000	8,900	700
Art, humanities and related occupation	9,600	8,400	1,000	100	100	S
Management related occupation	31,300	24,200	4,800	1,100	1,100	S
Non-S&E manager	73,400	61,900	5,900	3,800	1,500	200
Non-S&E postsecondary teacher	45,400	35,200	4,400	2,800	2,100	100
Non-S&E precollege teacher	8,100	6,100	200	300	1,300	S
Sales and marketing occupation	17,700	13,800	3,200	200	400	S
Social services and related occupation	12,300	8,500	700	2,300	600	S
Other non-S&E occupation	22,400	16,500	2,500	1,200	1,700	S

S = suppressed because fewer than 50 weighted cases.

NOTES: Numbers are rounded to nearest 100. Detail may not add to total because of rounding. Total includes Native Hawaiian/other Pacific Islander and multiple race not shown separately. All degrees includes professional degrees not shown separately. Differences in estimates of scientists and engineers in the tables in this report reflect different data sources. Data from the Current Population Survey cover employed persons 16 years and older regardless of degree status. Data based on the SESTAT surveys cover persons with bachelor's or higher degrees who were either educated as or working as scientists or engineers.

SOURCE: National Science Foundation, Division of Science Resources Statistics, Scientist and Engineer Statistical Data System (SESTAT).

TABLE H-7. Employed scientists and engineers, by occupation, highest degree level, race/ethnicity and sex: 2003

Highest degree and occupation	American Indian/Alaska Native									
	All races/ethnicities		White		Asian		Black		Hispanic	
	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male
All degrees	7,582,200	10,437,200	5,694,700	8,259,200	704,800	1,017,100	583,000	453,200	427,600	509,300
S&E occupations	1,330,500	3,597,100	966,100	2,740,000	186,600	510,500	88,900	126,900	62,900	151,400
Scientist	1,158,200	2,214,500	854,700	1,654,400	154,900	347,400	78,300	84,700	49,900	84,600
Biological/life scientist	240,400	314,200	181,300	241,200	32,500	46,000	11,600	8,700	11,500	11,700
Computer and information scientist	519,700	1,363,700	359,400	976,500	91,900	251,000	40,700	55,900	18,000	54,700
Mathematical scientist	50,100	75,000	36,900	58,900	5,200	9,400	5,900	3,400	1,500	2,300
Physical scientist	89,900	225,100	65,200	183,700	14,100	24,600	2,700	6,100	5,000	7,600
Psychologist	136,600	75,400	113,600	66,700	4,200	2,900	8,000	2,300	8,400	2,700
Social scientist	121,500	161,100	98,400	127,500	7,100	13,600	9,300	8,300	5,500	5,700
Engineers	172,300	1,382,500	111,400	1,085,600	31,700	163,100	10,600	42,200	13,000	66,800
S&E related occupations	2,886,900	2,333,700	2,214,500	1,856,800	265,800	216,400	201,800	85,600	137,400	129,300
Non-S&E occupations	3,364,900	4,506,400	2,514,100	3,662,400	252,400	290,300	292,300	240,700	227,400	228,600
Bachelor's	4,575,300	5,909,100	3,419,500	4,712,300	397,000	474,500	362,300	285,600	277,800	310,500
S&E occupations	696,000	2,103,200	514,700	1,664,000	74,900	204,000	54,500	84,900	37,100	101,800
Scientist	588,600	1,201,100	443,600	930,500	59,100	135,400	46,500	53,500	29,000	53,300
Biological/life scientist	93,500	102,000	72,500	84,600	9,400	6,500	4,900	2,900	5,300	3,300
Computer and information scientist	367,300	925,400	271,100	705,300	42,200	118,100	32,600	41,300	15,300	41,800
Mathematical scientist	18,200	20,500	15,700	16,800	700	S	1,000	1,700	700	S
Physical scientist	49,400	90,000	36,500	74,700	5,500	5,500	2,000	3,400	3,100	4,600
Psychologist	9,300	6,500	6,900	4,600	S	S	S	S	1,600	S
Social scientist	50,800	56,800	40,900	44,400	S	3,800	5,300	3,300	2,800	S
Engineers	107,400	902,100	71,100	733,600	15,900	68,500	8,100	31,400	8,100	48,500
S&E related occupations	1,837,400	1,101,100	1,397,600	874,600	159,600	86,500	138,300	46,300	90,600	67,300
Non-S&E occupations	2,041,800	2,704,800	1,507,200	2,173,600	162,500	184,000	169,500	154,400	150,100	141,400
Master's	2,221,900	2,754,900	1,705,700	2,148,700	195,900	328,600	178,100	114,100	105,200	111,500
S&E occupations	437,000	1,016,200	305,800	729,600	81,500	206,800	24,400	28,700	17,100	35,900
Scientist	381,500	622,100	271,200	432,500	68,500	139,000	22,200	19,600	12,600	20,000
Biological/life scientist	66,400	62,300	51,300	50,900	7,500	6,900	4,100	1,000	2,700	2,600
Computer and information scientist	142,000	384,800	81,700	236,200	46,800	117,500	7,600	13,100	2,300	12,300
Mathematical scientist	22,300	29,100	15,900	23,100	2,600	3,200	2,800	1,100	700	1,400
Physical scientist	27,000	55,900	19,000	47,500	5,600	4,400	400	1,500	1,500	1,300
Psychologist	77,800	29,800	65,300	26,100	2,000	1,800	4,800	700	4,100	1,100
Social scientist	46,000	60,200	38,100	48,600	3,900	5,200	2,500	2,300	1,300	1,300
Engineers	55,500	394,100	34,600	297,100	13,000	67,800	2,300	9,000	4,500	15,900
S&E related occupations	717,200	479,000	592,700	390,300	41,900	44,800	46,200	18,300	26,500	17,200
Non-S&E occupations	1,067,700	1,259,700	807,200	1,028,800	72,500	77,000	107,500	67,100	61,600	58,400

TABLE H-7. Employed scientists and engineers, by occupation, highest degree level, race/ethnicity and sex: 2003

Highest degree and occupation	All races/ethnicities		White		Asian		Black		Hispanic		American Indian/ Alaska Native	
	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male
Doctorate	256,900	626,900	192,700	468,200	35,100	116,100	14,800	19,700	10,900	18,400	1,400	3,000
S&E occupations	162,200	419,600	121,200	303,100	24,400	91,700	8,500	10,600	6,100	11,100	1,100	2,300
Scientist	153,500	334,800	116,200	249,300	21,600	65,100	8,300	8,900	5,700	8,800	900	2,100
Biological/life scientist	61,200	110,500	45,300	77,600	11,200	26,100	1,900	2,700	2,200	3,500	300	500
Computer and information scientist	8,200	45,200	4,600	28,800	2,600	14,300	600	1,200	400	700	S	200
Mathematical scientist	8,500	24,500	4,600	18,000	1,600	5,200	2,100	500	100	700	S	S
Physical scientist	13,300	77,300	9,700	59,600	2,900	14,500	300	1,100	300	1,600	100	400
Psychologist	39,500	35,200	33,600	32,500	1,600	500	2,100	800	1,600	900	300	400
Social scientist	22,800	42,200	18,400	32,900	1,800	4,600	1,200	2,600	1,000	1,500	100	500
Engineers	8,600	84,800	5,000	53,700	2,800	26,600	200	1,700	400	2,300	S	200
S&E related occupations	29,800	51,900	22,700	39,400	4,200	8,000	1,400	2,000	1,000	2,200	100	200
Non-S&E occupations	64,900	155,300	48,800	125,700	6,400	16,400	4,900	7,100	3,800	5,100	200	500

S = suppressed because fewer than 50 weighted cases.

NOTES: Numbers are rounded to nearest 100. Detail may not add to total because of rounding. Total includes Native Hawaiian/Other Pacific Islander and multiple race not shown separately. All degrees includes professional degrees not shown separately. Differences in estimates of scientists and engineers in the tables in this report reflect different data sources. Data from the Current Population Survey cover employed persons 16 years and older regardless of degree status. Data based on the SESTAT surveys cover persons with bachelor's or higher degrees who were either educated as or working as scientists or engineers.

SOURCE: National Science Foundation, Division of Science Resources Statistics, Scientist and Engineers Statistical Data System (SESTAT).

TABLE H-8. Employed scientists and engineers, by occupation, highest degree level, and disability status: 2003

Occupation	All degrees			Bachelor's			Master's			Doctorate		
	Total	No disability	With disability	Total	No disability	With disability	Total	No disability	With disability	Total	No disability	With disability
All occupations	18,019,400	17,022,100	997,300	10,484,300	9,911,900	572,500	4,976,800	4,697,000	279,900	883,700	824,600	59,200
S&E occupations	4,927,500	4,678,100	249,500	2,799,200	2,663,100	136,200	1,453,300	1,382,900	70,400	581,800	543,700	38,100
Scientist	3,372,700	3,200,800	171,800	1,789,700	1,702,700	87,000	1,003,700	955,400	48,300	488,400	456,600	31,800
Biological/life scientist	554,500	523,600	31,000	195,500	183,100	12,300	128,700	121,800	7,000	171,600	161,500	10,100
Agricultural/food scientist	48,500	45,300	3,200	26,100	24,500	1,500	12,500	11,500	1,000	9,200	8,700	500
Biological/medical scientist	298,500	284,800	13,700	118,200	112,300	5,900	62,700	60,300	2,500	102,600	97,400	5,200
Forestry and conservation scientist	39,500	35,300	4,200	28,600	25,600	3,000	9,000	7,900	S	1,800	1,700	S
Postsecondary teacher	168,100	158,100	9,900	22,600	20,700	1,900	44,500	42,100	2,400	58,000	53,600	4,300
Computer and information scientist	1,883,400	1,796,600	86,800	1,292,700	1,231,200	61,500	526,900	505,300	21,600	53,400	50,500	2,900
Computer/information scientist	1,849,000	1,763,900	85,100	1,281,400	1,220,500	60,900	514,700	493,500	21,200	42,600	40,300	2,300
Postsecondary teacher	34,400	32,800	1,600	11,300	10,700	S	12,200	11,800	S	10,900	10,200	700
Mathematical scientist	125,100	117,100	8,000	38,700	36,400	2,300	51,300	47,800	3,500	33,000	31,300	1,800
Mathematical scientist	67,000	62,800	4,300	28,800	26,800	2,100	25,300	24,100	1,200	11,000	10,400	600
Postsecondary teacher	58,000	54,300	3,700	9,900	9,600	S	26,000	23,700	2,300	22,100	20,900	1,200
Physical scientist	315,100	299,500	15,600	139,400	134,400	5,000	82,900	78,300	4,600	90,500	85,300	5,200
Chemist, except biochemist	124,200	118,800	5,400	68,900	65,600	3,300	25,300	24,500	S	29,900	28,600	1,400
Earth scientist/geologist/oceanographer	71,300	67,200	4,100	33,300	32,300	1,000	27,200	25,500	1,700	10,200	9,400	800
Physicist/astronomer	30,500	29,300	1,200	5,100	5,100	S	8,300	8,100	S	16,800	15,900	900
Other physical scientist	37,300	36,300	1,000	22,300	21,700	S	10,200	9,900	S	4,000	3,900	100
Postsecondary teacher	51,700	47,900	3,900	9,800	9,700	S	12,100	10,300	S	29,600	27,600	2,100
Psychologist	212,000	197,200	14,800	15,900	15,400	S	107,600	100,400	7,200	74,700	68,700	6,000
Psychologist	180,800	168,900	11,900	14,000	13,500	S	99,800	93,700	6,100	54,600	50,400	4,200
Postsecondary teacher	31,200	28,300	3,000	1,900	1,900	S	7,800	6,700	1,100	20,100	18,300	1,900
Social scientist	282,600	266,900	15,700	107,600	102,100	5,500	106,200	101,800	4,400	65,000	59,300	5,700
Economist	34,500	32,700	1,800	8,800	8,400	S	16,500	15,700	S	8,500	7,900	600
Political scientist	14,200	12,700	1,500	8,600	7,600	S	4,000	3,800	S	1,500	1,200	300
Sociologist/anthropologist	21,700	20,200	1,500	8,700	7,800	S	7,900	7,700	S	5,100	4,800	300
Other social scientist	137,800	133,000	4,800	74,200	71,200	3,000	55,800	54,600	S	6,200	5,700	500
Postsecondary teacher	74,400	68,300	6,100	7,200	7,100	S	22,100	20,100	2,000	43,700	39,700	4,000
Engineer	1,554,900	1,477,200	77,600	1,009,500	960,300	49,200	449,600	427,500	22,100	93,400	87,100	6,300
Aerospace engineer	95,200	91,000	4,200	53,200	50,700	2,500	36,700	35,300	1,400	5,100	4,800	300
Chemical engineer	74,600	71,300	3,400	45,200	42,900	2,200	20,500	20,000	500	9,000	8,300	600
Civil engineer	247,300	233,500	13,800	173,800	163,800	10,000	68,300	64,800	3,500	5,100	4,800	300
Electrical engineer	367,400	352,400	15,100	228,900	221,200	7,700	117,500	111,100	6,400	20,700	19,900	900
Industrial engineer	85,700	81,000	4,700	60,500	57,900	2,600	22,600	21,400	1,100	2,400	1,500	S
Mechanical engineer	272,100	259,500	12,600	187,900	178,600	9,300	74,100	71,400	2,700	9,600	9,000	600
Other engineer	379,600	358,500	21,000	254,600	240,200	14,400	102,100	96,800	5,300	21,900	20,600	1,300
Postsecondary teacher	33,000	30,100	2,900	5,400	5,100	S	7,800	6,700	1,100	19,600	18,300	1,300

TABLE H-8. Employed scientists and engineers, by occupation, highest degree level, and disability status: 2003

Occupation	All degrees			Bachelor's			Master's			Doctorate		
	Total	No disability	With disability	Total	No disability	With disability	Total	No disability	With disability	Total	No disability	With disability
S&E related occupations	5,220,600	4,970,100	250,500	2,938,500	2,788,600	149,900	1,196,200	1,136,100	60,100	81,700	77,600	4,100
Health related occupation	3,404,800	3,262,300	142,500	1,812,700	1,730,500	82,200	568,300	545,600	22,800	33,700	32,000	1,600
S&E manager	385,700	370,100	15,600	219,200	210,800	8,400	135,300	130,000	5,300	26,000	24,300	1,700
S&E precollege teacher	715,900	667,200	48,700	356,800	331,300	25,400	341,100	318,300	22,800	11,900	11,500	400
S&E technician/technologist	499,600	473,700	25,900	401,100	379,700	21,400	89,400	85,200	4,200	7,500	7,300	300
Other S&E related occupation	214,500	196,700	17,700	148,700	136,300	12,500	62,100	57,000	5,100	2,600	2,500	S
Non-S&E occupations	7,871,300	7,373,900	497,400	4,746,600	4,460,200	286,400	2,327,400	2,178,000	149,400	220,200	203,300	17,000
Art, humanities and related occupation	247,700	237,100	10,600	159,900	153,700	6,200	73,700	70,400	3,400	9,600	8,800	800
Management related occupation	1,310,600	1,232,800	77,700	793,500	743,200	50,300	457,400	432,800	24,600	31,300	29,800	1,500
Non-S&E manager	919,700	865,800	53,900	455,300	428,500	26,800	362,100	341,500	20,600	73,400	68,300	5,000
Non-S&E postsecondary teacher	139,200	124,400	14,700	25,800	23,300	2,600	63,000	57,000	6,000	45,400	40,400	5,000
Non-S&E precollege teacher	599,800	566,400	33,300	303,600	287,700	15,800	283,100	265,800	17,300	8,100	7,900	200
Sales and marketing occupation	1,322,100	1,249,100	73,000	980,000	934,400	45,700	303,500	278,800	24,700	17,700	16,000	1,700
Social services and related occupation	621,000	577,800	43,100	240,000	227,100	12,900	352,800	325,100	27,700	12,300	11,600	800
Other non-S&E occupation	2,711,400	2,520,400	191,000	1,788,500	1,662,300	126,200	431,700	406,500	25,200	22,400	20,400	2,000

S = suppressed because fewer than 50 weighted cases.

NOTES: Numbers are rounded to nearest 100. Detail may not add to total because of rounding. All degrees includes professional degrees not shown separately. For disability status, those who reported any difficulty (from moderate to unable to do) in any category of seeing (with glasses/contact lenses), hearing (with hearing aid), walking, or lifting are classified as "with disability." Differences in estimates of scientists and engineers in the tables in this report reflect different data sources. Data from the Current Population Survey cover employed persons 16 years and older regardless of degree status. Data based on the SESTAT surveys cover persons with bachelor's or higher degrees who were either educated as or working as scientists or engineers.

SOURCE: National Science Foundation, Division of Science Resources Statistics, Scientists and Engineers Statistical Data System (SESTAT).

TABLE H-9. Employment status of scientists and engineers, by age, sex, race/ethnicity, and disability status: 2003

Age in years, sex, race/ethnicity, and disability status	Total	Employed		Not employed			Retired
		Full time	Part time	Postdoctoral appointment	Seeking employment	Not seeking employment	
All ages	21,644,100	15,958,600	2,041,000	19,800	595,000	1,418,500	1,611,200
Female	9,514,800	6,122,600	1,451,800	7,800	254,700	1,152,300	525,600
Male	12,129,300	9,836,000	589,200	12,000	340,300	266,300	1,085,600
White	16,863,200	12,226,000	1,715,300	12,500	406,600	1,088,100	1,414,600
Asian	2,048,800	1,560,400	155,800	5,700	94,000	174,400	58,400
Black	1,199,200	974,400	61,200	600	46,000	50,000	66,900
Hispanic	1,093,800	866,300	69,800	800	33,700	76,000	47,200
American Indian/Alaska Native	94,500	68,300	7,800	S	4,100	8,800	5,400
No disability	20,137,300	15,112,600	1,890,700	18,800	533,500	1,254,300	1,327,400
With disability	1,506,900	846,000	150,300	1,000	61,500	164,300	283,800
29 and younger	2,367,000	1,814,400	223,600	1,200	76,600	251,100	S
Female	1,316,800	957,100	148,000	500	40,600	170,600	S
Male	1,050,200	857,300	75,600	700	36,100	80,500	S
White	1,661,300	1,297,800	155,400	900	45,100	162,100	S
Asian	333,600	232,400	32,500	300	15,000	53,400	S
Black	147,900	116,800	12,200	S	7,200	11,600	S
Hispanic	153,500	116,500	13,300	S	6,900	16,700	S
American Indian/Alaska Native	7,500	5,500	1,000	S	S	1,000	S
No disability	2,307,700	1,769,300	218,800	1,200	72,600	245,700	S
With disability	59,300	45,100	4,800	S	4,000	5,400	S
30–39	5,575,500	4,440,300	510,100	14,500	152,500	454,300	3,800
Female	2,643,700	1,707,000	443,800	5,700	81,700	401,800	3,700
Male	2,931,800	2,733,300	66,300	8,800	70,800	52,600	S
White	4,079,700	3,215,600	419,000	9,100	88,200	344,500	3,200
Asian	684,700	541,900	47,000	4,500	30,700	60,600	S
Black	326,000	282,700	13,100	400	14,100	15,100	S
Hispanic	350,300	287,700	20,800	400	15,900	25,600	S
American Indian/Alaska Native	19,500	17,000	700	S	S	S	S
No disability	5,421,400	4,328,200	494,500	13,900	145,100	436,100	3,800
With disability	154,100	112,100	15,600	600	7,500	18,300	S
40–49	5,885,300	4,777,900	544,200	3,000	154,400	375,900	29,900
Female	2,703,600	1,814,200	464,200	1,200	68,600	335,900	19,500
Male	3,181,600	2,963,700	80,000	1,800	85,800	40,000	10,400
White	4,568,600	3,668,800	466,600	1,700	109,800	296,000	25,700
Asian	535,800	435,900	38,800	800	20,800	38,100	1,400
Black	342,000	308,000	10,800	100	11,300	10,300	S
Hispanic	329,700	279,700	19,500	300	6,400	23,200	S
American Indian/Alaska Native	36,100	25,000	2,700	S	S	5,600	S
No disability	5,541,700	4,543,100	503,100	2,700	136,200	330,700	25,900
With disability	343,600	234,800	41,200	200	18,200	45,200	4,000
50 and older	7,816,300	4,926,000	763,100	1,100	211,400	337,200	1,577,500
Female	2,850,700	1,644,300	395,800	400	63,800	244,000	502,400
Male	4,965,700	3,281,700	367,300	700	147,600	93,200	1,075,100
White	6,553,500	4,043,800	674,300	800	163,500	285,400	1,385,800
Asian	494,700	350,100	37,500	S	27,400	22,400	57,000
Black	383,300	266,900	25,100	S	13,400	13,100	64,900
Hispanic	260,200	182,400	16,200	100	4,500	10,600	46,500
American Indian/Alaska Native	31,300	20,900	3,400	S	S	2,100	4,800
No disability	6,866,400	4,472,000	674,400	1,000	179,600	241,800	1,297,700
With disability	949,900	454,000	88,700	200	31,800	95,400	279,800

S = suppressed because fewer than 50 weighted cases.

NOTES: Numbers are rounded to nearest 100. Detail may not add to total because of rounding. Total includes Native Hawaiian/other Pacific Islander and multiple race not shown separately. For disability status, those who reported any difficulty (from moderate to unable to do) in any category of seeing (with glasses/contact lenses), hearing (with hearing aid), walking, or lifting are classified as "with disability."

SOURCE: National Science Foundation, Division of Science Resources Statistics, Scientists and Engineers Statistical Data System (SESTAT).

TABLE H-10. Employment status of scientists and engineers with disabilities, by age at onset of disability: 2003

Employment status	All ages	Since birth	Younger than				50 years or older
			10 years	10–19 years	20–29 years	30–39 years	
All scientists and engineers	1,506,900	86,000	105,100	178,000	159,400	198,200	393,000
Employed in S&E occupations	499,900	36,700	39,400	77,000	62,500	65,800	136,000
Employed in non-S&E occupations	497,400	34,300	39,900	63,500	48,700	64,900	156,400
Not employed, seeking employment	61,500	1,800	5,300	11,200	10,800	8,900	13,800
Not employed, not seeking employment	448,100	13,200	20,500	26,200	37,400	58,500	86,800
							205,400

S = suppressed because fewer than 50 weighted cases.

NOTES: Numbers rounded to nearest 100. Detail may not add to total because of rounding. For disability status, those who reported any difficulty (from moderate to unable to do) in any category of seeing (with glasses/contact lenses), hearing (with hearing aid), walking, or lifting are classified as "with disability."

SOURCE: National Science Foundation, Division of Science Resources Statistics, Scientists and Engineers Statistical Data System (SESTAT).

