

TABLE 3-4
U.S. citizen and permanent resident research doctorate recipients, by major field of doctorate, ethnicity, and race: 2023
(Percent)

Field of doctorate	All U.S. citizens and permanent residents (number)	Total	U.S. citizen or permanent resident							
			Hispanic or Latino	Not Hispanic or Latino						Ethnicity not reported
				American Indian or Alaska Native	Asian	Black or African American	White	More than one race	Other race or race not reported	
All fields	35,566	100.0	9.7	0.3	10.8	7.7	64.8	3.6	1.3	1.8
Science and engineering	27,010	100.0	9.6	0.3	12.0	6.1	65.1	3.9	1.3	1.7
Agricultural sciences and natural resources	778	100.0	8.1	0.3	5.9	4.4	74.3	3.5	1.2	2.4
Agricultural, animal, plant, and veterinary sciences	497	100.0	6.4	0.0	6.4	5.0	74.8	3.2	1.4	2.6
Natural resources and conservation	281	100.0	11.0	0.7	5.0	3.2	73.3	3.9	0.7	2.1
Biological and biomedical sciences	7,004	100.0	10.3	0.2	13.0	4.9	64.9	4.7	1.1	1.1
Biochemistry, biophysics, and molecular biology	1,031	100.0	11.3	0.0	13.5	3.8	64.1	5.1	1.0	1.2
Bioinformatics, biostatistics, and computational biology	411	100.0	5.1	0.0	24.8	4.6	59.6	3.9	1.7	0.2
Biological and biomedical sciences, general	623	100.0	11.6	0.0	9.0	6.7	66.9	3.4	1.0	1.4
Cell/ cellular biology and anatomy	546	100.0	13.6	0.0	14.5	4.0	62.8	4.0	0.7	0.4
Ecology, evolutionary biology, and epidemiology	907	100.0	7.5	0.2	9.4	5.3	70.0	5.1	1.4	1.1
Genetics and genomics	359	100.0	9.2	0.6	14.2	3.6	67.1	4.2	0.0	1.1
Microbiology and immunology	845	100.0	11.1	0.2	12.8	5.7	63.1	5.0	1.4	0.7
Neurobiology and neurosciences	947	100.0	11.8	0.3	11.9	4.8	63.3	5.5	1.1	1.4
Pharmacology and toxicology	295	100.0	9.2	0.0	15.6	9.2	58.6	5.4	1.0	1.0
Physiology, oncology, and cancer biology	580	100.0	9.1	0.3	14.3	4.5	64.8	5.0	0.3	1.6
Biological and biomedical sciences, other	460	100.0	10.2	0.0	10.0	2.8	70.9	3.5	1.5	1.1
Computer and information sciences	820	100.0	5.7	0.1	23.2	5.4	57.9	2.6	2.3	2.8
Computer science	554	100.0	6.0	0.2	23.3	3.4	60.1	2.3	2.5	2.2
Computer and information sciences, other	266	100.0	5.3	0.0	22.9	9.4	53.4	3.0	1.9	4.1
Engineering	4,542	100.0	8.8	0.1	16.1	4.6	63.3	3.9	1.3	1.8
Aerospace, aeronautical, astronautical, and space engineering	322	100.0	8.7	0.3	10.6	3.7	68.9	3.7	2.2	1.9
Biological, biomedical, and biosystems engineering	860	100.0	9.2	0.2	20.7	3.1	58.6	5.6	0.7	1.9
Chemical and petroleum engineering	600	100.0	6.7	0.0	16.0	4.3	66.0	4.5	0.8	1.7
Civil, environmental, and transportation engineering	444	100.0	12.4	0.2	13.1	5.6	62.8	3.2	0.7	2.0
Electrical and computer engineering	586	100.0	7.3	0.0	20.5	4.4	61.1	2.6	2.4	1.7
Engineering technologies	123	100.0	8.9	0.0	21.1	5.7	56.9	4.9	1.6	0.8
Industrial engineering and operations research	233	100.0	6.0	0.0	16.3	6.0	66.1	0.9	1.3	3.4
Materials and mining engineering	417	100.0	8.9	0.0	13.9	5.0	65.7	4.3	0.7	1.4
Mechanical engineering	634	100.0	10.7	0.2	12.9	4.6	65.0	3.8	1.6	1.3
Engineering, other	323	100.0	8.0	0.3	13.0	7.1	63.8	2.8	2.2	2.8
Geosciences, atmospheric, and ocean sciences	773	100.0	7.5	0.5	7.4	1.9	77.2	3.8	0.6	1.0
Geological and earth sciences	412	100.0	8.5	0.5	8.0	2.4	76.9	2.4	0.5	0.7
Ocean, marine, and atmospheric sciences	361	100.0	6.4	0.6	6.6	1.4	77.6	5.3	0.8	1.4

