

TABLE 7-8

## Doctorates awarded to U.S. citizens and permanent residents, by sex, field, ethnicity, and race: 2016

(Percent distribution)

Sex and field	All U.S. citizens and permanent residents	Hispanic or Latino <sup>a</sup>	Non-Hispanic or Latino							
			All non-Hispanic or Latino	American Indian or Alaska Native	Asian	Black or African American	Native Hawaiian or Other Pacific Islander	White	More than one race	Other or unknown race or ethnicity
Female (number)	28,269	2,299	25,970	143	1,913	3,609	54	17,522	548	2,181
All fields	100	100	100	100	100	100	100	100	100	100
S&E	39.7	45.5	39.2	39.2	55.4	24.0	31.5	40.0	48.7	41.5
Science	35.7	42.2	35.1	37.1	44.9	22.0	31.5	36.2	44.3	37.2
Agricultural sciences	1.5	1.3	1.5	2.1	1.6	0.6	0.0	1.7	1.6	1.0
Biological sciences	10.7	11.8	10.6	8.4	18.3	4.3	11.1	11.3	13.0	8.7
Computer sciences	0.6	0.3	0.6	0.7	1.3	0.7	0.0	0.5	0.7	0.9
Earth, atmospheric, and ocean sciences	0.9	0.6	1.0	1.4	0.7	0.2	0.0	1.1	1.6	1.1
Mathematics and statistics	0.9	0.4	0.9	0.7	1.7	0.3	0.0	0.9	2.2	1.3
Physical sciences	3.4	2.6	3.4	1.4	5.3	1.4	0.0	3.7	6.0	2.9
Psychology	11.1	19.1	10.4	11.2	9.3	9.2	18.5	10.4	13.1	12.2
Social sciences	6.7	6.2	6.7	11.2	6.6	5.4	1.9	6.7	6.0	9.2
Engineering	4.0	3.3	4.0	2.1	10.5	2.0	0.0	3.8	4.4	4.3
Non-S&E	60.3	54.5	60.8	60.8	44.6	76.0	68.5	60.0	51.3	58.5
Education	27.7	28.3	27.7	32.9	15.4	43.3	33.3	26.4	20.3	23.7
Health	13.7	10.0	14.0	11.2	12.7	14.0	13.0	14.5	11.1	12.6
Humanities	6.2	6.5	6.1	7.7	3.5	2.3	3.7	7.1	6.2	6.9
Other non-S&E <sup>b</sup>	12.7	9.7	13.0	9.1	13.1	16.3	18.5	12.0	13.7	15.4
Male (number)	23,048	1,592	21,456	103	1,654	1,656	37	15,680	432	1,894
All fields	100	100	100	100	100	100	100	100	100	100
S&E	57.8	56.4	57.9	46.6	71.6	32.5	35.1	59.3	64.4	56.2
Science	42.7	43.3	42.7	39.8	43.8	24.9	27.0	44.6	43.1	42.0
Agricultural sciences	1.9	1.8	1.9	2.9	0.7	0.9	0.0	2.2	1.4	1.8
Biological sciences	11.8	11.4	11.8	11.7	17.0	5.5	13.5	12.2	13.0	9.3
Computer sciences	2.8	1.8	2.9	0.0	3.8	2.5	2.7	2.7	3.5	3.5
Earth, atmospheric, and ocean sciences	1.5	0.9	1.5	2.9	0.9	0.3	0.0	1.8	1.2	1.2
Mathematics and statistics	3.2	3.3	3.2	2.9	4.1	1.5	0.0	3.2	5.3	3.1
Physical sciences	9.0	6.2	9.2	2.9	9.0	3.0	5.4	10.1	6.7	8.3
Psychology	5.0	9.5	4.7	5.8	3.1	4.5	0.0	4.8	7.4	5.2
Social sciences	7.6	8.2	7.6	10.7	5.2	6.6	5.4	7.7	4.6	9.5
Engineering	15.1	13.1	15.2	6.8	27.8	7.6	8.1	14.7	21.3	14.2
Non-S&E	42.2	43.6	42.1	53.4	28.4	67.5	64.9	40.7	35.6	43.8
Education	14.6	18.5	14.3	25.2	5.7	30.9	32.4	13.6	10.6	12.5

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Sex and field	All U.S. citizens and permanent residents	Hispanic or Latino <sup>a</sup>	Non-Hispanic or Latino							
			All non-Hispanic or Latino	American Indian or Alaska Native	Asian	Black or African American	Native Hawaiian or Other Pacific Islander	White	More than one race	Other or unknown race or ethnicity
Health	5.2	4.1	5.3	6.8	7.1	6.9	8.1	4.9	6.9	4.6
Humanities	6.5	6.9	6.4	6.8	1.9	2.6	2.7	7.2	4.4	7.9
Other non-S&E <sup>b</sup>	15.9	14.0	16.1	14.6	13.6	27.1	21.6	14.9	13.7	18.8

S&amp;E = science and engineering.

<sup>a</sup> Hispanic or Latino may be any race.<sup>b</sup> Includes interdisciplinary or other sciences.**Note(s)**

Data in this table differ from doctoral degree data in this report that are based on the National Center for Science and Engineering Statistics' Survey of Earned Doctorates (SED). SED data are for research doctorates only. The greatest differences are in psychology, education, and medical and other health sciences. Before 2008, the National Center for Education Statistics (NCES) used two doctoral degree categories: doctor's and first-professional. In 2008 and 2009, NCES allowed optional reporting in three new doctoral degree categories: doctor's—research or scholarship, doctor's—professional practice, and doctor's—other. In 2010, NCES required institutions to use only the three new doctoral degree categories. With the new reporting system, degrees formerly classified as first-professional (e.g., MDs and JDs) can be reported as doctoral degrees, most often as doctor's—professional practice. In this table, data for 2008 and 2009 include only doctorates reported under the old doctor's degree category plus those reported as doctor's—research or scholarship. Data for 2010 and later include only doctorates reported as doctor's—research or scholarship. Data are based on degree-granting institutions eligible to participate in Title IV federal financial aid programs and do not match previously published data that were based on accredited higher education institutions.

**Source(s)**

National Science Foundation, National Center for Science and Engineering Statistics, special tabulations of U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Completions Survey, unrevised provisional release data, 2016.