TABLE H-11. Scientists and engineers employed part time, by preference for full-time employment and reason for working part time, sex, race/ethnicity, and disability status: 2003

Preference and reason for part time	Total	Race/ethnicity							Disability status	
		Sex							American Indian/Alaska Native	No disability
		Female	Male	White	Asian	Black	Hispanic			With disability
All part time	2,041,900	1,452,200	589,700	1,716,000	156,000	61,300	69,900	7,900	1,891,600	150,300
Preference for full-time status										
Did not want	1,758,900	1,299,500	459,400	1,513,100	120,600	42,300	53,800	6,000	1,644,000	114,900
Wanted	283,000	152,700	130,300	202,900	35,400	19,000	16,100	1,900	247,600	35,400
Reason for part-time status										
Chronic illness or permanent disability	71,100	38,200	32,900	59,000	3,100	4,800	3,000	500	44,500	26,600
Did not need/want to work full time	661,800	531,500	130,300	594,700	31,400	12,600	14,000	1,300	624,700	37,200
Family responsibilities	763,300	709,200	54,100	660,400	56,000	8,500	26,400	1,700	733,200	30,000
Retired	384,700	114,900	269,800	341,500	14,900	16,200	7,000	1,900	335,500	49,200
Student	230,000	139,100	90,900	151,600	43,800	11,800	14,100	1,300	220,800	9,300
Suitable full-time job not available	221,000	125,600	95,400	163,500	26,400	12,500	11,200	1,900	200,800	20,200
Other	241,300	173,800	67,500	196,600	17,900	11,700	9,800	1,500	222,000	19,300

NOTES: Numbers are rounded to nearest 100. Detail may not add to total because of rounding and because respondents could select more than one reason. Total includes Native Hawaiian/other Pacific Islander and multiple race not shown separately. For disability status, those who reported any difficulty (from moderate to unable to do) in any category of seeing (with glasses/contact lenses), hearing (with hearing aid), walking, or lifting are classified as "with disability."

SOURCE: National Science Foundation, Division of Science Resources Statistics, Scientists and Engineers Statistical Data System (SESTAT).

TABLE H-12. S&E doctorate holders who are unemployed or out of labor force, by reason for not working, sex, race/ethnicity, and disability status: 2003

Reason for not working	Total	Race/ethnicity							Disability status	
		Sex			White	Asian	Black	Hispanic	American Indian/ Alaska Native	No disability
		Female	Male							
All not working	140,100	42,000	98,100	114,000	15,900	4,500	4,000	500	117,400	22,700
Chronic illness or permanent disability	6,800	1,800	4,900	4,900	900	600	400	S	2,500	4,200
Did not need/want to work	18,400	8,000	10,400	16,300	1,400	300	300	S	16,100	2,300
Family responsibilities	12,800	11,300	1,500	8,200	2,100	800	1,300	S	12,100	700
Laid off	12,100	3,200	8,900	8,200	3,300	400	100	S	11,300	800
Retired	97,400	18,300	79,100	84,300	7,400	2,600	1,700	300	79,400	18,000
Student	4,300	1,800	2,500	3,300	700	200	S	S	4,200	S
Suitable job not available	14,100	6,100	8,000	9,400	2,900	1,300	500	S	12,900	1,200
Other	6,600	3,500	3,100	4,700	1,400	100	300	S	5,300	1,300
Percent distribution										
All not working	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Chronic illness or permanent disability	4.8	4.3	5.0	4.3	5.4	13.0	10.1	S	2.2	18.7
Did not need/want to work	13.1	19.1	10.6	14.3	9.0	5.9	6.5	S	13.7	9.9
Family responsibilities	9.1	26.9	1.5	7.2	13.4	18.4	32.0	S	10.3	3.1
Laid off	8.6	7.6	9.1	7.2	21.1	9.3	2.5	S	9.6	3.5
Retired	69.5	43.4	80.7	73.9	46.7	56.6	42.8	63.2	67.6	79.6
Student	3.0	4.2	2.5	2.9	4.5	4.5	S	S	3.6	S
Suitable job not available	10.1	14.4	8.2	8.3	18.1	28.2	11.9	S	11.0	5.4
Other	4.7	8.4	3.1	4.1	8.9	1.9	8.6	S	4.5	5.8

S = suppressed because fewer than 50 weighted cases.

NOTES: Numbers are rounded to nearest 100. Detail may not add to total because of rounding and because respondents could select more than one reason. Total includes Native Hawaiian/other Pacific Islander and multiple race not shown separately. For disability status, those who reported any difficulty (from moderate to unable to do) in any category of seeing (with glasses/contact lenses), hearing (with hearing aid), walking, or lifting are classified as "with disability."

SOURCE: National Science Foundation, Division of Science Resources Statistics, Scientists and Engineers Statistical Data System (SESTAT).

TABLE H-13. Primary education/employment status and median salary of 2001 and 2002 S&E bachelor's degree recipients, by field, sex, race/ethnicity, and disability status: 2003

Field, sex, race/ethnicity, and disability status	All bachelor's degree recipients	Not full-time student					Median salary for full-time employed ^a (\$)	
		Full-time student	Employed in S&E occupation		Employed in S&E-related occupation			
			Female	Male	non-S&E occupation	Not employed		
All S&E and health fields	937,700	222,000	157,700	129,500	358,700	69,800	36,000	
Sciences	682,200	185,100	89,700	25,200	327,400	54,700	32,000	
Female	383,600	106,100	34,300	18,600	189,900	34,700	30,000	
Male	298,600	79,000	55,400	6,600	137,600	20,100	35,000	
White	457,600	129,900	55,600	16,500	221,600	34,000	31,000	
Asian	92,400	25,100	21,700	3,600	33,500	8,500	38,000	
Underrepresented minority	132,200	30,200	12,400	5,100	72,300	12,200	32,000	
No disability	652,300	179,000	85,800	23,700	313,000	50,800	32,000	
With disability	29,800	6,000	3,900	1,500	14,500	3,900	34,000	
Biological/life sciences	150,700	61,400	21,300	13,900	44,400	9,800	30,000	
Female	89,200	34,000	12,400	9,800	26,400	6,600	29,000	
Male	61,600	27,500	8,900	4,000	18,000	3,200	32,000	
White	102,400	40,100	14,500	9,100	32,900	5,800	29,000	
Asian	23,500	12,700	3,400	S	4,000	S	30,000	
Underrepresented minority	24,900	8,600	3,400	2,900	7,400	2,500	32,000	
No disability	146,500	60,500	21,100	13,000	42,600	9,200	30,000	
With disability	4,300	900	S	S	1,700	S	33,000	
Computer and information sciences	84,800	6,400	38,600	S	33,600	5,700	45,000	
Female	24,700	2,500	9,300	S	11,500	1,400	44,000	
Male	60,100	3,900	29,300	S	22,100	4,300	46,000	
White	43,000	3,300	20,000	S	17,000	2,300	46,000	
Asian	27,500	S	13,700	S	9,800	2,000	47,000	
Underrepresented minority	14,300	1,200	4,900	S	6,800	1,400	40,000	
No disability	79,400	6,300	35,800	S	31,800	5,100	45,000	
With disability	5,400	S	2,800	S	1,800	S	50,000	
Mathematical sciences	25,600	6,000	4,100	S	13,700	1,500	36,000	
Female	11,800	2,100	2,200	S	6,500	900	35,000	
Male	13,800	3,900	2,000	S	7,200	600	38,000	
White	17,800	4,500	2,700	S	9,700	800	36,000	
Asian	4,400	900	800	S	2,200	S	40,000	
Underrepresented minority	3,400	700	600	S	1,800	300	36,000	
No disability	24,100	5,800	3,900	S	12,800	1,400	37,000	
With disability	1,500	S	S	S	900	S	34,000	
Physical and related sciences	35,700	15,500	8,500	1,000	8,800	1,900	35,000	
Female	16,800	7,100	3,700	900	4,200	1,000	34,000	
Male	18,900	8,400	4,800	S	4,600	900	36,000	
White	26,500	11,200	6,700	400	6,800	1,400	35,000	
Asian	4,200	2,100	700	S	1,000	S	40,000	
Underrepresented minority	5,000	2,200	1,100	500	1,000	200	34,000	
No disability	34,600	15,100	8,200	1,000	8,400	1,900	35,000	
With disability	1,100	500	300	S	300	S	35,000	
Psychology	153,000	44,600	4,400	6,300	82,700	15,200	28,000	
Female	114,200	31,800	2,100	5,400	62,200	12,700	28,000	
Male	38,800	12,800	2,200	S	20,400	2,400	30,000	
White	110,800	36,200	2,700	4,600	55,300	12,000	29,000	
Asian	7,800	S	S	S	4,600	S	24,000	
Underrepresented minority	34,400	7,800	1,000	S	22,700	2,500	28,000	
No disability	146,200	43,500	4,400	5,800	78,400	14,200	29,000	
With disability	6,800	1,100	S	S	4,200	S	27,000	
Social and related sciences	232,300	51,000	12,900	3,400	144,400	20,600	30,000	
Female	126,900	28,600	4,800	2,500	79,200	12,000	29,000	
Male	105,300	22,500	8,100	900	65,200	8,600	35,000	

TABLE H-13. Primary education/employment status and median salary of 2001 and 2002 S&E bachelor's degree recipients, by field, sex, race/ethnicity, and disability status: 2003

Field, sex, race/ethnicity, and disability status	All bachelor's degree recipients	Not full-time student					Median salary for full-time employed ^a (\$)	
		Full-time student	Employed in S&E occupation		Employed in S&E-related occupation			
			Occupation	Non-S&E occupation	Occupation	Non-S&E occupation		
White	157,100	34,600	9,000	2,000	99,800	11,800	30,000	
Asian	25,000	6,800	2,400	S	11,900	3,500	36,000	
Underrepresented minority	50,200	9,700	1,400	1,000	32,700	5,300	30,000	
No disability	221,600	47,800	12,600	3,200	138,900	19,100	30,000	
With disability	10,700	3,200	S	S	5,500	1,500	30,000	
Engineering	112,300	19,100	67,500	700	17,700	7,300	50,000	
Female	24,000	4,100	13,300	300	4,100	2,200	49,000	
Male	88,300	15,000	54,200	S	13,700	5,100	50,000	
White	71,400	11,100	45,300	S	10,800	4,000	49,000	
Asian	23,300	5,400	12,000	S	3,400	2,100	52,000	
Underrepresented minority	17,600	2,700	10,200	S	3,500	1,200	48,000	
No disability	108,600	18,500	65,200	600	17,400	6,900	50,000	
With disability	3,700	600	2,200	S	300	S	48,000	
Health	143,300	17,700	S	103,700	13,600	7,700	44,000	
Female	122,800	13,500	S	90,500	11,100	7,400	44,000	
Male	20,500	4,300	S	13,100	2,500	S	42,000	
White	108,800	11,100	S	81,000	10,800	5,600	43,000	
Asian	5,400	S	S	S	S	S	46,000	
Underrepresented minority	29,100	4,600	S	19,500	2,700	2,100	43,000	
No disability	140,900	17,500	S	102,700	13,100	7,100	43,000	
With disability	2,400	S	S	S	S	S	46,000	

S = suppressed data with weighted cases less than 100 or unweighted sample sizes less than 20 for reasons of respondent confidentiality or data reliability.

^a Salary data are for principal jobs only. Full-time employed are those working at least 35 hours per week at their principal jobs. Full-time students are excluded from salary data.

NOTES: Numbers are rounded to nearest 100, and median salaries are rounded to nearest \$1,000. Detail may not add to total because of rounding. The underrepresented minority category includes black, Hispanic, American Indian/Alaska Native, and Native Hawaiian/other Pacific Islander. For disability status, those who reported any difficulty (from moderate to unable to do) in any category of seeing (with glasses/contact lenses), hearing (with hearing aid), walking, or lifting are classified as "with disability."

SOURCE: National Science Foundation, Division of Science Resources Statistics, National Survey of Recent College Graduates, 2003.

TABLE H-14. Primary education/employment status and median salary of 2001 and 2002 S&E master's degree recipients, by field, sex, race/ethnicity, and disability status: 2003

Field, sex, race/ethnicity, and disability status	All master's degree recipients	Full-time student	Not full-time student				Median salary for full-time employed ^a (\$)
			Employed in S&E occupation	Employed in S&E-related occupation	Employed in non-S&E occupation	Not employed	
All S&E and health fields	246,700	40,900	75,800	58,900	51,600	19,400	52,000
Sciences	117,000	27,900	42,000	2,000	36,200	9,000	45,000
Female	62,800	14,400	18,900	1,600	22,000	5,900	40,000
Male	54,200	13,500	23,000	400	14,200	3,100	50,000
White	64,200	13,100	21,400	1,700	24,700	3,300	42,000
Asian	37,100	10,600	16,500	S	5,300	4,500	56,000
Underrepresented minority	15,700	4,200	4,100	200	6,100	1,100	43,000
No disability	112,100	26,300	40,700	2,000	34,500	8,600	45,000
With disability	4,900	1,600	1,300	S	1,700	300	40,000
Biological/life sciences	16,800	4,500	7,300	1,300	2,800	800	41,000
Female	9,400	2,400	3,600	1,200	1,600	700	38,000
Male	7,400	2,200	3,800	S	1,200	S	42,000
White	11,300	2,500	5,200	1,100	2,100	500	41,000
Asian	3,600	1,300	1,900	S	S	S	40,000
Underrepresented minority	1,900	700	300	S	500	200	38,000
No disability	16,400	4,300	7,200	1,300	2,800	800	41,000
With disability	400	S	S	S	S	S	39,000
Computer and information sciences	27,200	4,800	13,600	S	4,900	4,000	60,000
Female	10,200	2,200	4,400	S	1,500	2,100	58,000
Male	17,000	2,600	9,100	S	3,400	1,900	67,000
White	4,800	700	1,500	S	2,300	S	70,000
Asian	20,600	3,900	11,200	S	2,200	3,200	60,000
Underrepresented minority	1,800	S	900	S	300	400	54,000
No disability	26,000	4,500	13,100	S	4,400	3,900	63,000
With disability	1,200	S	S	S	S	S	50,000
Mathematical sciences	5,900	1,800	2,700	S	1,000	400	55,000
Female	2,300	500	1,000	S	500	300	51,000
Male	3,600	1,300	1,700	S	500	S	57,000
White	2,500	700	1,300	S	500	S	50,000
Asian	2,900	1,000	1,200	S	500	S	57,000
Underrepresented minority	400	100	200	S	100	S	55,000
No disability	5,900	1,800	2,700	S	1,000	400	55,000
With disability	S	S	S	S	S	S	S
Physical and related sciences	9,600	3,100	4,800	S	1,300	400	50,000
Female	3,400	700	1,800	S	600	200	45,000
Male	6,200	2,400	3,000	S	700	S	52,000
White	5,400	1,500	2,800	S	900	200	50,000
Asian	2,900	1,200	1,300	S	S	S	54,000
Underrepresented minority	1,300	400	700	S	100	S	48,000
No disability	9,300	3,000	4,700	S	1,300	400	50,000
With disability	200	S	S	S	S	S	62,000
Psychology	32,000	6,800	9,200	S	14,400	1,100	38,000
Female	23,500	4,500	6,500	S	11,300	900	38,000
Male	8,400	2,300	2,700	S	3,200	S	37,000
White	23,700	3,900	7,600	S	11,100	800	37,000
Asian	2,700	S	S	S	S	S	46,000
Underrepresented minority	5,600	1,500	1,100	S	2,700	300	38,000
No disability	29,900	6,600	8,600	S	13,500	900	38,000
With disability	2,000	S	S	S	1,000	S	30,000
Social and related sciences	25,500	6,800	4,400	300	11,700	2,400	43,000
Female	14,000	4,100	1,600	S	6,500	1,600	41,000
Male	11,600	2,700	2,700	S	5,200	800	43,000
White	16,500	3,800	3,100	S	7,900	1,400	43,000

TABLE H-14. Primary education/employment status and median salary of 2001 and 2002 S&E master's degree recipients, by field, sex, race/ethnicity, and disability status: 2003

Field, sex, race/ethnicity, and disability status	All master's degree recipients	Full-time student	Not full-time student				Median salary for full-time employed ^a (\$)
			Employed in S&E occupation	Employed in S&E-related occupation	Employed in non-S&E occupation	Not employed	
Asian	4,300	1,600	S	S	1,600	800	43,000
Underrepresented minority	4,700	1,300	900	S	2,300	200	42,000
No disability	24,600	6,100	4,400	300	11,400	2,300	43,000
With disability	1,000	600	S	S	300	S	45,000
Engineering	47,000	10,800	29,900	S	3,600	2,600	65,000
Female	9,200	2,000	5,200	S	900	1,000	60,000
Male	37,800	8,800	24,700	S	2,800	1,600	65,000
White	18,900	2,200	13,700	S	2,200	700	65,000
Asian	23,900	7,500	13,600	S	1,100	1,700	64,000
Underrepresented minority	4,200	1,100	2,600	S	300	200	65,000
No disability	45,700	10,600	29,100	S	3,500	2,400	65,000
With disability	1,300	S	700	S	S	S	65,000
Health	82,700	2,300	3,900	56,800	11,800	7,900	53,000
Female	64,300	S	2,600	45,500	7,300	7,900	50,000
Male	18,400	S	S	11,300	4,500	S	56,000
White	68,100	S	S	49,900	7,800	6,800	53,000
Asian	4,100	S	S	S	S	S	58,000
Underrepresented minority	10,500	S	1,900	3,400	4,000	S	52,000
No disability	79,200	2,300	3,900	55,400	11,000	6,600	53,000
With disability	3,500	S	S	S	S	S	43,000

S = suppressed data for weighted cases less than 100 or unweighted sample sizes less than 20 for respondent confidentiality and/or data reliability.

^a Salary data are for principal jobs only. Full-time employed are those working at least 35 hours per week at their principal jobs. Full-time students are excluded from salary data.

NOTES: Numbers are rounded to nearest 100, and median salaries are rounded to nearest \$1,000. Detail may not add to total because of rounding. The underrepresented minority category includes black, Hispanic, American Indian/Alaska Native, and Native Hawaiian/other Pacific Islander. For disability status, those who reported any difficulty (from moderate to unable to do) in any category of seeing (with glasses/contact lenses), hearing (with hearing aid), walking, or lifting are classified as "with disability."

SOURCE: National Science Foundation, Division of Science Resources Statistics, National Survey of Recent College Graduates, 2003.

TABLE H-15. Employment status and median salary of 2001 and 2002 S&E doctoral degree recipients, by broad field of doctorate, sex, race/ethnicity, and disability status: 2003

Field, sex, race/ethnicity, and disability status	All recipients	Employed				Not employed		Median salary for full-time employed ^a (\$)
		Total	Full time	Part time	Postdoc appointment	Seeking work	Not seeking work	
All S&E fields	49,700	47,400	33,100	2,900	11,400	1,100	1,200	53,000
Female	20,200	18,900	12,400	2,100	4,400	500	900	50,000
Male	29,500	28,500	20,700	800	7,000	600	400	55,000
White	32,500	31,100	21,500	2,300	7,300	700	700	52,000
Asian	12,300	11,600	8,000	300	3,300	300	400	60,000
Black	2,500	2,400	1,900	100	300	S	S	55,000
Hispanic	1,900	1,800	1,300	100	400	S	100	51,000
American Indian/Alaska Native	300	200	200	S	S	S	S	56,000
No disability	47,500	45,300	31,700	2,700	10,900	1,100	1,100	53,000
With disability	2,200	2,100	1,400	200	500	S	S	55,000
Sciences	37,600	35,700	23,300	2,400	10,000	800	1,000	50,000
Female	16,600	15,400	9,600	1,800	4,000	400	800	48,000
Male	21,000	20,300	13,700	600	6,000	400	300	50,000
White	26,200	24,900	16,300	1,900	6,700	700	700	50,000
Asian	7,600	7,200	4,300	200	2,700	100	300	48,000
Black	1,900	1,900	1,400	100	300	S	S	50,000
Hispanic	1,500	1,400	1,000	100	300	S	100	49,000
American Indian/Alaska Native	200	200	100	S	S	S	S	50,000
No disability	35,800	34,100	22,300	2,200	9,500	800	1,000	50,000
With disability	1,700	1,600	1,000	200	500	S	S	48,000
Biological/life sciences	12,500	11,700	5,600	300	5,800	300	500	41,000
Female	5,500	5,000	2,200	200	2,600	100	300	40,000
Male	6,900	6,700	3,400	S	3,200	S	100	42,000
White	8,100	7,700	3,600	300	3,800	200	300	41,000
Asian	3,200	3,000	1,300	S	1,600	100	200	40,000
Black	500	500	300	S	100	S	S	45,000
Hispanic	500	500	300	S	200	S	S	45,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S
No disability	12,000	11,300	5,400	300	5,600	300	500	41,000
With disability	400	400	200	S	200	S	S	38,000
Computer and information sciences	1,600	1,500	1,300	S	100	S	S	78,000
Female	300	300	200	S	S	S	S	75,000
Male	1,300	1,200	1,100	S	S	S	S	78,000
White	900	800	700	S	S	S	S	72,000
Asian	500	500	500	S	S	S	S	84,000
Black	100	100	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S
No disability	1,500	1,500	1,300	S	100	S	S	78,000
With disability	S	S	S	S	S	S	S	S
Health sciences	3,100	3,000	2,400	300	400	S	S	59,000
Female	2,000	1,900	1,500	300	200	S	S	60,000
Male	1,100	1,100	900	S	100	S	S	55,000
White	2,100	2,100	1,600	300	200	S	S	59,000
Asian	600	600	500	S	100	S	S	62,000
Black	200	200	200	S	S	S	S	67,000
Hispanic	100	100	S	S	S	S	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S
No disability	3,000	2,900	2,300	300	300	S	S	59,000
With disability	S	S	S	S	S	S	S	S
Mathematical sciences	1,900	1,800	1,400	S	400	S	S	57,000
Female	600	500	300	S	200	S	S	50,000
Male	1,300	1,300	1,100	S	200	S	S	60,000
White	1,300	1,300	900	S	300	S	S	57,000
Asian	400	400	300	S	S	S	S	60,000

TABLE H-15. Employment status and median salary of 2001 and 2002 S&E doctoral degree recipients, by broad field of doctorate, sex, race/ethnicity, and disability status: 2003

Field, sex, race/ethnicity, and disability status	All recipients	Employed				Not employed		Median salary for full-time employed ^a (\$)
		Total	Full time	Part time	Postdoc appointment	Seeking work	Not seeking work	
Black	100	100	S	S	S	S	S	S
Hispanic	100	100	S	S	S	S	S	S
No disability	1,800	1,700	1,300	S	400	S	S	58,000
With disability	S	S	S	S	S	S	S	S
Physical and related sciences	7,400	7,100	4,500	200	2,300	S	200	55,000
Female	2,000	1,800	1,300	100	400	S	100	58,000
Male	5,400	5,300	3,300	100	1,900	S	S	54,000
White	4,900	4,700	3,000	200	1,500	S	200	56,000
Asian	1,900	1,900	1,100	S	700	S	S	50,000
Black	300	300	200	S	S	S	S	52,000
Hispanic	200	200	100	S	100	S	S	57,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S
No disability	7,200	6,900	4,500	200	2,200	S	200	55,000
With disability	200	200	S	S	S	S	S	33,000
Psychology	7,300	6,900	4,800	1,100	1,000	200	200	50,000
Female	5,100	4,800	3,100	1,100	600	S	100	51,000
Male	2,300	2,100	1,700	S	400	S	S	50,000
White	5,900	5,600	3,900	1,000	700	200	S	50,000
Asian	500	500	300	S	200	S	S	45,000
Black	500	500	300	S	100	S	S	50,000
Hispanic	300	300	200	100	S	S	S	51,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S
No disability	6,700	6,400	4,400	1,000	900	100	200	50,000
With disability	600	500	400	S	S	S	S	60,000
Social sciences	6,900	6,600	5,600	600	400	200	200	52,000
Female	3,200	2,900	2,400	300	200	S	100	50,000
Male	3,800	3,700	3,200	300	200	S	S	53,000
White	5,100	4,800	4,100	400	300	200	100	50,000
Asian	900	900	800	S	S	S	S	60,000
Black	500	500	400	S	S	S	S	54,000
Hispanic	300	300	300	S	S	S	S	49,000
American Indian/Alaska Native	100	100	S	S	S	S	S	S
No disability	6,600	6,300	5,400	500	400	200	100	52,000
With disability	400	300	300	S	S	S	S	48,000
Engineering	9,100	8,700	7,500	200	1,000	300	100	73,000
Female	1,600	1,600	1,300	S	200	S	S	78,000
Male	7,400	7,100	6,100	200	800	200	S	72,000
White	4,200	4,200	3,600	S	500	S	S	72,000
Asian	4,100	3,800	3,300	S	500	200	S	74,000
Black	300	300	300	S	S	S	S	78,000
Hispanic	300	300	300	S	S	S	S	70,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S
No disability	8,700	8,300	7,100	200	1,000	S	S	71,000
With disability	400	400	400	S	S	S	S	82,000

S = suppressed data with weighted cases less than 50 or fewer than 5 respondents and with weighted cases less than 200 for salary data.

