

TABLE 1-4

**Research doctorate recipients, by trend broad field of doctorate and sex: Selected years, 1993–2023**

(Number and percent)

Field and sex	1993		1998		2003		2008		2013		2018		2023	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
All fields <sup>a</sup>	39,800	100.0	42,636	100.0	40,762	100.0	48,776	100.0	52,703	100.0	55,078	100.0	57,862	100.0
Male	24,384	61.3	24,628	57.8	22,256	54.6	26,271	53.9	28,326	53.7	29,742	54.0	30,356	52.5
Female	15,121	38.0	17,847	41.9	18,506	45.4	22,494	46.1	24,365	46.2	25,308	45.9	27,499	47.5
Science and engineering	26,486	100.0	28,636	100.0	26,759	100.0	34,765	100.0	39,084	100.0	42,144	100.0	45,533	100.0
Male	17,885	67.5	18,234	63.7	16,219	60.6	20,447	58.8	22,471	57.5	24,239	57.5	25,421	55.8
Female	8,370	31.6	10,281	35.9	10,540	39.4	14,309	41.2	16,603	42.5	17,886	42.4	20,106	44.2
Agricultural sciences and natural resources	1,235	100.0	1,315	100.0	1,226	100.0	1,252	100.0	1,391	100.0	1,499	100.0	1,477	100.0
Male	934	75.6	928	70.6	788	64.3	725	57.9	730	52.5	770	51.4	669	45.3
Female	293	23.7	386	29.4	438	35.7	527	42.1	661	47.5	726	48.4	808	54.7
Biological and biomedical sciences	5,212	100.0	6,011	100.0	5,927	100.0	8,145	100.0	8,707	100.0	8,782	100.0	9,575	100.0
Male	3,061	58.7	3,349	55.7	3,170	53.5	3,970	48.7	4,058	46.6	4,079	46.4	4,251	44.4
Female	2,123	40.7	2,647	44.0	2,757	46.5	4,173	51.2	4,646	53.4	4,700	53.5	5,323	55.6
Computer and information sciences	880	100.0	927	100.0	866	100.0	1,787	100.0	1,843	100.0	2,000	100.0	2,687	100.0
Male	737	83.8	765	82.5	690	79.7	1,387	77.6	1,502	81.5	1,565	78.3	1,978	73.6
Female	138	15.7	159	17.2	176	20.3	400	22.4	341	18.5	434	21.7	709	26.4
Engineering	5,698	100.0	5,922	100.0	5,279	100.0	7,863	100.0	9,000	100.0	10,164	100.0	11,403	100.0
Male	5,097	89.5	5,111	86.3	4,368	82.7	6,167	78.4	6,946	77.2	7,710	75.9	8,381	73.5
Female	522	9.2	773	13.1	911	17.3	1,693	21.5	2,052	22.8	2,450	24.1	3,022	26.5
Geosciences, atmospheric, and ocean sciences	721	100.0	766	100.0	682	100.0	865	100.0	989	100.0	1,185	100.0	1,231	100.0
Male	566	78.5	564	73.6	469	68.8	548	63.4	539	54.5	659	55.6	676	54.9
Female	146	20.2	198	25.8	213	31.2	316	36.5	449	45.4	526	44.4	554	45.0
Health sciences	1,016	100.0	1,285	100.0	1,353	100.0	1,689	100.0	2,109	100.0	2,473	100.0	2,435	100.0
Male	317	31.2	405	31.5	440	32.5	528	31.3	704	33.4	799	32.3	734	30.1
Female	688	67.7	875	68.1	913	67.5	1,159	68.6	1,405	66.6	1,674	67.7	1,701	69.9
Mathematics and statistics	1,146	100.0	1,177	100.0	993	100.0	1,400	100.0	1,817	100.0	2,022	100.0	2,167	100.0
Male	865	75.5	873	74.2	729	73.4	966	69.0	1,290	71.0	1,471	72.7	1,571	72.5
Female	264	23.0	297	25.2	264	26.6	433	30.9	527	29.0	548	27.1	595	27.5
Physical sciences	3,681	100.0	3,800	100.0	3,289	100.0	4,081	100.0	4,595	100.0	5,144	100.0	5,460	100.0
Male	2,866	77.9	2,865	75.4	2,397	72.9	2,957	72.5	3,178	69.2	3,552	69.1	3,612	66.2
Female	776	21.1	917	24.1	892	27.1	1,124	27.5	1,415	30.8	1,589	30.9	1,847	33.8
Psychology	3,420	100.0	3,673	100.0	3,277	100.0	3,357	100.0	3,592	100.0	3,821	100.0	3,899	100.0
Male	1,322	38.7	1,205	32.8	1,044	31.9	999	29.8	997	27.8	1,095	28.7	985	25.3
Female	2,088	61.1	2,456	66.9	2,233	68.1	2,358	70.2	2,594	72.2	2,726	71.3	2,913	74.7
Social sciences	3,477	100.0	3,760	100.0	3,867	100.0	4,326	100.0	5,041	100.0	5,054	100.0	5,199	100.0
Male	2,120	61.0	2,169	57.7	2,124	54.9	2,200	50.9	2,527	50.1	2,539	50.2	2,564	49.3