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Health sciences	1,953	100.0	8.3	0.5	10.2	12.3	61.4	3.1	1.3	3.0
Nursing and nursing science	517	100.0	4.3	0.8	7.2	14.7	67.3	2.3	0.8	2.7
Pharmacy and pharmaceutical sciences	204	100.0	11.3	0.0	13.7	5.4	63.7	3.4	1.0	1.5
Public health	578	100.0	10.4	0.5	13.0	18.3	50.0	4.0	2.1	1.7
Health sciences, other	654	100.0	8.7	0.3	9.0	7.2	66.1	2.8	1.1	4.9
Mathematics and statistics	929	100.0	6.9	0.0	14.5	2.4	69.8	4.4	1.2	0.9
Applied mathematics	240	100.0	8.8	0.0	16.3	3.8	65.4	4.6	0.4	0.8
Mathematics	495	100.0	6.3	0.0	10.3	1.2	75.4	4.4	1.6	0.8
Statistics	194	100.0	6.2	0.0	23.2	3.6	60.8	4.1	1.0	1.0
Multidisciplinary/ interdisciplinary sciences	826	100.0	9.1	0.2	13.3	7.5	63.7	2.9	1.0	2.3
Interdisciplinary computer sciences	230	100.0	7.4	0.0	21.3	4.8	60.9	3.9	0.9	0.9
Multidisciplinary/ interdisciplinary sciences, other	596	100.0	9.7	0.3	10.2	8.6	64.8	2.5	1.0	2.9
Physical sciences	3,142	100.0	9.4	0.2	10.9	3.2	69.5	3.5	1.5	1.8
Astronomy and astrophysics	215	100.0	10.7	0.0	8.8	1.9	71.2	5.1	0.9	1.4
Chemistry	1,711	100.0	10.2	0.4	10.0	3.6	68.8	3.3	1.7	2.1
Materials sciences	192	100.0	6.8	0.0	13.0	3.6	70.3	4.2	2.1	0.0
Physics	1,024	100.0	8.4	0.0	12.5	2.5	70.1	3.5	1.3	1.7
Psychology	3,178	100.0	12.0	0.4	7.5	9.4	63.1	4.4	1.2	2.1
Clinical psychology	1,078	100.0	11.9	0.6	8.3	6.4	65.2	4.6	0.9	2.0
Counseling and applied psychology	1,099	100.0	12.8	0.3	6.0	14.1	59.5	4.3	1.5	1.5
Research and experimental psychology	655	100.0	9.8	0.3	9.2	5.5	68.2	4.0	1.4	1.7
Psychology, other	346	100.0	13.6	0.3	6.1	11.0	58.1	5.2	1.2	4.6
Social sciences	3,065	100.0	10.7	0.5	9.5	9.5	63.6	3.4	1.5	1.3
Anthropology	296	100.0	13.2	1.4	7.1	3.0	69.3	2.4	2.7	1.0
Area, ethnic, cultural, gender, and group studies	316	100.0	18.7	2.5	10.1	14.9	48.1	2.2	2.2	1.3
Economics	489	100.0	9.2	0.0	14.7	3.5	67.5	2.9	1.6	0.6
Political science and government	438	100.0	9.6	0.0	8.9	6.8	68.0	2.7	1.4	2.5
Public policy analysis	315	100.0	9.2	0.0	7.9	24.4	52.1	4.4	1.3	0.6
Sociology, demography, and population studies	494	100.0	11.7	0.0	7.1	11.7	64.8	3.2	0.4	1.0
Social sciences, other	717	100.0	7.9	0.4	9.3	7.5	67.1	4.6	1.5	1.5
Non-science and engineering	8,556	100.0	10.0	0.5	6.8	12.5	64.0	2.8	1.3	2.1
Business	663	100.0	5.7	0.3	18.4	9.8	59.1	2.3	1.8	2.6
Business administration and management	223	100.0	5.8	0.4	16.6	15.2	54.3	1.8	2.7	3.1
Business, other	440	100.0	5.7	0.2	19.3	7.0	61.6	2.5	1.4	2.3