^a Salary data for those whose principal job was less than 35 hours per week are not included. Salary data are for principal job only.

NOTES: Numbers are rounded to nearest 10 and median salaries to nearest \$1,000. Detail may not add to total because of rounding. Total includes Native Hawaiian/other Pacific Islander and multiple race not shown separately. For disability status, those who reported any difficulty (from moderate to unable to do) in any category of seeing (with glasses/contact lenses), hearing (with hearing aid), walking, or lifting are classified as "with disability."

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Doctorate Recipients, 2003.

TABLE H-16. Median annual salary of scientists and engineers employed full time, by highest degree, broad occupation, age group, and sex: 2003
(Dollars)

Occupation and age (years)	All degrees			Bachelor's			Master's			Doctorate		
	Both sexes	Female	Male	Both sexes	Female	Male	Both sexes	Female	Male	Both sexes	Female	Male
All occupations	60,000	49,000	70,000	53,600	44,900	62,000	63,100	52,000	74,000	77,000	63,000	83,000
29 and younger	40,000	38,000	45,000	39,000	35,000	45,000	45,000	41,000	50,000	44,000	40,000	53,000
30-39	58,500	48,700	65,000	54,000	45,000	60,000	61,000	49,000	70,000	62,400	55,000	70,000
40-49	68,000	54,000	78,500	60,900	50,000	70,000	70,000	56,600	80,000	78,000	65,000	83,500
50 and older	65,000	52,000	75,000	57,000	45,200	65,000	65,000	55,000	73,500	86,500	70,000	90,000
S&E occupations	69,500	58,000	72,000	65,000	55,000	69,500	72,100	60,000	78,000	75,000	61,000	80,000
29 and younger	49,000	43,000	52,000	48,000	42,000	51,000	52,000	45,800	58,000	40,000	40,000	53,600
30-39	65,000	59,000	68,500	65,000	59,000	66,000	70,000	60,000	75,000	60,500	54,000	65,000
40-49	75,000	65,000	80,000	73,400	63,000	75,000	80,000	65,400	84,100	75,300	65,000	80,000
50 and older	76,000	62,000	80,000	73,000	60,000	75,000	76,000	60,000	80,000	85,000	70,000	90,000
Scientist	65,000	56,000	70,000	62,000	52,000	66,200	69,000	57,000	75,000	71,400	60,000	76,000
29 and younger	45,000	40,000	50,000	44,400	40,000	50,000	50,000	43,500	56,500	40,000	40,000	45,000
30-39	64,000	56,000	67,500	63,000	56,000	65,000	68,000	58,000	75,000	57,000	53,000	60,000
40-49	72,000	63,000	76,000	70,000	62,000	74,000	75,000	61,800	80,000	72,500	64,000	76,200
50 and older	72,000	61,900	77,000	68,900	60,000	70,000	70,000	60,000	75,000	82,000	70,000	86,000
Biological/life scientist	52,000	48,600	55,000	42,000	40,000	45,000	50,000	46,000	52,000	67,900	60,000	72,000
29 and younger	32,000	31,000	32,000	30,000	28,000	31,000	37,500	38,000	37,500	36,000	36,000	32,500
30-39	48,000	48,000	46,000	48,000	49,000	45,800	43,000	42,400	43,000	48,000	48,000	48,500
40-49	60,000	56,500	62,200	47,000	50,000	46,000	52,000	46,000	54,500	70,000	62,000	73,000
50 and older	68,000	60,900	72,000	52,000	52,800	52,000	55,000	55,000	55,000	83,000	70,000	89,000
Computer and information scientist	70,000	63,000	74,000	68,000	60,000	70,000	79,000	70,000	81,000	85,000	72,000	85,000
29 and younger	55,000	51,000	57,500	53,000	50,000	54,600	65,000	60,000	70,000	90,000	S	90,000
30-39	70,000	63,000	72,000	67,500	62,000	70,000	77,000	66,000	80,000	78,000	65,000	80,000
40-49	77,000	67,000	80,000	75,000	65,000	77,600	82,400	70,000	88,000	88,000	75,000	90,000
50 and older	75,000	67,000	79,000	71,000	60,000	75,000	80,000	75,000	82,200	85,000	71,400	87,000
Mathematical scientist	60,000	50,000	70,000	56,000	47,000	68,600	58,000	49,000	65,000	67,000	53,000	71,000
29 and younger	40,000	40,000	42,000	42,000	42,000	42,000	43,000	48,000	40,000	40,000	40,000	63,000
30-39	56,000	50,000	60,000	50,000	40,000	54,000	60,000	54,000	62,000	56,500	60,700	56,000
40-49	71,000	55,500	76,000	87,000	71,000	99,200	68,000	55,000	75,000	72,000	60,600	73,300
50 and older	70,000	52,000	78,700	75,000	55,000	82,500	57,000	42,300	63,000	80,000	70,000	80,400
Physical scientist	60,000	47,500	65,000	47,000	44,500	50,000	65,500	59,000	70,000	79,000	66,000	80,000
29 and younger	38,000	40,000	35,000	38,000	40,000	35,000	42,300	42,300	38,000	52,000	40,000	55,600
30-39	52,000	50,000	53,500	48,000	42,000	50,000	58,000	60,000	55,000	64,000	61,100	65,000
40-49	68,000	61,000	71,600	60,000	51,700	60,000	70,000	65,500	75,000	80,000	70,000	80,100
50 and older	74,300	59,000	79,000	60,000	52,000	60,000	82,000	64,000	82,000	91,000	70,100	93,000

TABLE H-16. Median annual salary of scientists and engineers employed full time, by highest degree, broad occupation, age group, and sex: 2003
(Dollars)

Occupation and age (years)	All degrees			Bachelor's			Master's			Doctorate		
	Both sexes	Female	Male	Both sexes	Female	Male	Both sexes	Female	Male	Both sexes	Female	Male
Psychologist	55,000	50,000	61,000	31,000	34,000	27,500	47,500	45,000	53,100	67,000	60,000	75,000
29 and younger	35,000	36,000	30,500	27,500	24,700	27,500	39,800	38,800	40,000	50,000	50,000	55,000
30-39	45,500	47,000	44,600	26,000	48,800	26,000	42,000	44,000	41,000	55,000	54,000	56,300
40-49	60,000	54,000	68,000	47,000	30,000	47,000	50,000	46,000	60,000	66,800	65,000	70,000
50 and older	62,000	58,000	70,000	38,000	38,000	21,500	55,000	52,000	60,000	75,000	65,000	80,700
Social scientist	58,000	50,000	65,000	49,000	44,500	52,000	60,000	50,000	75,000	67,600	62,300	70,000
29 and younger	40,000	40,000	40,000	40,000	40,000	38,000	40,000	40,000	40,000	65,000	S	73,600
30-39	55,000	51,000	57,000	53,000	53,000	50,500	56,200	50,000	72,000	58,000	56,000	60,000
40-49	65,000	57,000	70,000	52,000	60,000	52,000	70,000	57,000	75,000	62,200	58,000	67,000
50 and older	75,000	68,000	81,000	75,000	61,800	84,000	75,000	66,000	82,000	75,000	72,000	78,700
Engineer	74,000	65,000	75,000	70,000	60,200	70,500	80,000	70,000	80,000	90,000	80,000	90,000
29 and younger	54,900	52,000	55,000	54,000	52,000	54,000	57,500	50,000	60,000	66,000	66,000	66,000
30-39	70,000	68,500	70,000	67,000	65,000	67,000	74,000	70,000	74,000	81,000	75,000	82,000
40-49	80,000	78,600	81,000	79,000	70,000	79,500	86,000	84,000	86,000	90,000	82,000	91,000
50 and older	82,000	70,000	82,400	80,000	70,000	80,000	85,000	70,000	86,000	100,000	89,500	100,000
S&E related occupations	57,000	50,000	70,000	50,000	47,000	57,500	56,000	53,000	60,000	85,000	55,000	100,000
29 and younger	40,000	40,000	40,500	38,700	38,000	40,000	41,100	41,000	45,000	48,000	80,000	40,000
30-39	52,000	48,000	60,000	48,000	45,000	52,000	50,000	49,000	56,000	55,000	55,000	82,000
40-49	62,000	55,000	80,000	55,000	50,000	63,000	61,100	60,000	68,000	96,000	72,000	110,000
50 and older	65,000	52,600	80,000	54,000	50,000	64,000	60,000	56,500	70,000	90,000	55,000	102,000
Non-S&E occupations	54,000	43,000	65,000	48,000	38,000	57,000	60,000	49,500	73,000	85,000	68,700	90,000
29 and younger	35,000	32,000	40,000	32,000	30,000	36,700	40,000	39,000	45,000	45,000	S	45,000
30-39	53,000	44,000	62,400	50,000	40,000	55,000	60,000	46,800	75,000	75,500	55,000	87,000
40-49	62,000	49,000	75,000	55,000	41,000	65,000	65,000	51,000	80,000	80,000	63,000	93,000
50 and older	60,000	48,000	65,900	50,000	40,000	60,000	62,000	52,000	70,000	90,000	77,000	93,600

S = suppressed because fewer than 200 weighted cases.

NOTES: Salaries rounded to nearest \$100. All degrees includes professional degrees not shown separately.

SOURCE: National Science Foundation, Division of Science Resources Statistics, Scientists and Engineers Statistical Data System (SESTAT).

TABLE H-17. Median annual salary of scientists and engineers employed full time, by sex, broad occupation, age, and race/ethnicity: 2003
(Dollars)

Sex, occupation, and age in years	All races/ ethnicities	White	Asian	Black	Hispanic	American Indian/ Alaska Native
Both sexes						
All occupations	60,000	61,000	63,000	50,000	50,000	50,000
29 and younger	40,000	40,000	50,000	35,000	36,000	42,000
30-39	58,500	58,000	68,000	50,000	50,000	46,500
40-49	68,000	70,000	65,400	55,000	55,000	50,000
50 and older	65,000	66,800	64,000	55,000	59,800	63,000
S&E occupations	69,500	70,000	71,000	60,000	60,000	60,000
29 and younger	49,000	48,000	55,000	45,600	45,000	47,100
30-39	65,000	65,000	73,000	58,000	60,000	60,000
40-49	75,000	76,000	78,000	65,000	67,000	56,500
50 and older	76,000	77,000	80,000	65,000	70,000	72,400
Scientist	65,000	66,000	70,000	58,000	55,000	56,000
29 and younger	45,000	43,000	55,000	40,000	42,000	47,100
30-39	64,000	62,500	72,000	57,000	53,000	60,000
40-49	72,000	73,000	75,000	64,000	63,000	50,000
50 and older	72,000	72,400	78,000	62,000	60,000	72,000
Biological/life scientist	52,000	53,000	50,000	53,000	50,000	45,000
29 and younger	32,000	32,000	31,000	40,000	32,000	47,100
30-39	48,000	47,000	44,000	54,000	46,000	35,000
40-49	60,000	60,000	64,000	54,000	65,000	45,000
50 and older	68,000	68,000	70,000	65,000	70,000	72,000
Computer and information scientist	70,000	71,000	75,000	63,000	60,000	56,000
29 and younger	55,000	54,000	60,000	60,000	48,000	S
30-39	70,000	70,000	75,000	60,000	61,000	56,000
40-49	77,000	78,000	80,000	70,000	65,000	60,000
50 and older	75,000	75,000	83,000	65,000	60,000	62,000
Mathematical scientist	60,000	63,000	68,000	42,000	45,500	S
29 and younger	40,000	42,000	35,000	40,000	37,000	S
30-39	56,000	56,000	70,000	40,000	45,500	S
40-49	71,000	76,500	70,000	55,000	40,000	S
50 and older	70,000	73,000	58,000	56,000	60,000	S
Physical scientist	60,000	60,600	60,000	53,500	47,000	60,000
29 and younger	38,000	40,000	38,000	37,000	35,000	S
30-39	52,000	52,000	53,000	53,000	40,000	60,000
40-49	68,000	70,000	65,500	55,000	70,000	56,500
50 and older	74,300	76,000	70,000	59,000	50,000	80,000
Psychologist	55,000	55,000	55,000	58,000	45,000	61,000
29 and younger	35,000	36,000	40,000	24,700	30,000	S
30-39	45,500	44,100	55,000	58,000	45,000	61,000
40-49	60,000	60,000	55,000	65,000	62,000	S
50 and older	62,000	62,900	70,000	57,000	60,000	75,000
Social scientist	58,000	60,000	65,000	49,800	50,000	60,000
29 and younger	40,000	40,000	45,000	36,000	45,000	S
30-39	55,000	55,000	65,000	48,000	50,000	60,000
40-49	65,000	67,000	68,000	65,000	43,500	60,000
50 and older	75,000	80,000	72,000	52,000	69,500	65,000
Engineer	74,000	75,000	75,000	65,000	66,700	75,000
29 and younger	54,900	54,500	56,000	55,000	50,000	65,000
30-39	70,000	69,000	75,000	67,000	66,500	70,000
40-49	80,000	82,000	80,000	71,600	77,800	76,000
50 and older	82,000	83,000	82,000	75,000	75,000	85,000

TABLE H-17. Median annual salary of scientists and engineers employed full time, by sex, broad occupation, age, and race/ethnicity: 2003
(Dollars)

Sex, occupation, and age in years	All races/ ethnicities	White	Asian	Black	American Indian/ Alaska Native	
					Hispanic	
S&E related occupations	57,000	58,000	60,000	50,000	50,000	48,000
29 and younger	40,000	40,000	45,000	35,000	35,000	35,000
30–39	52,000	52,000	63,000	47,000	48,000	39,000
40–49	62,000	65,000	62,400	56,000	60,000	65,000
50 and older	65,000	65,000	67,400	55,000	60,000	65,000
Non-S&E occupations	54,000	58,000	50,000	45,000	45,000	46,000
29 and younger	35,000	35,000	42,000	32,000	34,500	42,000
30–39	53,000	54,000	60,000	45,000	48,000	37,500
40–49	62,000	68,400	50,000	49,500	49,000	41,000
50 and older	60,000	61,000	46,700	51,000	52,000	56,300
Female						
All occupations	49,000	49,000	55,000	47,000	42,000	43,000
29 and younger	38,000	37,500	44,000	33,500	34,000	42,000
30–39	48,700	48,000	60,000	46,000	44,000	45,000
40–49	54,000	55,000	56,000	51,000	46,000	41,000
50 and older	52,000	52,000	52,500	51,000	47,400	52,000
S&E occupations	58,000	56,100	65,000	55,000	50,000	60,000
29 and younger	43,000	42,800	45,000	40,000	42,000	46,000
30–39	59,000	57,000	67,000	55,000	52,000	60,000
40–49	65,000	64,100	68,900	62,000	55,000	60,000
50 and older	62,000	62,000	75,000	57,000	55,000	60,000
Scientist	56,000	55,000	64,000	55,000	48,800	60,000
29 and younger	40,000	40,000	43,500	40,000	35,600	46,000
30–39	56,000	55,000	64,000	55,000	50,000	60,000
40–49	63,000	62,000	66,000	62,400	52,000	54,000
50 and older	61,900	62,000	74,000	57,000	54,000	60,000
Biological/life scientist	48,600	48,000	47,500	52,800	48,000	59,000
29 and younger	31,000	30,000	30,000	46,000	31,000	S
30–39	48,000	45,000	56,000	54,000	48,600	S
40–49	56,500	58,000	54,000	57,400	52,000	52,000
50 and older	60,900	60,900	65,000	53,700	55,100	72,400
Computer and information scientist	63,000	62,700	68,800	56,300	54,000	54,000
29 and younger	51,000	50,000	60,000	57,500	43,200	S
30–39	63,000	64,000	68,000	55,000	55,000	S
40–49	67,000	67,400	70,000	64,000	59,500	60,000
50 and older	67,000	66,900	80,000	52,000	47,400	44,000
Mathematical scientist	50,000	50,000	69,900	40,000	40,000	S
29 and younger	40,000	42,000	35,000	40,000	37,000	S
30–39	50,000	50,000	70,000	40,000	36,000	S
40–49	55,500	62,700	80,000	55,000	40,000	S
50 and older	52,000	51,000	81,000	S	S	S
Physical scientist	47,500	48,000	52,000	50,000	42,000	47,000
29 and younger	40,000	41,600	40,000	40,000	35,000	S
30–39	50,000	51,000	56,000	50,000	30,000	S
40–49	61,000	63,000	62,100	62,400	52,000	36,000
50 and older	59,000	55,000	65,000	47,000	60,000	S
Psychologist	50,000	50,000	50,000	58,000	44,000	61,000
29 and younger	36,000	36,000	40,000	24,000	43,000	S
30–39	47,000	44,000	50,000	58,000	48,800	S
40–49	54,000	52,100	70,000	65,000	58,000	S
50 and older	58,000	60,000	50,000	57,000	57,000	S

TABLE H-17. Median annual salary of scientists and engineers employed full time, by sex, broad occupation, age, and race/ethnicity: 2003
(Dollars)

Sex, occupation, and age in years	All races/ ethnicities					American Indian/ Alaska Native
		White	Asian	Black	Hispanic	
Social scientist	50,000	51,000	60,000	45,000	48,000	60,000
29 and younger	40,000	40,100	45,000	36,000	44,000	S
30–39	51,000	54,000	50,000	48,000	48,100	60,000
40–49	57,000	55,000	68,000	65,000	43,500	S
50 and older	68,000	67,000	72,000	70,000	48,000	S
Engineer	65,000	63,000	72,000	62,000	62,000	63,000
29 and younger	52,000	52,000	54,000	50,000	50,000	S
30–39	68,500	65,000	80,100	70,000	67,000	51,000
40–49	78,600	79,500	80,000	55,000	70,000	63,000
50 and older	70,000	70,000	75,000	95,000	72,000	S
S&E related occupations	50,000	50,000	55,000	49,000	42,000	46,500
29 and younger	40,000	39,100	45,600	35,000	33,000	35,000
30–39	48,000	48,500	59,000	46,000	41,600	46,000
40–49	55,000	55,000	55,400	55,000	48,000	60,000
50 and older	52,600	52,400	59,000	52,000	43,300	46,800
Non-S&E occupations	43,000	44,000	45,000	43,000	40,000	40,000
29 and younger	32,000	32,000	38,000	30,000	33,000	42,000
30–39	44,000	43,500	55,200	41,000	40,000	30,000
40–49	49,000	50,000	44,800	46,000	42,000	30,000
50 and older	48,000	48,600	35,000	50,000	46,000	52,000
Male						
All occupations	70,000	70,000	70,000	57,000	60,000	60,500
29 and younger	45,000	45,000	53,000	36,000	40,000	47,100
30–39	65,000	65,000	74,000	55,600	57,000	56,000
40–49	78,500	80,000	75,000	60,000	62,000	60,000
50 and older	75,000	75,000	70,000	60,000	70,000	75,000
S&E occupations	72,000	72,800	75,000	64,500	65,000	60,000
29 and younger	52,000	50,200	58,200	55,000	48,000	47,100
30–39	68,500	68,000	75,000	62,100	62,000	60,000
40–49	80,000	80,000	80,000	70,000	73,900	55,000
50 and older	80,000	80,000	81,000	69,000	70,500	80,000
Scientist	70,000	70,000	75,000	63,000	60,000	56,000
29 and younger	50,000	47,000	58,000	48,400	47,000	47,100
30–39	67,500	67,000	75,000	60,000	58,000	56,000
40–49	76,000	76,400	80,000	67,000	70,000	45,000
50 and older	77,000	78,000	80,000	65,000	70,000	72,500
Biological/life scientist	55,000	56,500	53,000	55,000	56,000	45,000
29 and younger	32,000	32,000	32,000	34,000	44,000	47,100
30–39	46,000	48,000	42,000	53,400	42,500	35,000
40–49	62,200	62,200	70,000	50,000	70,000	45,000
50 and older	72,000	72,000	78,000	82,000	70,000	72,000
Computer and information scientist	74,000	75,000	75,000	65,000	65,000	56,000
29 and younger	57,500	55,000	60,000	60,000	49,000	S
30–39	72,000	72,000	78,000	65,000	65,000	56,000
40–49	80,000	80,000	84,000	70,000	73,000	S
50 and older	79,000	80,000	83,000	70,000	69,000	80,000
Mathematical scientist	70,000	73,000	65,400	55,000	61,100	S
29 and younger	42,000	43,000	27,000	42,000	S	S
30–39	60,000	58,000	70,000	52,000	62,000	S
40–49	76,000	80,000	70,000	38,000	75,000	S
50 and older	78,700	80,000	55,000	56,000	60,000	S

TABLE H-17. Median annual salary of scientists and engineers employed full time, by sex, broad occupation, age, and race/ethnicity: 2003
(Dollars)

Sex, occupation, and age in years	All races/ ethnicities	White	Asian	Black	American Indian/ Alaska Native	
					Hispanic	
Physical scientist	65,000	65,500	64,000	55,400	50,000	60,000
29 and younger	35,000	38,000	26,000	35,000	32,500	S
30–39	53,500	54,000	53,000	60,000	45,700	49,000
40–49	71,600	72,500	73,000	55,000	70,000	60,000
50 and older	79,000	80,000	75,000	59,000	50,000	S
Psychologist	61,000	62,400	55,000	50,000	45,000	65,000
29 and younger	30,500	33,000	S	S	27,500	S
30–39	44,600	45,500	55,000	26,000	40,000	S
40–49	68,000	70,000	55,000	52,000	68,000	S
50 and older	70,000	70,000	85,000	94,000	73,000	S
Social scientist	65,000	66,000	72,000	52,400	55,000	60,000
29 and younger	40,000	40,000	40,000	S	54,300	S
30–39	57,000	55,000	80,000	48,000	55,000	137,500
40–49	70,000	75,000	67,000	75,000	45,000	60,000
50 and older	81,000	84,000	75,000	40,000	76,100	65,000
Engineer	75,000	75,000	75,000	65,000	68,000	80,000
29 and younger	55,000	55,000	60,000	55,000	48,700	S
30–39	70,000	69,800	75,000	66,000	65,000	75,000
40–49	81,000	82,000	83,000	74,200	78,000	80,000
50 and older	82,400	84,000	82,400	75,000	78,000	85,000
S&E related occupations	70,000	72,800	74,000	55,000	60,000	65,000
29 and younger	40,500	42,000	41,000	32,000	36,000	S
30–39	60,000	60,000	72,000	60,000	50,000	34,000
40–49	80,000	84,000	84,000	64,000	65,000	65,000
50 and older	80,000	81,200	82,000	55,000	74,000	75,000
Non-S&E occupations	65,000	68,000	52,000	50,000	53,000	60,500
29 and younger	40,000	40,000	45,000	35,000	35,000	45,000
30–39	62,400	65,000	65,000	53,000	55,000	52,000
40–49	75,000	80,000	50,000	54,000	58,000	55,000
50 and older	65,900	70,000	50,000	58,000	60,000	80,000

S = suppressed because fewer than 200 weighted cases

NOTES: Salaries rounded to nearest \$100. Total includes Native Hawaiian/other Pacific Islander and multiple race not shown separately.

