

**Table 24. U.S. citizen and permanent resident doctorate recipients, by major field of study, ethnicity, and race: 2016
(Percent distribution)**

Field of study	All U.S. citizen and permanent resident doctorate recipients (number)	Total	U.S. citizen or permanent resident								
			Hispanic or Latino	Not Hispanic or Latino						Other race or race not reported	Ethnicity not reported
				American Indian or Alaska Native	Asian	Black or African American	White	More than one race			
All fields	35,719	100.0	7.2	0.4	8.6	6.6	71.5	2.9	0.8	2.1	
Life sciences	8,697	100.0	7.5	0.3	10.5	5.9	70.3	3.0	0.6	1.8	
Agricultural sciences and natural resources	773	100.0	6.0	0.6	6.7	3.9	77.7	2.2	0.5	2.3	
Biological and biomedical sciences	6,225	100.0	7.9	0.2	11.4	4.5	70.3	3.4	0.7	1.7	
Health sciences	1,699	100.0	6.8	0.6	9.1	11.8	67.2	2.2	0.5	1.8	
Physical sciences and earth sciences	3,666	100.0	5.1	0.2	8.2	2.6	78.5	3.0	0.5	1.9	
Chemistry	1,579	100.0	5.5	0.1	9.5	4.1	75.4	3.3	0.4	1.8	
Geosciences, atmospheric, and ocean sciences	802	100.0	5.2	0.5	6.1	1.2	82.4	2.5	0.2	1.7	
Physics and astronomy	1,285	100.0	4.4	0.2	8.0	1.8	79.8	3.0	0.7	2.2	
Mathematics and computer sciences	1,730	100.0	5.5	0.2	12.5	4.5	69.8	3.8	0.9	2.8	
Computer and information sciences	783	100.0	4.2	0.0	15.2	5.4	68.3	3.2	1.1	2.6	
Mathematics and statistics	947	100.0	6.7	0.3	10.2	3.8	71.1	4.2	0.7	3.0	
Psychology and social sciences	6,830	100.0	8.5	0.4	6.3	7.2	71.0	3.2	1.1	2.3	
Psychology	3,371	100.0	9.1	0.3	5.6	6.9	71.4	3.3	0.9	2.6	
Anthropology	360	100.0	10.6	1.4	4.2	4.7	73.6	3.6	1.7	0.3	
Economics	521	100.0	6.0	0.2	11.7	3.5	72.6	1.3	1.2	3.6	
Political science and government	579	100.0	7.4	0.5	5.0	4.7	76.2	3.6	0.9	1.7	
Sociology	508	100.0	6.5	0.2	6.3	8.5	71.9	4.1	1.4	1.2	
Other social sciences	1,491	100.0	8.9	0.6	6.9	10.6	66.5	3.1	1.2	2.3	
Engineering	4,181	100.0	6.5	0.2	15.4	4.1	67.2	2.9	0.8	2.9	
Aerospace, aeronautical, and astronautical engineering	233	100.0	7.3	0.9	9.0	2.6	70.8	4.3	0.9	4.3	
Bioengineering and biomedical engineering	746	100.0	6.7	0.0	21.7	3.2	62.6	3.5	1.1	1.2	
Chemical engineering	470	100.0	6.8	0.0	16.0	2.3	69.4	2.3	0.6	2.6	
Civil engineering	219	100.0	7.3	0.5	11.0	3.2	72.1	2.7	0.5	2.7	
Electrical, electronics, and communications engineering	547	100.0	5.1	0.2	19.7	6.0	60.5	2.9	0.4	5.1	
Industrial and manufacturing engineering	82	100.0	11.0	0.0	15.9	8.5	57.3	2.4	3.7	1.2	

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Materials science engineering	456	100.0	7.9	0.0	14.0	3.9	67.3	3.7	0.2	2.9	
Mechanical engineering	585	100.0	5.5	0.0	13.5	3.6	71.1	1.4	0.9	4.1	
Other engineering	843	100.0	6.0	0.5	11.4	5.5	70.3	2.8	1.2	2.3	
Education	4,303	100.0	7.5	0.7	4.9	14.9	67.1	2.3	0.8	1.8	
Education administration	730	100.0	6.0	0.8	2.3	23.4	62.5	1.5	1.2	2.2	
Education research	1,981	100.0	7.9	0.7	5.4	13.8	67.0	2.7	0.8	1.7	
Teacher education	159	100.0	3.1	1.3	3.1	16.4	69.8	2.5	0.0	3.8	
Teaching fields	949	100.0	7.5	0.5	5.2	10.0	73.6	1.6	0.8	0.8	
Other education	484	100.0	9.3	0.8	6.8	15.3	61.2	3.5	0.2	2.9	
Humanities and arts	4,447	100.0	7.2	0.4	4.0	3.8	79.3	2.5	0.6	2.1	
Foreign languages and literature	399	100.0	23.1	0.5	3.3	0.8	68.4	1.0	0.8	2.3	
History	949	100.0	8.0	0.3	3.6	5.4	77.4	2.8	0.8	1.6	
Letters	1,314	100.0	4.2	0.3	3.8	3.3	83.6	2.1	0.5	2.2	
Other humanities and arts	1,785	100.0	5.3	0.6	4.6	4.0	79.6	3.0	0.6	2.2	
Other ^a	1,865	100.0	6.6	0.2	10.1	10.6	67.0	2.3	0.9	2.3	
Business management and administration	845	100.0	6.6	0.4	14.4	9.6	63.7	2.2	1.3	1.8	
Communication	472	100.0	7.2	0.0	5.5	6.4	76.1	2.5	0.4	1.9	
Non-S&E fields not elsewhere classified	548	100.0	6.2	0.0	7.5	15.7	64.4	2.2	0.7	3.3	
Unknown field	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

S&E = science and engineering.

^a Non-science and engineering fields.

NOTES: See table A-6 in the technical notes for a listing of major fields and their constituent subfields. Due to rounding, percentages may not sum to 100.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Earned Doctorates, 2016.