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Education	3,291	100.0	10.8	0.8	5.5	18.0	59.8	2.3	0.8	2.0
Education leadership and administration	1,051	100.0	11.2	0.6	4.5	25.8	52.6	2.4	0.9	2.1
Education research	985	100.0	9.3	0.6	6.0	16.4	62.8	2.2	0.9	1.6
Teacher education and teaching fields	885	100.0	10.8	1.1	5.6	12.0	65.8	2.0	0.3	2.3
Education, other	370	100.0	13.5	0.8	6.5	14.9	57.6	3.0	1.4	2.4
Humanities	2,536	100.0	10.6	0.5	5.1	5.9	71.2	2.9	1.6	2.2
English language and literature, letters	870	100.0	6.8	0.8	4.7	6.3	74.3	3.3	1.6	2.2
Foreign languages, literatures, and linguistics	322	100.0	26.7	0.6	4.7	3.1	60.6	2.5	0.3	1.6
History	578	100.0	11.4	0.3	5.0	6.2	71.3	3.1	1.2	1.4
Philosophy and religious studies	482	100.0	8.5	0.4	5.6	4.6	72.0	3.1	3.3	2.5
Humanities, other	284	100.0	5.6	0.0	6.3	9.2	72.2	1.4	1.1	4.2
Visual and performing arts	575	100.0	8.7	0.3	6.6	3.8	73.6	2.8	1.6	2.6
Performing arts	340	100.0	8.8	0.3	5.3	4.1	73.8	3.5	1.8	2.4
Visual arts, media studies, and design	235	100.0	8.5	0.4	8.5	3.4	73.2	1.7	1.3	3.0
Other non-science and engineering	1,491	100.0	9.7	0.3	7.4	15.9	59.4	3.7	1.8	1.9
Communications and journalism	440	100.0	8.6	0.2	7.3	12.5	65.5	3.9	1.4	0.7
Multidisciplinary/ interdisciplinary studies	281	100.0	10.0	0.7	5.3	12.1	64.1	1.4	1.8	4.6
Public administration and social services	383	100.0	10.7	0.3	6.5	25.1	50.4	4.4	1.3	1.3
Non-science and engineering, other	387	100.0	9.6	0.3	9.8	13.4	57.9	4.4	2.8	1.8

Note(s):
Due to rounding, percentages may not sum to 100. Beginning in 2021, a modified version of the 2020 Classification of Instructional Programs (CIP) codes was used in the survey data collection, and new broad, major, and detailed fields are used in tables reporting data from 2021 to the present; see the field list in table A-4. Therefore, the field of doctorate data prior to 2021 may not be comparable to subsequent years. For more information about the 2021 taxonomy change, see the "Technical Notes."

Source(s):
National Center for Science and Engineering Statistics, Survey of Earned Doctorates.