SOURCE: National Science Foundation, Division of Science Resources Statistics, Scientists and Engineers Statistical Data System (SESTAT).

TABLE H-18. Median annual salary of scientists and engineers employed full time, by broad occupation, age, and disability status: 2003

(Dollars)

Occupation and age (years)	Total	No disability	With disability
All occupations	60,000	60,000	56,000
29 and younger	40,000	40,000	39,000
30-39	58,500	59,000	48,000
40-49	68,000	69,000	59,000
50 and older	65,000	65,000	60,000
S&E occupations	69,500	69,800	68,000
29 and younger	49,000	49,000	49,000
30-39	65,000	65,000	62,000
40-49	75,000	75,100	68,000
50 and older	76,000	76,000	75,000
Scientist	65,000	65,000	63,000
29 and younger	45,000	45,000	45,600
30-39	64,000	64,000	60,500
40-49	72,000	72,100	61,000
50 and older	72,000	72,000	70,000
Biological/life scientist	52,000	52,000	53,800
29 and younger	32,000	32,000	20,000
30-39	48,000	48,000	45,600
40-49	60,000	60,000	54,000
50 and older	68,000	69,000	58,000
Computer and information scientist	70,000	70,000	70,000
29 and younger	55,000	55,000	60,000
30-39	70,000	70,000	65,000
40-49	77,000	78,000	70,000
50 and older	75,000	75,000	75,000
Mathematical scientist	60,000	60,000	50,000
29 and younger	40,000	40,000	S
30-39	56,000	56,000	50,000
40-49	71,000	72,000	50,000
50 and older	70,000	70,000	64,100
Physical scientist	60,000	60,000	62,000
29 and younger	38,000	38,500	35,000
30-39	52,000	52,000	50,000
40-49	68,000	70,000	57,000
50 and older	74,300	74,300	79,000
Psychologist	55,000	54,000	61,000
29 and younger	35,000	36,000	24,700
30-39	45,500	45,000	58,000
40-49	60,000	60,000	50,000
50 and older	62,000	62,000	63,000
Social scientist	58,000	58,000	65,000
29 and younger	40,000	40,000	60,000
30-39	55,000	55,000	49,000
40-49	65,000	65,000	62,000
50 and older	75,000	75,000	76,000
Engineer	74,000	74,000	75,000
29 and younger	54,900	55,000	49,800
30-39	70,000	70,000	65,000
40-49	80,000	80,100	78,000
50 and older	82,000	82,000	81,000

TABLE H-18. Median annual salary of scientists and engineers employed full time, by broad occupation, age, and disability status: 2003

(Dollars)

Occupation and age (years)	Total	No disability	With disability
S&E-related occupations	57,000	57,800	50,200
29 and younger	40,000	40,000	39,000
30-39	52,000	53,000	42,000
40-49	62,000	62,700	55,000
50 and older	65,000	65,000	55,500
Non-S&E occupations	54,000	54,600	50,000
29 and younger	35,000	35,000	35,000
30-39	53,000	53,000	44,000
40-49	62,000	62,500	48,000
50 and older	60,000	60,000	55,000

S = suppressed because fewer than 200 weighted cases.

NOTES: Salaries rounded to nearest \$100. For disability status, those who reported any difficulty (from moderate to unable to do) in any category of seeing (with glasses/contact lenses), hearing (with hearing aid), walking, or lifting are classified as "with disability."

SOURCE: National Science Foundation, Division of Science Resources Statistics, Scientists and Engineers Statistical Data System (SESTAT).

TABLE H-19. Employed scientists and engineers, by sector of employment, broad occupation, sex, race/ethnicity, and disability status: 2003

Sector and occupation	Total	Race/ethnicity						American Indian/Alaska Native	Disability status		
		Sex							No disability	With disability	
		Female	Male	White	Asian	Black	Hispanic				
All sectors	18,019,400	7,582,200	10,437,200	13,953,800	1,721,900	1,036,200	936,900	76,200	17,022,100	997,300	
S&E occupations	4,927,500	1,330,500	3,597,100	3,706,100	697,100	215,800	214,300	17,300	4,678,100	249,500	
Scientist	3,372,700	1,158,200	2,214,500	2,509,100	502,300	163,000	134,500	12,500	3,200,800	171,800	
Biological/life scientist	554,500	240,400	314,200	422,500	78,500	20,400	23,100	3,900	523,600	31,000	
Computer and information scientist	1,883,400	519,700	1,363,700	1,335,800	342,900	96,600	72,800	3,200	1,796,600	86,800	
Mathematical scientist	125,100	50,100	75,000	95,700	14,600	9,300	3,800	400	117,100	8,000	
Physical scientist	315,100	89,900	225,100	248,900	38,600	8,800	12,600	1,500	299,500	15,600	
Psychologist	212,000	136,600	75,400	180,200	7,000	10,300	11,100	1,000	197,200	14,800	
Social scientist	282,600	121,500	161,100	225,900	20,700	17,700	11,200	2,500	266,900	15,700	
Engineers	1,554,900	172,300	1,382,500	1,197,000	194,800	52,800	79,700	4,800	1,477,200	77,600	
S&E-related occupations	5,220,600	2,886,900	2,333,700	4,071,300	482,100	287,400	266,700	20,800	4,970,100	250,500	
Non-S&E occupations	7,871,300	3,364,900	4,506,400	6,176,500	542,700	533,000	456,000	38,100	7,373,900	497,400	
Business or industry	9,677,900	3,198,700	6,479,100	7,472,200	1,121,900	421,000	477,900	33,400	9,202,600	475,300	
S&E occupations	3,092,900	651,600	2,441,300	2,296,100	492,100	122,800	128,000	8,500	2,952,900	140,000	
Scientist	1,888,700	531,000	1,357,700	1,359,000	343,500	84,100	69,300	5,000	1,805,100	83,600	
Biological/life scientist	125,300	53,200	72,100	94,800	18,700	4,500	6,200	200	119,100	6,100	
Computer and information scientist	1,449,600	364,000	1,085,600	1,015,700	290,000	68,700	50,300	2,800	1,386,300	63,300	
Mathematical scientist	33,500	9,400	24,000	27,200	4,100	1,200	500	S	31,300	2,100	
Physical scientist	161,900	48,900	113,000	125,200	21,400	5,100	6,900	800	155,500	6,400	
Psychologist	33,200	21,500	11,700	27,800	700	1,600	2,400	200	31,200	2,000	
Social scientist	85,200	34,000	51,200	68,200	8,600	3,000	3,000	S	81,600	3,700	
Engineers	1,204,300	120,600	1,083,600	937,100	148,600	38,700	58,700	3,500	1,147,900	56,400	
S&E-related occupations	2,336,200	1,102,900	1,233,300	1,796,300	269,700	99,600	124,100	8,300	2,238,300	97,900	
Non-S&E occupations	4,248,700	1,444,200	2,804,500	3,379,900	360,100	198,700	225,800	16,600	4,011,300	237,400	
Federal government	803,200	254,900	548,300	608,400	60,400	69,300	44,200	4,500	751,300	51,900	
S&E occupations	285,800	76,400	209,400	219,500	25,500	19,500	14,200	1,700	268,700	17,100	
Scientist	179,200	62,300	116,900	135,900	14,600	15,400	8,600	1,400	167,800	11,400	
Biological/life scientist	48,900	17,400	31,500	38,400	4,400	2,600	1,900	600	47,100	1,800	
Computer and information scientist	66,700	23,200	43,500	46,100	7,200	8,200	3,600	S	60,700	6,100	
Mathematical scientist	13,100	6,100	7,000	9,900	600	1,400	900	S	12,300	800	
Physical scientist	25,400	5,400	20,000	21,000	1,800	1,100	1,000	300	23,900	1,400	
Psychologist	5,600	3,300	2,300	4,900	S	200	300	100	5,200	S	
Social scientist	19,400	6,900	12,500	15,500	400	2,000	900	S	18,700	700	
Engineers	106,600	14,100	92,500	83,600	10,900	4,000	5,600	S	100,900	5,700	
S&E-related occupations	156,900	70,600	86,300	120,500	11,400	10,200	9,500	1,100	149,300	7,500	
Non-S&E occupations	360,600	107,900	252,700	268,400	23,500	39,700	20,500	1,700	333,300	27,300	

TABLE H-19. Employed scientists and engineers, by sector of employment, broad occupation, sex, race/ethnicity, and disability status: 2003

Sector and occupation	Total	Race/ethnicity								Disability status	
		Sex						American Indian/Alaska Native	No disability	With disability	
		Female	Male	White	Asian	Black	Hispanic				
Nonprofit	1,558,100	1,039,500	518,700	1,247,900	112,400	97,800	67,300	4,900	1,487,500	70,600	
S&E occupations	179,700	76,500	103,200	133,000	22,100	10,300	9,300	1,100	171,900	7,800	
Scientist	158,500	71,300	87,200	119,300	18,100	9,500	6,600	1,000	151,400	7,100	
Biological/life scientist	25,700	9,900	15,800	18,900	4,300	1,300	500	S	25,100	600	
Computer and information scientist	73,800	28,600	45,100	52,900	9,500	5,200	4,400	S	70,400	3,300	
Mathematical scientist	2,900	1,800	1,100	2,600	200	S	S	S	2,800	S	
Physical scientist	5,500	2,100	3,400	4,200	1,100	100	S	S	5,400	S	
Psychologist	20,100	12,600	7,500	17,500	900	700	900	S	18,500	1,700	
Social scientist	30,500	16,300	14,200	23,200	2,100	2,100	700	S	29,300	1,200	
Engineers	21,100	5,200	16,000	13,600	3,900	800	2,600	S	20,400	700	
S&E-related occupations	754,600	577,700	176,900	608,400	60,600	43,100	23,500	1,400	728,900	25,700	
Non-S&E occupations	623,900	385,300	238,500	506,500	29,800	44,400	34,500	2,500	586,700	37,100	
Self-employed	1,240,800	488,600	752,100	1,036,200	85,500	35,200	60,500	7,900	1,151,600	89,200	
S&E occupations	187,700	67,200	120,500	160,700	11,600	6,800	5,300	500	173,400	14,300	
Scientist	139,700	61,600	78,100	120,500	7,400	6,100	3,200	400	129,600	10,100	
Biological/life scientist	9,200	3,200	6,000	8,400	600	S	S	S	7,000	2,300	
Computer and information scientist	58,900	17,500	41,400	47,900	6,100	2,200	1,000	S	57,100	1,800	
Mathematical scientist	2,000	600	1,400	2,000	S	S	S	S	2,000	S	
Physical scientist	7,000	600	6,400	6,500	S	S	200	S	6,700	300	
Psychologist	44,900	30,900	14,000	41,000	400	1,600	1,200	400	40,600	4,300	
Social scientist	17,500	8,700	8,800	14,700	S	2,000	700	S	16,100	S	
Engineers	48,000	5,600	42,400	40,200	4,200	800	2,100	S	43,800	4,200	
S&E-related occupations	375,400	157,200	218,200	307,100	31,200	9,600	20,100	3,200	352,500	22,900	
Non-S&E occupations	677,700	264,200	413,400	568,400	42,800	18,800	35,000	4,300	625,700	52,000	
State/local government	1,339,600	637,500	702,100	966,300	90,000	157,100	87,400	9,500	1,237,700	102,000	
S&E occupations	313,600	98,600	215,000	239,900	28,100	18,600	19,700	2,000	292,600	21,000	
Scientist	212,500	84,000	128,500	167,100	16,800	13,000	12,300	1,300	198,000	14,500	
Biological/life scientist	42,700	13,700	29,000	35,900	3,300	1,300	1,100	S	39,700	2,900	
Computer and information scientist	85,200	32,400	52,800	62,300	9,600	5,800	6,200	S	79,600	5,600	
Mathematical scientist	7,200	3,800	3,400	4,700	1,600	S	S	S	6,400	S	
Physical scientist	28,000	8,300	19,700	23,700	1,100	1,200	1,400	S	25,800	2,300	
Psychologist	14,200	9,000	5,200	11,700	300	600	1,400	S	12,900	1,300	
Social scientist	35,200	16,800	18,400	28,700	1,000	3,600	2,000	S	33,700	1,500	
Engineers	101,100	14,600	86,500	72,800	11,300	5,600	7,400	S	94,600	6,500	
S&E-related occupations	307,000	192,800	114,300	217,100	25,600	31,500	20,900	1,500	282,400	24,600	
Non-S&E occupations	719,000	346,200	372,800	509,400	36,200	106,900	46,700	6,000	662,600	56,400	
Universities and 4-year colleges	1,505,300	754,600	750,700	1,110,300	202,000	88,700	73,000	7,900	1,422,300	83,000	
S&E occupations	703,600	266,800	436,800	517,700	110,900	28,700	31,000	3,400	665,100	38,500	
Scientist	635,400	256,200	379,200	472,900	95,400	26,100	28,100	3,100	600,500	34,900	
Biological/life scientist	271,900	120,900	151,000	200,000	45,600	8,300	13,200	1,500	257,500	14,400	
Computer and information scientist	107,200	33,200	74,000	74,300	18,800	5,500	5,000	S	102,400	4,800	
Mathematical scientist	46,900	18,400	28,400	33,600	6,300	4,700	1,600	S	44,200	2,600	

TABLE H-19. Employed scientists and engineers, by sector of employment, broad occupation, sex, race/ethnicity, and disability status: 2003

Sector and occupation	Total	Race/ethnicity						American Indian/ Alaska Native	Disability status		
		Sex					Hispanic		No disability	With disability	
		Female	Male	White	Asian	Black					
Physical scientist	80,100	22,700	57,400	61,800	12,800	1,100	3,000	300	75,600	4,500	
Psychologist	49,400	27,500	21,900	40,200	3,800	2,100	2,400	300	46,800	2,600	
Social scientist	79,800	33,500	46,400	63,100	8,100	4,400	2,900	700	73,900	5,900	
Engineers	68,200	10,600	57,600	44,800	15,600	2,600	2,900	300	64,600	3,600	
S&E-related occupations	456,100	303,400	152,700	328,300	65,700	35,500	18,200	2,200	439,200	16,900	
Non-S&E occupations	345,600	184,400	161,200	264,300	25,300	24,500	23,900	2,300	318,000	27,600	
Other educational institutions	1,894,400	1,208,400	686,000	1,512,500	49,600	167,100	126,700	8,200	1,769,200	125,300	
S&E occupations	164,300	93,300	70,900	139,200	6,800	9,200	6,800	300	153,400	10,900	
Scientist	158,700	91,800	66,900	134,400	6,500	9,000	6,500	300	148,400	10,300	
Biological/life scientist	30,800	22,100	8,700	26,000	1,500	2,300	100	S	28,000	2,700	
Computer and information scientist	41,900	20,800	21,200	36,600	1,600	1,100	2,200	S	40,100	1,800	
Mathematical scientist	19,500	9,900	9,500	15,700	1,700	1,400	500	S	18,100	1,300	
Physical scientist	7,100	1,900	5,200	6,600	300	100	100	S	6,500	600	
Psychologist	44,500	31,800	12,700	37,000	900	3,500	2,600	S	42,000	2,500	
Social scientist	14,900	5,300	9,600	12,500	500	600	1,100	S	13,600	1,300	
Engineers	5,600	1,600	4,000	4,800	300	S	S	S	5,000	600	
S&E-related occupations	834,300	482,300	352,000	693,700	17,900	57,900	50,300	3,200	779,400	54,900	
Non-S&E occupations	895,900	632,700	263,200	679,600	25,000	100,000	69,600	4,700	836,400	59,500	

S = suppressed because fewer than 50 weighted cases.

NOTES: Numbers rounded to nearest 100. Detail may not add to total because of rounding. Total includes Native Hawaiian/other Pacific Islander and multiple race not shown separately. For disability status, those who reported any difficulty (from moderate to unable to do) in any category of seeing (with glasses/contact lenses), hearing (with hearing aid), walking, or lifting are classified as "with disability." Differences in estimates of scientists and engineers in the tables in this report reflect different data sources. Data from the Current Population Survey cover employed persons 16 years and older regardless of degree status. Data based on the SESTAT surveys cover persons with bachelor's or higher degrees who were either educated as or working as scientists or engineers.

SOURCE: National Science Foundation, Division of Science Resources Statistics, Scientist and Engineers Statistical Data System (SESTAT).

TABLE H-20. Scientists and engineers employed in schools and academic institutions, by institution type, sex, race/ethnicity, and disability status: 2003

Institution type	Total	Sex		Race/ethnicity					Disability status		
				American Indian/Alaska Native							
		Female	Male	White	Asian	Black	Hispanic	Alaska Native	No disability	With disability	
All educational institutions	3,399,700	1,963,000	1,436,800	2,622,800	251,600	255,800	199,700	16,100	3,191,400	208,300	
Preschool, elementary, middle, or secondary school	1,719,500	1,113,200	606,300	1,374,500	40,800	153,200	117,900	6,600	1,613,500	106,000	
2-year college, junior college, or technical institute	160,700	86,500	74,200	128,000	7,900	12,300	7,600	1,200	142,600	18,100	
4-year college or university	738,100	316,400	421,700	563,300	84,100	41,000	34,600	5,000	689,900	48,200	
Medical school	560,700	336,500	224,200	405,300	85,800	34,200	24,500	1,800	538,200	22,400	
University research institute	206,500	101,600	104,900	141,700	32,100	13,500	13,900	1,100	194,100	12,400	
Other	14,200	8,600	5,600	10,000	800	1,600	S	S	13,100	1,200	

S = suppressed because fewer than 50 weighted cases.

NOTES: Numbers rounded to nearest 100. Detail may not add to total because of rounding. Total includes Native Hawaiian/other Pacific Islander and multiple race not shown separately. For disability status, those who reported any difficulty (from moderate to unable to do) in any category of seeing (with glasses/contact lenses), hearing (with hearing aid), walking, or lifting are classified as "with disability."

SOURCE: National Science Foundation, Division of Science Resources Statistics, Scientists and Engineers Statistical Data System (SESTAT).

TABLE H-21. S&E doctorate holders employed full time in universities and 4-year colleges, by Carnegie classification of academic institution, sex, race/ethnicity, and disability status: 2003

Carnegie classification	Total	Sex		Race/ethnicity				American Indian/Alaska Native	Disability status	
		Female	Male	White	Asian	Black	Hispanic	American Indian/Alaska Native	No disability	With disability
All academic institutions	357,900	110,300	247,600	270,200	55,100	16,500	12,900	2,100	333,500	24,400
Research university I	105,100	30,200	74,900	81,800	16,100	3,300	3,200	600	98,500	6,700
Research university II	18,700	4,300	14,400	14,600	2,800	500	500	200	16,800	1,900
Doctorate granting I	12,100	3,400	8,600	9,400	1,700	600	300	S	11,100	1,000
Doctorate granting II	14,300	3,700	10,600	11,400	1,700	400	600	200	13,200	1,100
Comprehensive I	40,100	11,600	28,500	31,700	4,000	2,300	1,600	400	36,600	3,500
Comprehensive II	3,200	1,000	2,200	2,800	200	100	S	S	3,000	200
Liberal arts	18,100	5,400	12,700	15,800	1,000	900	400	S	16,800	1,300
2-year institutions	1,100	200	900	900	S	S	100	S	1,100	S
Medical schools and medical centers	12,300	4,700	7,600	9,100	2,100	400	700	S	11,400	900
Other specialized institutions	3,600	1,000	2,500	2,700	500	100	100	S	3,400	100
Missing	129,200	44,700	84,600	90,000	24,700	8,000	5,500	500	121,600	7,600

S = suppressed because fewer than 50 weighted cases.

NOTES: Numbers rounded to nearest 100. Detail may not add to total because of rounding. Total includes Native Hawaiian/other Pacific Islander and multiple race not shown separately. For disability status, those who reported any difficulty (from moderate to unable to do) in any category of seeing (with glasses/contact lenses), hearing (with hearing aid), walking, or lifting are classified as "with disability."

SOURCE: National Science Foundation, Division of Science Resources Statistics, Scientists and Engineers Statistical Data System (SESTAT).