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(Number and percent)

Field and sex	1993		1998		2003		2008		2013		2018		2023	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Female	1,332	38.3	1,573	41.8	1,743	45.1	2,126	49.1	2,513	49.9	2,513	49.7	2,634	50.7
Non-science and engineering	13,314	100.0	14,000	100.0	14,003	100.0	14,011	100.0	13,619	100.0	12,934	100.0	12,329	100.0
Male	6,499	48.8	6,394	45.7	6,037	43.1	5,824	41.6	5,855	43.0	5,503	42.5	4,935	40.0
Female	6,751	50.7	7,566	54.0	7,966	56.9	8,185	58.4	7,762	57.0	7,422	57.4	7,393	60.0
Business	1,281	100.0	1,175	100.0	1,036	100.0	1,421	100.0	1,551	100.0	1,473	100.0	1,560	100.0
Male	918	71.7	790	67.2	681	65.7	861	60.6	909	58.6	863	58.6	856	54.9
Female	354	27.6	375	31.9	355	34.3	560	39.4	641	41.3	607	41.2	704	45.1
Education	6,689	100.0	6,569	100.0	6,651	100.0	6,561	100.0	4,934	100.0	4,818	100.0	4,562	100.0
Male	2,748	41.1	2,421	36.9	2,256	33.9	2,158	32.9	1,570	31.8	1,494	31.0	1,222	26.8
Female	3,921	58.6	4,131	62.9	4,395	66.1	4,402	67.1	3,364	68.2	3,323	69.0	3,340	73.2
Humanities and arts	4,372	100.0	5,308	100.0	5,226	100.0	4,688	100.0	5,662	100.0	5,139	100.0	4,453	100.0
Male	2,377	54.4	2,770	52.2	2,640	50.5	2,280	48.6	2,806	49.6	2,564	49.9	2,211	49.7
Female	1,971	45.1	2,529	47.6	2,586	49.5	2,408	51.4	2,855	50.4	2,572	50.0	2,241	50.3
Other non-science and engineering	972	100.0	948	100.0	1,090	100.0	1,341	100.0	1,472	100.0	1,504	100.0	1,754	100.0
Male	456	46.9	413	43.6	460	42.2	525	39.1	570	38.7	582	38.7	646	36.8
Female	505	52.0	531	56.0	630	57.8	815	60.8	902	61.3	920	61.2	1,108	63.2

<sup>a</sup> All fields includes doctorate recipients who did not report sex.**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; the trend fields were constructed using the SED-CIP code crosswalk in table A-6. Therefore, the field of doctorate data prior to 2021 may not be comparable to subsequent years. For more information about the field taxonomy changes, see the "Technical Notes."

**Source(s):**

National Center for Science and Engineering Statistics, Survey of Earned Doctorates.