TABLE H-22. S&E doctorate holders employed in universities and 4-year colleges, by broad occupation, sex, years since doctorate, and faculty rank: 2003

Occupation, sex, and years since doctorate	Total	Professor	Associate professor	Assistant professor	Other faculty	Rank not applicable
All occupations	385,200	122,900	79,900	78,700	20,000	83,800
Female	122,200	25,300	26,300	31,000	9,900	29,700
Fewer than 10	61,900	2,100	9,000	23,700	6,600	20,600
10-19	35,500	8,600	13,000	6,500	1,600	5,800
20-29	18,500	10,700	3,900	800	1,400	1,800
30 or more	6,300	3,900	500	100	300	1,400
Male	263,000	97,600	53,600	47,700	10,000	54,100
Fewer than 10	92,400	3,700	13,800	36,400	4,800	33,700
10-19	65,400	21,300	24,500	8,800	1,800	9,100
20-29	57,000	36,500	10,600	1,900	1,600	6,300
30 or more	48,100	36,100	4,700	600	1,900	4,900
S&E occupations	294,800	92,400	65,100	63,300	13,700	60,300
Female	90,400	16,400	21,400	24,300	7,000	21,300
Fewer than 10	47,600	1,600	7,600	18,100	4,500	15,800
10-19	26,500	5,300	10,500	5,500	1,500	3,700
20-29	12,000	6,500	2,900	600	700	1,300
30 or more	4,300	2,900	400	100	300	600
Male	204,400	76,000	43,700	39,000	6,700	39,000
Fewer than 10	70,000	1,900	10,200	29,400	3,100	25,400
10-19	54,000	16,300	21,000	7,400	1,400	7,900
20-29	43,400	28,900	8,500	1,700	800	3,500
30 or more	37,000	28,800	4,100	500	1,500	2,200
Scientist	267,100	81,500	59,500	57,700	13,100	55,300
Female	87,100	15,900	20,900	23,000	6,700	20,500
Fewer than 10	45,200	1,600	7,300	17,000	4,300	15,000
10-19	25,700	5,000	10,200	5,400	1,400	3,700
20-29	11,900	6,400	2,900	600	700	1,200
30 or more	4,300	2,900	400	100	300	600
Male	180,000	65,600	38,600	34,600	6,400	34,800
Fewer than 10	61,800	1,700	8,800	25,900	3,000	22,400
10-19	47,500	13,300	18,700	6,700	1,300	7,500
20-29	38,000	25,100	7,400	1,600	700	3,100
30 or more	32,600	25,400	3,700	400	1,400	1,800
Biological/life scientist	112,900	29,700	22,200	23,000	5,400	32,600
Female	41,900	7,500	7,800	10,200	2,800	13,600
Fewer than 10	22,100	1,200	2,000	6,600	1,800	10,500
10-19	12,900	2,500	4,400	3,200	700	2,100
20-29	5,200	2,700	1,200	400	300	700
30 or more	1,800	1,200	200	S	S	300
Male	71,000	22,200	14,500	12,800	2,600	19,000
Fewer than 10	25,300	400	2,200	7,800	1,500	13,500
10-19	20,200	3,800	7,600	4,000	600	4,200
20-29	13,800	8,600	3,300	800	S	800
30 or more	11,700	9,400	1,300	S	400	500
Computer and information scientist	14,800	3,500	3,400	3,600	600	3,600
Female	2,400	300	500	600	300	700
Fewer than 10	1,600	S	200	600	S	500
10-19	400	100	300	S	S	S
20-29	300	100	S	S	S	S
30 or more	S	S	S	S	S	S
Male	12,400	3,200	2,900	3,000	400	2,900
Fewer than 10	5,800	S	1,000	2,700	200	1,800
10-19	3,100	1,000	1,100	200	S	700
20-29	2,200	1,300	500	S	S	300
30 or more	1,400	800	400	S	S	S

TABLE H-22. S&E doctorate holders employed in universities and 4-year colleges, by broad occupation, sex, years since doctorate, and faculty rank: 2003

Occupation, sex, and years since doctorate	Total	Professor	Associate professor	Assistant professor	Other faculty	Rank not applicable
Mathematical scientist	23,500	8,600	7,000	5,200	1,200	1,600
Female	6,600	1,000	3,000	1,600	500	500
Fewer than 10	4,300	S	2,400	1,400	300	200
10-19	1,300	300	500	200	S	S
20-29	700	500	100	S	S	S
30 or more	200	S	S	S	S	S
Male	17,000	7,600	4,000	3,600	700	1,200
Fewer than 10	5,000	200	1,000	3,200	200	500
10-19	5,300	2,600	1,900	300	S	300
20-29	3,000	2,000	600	S	200	200
30 or more	3,700	2,800	500	S	100	200
Physical scientist	41,900	13,800	7,600	8,400	1,800	10,400
Female	6,500	1,000	1,300	1,700	700	1,900
Fewer than 10	3,100	S	300	1,300	500	1,000
10-19	2,200	500	900	400	S	400
20-29	700	200	S	S	100	200
30 or more	600	300	S	S	S	S
Male	35,400	12,700	6,300	6,700	1,100	8,500
Fewer than 10	12,200	500	1,400	4,900	300	5,000
10-19	8,800	2,300	3,100	1,400	300	1,700
20-29	7,100	4,400	1,100	300	S	1,100
30 or more	7,300	5,500	700	S	300	700
Psychologist	26,900	8,500	5,700	6,700	1,700	4,300
Female	13,500	2,300	3,100	4,100	1,200	2,700
Fewer than 10	6,900	S	900	3,200	800	1,800
10-19	3,900	700	1,600	800	100	700
20-29	1,900	900	500	S	S	200
30 or more	800	600	200	S	S	S
Male	13,400	6,200	2,600	2,500	500	1,600
Fewer than 10	3,500	S	600	1,800	300	800
10-19	2,900	800	1,100	500	S	400
20-29	4,000	2,800	700	200	S	200
30 or more	3,000	2,500	300	S	S	S
Social scientist	47,000	17,400	13,500	10,800	2,400	2,900
Female	16,200	3,700	5,200	4,800	1,200	1,200
Fewer than 10	7,300	200	1,700	3,900	700	1,000
10-19	4,900	900	2,600	800	400	300
20-29	3,100	1,900	900	S	100	S
30 or more	800	800	S	S	S	S
Male	30,800	13,700	8,400	6,000	1,100	1,600
Fewer than 10	10,000	500	2,700	5,400	500	800
10-19	7,300	2,700	3,800	300	200	200
20-29	7,900	5,900	1,300	200	S	400
30 or more	5,600	4,500	500	S	400	200
Engineer	27,800	10,900	5,600	5,600	600	5,000
Female	3,300	500	500	1,300	300	800
Fewer than 10	2,400	S	200	1,200	S	700
10-19	700	400	300	S	S	S
20-29	100	100	S	S	S	S
30 or more	S	S	S	S	S	S
Male	24,500	10,400	5,100	4,400	300	4,300
Fewer than 10	8,200	200	1,400	3,500	S	3,100
10-19	6,500	3,000	2,300	700	S	400
20-29	5,300	3,800	1,000	S	S	400
30 or more	4,400	3,400	400	S	S	400

TABLE H-22. S&E doctorate holders employed in universities and 4-year colleges, by broad occupation, sex, years since doctorate, and faculty rank: 2003

Occupation, sex, and years since doctorate	Total	Professor	Associate professor	Assistant professor	Other faculty	Rank not applicable
S&E related occupations	14,500	3,200	1,300	1,900	800	7,300
Female	5,900	1,500	300	800	200	3,100
Fewer than 10	2,700	S	S	400	200	2,100
10-19	1,700	200	200	400	S	800
20-29	1,300	1,100	S	S	S	S
30 or more	S	S	S	S	S	S
Male	8,600	1,700	1,000	1,100	600	4,100
Fewer than 10	3,500	S	S	700	300	2,300
10-19	1,900	300	700	200	S	600
20-29	1,700	700	200	S	S	700
30 or more	1,400	700	S	S	S	500
Non-S&E occupations	75,800	27,200	13,500	13,500	5,400	16,200
Female	25,900	7,400	4,600	5,900	2,700	5,300
Fewer than 10	11,600	400	1,400	5,200	1,900	2,700
10-19	7,400	3,100	2,300	600	S	1,300
20-29	5,300	3,100	900	S	S	400
30 or more	1,700	800	S	S	S	800
Male	49,900	19,800	8,900	7,600	2,700	10,900
Fewer than 10	18,900	1,800	3,600	6,200	1,400	6,000
10-19	9,500	4,700	2,900	1,200	200	600
20-29	11,900	6,800	2,000	200	700	2,100
30 or more	9,600	6,500	400	S	400	2,200

S = suppressed because fewer than 50 weighted cases.

NOTES: Numbers rounded to nearest 100. Detail may not add to total because of rounding.

SOURCE: National Science Foundation, Division of Science Resources Statistics, Scientists and Engineers Statistical Data System (SESTAT).

TABLE H-23. S&E doctorate holders employed in universities and 4-year colleges, by occupation, race/ethnicity, years since doctorate, and faculty rank: 2003

Occupation, race/ethnicity, and years since doctorate	All faculty	Professor	Associate professor	Assistant professor	Other	Rank not applicable
All occupations	385,200	122,900	79,900	78,700	20,000	83,800
White	292,600	101,900	62,200	56,300	15,700	56,600
Fewer than 10	105,500	4,500	15,700	42,800	8,500	33,900
10-19	75,000	22,200	29,500	10,800	2,400	10,200
20-29	64,500	40,400	12,500	2,000	2,800	6,700
30 or more	47,600	34,700	4,500	600	1,900	5,800
Asian	58,100	12,800	9,000	13,000	2,600	20,800
Fewer than 10	30,100	500	2,600	9,700	1,700	15,600
10-19	17,100	5,100	4,800	2,700	600	3,800
20-29	6,700	4,000	1,100	500	S	900
30 or more	4,200	3,200	400	S	S	400
Black	17,500	3,900	5,900	3,900	800	3,000
Fewer than 10	9,500	400	3,200	3,300	500	2,100
10-19	4,100	1,100	1,800	500	200	500
20-29	2,800	1,600	700	100	S	300
30 or more	1,100	700	200	S	S	S
Hispanic	13,600	3,200	2,400	4,300	700	3,000
Fewer than 10	7,800	400	1,000	3,300	600	2,400
10-19	3,800	1,100	1,200	1,000	100	400
20-29	1,100	800	100	S	S	100
30 or more	1,000	900	S	S	S	S
American Indian/Alaska Native	2,200	900	400	600	S	300
Fewer than 10	800	S	200	500	S	100
10-19	600	200	200	100	S	S
20-29	400	200	S	S	S	S
30 or more	400	400	S	S	S	S
S&E occupations	294,800	92,400	65,100	63,300	13,700	60,300
White	220,100	76,400	50,700	45,500	10,300	37,200
Fewer than 10	77,700	2,600	12,500	34,000	5,400	23,300
10-19	59,900	16,200	24,500	9,300	2,100	7,800
20-29	46,900	30,200	9,800	1,700	1,400	3,800
30 or more	35,700	27,500	4,000	400	1,500	2,400
Asian	49,400	10,300	7,500	11,400	2,300	17,900
Fewer than 10	26,000	400	1,800	8,400	1,600	13,800
10-19	14,100	3,900	4,300	2,400	500	3,000
20-29	5,600	3,500	1,000	500	S	600
30 or more	3,600	2,600	400	S	S	400
Black	12,400	2,400	4,500	2,600	500	2,400
Fewer than 10	7,100	400	2,500	2,200	200	1,800
10-19	3,000	600	1,400	400	200	400
20-29	1,600	900	500	S	S	200
30 or more	700	500	200	S	S	S
Hispanic	10,100	2,400	2,000	2,900	400	2,500
Fewer than 10	5,700	200	800	2,400	300	2,000
10-19	2,800	800	1,100	500	100	300
20-29	800	600	100	S	S	100
30 or more	800	700	S	S	S	S
American Indian/Alaska Native	1,900	800	300	600	S	200
Fewer than 10	800	S	200	400	S	100
10-19	400	200	S	100	S	S
20-29	400	200	S	S	S	S
30 or more	400	400	S	S	S	S

S = suppressed because fewer than 50 weighted cases.

NOTES: Numbers are rounded to nearest 100. Detail may not add to total because of rounding. Total includes Native Hawaiian/other Pacific Islander and multiple race not shown separately.

SOURCE: National Science Foundation, Division of Science Resources Statistics, Scientists and Engineers Statistical Data System (SESTAT).

Updated December 2006

TABLE H-24. S&E doctorate holders employed in academic institutions, by type of academic position, sex, race/ethnicity, and disability status: 2003

Academic position	Total	Sex		Race/ethnicity				American Indian/ Alaska Native	Disability status		
									No disability	With disability	
		Female	Male	White	Asian	Black	Hispanic				
All faculty	442,100	144,500	297,600	338,600	61,000	22,000	16,200	2,300	410,300	31,900	
President, provost, chancellor	4,900	900	4,000	4,400	S	300	100	S	4,800	200	
Dean, department head, chair	36,700	11,800	24,900	30,400	2,400	2,300	1,500	100	33,500	3,200	
Research faculty	139,600	41,300	98,300	100,200	26,600	6,000	5,500	900	130,500	9,100	
Teaching faculty	236,000	70,100	165,900	188,700	26,400	10,000	8,100	1,500	216,200	19,800	
Adjunct faculty	22,600	9,600	13,000	19,000	1,900	800	500	S	19,300	3,300	
Postdoc	30,000	11,400	18,600	17,000	10,600	1,000	1,400	S	29,000	1,000	
Research assistant	3,200	900	2,300	1,200	1,800	S	100	S	3,100	S	
Teaching assistant	600	200	400	400	200	S	S	S	600	S	
Other	29,700	10,200	19,500	24,400	2,700	1,300	800	200	26,800	2,900	

S = suppressed because fewer than 50 weighted cases.

NOTES: Numbers rounded to nearest 100. Detail may not add to total because of rounding. For disability status, those who reported any difficulty (from moderate to unable to do) in any category of seeing (with glasses/contact lenses), hearing (with hearing aid), walking, or lifting are classified as "with disability." Total includes Native Hawaiian/other Pacific Islander and multiple race not shown separately. Respondents could answer "yes" to more than one category.

SOURCE: National Science Foundation, Division of Science Resources Statistics, Scientists and Engineers Statistical Data System (SESTAT).

TABLE H-25. S&E doctorate holders employed in universities and 4-year colleges, by broad occupation, sex, race/ethnicity, and faculty rank: 2003

Occupation, sex, and race/ethnicity	Total	Professor	Associate professor	Assistant professor	Other faculty	Not applicable
All occupations	385,200	122,900	79,900	78,700	20,000	83,800
Female	122,200	25,300	26,300	31,000	9,900	29,700
White	92,100	21,700	20,200	22,600	7,900	19,700
Asian	15,100	1,100	1,800	4,100	1,000	7,100
Black	8,900	1,600	3,400	1,900	400	1,600
Hispanic	4,900	700	800	1,700	500	1,100
American Indian/Alaska Native	600	100	100	300	S	100
Male	263,000	97,600	53,600	47,700	10,000	54,100
White	200,500	80,200	42,000	33,700	7,700	37,000
Asian	43,000	11,700	7,200	8,900	1,600	13,700
Black	8,600	2,300	2,500	1,900	500	1,400
Hispanic	8,700	2,500	1,600	2,600	200	1,800
American Indian/Alaska Native	1,600	700	300	300	S	200
S&E occupations	294,800	92,400	65,100	63,300	13,700	60,300
Female	90,400	16,400	21,400	24,300	7,000	21,300
White	67,200	14,200	16,300	18,300	5,400	13,100
Asian	12,200	900	1,400	3,200	1,000	5,700
Black	6,300	700	2,900	1,000	300	1,300
Hispanic	3,800	400	600	1,400	300	1,000
American Indian/Alaska Native	600	100	100	300	S	100
Male	204,400	76,000	43,700	39,000	6,700	39,000
White	152,900	62,200	34,400	27,200	4,900	24,200
Asian	37,200	9,400	6,100	8,200	1,400	12,200
Black	6,200	1,700	1,600	1,600	200	1,000
Hispanic	6,400	1,900	1,300	1,500	100	1,500
American Indian/Alaska Native	1,300	700	200	300	S	100
Scientist	267,100	81,500	59,500	57,700	13,100	55,300
Female	87,100	15,900	20,900	23,000	6,700	20,500
White	65,000	13,800	16,000	17,600	5,100	12,700
Asian	11,600	900	1,300	3,000	1,000	5,400
Black	6,200	700	2,900	1,000	300	1,300
Hispanic	3,500	400	600	1,200	300	1,000
American Indian/Alaska Native	400	100	100	100	S	S
Male	180,000	65,600	38,600	34,600	6,400	34,800
White	136,300	54,900	30,800	24,400	4,700	21,500
Asian	31,400	7,100	5,100	7,000	1,300	10,900
Black	5,200	1,300	1,300	1,400	200	1,000
Hispanic	5,500	1,600	1,100	1,400	100	1,200
American Indian/Alaska Native	1,200	600	200	300	S	S
Biological/life scientist	112,900	29,700	22,200	23,000	5,400	32,600
Female	41,900	7,500	7,800	10,200	2,800	13,600
White	31,200	6,900	6,500	8,000	1,800	8,100
Asian	7,200	200	700	1,400	700	4,200
Black	1,600	200	300	400	100	600
Hispanic	1,700	200	300	500	200	600
American Indian/Alaska Native	200	S	S	S	S	S
Male	71,000	22,200	14,500	12,800	2,600	19,000
White	51,000	19,200	11,400	8,300	1,300	10,600
Asian	15,700	1,900	2,200	3,300	1,100	7,100
Black	1,600	300	300	500	S	400
Hispanic	2,400	600	400	500	S	800
American Indian/Alaska Native	300	S	S	S	S	S

TABLE H-25. S&E doctorate holders employed in universities and 4-year colleges, by broad occupation, sex, race/ethnicity, and faculty rank: 2003

Occupation, sex, and race/ethnicity	Total	Professor	Associate professor	Assistant professor	Other faculty	Not applicable
Computer and information scientist	14,800	3,500	3,400	3,600	600	3,600
Female	2,400	300	500	600	300	700
White	1,300	200	300	400	S	200
Asian	500	100	100	200	S	100
Black	500	S	100	S	S	S
Hispanic	S	S	S	S	S	S
American Indian/Alaska Native	S	S	S	S	S	S
Male	12,400	3,200	2,900	3,000	400	2,900
White	8,700	2,500	1,900	2,100	300	1,800
Asian	2,900	600	800	700	S	800
Black	500	S	S	100	S	S
Hispanic	200	S	S	S	S	S
American Indian/Alaska Native	S	S	S	S	S	S
Mathematical scientist	23,500	8,600	7,000	5,200	1,200	1,600
Female	6,600	1,000	3,000	1,600	500	500
White	3,400	900	800	1,000	300	400
Asian	1,000	100	200	500	100	S
Black	2,100	S	2,000	S	S	S
Hispanic	100	S	S	S	S	S
American Indian/Alaska Native	S	S	S	S	S	S
Male	17,000	7,600	4,000	3,600	700	1,200
White	12,900	5,600	3,300	2,400	600	900
Asian	3,100	1,700	300	900	S	100
Black	400	100	100	100	S	S
Hispanic	600	200	200	200	S	S
American Indian/Alaska Native	S	S	S	S	S	S
Physical scientist	41,900	13,800	7,600	8,400	1,800	10,400
Female	6,500	1,000	1,300	1,700	700	1,900
White	5,100	900	1,100	1,400	600	1,100
Asian	1,000	100	100	100	S	600
Black	200	S	S	100	S	S
Hispanic	200	100	S	100	S	S
American Indian/Alaska Native	S	S	S	S	S	S
Male	35,400	12,700	6,300	6,700	1,100	8,500
White	28,100	10,600	5,300	5,600	1,000	5,600
Asian	5,800	1,500	700	800	S	2,700
Black	400	100	100	100	S	S
Hispanic	800	400	200	S	S	200
American Indian/Alaska Native	200	S	S	S	S	S
Psychologist	26,900	8,500	5,700	6,700	1,700	4,300
Female	13,500	2,300	3,100	4,100	1,200	2,700
White	11,100	1,800	2,700	3,400	1,100	2,100
Asian	700	S	100	200	S	200
Black	800	200	200	200	S	200
Hispanic	800	100	100	300	S	200
American Indian/Alaska Native	100	S	S	S	S	S
Male	13,400	6,200	2,600	2,500	500	1,600
White	12,200	5,800	2,300	2,200	500	1,300
Asian	200	100	S	S	S	S
Black	400	S	200	100	S	100
Hispanic	400	S	100	100	S	100
American Indian/Alaska Native	100	S	S	S	S	S
Social scientist	47,000	17,400	13,500	10,800	2,400	2,900
Female	16,200	3,700	5,200	4,800	1,200	1,200
White	12,900	3,100	4,600	3,400	1,000	800
Asian	1,200	200	200	500	100	100

TABLE H-25. S&E doctorate holders employed in universities and 4-year colleges, by broad occupation, sex, race/ethnicity, and faculty rank: 2003

Occupation, sex, and race/ethnicity	Total	Associate professor		Assistant professor		Not applicable
		Professor	professor	professor	Other faculty	
Black	900	300	200	300	S	100
Hispanic	800	100	100	400	S	200
American Indian/Alaska Native	100	S	S	S	S	S
Male	30,800	13,700	8,400	6,000	1,100	1,600
White	23,500	11,100	6,500	3,700	900	1,300
Asian	3,700	1,200	1,100	1,300	S	S
Black	2,000	700	600	500	S	100
Hispanic	1,100	400	100	400	S	100
American Indian/Alaska Native	500	200	S	S	S	S
Engineer	27,800	10,900	5,600	5,600	600	5,000
Female	3,300	500	500	1,300	300	800
White	2,200	400	400	700	300	400
Asian	600	S	S	200	S	300
Black	100	S	S	S	S	S
Hispanic	300	S	100	200	S	S
American Indian/Alaska Native	S	S	S	S	S	S
Male	24,500	10,400	5,100	4,400	300	4,300
White	16,600	7,400	3,600	2,800	200	2,600
Asian	5,800	2,400	1,000	1,200	S	1,300
Black	1,000	400	300	200	S	S
Hispanic	900	300	300	100	S	300
American Indian/Alaska Native	S	S	S	S	S	S
S&E related occupations	14,500	3,200	1,300	1,900	800	7,300
Female	5,900	1,500	300	800	200	3,100
White	4,200	1,400	300	500	200	1,900
Asian	1,500	S	S	200	S	1,200
Black	200	S	S	100	S	S
Hispanic	100	S	S	S	S	S
American Indian/Alaska Native	S	S	S	S	S	S
Male	8,600	1,700	1,000	1,100	600	4,100
White	6,300	1,400	900	800	400	2,800
Asian	1,900	S	S	200	S	1,200
Black	100	S	S	S	S	S
Hispanic	100	S	S	S	S	100
American Indian/Alaska Native	S	S	S	S	S	S
Non-S&E occupations	75,800	27,200	13,500	13,500	5,400	16,200
Female	25,900	7,400	4,600	5,900	2,700	5,300
White	20,700	6,100	3,600	3,900	2,400	4,700
Asian	1,400	200	400	700	S	200
Black	2,400	800	500	800	S	300
Hispanic	1,100	300	100	300	S	S
American Indian/Alaska Native	S	S	S	S	S	S
Male	49,900	19,800	8,900	7,600	2,700	10,900
White	41,300	16,500	6,700	5,600	2,400	10,000
Asian	4,000	2,100	1,000	500	S	300
Black	2,300	600	900	300	S	300
Hispanic	2,200	600	200	1,100	S	300
American Indian/Alaska Native	200	S	S	S	S	S

S = suppressed because fewer than 50 weighted cases.

NOTES: Numbers are rounded to nearest 100. Detail may not add to total because of rounding. Total includes Native Hawaiian/other Pacific Islander and multiple race not shown separately.

SOURCE: National Science Foundation, Division of Science Resources Statistics, Scientists and Engineers Statistical Data System (SESTAT).

TABLE H-26. S&E doctorate holders employed in universities and 4-year colleges, by occupation, disability status and faculty rank: 2003

Occupation and disability status	All faculty	Professor	Associate professor	Assistant professor	Other faculty	Rank not applicable
All occupations	385,200	122,900	79,900	78,700	20,000	83,800
No disability	357,300	111,600	74,500	73,800	17,800	79,600
With disability	27,800	11,200	5,400	4,900	2,200	4,200
S&E occupations	294,800	92,400	65,100	63,300	13,700	60,300
No disability	275,200	84,000	60,700	60,400	12,500	57,700
With disability	19,600	8,400	4,400	2,900	1,200	2,700
Scientist	267,100	81,500	59,500	57,700	13,100	55,300
No disability	249,100	74,200	55,300	55,000	11,900	52,800
With disability	17,900	7,300	4,200	2,700	1,200	2,500
Biological/life scientist	112,900	29,700	22,200	23,000	5,400	32,600
No disability	106,100	27,400	20,700	21,800	4,700	31,500
With disability	6,900	2,300	1,500	1,200	700	1,100
Computer and information scientist	14,800	3,500	3,400	3,600	600	3,600
No disability	14,000	3,200	3,200	3,500	600	3,400
With disability	800	300	200	100	S	S
Mathematical scientist	23,500	8,600	7,000	5,200	1,200	1,600
No disability	22,500	8,100	6,800	5,000	1,100	1,500
With disability	1,100	500	200	100	S	200
Physical scientist	41,900	13,800	7,600	8,400	1,800	10,400
No disability	39,400	12,500	7,100	8,200	1,700	9,900
With disability	2,500	1,300	500	200	100	500
Psychologist	26,900	8,500	5,700	6,700	1,700	4,300
No disability	24,900	7,600	5,300	6,200	1,700	4,100
With disability	2,000	900	400	500	S	200
Social scientist	47,000	17,400	13,500	10,800	2,400	2,900
No disability	42,300	15,400	12,200	10,200	2,100	2,400
With disability	4,600	2,000	1,300	600	300	400
Engineer	27,800	10,900	5,600	5,600	600	5,000
No disability	26,100	9,800	5,400	5,400	600	4,900
With disability	1,700	1,100	200	200	S	200
S&E related occupations	14,500	3,200	1,300	1,900	800	7,300
No disability	13,900	3,100	1,200	1,700	800	7,100
With disability	600	200	S	200	S	200
Non-S&E occupations	75,800	27,200	13,500	13,500	5,400	16,200
No disability	68,200	24,500	12,600	11,700	4,500	14,900
With disability	7,600	2,700	900	1,800	900	1,300

S = suppressed because fewer than 50 weighted cases.

NOTES: Numbers rounded to nearest 100. Details may not add to total because of rounding. For disability status, those who reported any difficulty (from moderate to unable to do) in any category of seeing (with glasses/contact lenses), hearing (with hearing aid), walking, or lifting are classified as "with disability."

SOURCE: National Science Foundation, Division of Science Resources Statistics, Scientists and Engineers Statistical Data System (SESTAT).

TABLE H-27. S&E doctorate holders employed in universities and 4-year colleges, by occupation, sex, years since doctorate, and tenure status: 2003

Occupation, sex, and years since doctorate	Total	Not tenured			Tenure not applicable
		Tenured	On tenure track	Not on tenure track	
All occupations	385,200	169,100	66,300	48,500	101,300
Female	122,200	40,600	23,400	20,400	37,800
Fewer than 10	61,900	6,700	19,200	10,600	25,400
10-19	35,500	18,500	3,800	5,200	8,000
20-29	18,500	11,300	400	3,400	3,500
30 or more	6,300	4,000	S	1,300	900
Male	263,000	128,500	42,900	28,000	63,600
Fewer than 10	92,400	12,600	31,800	12,200	35,800
10-19	65,400	38,300	8,800	7,300	11,100
20-29	57,000	41,100	1,800	4,700	9,300
30 or more	48,100	36,500	400	3,800	7,400
S&E occupations	294,800	132,400	51,900	36,300	74,300
Female	90,400	30,000	18,200	14,500	27,700
Fewer than 10	47,600	5,700	14,500	7,700	19,800
10-19	26,500	13,200	3,300	4,600	5,300
20-29	12,000	8,100	400	1,600	1,900
30 or more	4,300	3,100	S	600	600
Male	204,400	102,400	33,700	21,800	46,600
Fewer than 10	70,000	9,300	24,500	10,100	26,100
10-19	54,000	31,400	7,400	6,000	9,200
20-29	43,400	32,800	1,300	2,900	6,300
30 or more	37,000	29,000	400	2,800	4,900
Scientist	267,100	117,900	46,400	34,300	68,600
Female	87,100	29,200	17,000	14,300	26,700
Fewer than 10	45,200	5,500	13,400	7,500	18,900
10-19	25,700	12,600	3,300	4,600	5,300
20-29	11,900	8,000	400	1,600	1,900
30 or more	4,300	3,100	S	600	600
Male	180,000	88,700	29,400	20,000	41,900
Fewer than 10	61,800	8,000	21,400	9,000	23,400
10-19	47,500	26,700	6,500	5,700	8,600
20-29	38,000	28,400	1,200	2,900	5,600
30 or more	32,600	25,600	300	2,500	4,300
Biological/life scientist	112,900	40,600	18,500	18,800	35,100
Female	41,900	12,100	7,300	8,300	14,300
Fewer than 10	22,100	2,600	4,900	4,000	10,600
10-19	12,900	5,100	2,200	3,300	2,400
20-29	5,200	3,200	200	800	1,000
30 or more	1,800	1,200	S	300	300
Male	71,000	28,500	11,200	10,500	20,800
Fewer than 10	25,300	1,800	6,200	4,100	13,300
10-19	20,200	8,000	4,300	3,600	4,300
20-29	13,800	9,900	600	1,500	1,700
30 or more	11,700	8,800	S	1,200	1,500
Computer and information scientist	14,800	5,800	3,300	1,400	4,200
Female	2,400	600	700	300	800
Fewer than 10	1,600	100	700	100	700
10-19	400	300	S	S	S
20-29	300	200	S	S	S
30 or more	S	S	S	S	S

TABLE H-27. S&E doctorate holders employed in universities and 4-year colleges, by occupation, sex, years since doctorate, and tenure status: 2003

Occupation, sex, and years since doctorate	Total	Not tenured			Tenure not applicable
		Tenured	On tenure track	Not on tenure track	
Male	12,400	5,200	2,600	1,200	3,400
Fewer than 10	5,800	800	2,200	700	2,100
10-19	3,100	1,700	300	300	800
20-29	2,200	1,600	S	S	300
30 or more	1,400	1,000	S	100	S
Mathematical scientist	23,500	12,600	3,900	2,000	5,000
Female	6,600	1,800	1,200	800	2,900
Fewer than 10	4,300	500	1,100	400	2,400
10-19	1,300	700	S	200	300
20-29	700	500	S	S	S
30 or more	200	S	S	S	S
Male	17,000	10,800	2,700	1,300	2,200
Fewer than 10	5,000	1,000	2,400	600	1,000
10-19	5,300	4,300	200	400	400
20-29	3,000	2,500	S	S	400
30 or more	3,700	3,000	S	S	500
Physical scientist	41,900	18,500	6,700	4,900	11,800
Female	6,500	2,100	1,400	1,000	2,000
Fewer than 10	3,100	200	1,000	600	1,200
10-19	2,200	1,200	400	S	500
20-29	700	400	S	100	200
30 or more	600	200	S	S	S
Male	35,400	16,400	5,300	3,900	9,800
Fewer than 10	12,200	1,300	3,900	1,900	5,000
10-19	8,800	5,000	1,300	600	2,000
20-29	7,100	4,800	S	700	1,500
30 or more	7,300	5,300	S	600	1,300
Psychologist	26,900	11,800	4,300	3,200	7,600
Female	13,500	4,500	2,500	2,000	4,500
Fewer than 10	6,900	800	1,900	1,400	2,700
10-19	3,900	1,700	500	400	1,300
20-29	1,900	1,200	S	200	300
30 or more	800	700	S	S	S
Male	13,400	7,300	1,800	1,200	3,100
Fewer than 10	3,500	500	1,600	400	1,000
10-19	2,900	1,700	100	400	700
20-29	4,000	2,600	S	200	1,100
30 or more	3,000	2,600	S	S	300
Social scientist	47,000	28,500	9,600	3,900	4,900
Female	16,200	8,100	3,900	1,900	2,200
Fewer than 10	7,300	1,200	3,700	1,000	1,300
10-19	4,900	3,500	200	600	600
20-29	3,100	2,600	S	300	200
30 or more	800	700	S	S	S
Male	30,800	20,400	5,700	2,000	2,700
Fewer than 10	10,000	2,600	5,100	1,200	1,100
10-19	7,300	6,000	400	300	500
20-29	7,900	7,000	S	200	500
30 or more	5,600	4,700	S	300	600
Engineer	27,800	14,600	5,500	2,000	5,700
Female	3,300	900	1,200	200	1,000
Fewer than 10	2,400	200	1,100	200	1,000
10-19	700	600	S	S	S

TABLE H-27. S&E doctorate holders employed in universities and 4-year colleges, by occupation, sex, years since doctorate, and tenure status: 2003

Occupation, sex, and years since doctorate	Total	Not tenured			Tenure not applicable
		Tenured	On tenure track	Not on tenure track	
20–29	100	100	S	S	S
30 or more	S	S	S	S	S
Male	24,500	13,700	4,300	1,800	4,700
Fewer than 10	8,200	1,300	3,200	1,100	2,700
10–19	6,500	4,700	900	300	600
20–29	5,300	4,300	200	S	800
30 or more	4,400	3,400	S	300	600
S&E related occupations	14,500	2,300	1,000	3,200	8,100
Female	5,900	600	400	1,600	3,400
Fewer than 10	2,700	S	200	400	2,000
10–19	1,700	200	S	300	1,000
20–29	1,300	200	S	S	300
30 or more	S	S	S	S	S
Male	8,600	1,700	600	1,600	4,700
Fewer than 10	3,500	S	300	700	2,400
10–19	1,900	300	300	200	1,100
20–29	1,700	600	S	400	700
30 or more	1,400	700	S	200	500
Non-S&E occupations	75,800	34,400	13,400	9,000	19,000
Female	25,900	10,000	4,900	4,300	6,700
Fewer than 10	11,600	1,000	4,500	2,500	3,500
10–19	7,400	5,100	400	200	1,700
20–29	5,300	3,000	S	900	1,300
30 or more	1,700	800	S	S	200
Male	49,900	24,500	8,600	4,600	12,300
Fewer than 10	18,900	3,300	7,000	1,400	7,300
10–19	9,500	6,600	1,000	1,100	800
20–29	11,900	7,700	500	1,400	2,300
30 or more	9,700	6,900	S	800	1,900

S = suppressed because fewer than 50 weighted cases.

NOTES: Numbers rounded to nearest 100. Detail may not add to total because of rounding.

SOURCE: National Science Foundation, Division of Science Resources Statistics, Scientists and Engineers Statistical Data System (SESTAT).

TABLE H-28. S&E doctorate holders employed in universities and 4-year colleges, by occupation, race/ethnicity, years since doctorate, and tenure status: 2003

Occupation, race/ethnicity, and years since doctorate	Total	Tenured	Not tenured		Tenure not applicable
			On tenure track	Not on tenure track	
All occupations	385,200	169,100	66,300	48,500	101,300
White	292,600	139,400	47,800	35,000	70,300
Fewer than 10	105,500	15,100	36,700	15,000	38,600
10–19	75,000	44,000	9,100	8,400	13,500
20–29	64,500	44,900	1,700	7,200	10,600
30 or more	47,600	35,400	300	4,300	7,600
Asian	58,100	17,800	10,400	8,700	21,200
Fewer than 10	30,100	2,200	7,500	4,900	15,500
10–19	17,100	7,900	2,400	2,600	4,200
20–29	6,700	4,500	400	700	1,100
30 or more	4,200	3,200	S	500	400
Black	17,500	6,000	3,800	1,700	6,000
Fewer than 10	9,500	900	3,400	900	4,400
10–19	4,100	2,500	300	600	600
20–29	2,800	1,800	100	100	800
30 or more	1,100	700	S	S	200
Hispanic	13,600	4,600	3,100	2,700	3,200
Fewer than 10	7,800	1,000	2,600	1,900	2,300
10–19	3,800	1,900	500	700	700
20–29	1,100	800	S	100	200
30 or more	1,000	800	S	S	S
American Indian/Alaska Native	2,200	1,200	600	100	300
Fewer than 10	800	200	400	S	200
10–19	600	400	S	S	S
20–29	400	300	S	S	S
30 or more	400	300	S	S	S
S&E occupations	294,800	132,400	51,900	36,300	74,300
White	220,100	108,900	37,400	25,300	48,600
Fewer than 10	77,700	11,800	28,300	11,200	26,400
10–19	59,900	34,500	7,800	7,500	10,200
20–29	46,900	34,900	1,200	3,800	7,000
30 or more	35,700	27,700	200	2,800	5,000
Asian	49,400	14,700	9,000	7,800	17,900
Fewer than 10	26,000	1,800	6,300	4,500	13,400
10–19	14,100	6,400	2,100	2,300	3,300
20–29	5,600	3,800	400	600	800
30 or more	3,600	2,700	S	400	300
Black	12,400	4,100	2,500	1,100	4,800
Fewer than 10	7,100	500	2,100	500	4,000
10–19	3,000	1,900	300	400	400
20–29	1,600	1,200	S	S	300
30 or more	700	500	S	S	S
Hispanic	10,100	3,600	2,200	1,900	2,500
Fewer than 10	5,700	700	1,700	1,500	1,800
10–19	2,800	1,600	500	300	600
20–29	800	600	S	S	200
30 or more	800	700	S	S	S
American Indian/Alaska Native	1,900	1,100	600	S	300
Fewer than 10	800	200	400	S	100
10–19	400	300	S	S	S
20–29	400	300	S	S	S
30 or more	400	300	S	S	S
S&E-related occupations	14,500	2,300	1,000	3,200	8,100
White	10,500	1,900	700	2,500	5,400

TABLE H-28. S&E doctorate holders employed in universities and 4-year colleges, by occupation, race/ethnicity, years since doctorate, and tenure status: 2003

Occupation, race/ethnicity, and years since doctorate	Total	Tenured	Not tenured		Tenure not applicable
			On tenure track	Not on tenure track	
Fewer than 10	3,900	S	400	800	2,600
10-19	2,300	400	200	300	1,300
20-29	2,800	700	S	1,200	900
30 or more	1,400	600	S	200	600
Asian	3,400	300	200	500	2,400
Fewer than 10	2,000	S	S	300	1,600
10-19	1,100	S	S	S	700
20-29	200	S	S	S	S
30 or more	S	S	S	S	S
Black	300	S	S	100	100
Fewer than 10	200	S	S	S	100
10-19	S	S	S	S	S
20-29	S	S	S	S	S
30 or more	S	S	S	S	S
Hispanic	200	S	S	S	100
Fewer than 10	100	S	S	S	100
10-19	S	S	S	S	S
20-29	S	S	S	S	S
30 or more	S	S	S	S	S
American Indian/Alaska Native	S	S	S	S	S
Fewer than 10	S	S	S	S	S
10-19	S	S	S	S	S
20-29	S	S	S	S	S
30 or more	S	S	S	S	S
Non-S&E occupations	75,800	34,400	13,400	9,000	19,000
White	62,000	28,600	9,800	7,200	16,400
Fewer than 10	23,900	3,200	8,000	3,100	9,600
10-19	12,800	9,000	1,100	600	2,000
20-29	14,800	9,300	500	2,200	2,800
30 or more	10,400	7,100	S	1,300	2,000
Asian	5,400	2,800	1,300	400	900
Fewer than 10	2,100	400	1,100	S	400
10-19	2,000	1,500	S	S	200
20-29	900	600	S	S	200
30 or more	400	200	S	S	S
Black	4,700	1,900	1,300	500	1,000
Fewer than 10	2,200	400	1,300	300	300
10-19	1,000	700	S	200	200
20-29	1,100	600	S	S	500
30 or more	300	200	S	S	S
Hispanic	3,300	1,000	900	800	600
Fewer than 10	2,000	300	900	400	500
10-19	900	300	S	S	S
20-29	300	200	S	S	S
30 or more	200	100	S	S	S
American Indian/Alaska Native	200	S	S	S	S
Fewer than 10	S	S	S	S	S
10-19	100	S	S	S	S
20-29	S	S	S	S	S
30 or more	S	S	S	S	S

S = suppressed because fewer than 50 weighted cases.

NOTES: Numbers rounded to nearest 100. Detail may not add to total because of rounding. Total includes Native Hawaiian/other Pacific Islander and multiple race not shown separately.

SOURCE: National Science Foundation, Division of Science Resources Statistics, Scientists and Engineers Statistical Data System (SESTAT).

TABLE H-29. S&E doctorate holders employed in universities and 4-year colleges, by occupation, disability status, and tenure status: 2003

Occupation and disability status	Total	Not tenured			Tenure not applicable
		Tenured	On tenure track	Not on tenure track	
All occupations	385,200	169,100	66,300	48,500	101,300
No disability	357,300	154,400	62,300	44,900	95,800
With disability	27,800	14,700	4,000	3,600	5,600
S&E occupations	294,800	132,400	51,900	36,300	74,300
No disability	275,200	120,800	49,700	34,000	70,700
With disability	19,600	11,600	2,100	2,300	3,600
Scientist	267,100	117,900	46,400	34,300	68,600
No disability	249,100	107,400	44,400	32,100	65,300
With disability	17,900	10,500	2,000	2,200	3,300
Biological/life scientist	112,900	40,600	18,500	18,800	35,100
No disability	106,100	37,100	17,700	17,600	33,700
With disability	6,900	3,500	800	1,200	1,400
Computer and information scientist	14,800	5,800	3,300	1,400	4,200
No disability	14,000	5,300	3,200	1,400	4,100
With disability	800	500	100	S	S
Mathematical scientist	23,500	12,600	3,900	2,000	5,000
No disability	22,500	11,900	3,700	2,000	4,800
With disability	1,100	700	100	S	200
Physical scientist	41,900	18,500	6,700	4,900	11,800
No disability	39,400	17,000	6,600	4,400	11,300
With disability	2,500	1,500	100	500	500
Psychologist	26,900	11,800	4,300	3,200	7,600
No disability	24,900	10,700	4,000	3,100	7,200
With disability	2,000	1,200	300	S	400
Social scientist	47,000	28,500	9,600	3,900	4,900
No disability	42,300	25,400	9,200	3,600	4,200
With disability	4,600	3,100	500	300	700
Engineer	27,800	14,600	5,500	2,000	5,700
No disability	26,100	13,400	5,300	1,900	5,400
With disability	1,700	1,200	200	S	300
S&E related occupations	14,500	2,300	1,000	3,200	8,100
No disability	13,900	2,100	900	3,000	7,900
With disability	600	200	S	200	200
Non-S&E occupations	75,800	34,400	13,400	9,000	19,000
No disability	68,200	31,500	11,600	7,900	17,200
With disability	7,600	2,900	1,800	1,100	1,800

S = suppressed because fewer than 50 weighted cases.

NOTES: Numbers rounded to nearest 100. Detail may not add to total because of rounding. For disability status, those who reported any difficulty (from moderate to unable to do) in any category of seeing (with glasses/contact lenses), hearing (with hearing aid), walking, or lifting are classified as "with disability."

SOURCE: National Science Foundation, Division of Science Resources Statistics, Scientists and Engineers Statistical Data System (SESTAT).

TABLE H-30. Percentage of full-time ranked S&E doctorate holders employed in 4-year colleges or universities who are supported by federal grants or contracts, by occupation, sex, race/ethnicity, and disability status: 2003
(Percent)

Occupation		Race/ethnicity									Disability status	
		Sex			American Indian/Alaska Native					No disability	Disability status	
		Total	Female	Male	White	Asian	Black	Hispanic	Alaska Native			
All occupations (number)	119,000	30,200	88,800	93,400	16,100	3,800	4,300	800	109,800	9,100		
All occupations	42.3	35.8	45.0	42.5	45.8	28.0	42.9	41.3	42.1	44.0		
S&E occupations	46.7	40.5	49.2	46.9	50.9	28.6	50.8	39.2	47.0	42.0		
Scientist	44.8	39.4	47.2	45.0	48.6	26.0	48.7	44.3	45.1	40.2		
Biological/life scientist	58.0	51.2	61.6	56.9	60.9	62.0	68.8	65.2	58.6	49.6		
Computer and information scientist	45.4	33.5	47.4	43.6	47.1	50.0	71.4	S	45.8	39.7		
Mathematical scientist	30.9	26.3	32.7	35.5	30.2	3.0	36.8	S	30.8	32.4		
Physical scientist	60.1	53.6	61.2	59.6	63.4	37.3	69.9	72.4	60.6	51.9		
Psychologist	30.8	32.7	29.1	30.4	37.2	22.3	37.5	46.7	30.9	29.5		
Social scientist	21.5	22.3	21.2	23.1	17.8	15.7	9.8	S	21.1	25.7		
Engineer	63.9	68.4	63.4	65.5	63.2	52.2	66.5	S	64.4	58.2		
S&E-related occupations	43.7	35.2	48.9	45.0	30.2	45.8	S	S	41.4	77.9		
Non-S&E occupations	24.9	20.3	27.2	25.4	16.5	25.6	23.4	S	22.6	47.0		

S = suppressed because fewer than 50 weighted cases.

NOTES: Numbers rounded to nearest 100. Detail may not add to total because of rounding. Total includes Native Hawaiian/other Pacific Islander and multiple race not shown separately. For disability status, those who reported any difficulty (from moderate to unable to do) in any category of seeing (with glasses/contact lenses), hearing (with hearing aid), walking, or lifting are classified as "with disability."

SOURCE: National Science Foundation, Division of Science Resources Statistics, Scientists and Engineers Statistical Data System (SESTAT).

TABLE H-31. Full-time natural science and engineering doctorate holders employed in 4-year colleges or universities, by sex, race, disability status, and number of refereed publications and patents since 1998: 2003

Sex, race/ethnicity, and disability status	Total	Publications since 1998						Patents since 1998	
		None	1 or 2	3-5	6-10	11-20	More than 20	No	Yes
Total	357,900	30,400	26,500	41,800	71,500	83,800	103,800	326,200	31,700
Female	110,300	10,800	10,800	14,400	24,000	26,100	24,200	104,200	6,000
Male	247,600	19,700	15,700	27,400	47,500	57,700	79,500	222,000	25,600
White	270,200	23,900	19,900	30,800	53,500	61,300	80,900	246,800	23,500
Asian	55,100	3,800	2,100	5,800	12,000	15,400	16,100	48,400	6,700
Black	16,500	1,600	3,400	3,400	3,300	2,600	2,200	16,100	400
Hispanic	12,900	1,000	900	1,700	2,100	3,500	3,700	12,100	800
American Indian/Alaskan Native	2,100	S	100	100	300	800	700	1,900	200
No disability	333,500	27,700	25,400	39,000	66,400	79,300	95,700	304,400	29,100
With disability	24,400	2,800	1,100	2,800	5,100	4,500	8,100	21,800	2,500

S = suppressed because fewer than 50 weighted cases.

NOTES: Numbers rounded to nearest 100. Detail may not add to total because of rounding. Natural sciences includes biological, life, computer, mathematical, and physical sciences. Total includes Native Hawaiian/other Pacific Islander and multiple race not shown separately. For disability status, those who reported any difficulty (from moderate to unable to do) in any category of seeing (with glasses/contact lenses), hearing (with hearing aid), walking, or lifting are classified as "with disability."

SOURCE: National Science Foundation, Division of Science Resources Statistics, Scientists and Engineers Statistical Data System (SESTAT).

TABLE H-32. Scientists and engineers employed in government, by managerial status, age, sex, race/ethnicity, and disability status: 2003

Primary or secondary work activity and age (years)	Total	Race/ethnicity						Disability status	
		Sex			American		Indian/	No	With
		Female	Male	White	Asian	Black		disability	disability
All ages	2,142,900	892,400	1,250,400	1,574,700	150,400	226,400	131,500	13,900	1,989,000 153,900
Managers	863,200	309,200	553,900	664,800	43,900	87,500	44,300	3,900	802,300 60,900
Nonmanagers	1,279,700	583,200	696,500	909,900	106,500	138,900	87,200	10,100	1,186,700 93,000
Percent who are managers	40.3	34.7	44.3	42.2	29.2	38.6	33.7	27.9	40.3 39.6
Younger than 35	457,200	214,000	243,200	330,100	30,500	46,300	33,400	4,600	445,500 11,700
Managers	145,500	55,600	89,900	112,000	7,700	14,000	8,400	S	139,400 6,100
Nonmanagers	311,700	158,500	153,300	218,100	22,900	32,400	25,100	4,000	306,100 5,600
Percent who are managers	31.8	26.0	37.0	33.9	25.1	30.2	25.0	S	31.3 52.2
35–44	582,600	243,500	339,100	401,800	43,600	71,500	46,800	4,400	552,600 30,000
Managers	234,800	94,000	140,700	171,500	12,600	28,400	13,900	2,200	225,600 9,100
Nonmanagers	347,800	149,500	198,300	230,300	31,000	43,000	32,900	2,200	327,000 20,800
Percent who are managers	40.3	38.6	41.5	42.7	28.8	39.8	29.7	49.7	40.8 30.5
45–54	714,600	295,900	418,700	543,100	46,900	72,900	37,800	2,600	647,300 67,300
Managers	322,700	116,200	206,400	255,600	14,500	30,500	14,800	S	294,000 28,700
Nonmanagers	391,900	179,700	212,300	287,500	32,500	42,400	23,000	2,200	353,400 38,600
Percent who are managers	45.2	39.3	49.3	47.1	30.8	41.8	39.2	S	45.4 42.7
55 or older	388,500	139,000	249,500	299,700	29,300	35,700	13,400	2,300	343,600 44,900
Managers	160,200	43,400	116,800	125,600	9,200	14,600	7,200	S	143,300 16,900
Nonmanagers	228,300	95,600	132,600	174,100	20,100	21,100	6,200	1,600	200,300 28,000
Percent who are managers	41.2	31.2	46.8	41.9	31.4	40.8	53.7	S	41.7 37.7

S = suppressed because fewer than 50 weighted cases.

NOTES: Numbers rounded to nearest 100. Detail may not add to total because of rounding. Total includes Native Hawaiian/other Pacific Islander and multiple race not shown separately. For disability status, those who reported any difficulty (from moderate to unable to do) in any category of seeing (with glasses/contact lenses), hearing (with hearing aid), walking, or lifting are classified as "with disability." Managers include anyone who reported management as either a primary or secondary work activity.

SOURCE: National Science Foundation, Division of Science Resources Statistics, Scientists and Engineers Statistical Data System (SESTAT).

TABLE H-33. Primary or secondary work activity of scientists and engineers employed in business or industry, by age, sex, race/ethnicity, and disability status: 2003

Age in years and work activity	Total	Race/ethnicity						American Indian/ Alaska Native	Disability status		
		Sex							No disability	With disability	
		Total	Female	Male	White	Asian	Black				
All ages	9,677,900	3,198,700	6,479,100	7,472,200	1,121,900	421,000	477,900	33,400	9,202,600	475,300	
Computer applications	1,961,900	539,600	1,422,300	1,396,300	361,300	77,700	89,900	3,100	1,873,600	88,300	
Management/administration	3,589,800	986,500	2,603,300	2,928,300	291,900	142,700	154,500	13,800	3,435,200	154,600	
Research and development	1,965,200	528,100	1,437,100	1,433,100	307,000	87,300	95,900	7,900	1,868,300	96,900	
Teaching	439,200	257,600	181,600	355,400	29,700	28,900	18,200	1,900	420,000	19,200	
Other	7,819,700	2,715,400	5,104,300	6,124,800	806,100	340,500	395,600	28,700	7,422,700	397,000	
Younger than 35	2,574,700	1,044,000	1,530,700	1,851,000	397,400	120,100	145,300	4,900	2,516,500	58,200	
Computer applications	646,400	180,400	466,000	402,200	173,400	22,900	33,200	1,500	630,300	16,000	
Management/administration	822,900	292,500	530,400	629,000	90,800	36,900	42,600	1,400	808,100	14,800	
Research and development	614,500	212,300	402,300	409,900	122,400	32,800	33,800	2,600	597,500	17,100	
Teaching	104,000	72,900	31,100	82,500	8,200	5,700	4,600	S	102,400	1,600	
Other	1,891,200	837,300	1,053,900	1,406,600	240,800	87,600	111,500	2,800	1,847,700	43,500	
35-44	3,046,800	1,029,600	2,017,200	2,284,900	371,800	145,600	185,300	9,600	2,950,800	96,000	
Computer applications	686,400	191,500	495,000	490,100	115,100	31,400	34,500	1,100	666,200	20,300	
Management/administration	1,230,400	348,700	881,700	982,300	114,500	47,000	63,600	4,600	1,197,100	33,300	
Research and development	644,800	170,700	474,100	447,400	112,300	33,100	37,300	1,700	626,000	18,800	
Teaching	146,800	89,800	57,000	120,400	8,700	10,400	6,300	S	142,200	4,700	
Other	2,389,200	860,000	1,529,200	1,816,500	257,500	117,700	150,400	7,600	2,312,700	76,400	
45-54	2,583,000	810,500	1,772,500	2,096,700	232,500	114,600	99,100	13,500	2,404,100	178,900	
Computer applications	426,100	118,100	308,000	334,800	51,700	19,600	15,300	S	398,100	27,900	
Management/administration	1,031,700	262,000	769,700	876,200	59,200	43,500	33,300	6,600	967,300	64,400	
Research and development	451,100	99,100	352,000	365,200	50,300	15,300	15,300	1,500	420,900	30,200	
Teaching	122,400	72,400	50,000	102,100	6,000	8,200	4,800	S	114,600	7,800	
Other	2,151,900	701,700	1,450,300	1,748,400	187,400	94,800	85,500	12,700	2,001,600	150,300	
55 and older	1,473,300	314,500	1,158,800	1,239,700	120,200	40,800	48,100	5,400	1,331,200	142,100	
Computer applications	203,000	49,600	153,400	169,200	21,100	3,700	6,900	S	179,000	24,000	
Management/administration	504,800	83,400	421,400	440,700	27,500	15,300	15,000	1,200	462,700	42,100	
Research and development	254,700	45,900	208,700	210,500	22,100	6,100	9,500	2,100	223,900	30,800	
Teaching	65,900	22,400	43,500	50,500	6,700	4,500	2,500	S	60,900	5,100	
Other	1,276,400	276,800	999,600	1,075,900	104,200	33,500	40,700	5,100	1,152,800	123,600	

S = suppressed because fewer than 50 weighted cases.

NOTES: Numbers rounded to nearest 100. Detail may not add to total because of rounding. Sum of primary/secondary work activity categories exceeds total because of multiple response. Total includes Native Hawaiian/other Pacific Islander and multiple race not shown separately. For disability status, those who reported any difficulty (from moderate to unable to do) in any category of seeing (with glasses/contact lenses), hearing (with hearing aid), walking, or lifting are classified as "with disability."

SOURCE: National Science Foundation, Division of Science Resources Statistics, Scientists and Engineers Statistical Data System (SESTAT).

TABLE H-34. Median number of direct subordinates for managerial scientists and engineers employed in business or industry, by age, sex, race/ethnicity, and disability status: 2003

Sex, race/ethnicity, and disability status	All ages	Younger			
	(years)	than 35	35-44	45-54	55 or older
Total	6	4	6	8	7
Female	5	3	5	6	5
Male	7	4	7	9	8
White	6	4	7	8	7
Asian	5	3	5	6	7
Black	7	7	7	7	4
Hispanic	6	3	6	8	6
American Indian/Alaska Native	9	5	5	9	12
No disability	6	4	6	8	7
With disability	6	4	4	9	6

NOTES: Numbers rounded to nearest 100. Detail may not add to total because of rounding. Total includes Native Hawaiian/other Pacific Islander and multiple race not shown separately. For disability status, those who reported any difficulty (from moderate to unable to do) in any category of seeing (with glasses/contact lenses), hearing (with hearing aid), walking, or lifting are classified as "with disability."

SOURCE: National Science Foundation, Division of Science Resources Statistics, Scientists and Engineers Statistical Data System (SESTAT).

TABLE H-35. Scientists and engineers employed full time in business or industry, by occupation, number of publications since 1998, applications for a U.S. patent since 1998, sex, race/ethnicity, and disability status: 2003

Occupation, publications, and patents	Total	Race/ethnicity							Disability status	
		Sex			American Indian/Alaska Native				Disability status	
		Female	Male	White	Asian	Black	Hispanic	Alaska Native	No disability	With disability
Publications since 1998										
All occupations	8,850,100	2,611,800	6,238,300	6,772,600	1,055,700	398,700	453,600	29,800	8,433,200	416,900
None	7,407,500	2,286,700	5,120,800	5,640,800	887,600	345,500	391,800	24,200	7,053,700	353,800
1 or 2	645,400	163,400	482,000	515,100	72,300	24,500	25,200	2,100	614,500	30,900
3 to 5	371,800	73,600	298,200	282,100	47,700	15,900	17,500	1,800	354,200	17,600
6 to 10	221,200	59,400	161,900	170,500	26,400	7,000	9,300	700	214,100	7,100
11 to 20	128,000	16,600	111,300	105,000	13,800	2,900	4,900	S	123,900	4,000
More than 20	76,100	12,100	64,000	59,000	7,900	3,000	5,000	S	72,800	3,400
Patents since 1998										
All natural scientists and engineers ^a	2,879,400	546,900	2,332,400	2,115,700	475,600	117,400	121,100	7,200	2,750,100	129,300
No	2,610,900	521,400	2,089,500	1,910,600	427,600	113,000	113,600	6,700	2,493,200	117,700
Yes	268,500	25,500	242,900	205,100	48,100	4,400	7,500	500	256,900	11,600
Biological/life scientist	119,000	49,000	69,900	88,900	18,400	4,500	6,200	200	113,500	5,500
No	100,800	43,600	57,200	76,300	13,500	4,300	5,800	S	96,000	4,800
Yes	18,100	5,400	12,700	12,600	4,900	200	400	S	17,400	700
Computer and information scientist	1,398,700	330,200	1,068,500	971,200	285,900	68,400	49,400	2,800	1,337,500	61,200
No	1,325,000	321,800	1,003,200	916,100	272,500	66,400	47,900	2,700	1,266,900	58,100
Yes	73,700	8,400	65,300	55,100	13,400	2,000	1,500	S	70,600	3,100
Engineer	1,174,800	113,100	1,061,800	909,900	146,800	38,700	58,400	3,500	1,120,200	54,600
No	1,027,000	105,500	921,500	793,600	123,300	37,200	53,200	3,200	979,600	47,400
Yes	147,800	7,500	140,300	116,300	23,500	1,400	5,200	S	140,700	7,200
Mathematical scientist	30,600	8,800	21,700	25,000	3,600	1,200	300	S	28,600	2,000
No	29,100	8,800	20,300	23,700	3,400	1,200	200	S	27,200	1,900
Yes	1,500	100	1,400	1,200	200	S	S	S	1,400	S
Physical scientist	156,300	45,800	110,500	120,600	21,000	4,500	6,900	800	150,200	6,100
No	129,000	41,700	87,300	100,800	14,900	3,800	6,500	700	123,500	5,500
Yes	27,300	4,200	23,100	19,800	6,100	700	400	S	26,700	600

S = suppressed because fewer than 50 weighted cases.

^a The prevalence of patents by social scientists was so low they were excluded from this analysis, as were those in S&E related and non-S&E occupations.

NOTES: Numbers rounded to nearest 100. Detail may not add to total because of rounding. Total includes Native Hawaiian/Other Pacific Islander and multiple race not shown separately. For disability status, those who reported any difficulty (from moderate to unable to do) in any category of seeing (with glasses/contact lenses), hearing (with hearing aid), walking, or lifting are classified as "with disability."

SOURCE: National Science Foundation, Division of Science Resources Statistics, Scientists and Engineers Statistical Data System (SESTAT).

TABLE H-36. Demographic characteristics of employed scientists and engineers, by sex: 2003
(Percent distribution)

Demographic characteristic	Both sexes	Female	Male
Employed scientists and engineers (number)	18,019,400	7,582,000	10,437,200
Age in 2003 (years)	100.0	100.0	100.0
29 and younger	11.3	14.6	8.9
30-39	27.6	28.4	26.9
40-49	29.6	30.1	29.2
50 and older	31.6	26.9	35.0
Race/ethnicity			
White	77.4	75.1	79.1
Asian	9.6	9.3	9.7
Black	5.8	7.7	4.3
Hispanic	5.2	5.6	4.9
American Indian/Alaska Native	0.4	0.5	0.4
Other race/ethnicity ^a	1.6	1.8	1.5
Disability status			
No disability	94.5	94.9	94.1
With disability	5.5	5.1	5.9
Marital status			
Married	75.2	68.8	79.9
Widowed	1.0	1.6	0.6
Separated	1.0	1.2	0.9
Divorced	6.9	9.6	5.0
Never married	15.8	18.8	13.5
If married, spouse's employment status			
Employed	56.2	60.9	52.8
Full time	46.3	57.0	38.5
Part time	9.9	3.8	14.3
Not employed	19.0	7.9	27.1
If spouse is employed, field in which spouse's job required bachelor's in ^b			
Engineering, computer sciences, or natural sciences	12.4	18.1	8.3
Social sciences	6.4	5.7	6.8
Other	22.7	21.0	24.0
Children living in household			
No	48.4	50.4	46.9
Yes	51.6	49.6	53.1
Citizenship			
U.S. citizen	94.2	95.3	93.4
Native	84.3	85.6	83.4
Naturalized	9.9	9.7	10.0
Non-U.S. citizen	5.8	4.7	6.6
Permanent resident	4.1	3.6	4.4
Temporary resident	1.7	1.1	2.2

^a Includes Native Hawaiian/other Pacific Islander and multiple race.

^b Percents represent the proportion responding "yes" to each category. Respondents could answer "yes" to more than one category.

NOTES: Numbers rounded to nearest 100. Detail may not add to total because of rounding. For disability status, those who reported any difficulty (from moderate to unable to do) in any category of seeing (with glasses/contact lenses), hearing (with hearing aid), walking, or lifting are classified as "with disability."

SOURCE: National Science Foundation, Division of Science Resources Statistics, Scientists and Engineers Statistical Data System (SESTAT).

TABLE H-37. Demographic characteristics of employed S&E doctorate holders, by race/ethnicity and sex: 2003

Demographic characteristic													American Indian/ Alaska Native					
	All races/ethnicities			White			Asian			Black			Hispanic			Alaska Native		
	Total	Female	Male	Total	Female	Male	Total	Female	Male	Total	Female	Male	Total	Female	Male	Total	Female	Male
Employed scientists and engineers (number)	883,700	256,900	626,900	660,900	192,700	468,200	151,200	35,100	116,100	34,500	14,800	19,700	29,300	10,900	18,400	4,400	1,400	3,000
Age in 2003 (years)																		
29 and younger	16,000	8,200	7,800	10,100	4,800	5,400	2,800	1,000	1,800	2,200	2,200	S	800	100	600	S	S	S
30-39	194,000	67,500	126,400	124,800	45,500	79,400	51,700	14,000	37,700	7,400	3,800	3,600	8,800	3,500	5,200	800	500	300
40-49	258,500	79,200	179,300	180,900	58,100	122,800	56,900	13,900	43,000	9,600	3,000	6,600	8,800	3,100	5,700	1,200	400	800
50 and older	415,200	101,900	313,300	345,100	84,400	260,700	39,800	6,200	33,600	15,300	5,800	9,500	10,900	4,100	6,800	2,400	600	1,800
Disability status																		
No disability	824,600	241,100	583,500	613,300	180,900	432,400	144,000	32,700	111,300	32,600	14,100	18,500	27,600	10,300	17,300	3,800	1,200	2,600
With disability	59,200	15,800	43,400	47,600	11,900	35,800	7,200	2,400	4,800	1,900	700	1,200	1,700	600	1,100	600	200	500
Marital status																		
Married	716,900	183,600	533,200	536,900	138,400	398,500	127,800	26,700	101,200	23,300	7,900	15,400	22,400	7,600	14,800	3,500	1,200	2,300
Widowed	10,000	5,900	4,200	7,700	4,500	3,300	1,100	500	600	500	400	S	700	S	200	S	S	S
Separated	8,700	3,400	5,300	6,400	2,100	4,300	1,100	400	600	500	300	200	700	600	100	S	S	S
Divorced	55,600	23,900	31,600	44,100	19,400	24,700	5,100	1,500	3,600	4,200	2,200	2,000	1,500	700	800	500	100	400
Never married	92,500	40,000	52,500	65,800	28,400	37,400	16,000	6,000	10,100	6,000	4,000	2,000	4,000	1,500	2,500	300	100	200
If married, spouse's employment status																		
Employed	509,500	160,100	349,400	383,800	120,100	263,800	87,900	24,400	63,500	17,100	6,800	10,300	15,700	6,300	9,300	2,600	1,000	1,700
Full time	393,700	147,000	246,700	287,600	109,000	178,600	73,800	23,100	50,700	15,000	6,500	8,500	13,000	6,100	6,900	2,200	900	1,300
Part time	115,800	13,100	102,700	96,300	11,100	85,200	14,100	1,300	12,900	2,100	300	1,800	2,700	300	2,400	500	100	300
Not employed	207,400	23,600	183,800	153,000	18,400	134,700	39,900	2,300	37,600	6,200	1,100	5,100	6,800	1,300	5,500	800	200	700
If spouse is employed, field in which spouse's job required bachelor's in ^a																		
Engineering, computer sciences, or natural sciences	183,000	77,800	105,200	120,000	53,000	67,000	51,700	17,700	33,900	5,100	3,400	1,700	4,900	3,000	1,900	800	400	400
Social sciences	106,600	31,400	75,200	85,400	25,900	59,500	12,800	2,900	9,900	3,600	700	2,900	3,900	1,500	2,400	600	200	400
Other	253,200	64,000	189,200	200,200	49,500	150,700	32,000	7,500	24,500	10,000	2,900	7,100	8,100	2,900	5,200	1,500	400	1,100
Children living in household																		
No	456,900	140,900	316,000	362,100	110,000	252,000	59,100	15,400	43,700	17,100	7,900	9,300	14,200	5,800	8,400	2,500	800	1,800
Yes	426,800	115,900	310,900	298,900	82,700	216,200	92,000	19,700	72,300	17,400	6,900	10,400	15,100	5,100	10,000	1,900	600	1,300
Citizenship																		
U.S. citizen	746,200	224,300	521,900	606,200	180,600	425,600	84,200	20,700	63,500	27,300	12,000	15,300	21,300	7,800	13,500	4,400	1,400	3,000
Native	603,000	189,500	413,500	550,500	165,900	384,600	10,300	4,000	6,400	21,100	10,600	10,400	14,500	5,900	8,600	4,400	1,400	3,000
Naturalized	143,200	34,900	108,400	55,600	14,600	41,000	73,900	16,700	57,200	6,200	1,300	4,900	6,800	1,900	4,900	S	S	S

TABLE H-37. Demographic characteristics of employed S&E doctorate holders, by race/ethnicity and sex: 2003

Demographic characteristic	All races/ethnicities			White			Asian			Black			Hispanic			American Indian/ Alaska Native		
	Total	Female	Male	Total	Female	Male	Total	Female	Male	Total	Female	Male	Total	Female	Male	Total	Female	Male
Non-U.S. citizen	137,500	32,500	105,000	54,800	12,200	42,600	66,900	14,400	52,500	7,200	2,800	4,400	8,000	3,100	4,800	S	S	S
Permanent resident	92,000	22,800	69,200	38,500	8,300	30,300	41,500	9,600	31,900	6,200	2,600	3,600	5,400	2,300	3,000	S	S	S
Temporary resident	45,400	9,600	35,700	16,200	3,900	12,300	25,400	4,700	20,600	1,100	200	800	2,600	800	1,800	S	S	S

^a Percents represent the proportion responding "yes" to each category. Respondents could answer "yes" to more than one category.

NOTES: Numbers rounded to nearest 100. Detail may not add to total because of rounding. For disability status, those who reported any difficulty (from moderate to unable to do) in any category of seeing (with glasses/contact lenses), hearing (with hearing aid), walking, or lifting are classified as "with disability."

SOURCE: National Science Foundation, Division of Science Resources Statistics, Scientists and Engineers Statistical Data System (SESTAT).

TABLE H-38. Demographic characteristics of employed scientists and engineers, by disability status and sex: 2003
(Percent distribution)

Demographic characteristic	Total			No disability			With disability		
	Both sexes	Female	Male	Both sexes	Female	Male	Both sexes	Female	Male
Employed scientists and engineers (number)	18,019,400	7,582,200	10,437,200	17,022,100	7,195,800	9,826,200	997,300	386,400	610,900
Age in 2003 (years)	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
29 and younger	11.3	14.6	8.9	11.7	15.0	9.3	5.0	7.5	3.4
30–39	27.6	28.4	26.9	28.4	29.2	27.8	12.9	13.8	12.3
40–49	29.6	30.1	29.2	29.7	29.8	29.5	27.7	34.5	23.4
50 and older	31.6	26.9	35.0	30.2	26.0	33.4	54.4	44.3	60.9
Disability status									
No disability	94.5	94.9	94.1	100.0	100.0	100.0	S	S	S
With disability	5.5	5.1	5.9	S	S	S	100.0	100.0	100.0
Race/ethnicity									
White	77.4	75.1	79.1	77.5	75.4	79.0	76.2	69.1	80.8
Asian	9.6	9.3	9.7	9.6	9.3	9.9	8.0	8.9	7.5
Black	5.8	7.7	4.3	5.7	7.6	4.4	5.8	9.5	3.5
Hispanic	5.2	5.6	4.9	5.2	5.6	4.9	5.7	7.0	4.9
American Indian/Alaska Native	0.4	0.5	0.4	0.4	0.4	0.3	1.2	1.6	1.0
Other race/ethnicity ^a	1.6	1.8	1.5	1.6	1.6	1.5	3.0	4.0	2.4
Marital status									
Married	75.2	68.8	79.9	75.3	69.1	79.9	73.9	62.3	81.1
Widowed	1.0	1.6	0.6	1.0	1.6	0.6	1.5	2.9	0.6
Separated	1.0	1.2	0.9	1.0	1.2	0.9	1.0	1.2	0.9
Divorced	6.9	9.6	5.0	6.8	9.3	4.9	10.1	14.9	7.1
Never married	15.8	18.8	13.5	15.9	18.8	13.7	13.5	18.7	10.3
If married, spouse's employment status									
Employed	56.2	60.9	52.8	56.3	61.3	52.6	54.4	52.2	55.8
Full time	46.3	57.0	38.5	46.5	57.5	38.4	43.9	48.4	41.0
Part time	9.9	3.8	14.3	9.8	3.8	14.2	10.5	3.8	14.8
Not employed	19.0	7.9	27.1	19.0	7.8	27.3	19.5	10.2	25.4
If spouse is employed, field in which spouse's job required bachelor's in ^b									
Engineering, computer sciences, or natural sciences	12.4	18.1	8.3	12.5	18.2	8.4	10.5	16.6	6.7
Social sciences	6.4	5.7	6.8	6.3	5.7	6.8	6.6	5.7	7.1
Other	22.7	21.0	24.0	22.7	21.0	23.9	23.7	20.5	25.7
Children living in household									
No	48.4	50.4	46.9	48.0	50.1	46.5	54.4	57.2	52.6
Yes	51.6	49.6	53.1	52.0	49.9	53.5	45.6	42.8	47.4
Citizenship									
U.S. citizen	94.2	95.3	93.4	94.1	95.3	93.2	96.3	96.7	96.1
Native	84.3	85.6	83.4	84.2	85.6	83.2	86.8	85.9	87.3
Naturalized	9.9	9.7	10.0	9.9	9.7	10.1	9.6	10.9	8.7

TABLE H-38. Demographic characteristics of employed scientists and engineers, by disability status and sex: 2003
 (Percent distribution)

Demographic characteristic	Total			No disability			With disability		
	Both sexes	Female	Male	Both sexes	Female	Male	Both sexes	Female	Male
Non-U.S. citizen	5.8	4.7	6.6	5.9	4.7	6.8	3.7	3.3	3.9
Permanent resident	4.1	3.6	4.4	4.1	3.6	4.5	2.7	2.8	2.7
Temporary resident	1.7	1.1	2.2	1.8	1.1	2.2	1.0	0.5	1.3

S = suppressed because percent based on fewer than 50 weighted cases.

^a Includes Native Hawaiian/other Pacific Islander and multiple race.

^b Percents represent the proportion responding "yes" to each category. Respondents could answer "yes" to more than one category.

NOTES: Numbers rounded to nearest 100. Detail may not add to total because of rounding. For disability status, those who reported any difficulty (from moderate to unable to do) in any category of seeing (with glasses/contact lenses), hearing (with hearing aid), walking, or lifting are classified as "with disability."

SOURCE: National Science Foundation, Division of Science Resources Statistics, Scientists and Engineers Statistical Data System (SESTAT).

The data in this report come from many sources, including surveys conducted by the National Science Foundation (NSF), other federal agencies, and nonfederal organizations. Many methods of data collection are represented. Therefore, users should take great care when comparing data from different sources. These data often will not be strictly comparable because of differences in definitions, survey procedures, and phrasing of questions, among other things.

Survey accuracy is determined by the joint effects of sampling and nonsampling errors.¹ Sampling errors arise when estimates based on a sample differ from figures that would have been obtained if a complete population had been surveyed. Nonsampling errors can arise from design, reporting, and processing errors as well as from errors due to faulty responses or nonresponses. Nonsampling errors include respondent-based events, such as some respondents interpreting questions differently from other respondents; respondents making estimates rather than giving actual data; and respondents being unable or unwilling to provide complete, correct information. Errors can also arise during the processing of responses, such as during recording and keying.

Reporting Categories

This report draws on data collected from many sources, many of which use differing terms to describe the various statistics presented here. Efforts have been made to maintain consistency throughout these tables, but in some tables, it has been necessary to use distinct terminology that does not match that used in other tables.

Racial/Ethnic Information

The collection and reporting of race/ethnicity data pose several additional problems. First, both the naming of population subgroups and their definitions have changed over time. Second, many of the groups of particular interest are quite small, so it is difficult to measure them accurately without surveys of the entire population of interest. In some instances, sample surveys may not have had sufficient sample size to permit the calculation of reliable racial/ethnic population estimates for all groups;

¹ In all surveys cited as sources of data for this report, efforts were made to minimize these errors.

consequently, data are not shown for some groups. The U.S. Bureau of the Census's Technical Notes Current Population Survey, for example, cannot provide data on American Indians. Data on this population are available only from the decennial census. Third, data on race/ethnicity are often based on self-identification. These data are less reliable for certain racial/ethnic groups than for others. Data collected at two points in time indicate that self-identification of American Indians is much less reliable than self-identification of other racial/ethnic groups.² Fourth, it is easy to overlook or minimize heterogeneity within subgroups when only a single statistic is reported for a total racial/ethnic group.

Information About People with Disabilities

Data on people with disabilities who study or work in science and engineering (S&E) are seriously limited for several reasons. First, the operational definitions of disability vary, can include a wide range of physical and mental conditions, and may not be comparable. The Americans With Disabilities Act of 1990 (ADA) encouraged progress toward standard definitions. Under ADA, an individual is considered to have a disability if he or she has a physical or mental impairment that substantially limits one or more of his or her major life activities, has a record of such impairment, or is regarded as having such an impairment. ADA also contains definitions of specific disabilities.

Second, data on disabilities frequently are not included in comprehensive institutional records (e.g., in registrars' records in institutions of higher education). If included at all, such information may be kept only in confidential files at an office responsible for providing special services to students. Institutions of higher education are unlikely to have information regarding students with disabilities who have not requested special services related to their disability from the institution. In elementary/secondary school programs receiving funds to provide special education, however, statistics on all students identified as having special needs are centrally available.

Third, information about people with disabilities that is gathered from surveys is often obtained from self-reported

² U.S. Bureau of Labor Statistics, *A Test of Methods for Collecting Racial and Ethnic Information* (Washington, DC: U.S. Department of Labor, 1995).

responses. Typically, respondents are asked whether they have a disability and to specify what kind of disability it is. Resulting data therefore reflect individual perceptions rather than objective measures.

The attempt to provide estimates of the proportion of the undergraduate student population with disabilities is an example of how these factors coalesce. Self-reported data on the undergraduate student population, collected through a survey to ascertain patterns of student financial aid, suggest that about 10 percent of this population have some disability. Estimates from population surveys of higher education institutions, in contrast, place the estimate much lower, between 1 and 5 percent. Whether this discrepancy is the result of self-perception, incomplete reporting, nonevident disabilities, or differing definitions is difficult to ascertain.

In the final analysis, although considerable information is available about individuals with disabilities in the education system and in the S&E workforce, it is often impossible to compare statistics from different sources.

Several sources of data on people with disabilities are cited here. They include the National Postsecondary Student Aid Study (NPSAS) conducted by the Department of Education's National Center for Education Statistics (NCES), NSF's Survey of Earned Doctorates (SED), and the integrated Scientists and Engineers Data System (SESTAT). These sources are described in more detail later in this appendix; the following is a brief description of how each treats the issue of disability.

- NPSAS asked students in 2000 whether they have any disabilities "such as hearing, speech, or mobility impairment, or vision problems that can't be corrected with glasses." Response categories are: legally blind or have a vision impairment that cannot be corrected with glasses; hearing impairment; speech disability or limitation; orthopedic or mobility limitation; specific learning disability; and other health-related disability or limitation.
- SED asks if the respondent has a disability, then asks the respondent to mark which categories describe the disability(ies). Response categories include: blind/visually impaired; deaf/hard of hearing; physical/orthopedic disability; learning/cognitive disability; vocal/speech disability; other disability.

- The SESTAT surveys ask the degree of difficulty—none, slight, moderate, severe, or unable to do—an individual has in seeing (with glasses), hearing (with hearing aid), walking without assistance, or lifting. Those respondents who answered "moderate," "severe," or "unable to do" for any activity were classified as disabled.

Primary Data Sources

Data from several sources are presented here. This section provides summary descriptions of major sources and information about the location of more detailed survey descriptions.

Primary NSF Sources

The following sources from NSF's Division of Science Resources Statistics (SRS) were used for data tables in this publication. Published data tables from these surveys can be accessed on the SRS website at <http://www.nsf.gov/statistics>. In addition, researchers may access data directly from the Scientists and Engineers Statistics Data System (SESTAT) or the WebCASPAR database system, which also can be accessed from the SRS website.

Survey of Earned Doctorates

SED has been conducted annually since 1957 for NSF, the U.S. Department of Education, the National Endowment for the Humanities, the National Institutes of Health, the National Aeronautics and Space Administration, and the U.S. Department of Agriculture. This is a survey of all recipients of research doctoral degrees from U.S. institutions. SED data are restricted to research doctorates such as the doctor of philosophy (Ph.D.) or doctor of science (D.Sc.); it excludes the recipients of first professional degrees such as the juris doctor (J.D.) or doctor of medicine (M.D.).

Data for SED are collected directly from individual doctorate recipients contacted through graduate deans at all U.S. universities awarding research doctorates. The recipients are asked to provide information about the field and specialty of their degree as well as their personal educational history, selected demographic data, and information about their postgraduate work and study plans. Over time, more than 90 percent of the annual cohort of doctorate recipients respond to the questionnaire.

Partial data from public sources, such as field of study, are added to the file for nonrespondents. No imputations are made, however, for nonresponse for data not available elsewhere, such as race/ethnicity information. The data for a given year include all doctorates awarded in the 12-month period ending on June 30 of that year. Information about SED can be found at <http://www.nsf.gov/statistics/srvydoctorates/>.

Survey of Graduate Students and Postdoctorates in Science and Engineering

The data collected in the Survey of Graduate Students and Postdoctorates in Science and Engineering (GSS) represent national estimates of graduate enrollment and postdoctoral employment at the beginning of the academic year in all academic institutions in the United States that offer doctoral or master's degree programs in any S&E or health field. Included are data for all branch campuses; affiliated research centers; and separately organized components such as medical or dental schools, schools of nursing, and schools of public health. The survey population consists of approximately 600 graduate institutions. Data are collected at the academic department level.

Approximately 99 percent of institutions and departments respond to the survey. Missing data for partially nonrespondent departments are imputed using the departments' previous year's data, where available, or data from peer institutions in cases where data had not been reported the previous year. Data for completely nonrespondent departments are imputed using data from the previous year, where available.

Available information includes counts of full-time graduate students by source and mechanism of support, including data on women and first-year students enrolled full time, part-time graduate students by sex, and citizenship and racial/ethnic background of all graduate students. In addition, data on postdoctorates are available by source of support, sex, and citizenship, including separate data on those holding first professional doctorates in the health fields; summary information about other doctoral nonfaculty research personnel is also included.

NSF has collected data on graduate S&E enrollment and postdoctoral appointees since 1966. From fall 1966 through fall 1971, data from a limited number of doctorate-granting institutions were collected through the NSF Graduate Traineeship Program, which requested data only on those S&E fields supported by NSF. During the

period 1972–75, this data collection effort was gradually expanded to include additional S&E fields as well as all institutions known to have programs leading to the master's or doctoral degree. Because of this expansion, data for 1974 and earlier years are not strictly comparable with 1975 and later data.

In 1999, the survey presented respondents with new race/ethnicity categories:

- The “Asian/Pacific Islander” category used in previous years’ surveys became two categories: “Asian” and “Native Hawaiian/Pacific Islander.”
- The categories “more than one race Hispanic/Latino” and “more than one race non-Hispanic/Latino” were added.
- The “other” category included in previous years’ surveys was removed.

These changes are not reflected in the tables in this report. Currently, only about 8 percent of the departments report data in any of the new categories. For the tables in this report, as in other publications using these data, the data reported in the new categories are combined into previous survey categories. The data are combined for the tables as follows: the “Asian” category and the “Native Hawaiian/Pacific Islander” category form the “Asian/Pacific Islander” category; the “one race only Hispanic/Latino” category and the “more than one race Hispanic/Latino” category form the “Hispanic” category; and the “more than one race non-Hispanic” category and the “unknown” category form the “other or unknown” category.

Information about GSS can be found at <http://www.nsf.gov/statistics/srvygradpostdoc/>.

SESTAT Data System

The SESTAT data system integrates data from three SRS surveys—the Survey of Doctorate Recipients, the National Survey of College Graduates, and the National Survey of Recent College Graduates. The integration of the SESTAT surveys requires complementary sample populations and reference periods, matching survey questions, procedures, and field definitions, as well as weighting adjustments for any overlapping populations.

The surveys provide data on educational background, occupation, employment, and demographic characteristics. These surveys are of individuals and currently have

a combined sample size of about 102,300, representing a population of about 22 million scientists and engineers, including people trained in S&E or S&E-related fields or working in S&E or S&E-related occupations. Each of the three surveys that makes up the SESTAT data system collects new data every 2 years. The data reported in this publication were collected in 2003.

SESTAT defines scientists and engineers as residents of the United States with a baccalaureate degree or higher who, as of the study's reference period, were not institutionalized, were age 75 or less, and were either educated as or working as a scientist or engineer. A baccalaureate or higher degree is a bachelor's, master's, doctorate, or professional degree. To meet the scientist or engineer requirement, the U.S. resident had to (1) have at least one baccalaureate or higher degree in an S&E or S&E-related field or (2) have a baccalaureate or higher degree in a non-S&E field but worked in an S&E or S&E-related occupation as of October 1, 2003. Some elements of SESTAT's desired target population were not included within the target populations of any of the three SESTAT component surveys. Bachelor's and master's level S&E or S&E-related personnel missing from the survey frames are predominately:

- U.S. residents as of the survey reference date whose bachelor's and/or master's degrees in S&E or S&E-related fields were received prior to April 2000 or from a foreign institution, who resided outside the United States on April 1, 2000, but not with the U.S. armed forces stationed abroad; or
- U.S. residents as of the survey reference date with no baccalaureate or higher degree in any field as of April 1, 2000, who were awarded a degree in S&E or an S&E-related field after June 2002 by a U.S. institution or after April 2000 by a foreign institution.

Doctorate level S&E or S&E-related personnel missing from the survey frames are predominately:

- U.S. residents as of the survey reference date with doctorates in S&E or health fields received after June 2002 or from a foreign institution, with no baccalaureate or higher degree in any field as of April 1, 2000, and no bachelor's or master's degree in S&E or S&E-related fields received from a U.S. institution between April 1, 2000, and June 2002; or
- U.S. residents as of the survey reference date with doctorates in S&E or health fields received after June 2002 or from a foreign institution but with no bachelor's or master's S&E or S&E-related degree received from a U.S. institution between April 1, 2000, and June 2002, who resided outside the United States on April 1, 2000, but not with the U.S. armed forces stationed abroad.

SESTAT classifies the following broad categories as S&E occupations: computer and mathematical scientists, life and related scientists, physical and related scientists, social and related scientists, and engineers. Postsecondary teachers are included within each of these groups. The following are considered S&E-related occupations: health and related occupations, S&E managers, S&E precollege teachers, S&E technicians and technologists, including computer programmers, and other S&E-related occupations, such as architects and actuaries. Non-S&E occupations include non-S&E managers; non-S&E teachers; non-S&E technicians/technologists; social services and related occupations; sales and marketing occupations; art, humanities, and related occupations; and other non-S&E occupations—for example, clerical and administrative support personnel, farmers, foresters, fishermen, lawyers, judges, librarians, archivists, curators, food service personnel, construction tradespeople, mechanics and repairers, and those involved in precision/production occupations, operators (for example, machine set-up, machine operators and tenders, fabricators, assemblers) and related occupations, transportation/material moving occupations and protective and other service occupations. Information on SESTAT can be found on the Web at <http://sestat.nsf.gov/>.

Primary Non-NSF Sources

The following non-NSF sources were used for data tables in this report.

The Integrated Postsecondary Education Data System Survey: Fall Enrollment, Completions, and Institutional Characteristics

National Center for Education Statistics
U.S. Department of Education
1990 K Street, NW
Washington, DC 20006
(202) 502-7300
<http://nces.ed.gov/ipeds>

The Integrated Postsecondary Education Data System (IPEDS) Survey began in 1986 as a supplement to and replacement for the Higher Education General Information Survey (HEGIS), which began in 1966. HEGIS annually surveyed institutions listed in the current NCES Education Directory of Colleges and Universities; IPEDS surveys all postsecondary institutions, including universities and colleges and the institutions that offer technical and vocational education. IPEDS consists of several integrated component surveys that obtain information about types of institutions where postsecondary education is available, student participants, fall enrollments, programs offered and completed, graduation rates, and the human and financial resources involved in the delivery of postsecondary education. Descriptions of these surveys follow.

The IPEDS Institutional Characteristics Survey provides the basis for the list of institutions reported in the Education Directory of Colleges and Universities. The list includes institutions that meet specific accreditation criteria and offer at least a 1-year program of college-level studies leading to a degree. Each fall, institutions listed in the previous year's directory are asked to update information about their school's characteristics.

The IPEDS Completions Survey replaces and extends the HEGIS Degrees and Other Formal Awards Conferred Survey. It is administered to all institutions offering degrees at the bachelor's degree level and above, 2-year institutions, and less-than-2-year institutions.

The IPEDS Fall Enrollment Survey replaces and extends the previous HEGIS surveys of enrollment in institutions of higher education.

The National Postsecondary Student Aid Study

National Center for Education Statistics
U.S. Department of Education
1990 K Street, NW
Washington, DC 20006
(202) 502-7300
<http://nces.ed.gov/npsas>

NPSAS was established by NCES to collect information about financial aid allocated to students enrolled in U.S. postsecondary institutions. NPSAS was first administered in the fall of the 1986-87 academic year. NCES conducted

subsequent cycles of NPSAS during the 1989-90, 1992-93, 1995-96, and 1999-2000 academic years.

The 1999-2000 survey gathered information from about 62,000 undergraduate and graduate students selected from registrars' lists of enrollees at more than 900 postsecondary institutions. The sample included students who did and did not receive financial aid, as well as students' parents. Student information, such as field of study, educational level, and attendance status (part time or full time), was obtained from registrars' records. Types and amounts of financial aid and family financial characteristics were abstracted from school financial aid records. Data pertaining to family circumstances, background demographic data, educational and work experiences, and expectations were collected from students using a computer-assisted telephone interview. The response rate for obtaining institutional record data for all students was 97.0 percent, and the weighted overall student interview response rate was 65.6 percent.

Survey of Engineering and Technology Enrollments and Survey of Engineering and Technology Degrees

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The Engineering Workforce Commission (EWC) annually conducts surveys of engineering enrollments and degrees conferred in almost 600 institutions, including all of those with curricula approved by the Accreditation Board for Engineering and Technology (ABET). EWC counts the number of students studying for engineering degrees at all ABET-accredited engineering schools throughout the United States and also some schools that are not ABET-accredited for a variety of reasons unique to each school. Some schools are in the process of obtaining ABET accreditation; others have simply asked to be included in the survey. The enrollments and degrees surveys obtain responses from about 91 to 93 percent of the schools. Each year, EWC obtains data from all schools included in the previous year's survey to ensure accurate time-series comparisons.

Sampling Errors

Sampling errors occur when estimates are derived from a sample rather than the entire population. The sample used for any particular survey is only one of a large number of possible samples of the same size and design that could have been selected. Even if all other aspects of the survey remained fixed, such as the questionnaire and instructions, the estimates from each sample would differ from other samples. This difference, termed *sampling error*, occurs by chance, and its variability is measured by the standard error associated with a particular estimate.

The standard error of a sample survey estimate measures the precision with which an estimate from one sample approximates the true population value, and it can be used to construct a confidence interval for a survey parameter to assess the accuracy of the estimate. See <http://sestat.ncs.gov/docs/method.html> for information about calculation of standard errors for data from SESTAT, <http://www.bls.gov/cps/home.htm> for Current Population Survey design and methodology, and <http://nces.ed.gov/pubsearch/pubsinfo.asp?pubid=2006180> for information on standard errors for NPSAS data.

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