

**Table 24****U.S. citizen and permanent resident doctorate recipients, by major field of study, ethnicity, and race: 2019**

(Number and 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	35,274	100.0	8.1	0.3	9.7	7.1	68.7	3.2	1.1	1.8	
Life sciences	9,052	100.0	8.6	0.3	11.5	6.0	68.0	3.3	1.0	1.3	
Agricultural sciences and natural resources	822	100.0	6.6	0.6	5.6	4.9	77.4	2.3	1.1	1.6	
Biological and biomedical sciences	6,380	100.0	9.4	0.2	12.7	4.3	67.8	3.6	1.0	1.0	
Health sciences	1,850	100.0	6.5	0.5	10.1	12.1	64.8	2.6	0.9	2.3	
Physical sciences and earth sciences	3,903	100.0	6.9	0.2	9.4	2.3	75.4	3.6	0.9	1.4	
Chemistry	1,781	100.0	8.4	0.2	10.5	3.5	71.6	3.7	0.7	1.5	
Geosciences, atmospheric sciences, and ocean sciences	809	100.0	6.4	0.5	3.8	1.9	81.1	3.8	1.1	1.4	
Physics and astronomy	1,313	100.0	5.2	0.1	11.3	0.8	77.1	3.3	0.9	1.4	
Mathematics and computer sciences	1,787	100.0	5.8	0.1	14.1	3.9	69.1	3.8	1.5	1.8	
Computer and information sciences	800	100.0	4.8	0.1	16.8	4.6	67.4	3.4	1.5	1.5	
Mathematics and statistics	987	100.0	6.6	0.0	12.0	3.2	70.5	4.2	1.5	2.0	
Psychology and social sciences	6,723	100.0	9.4	0.4	6.6	8.8	67.7	3.6	1.2	2.3	
Psychology	3,349	100.0	9.6	0.4	5.9	8.5	68.2	3.6	1.0	2.7	
Anthropology	359	100.0	10.9	0.3	5.0	5.6	68.5	5.8	2.2	1.7	
Economics	491	100.0	6.5	0.0	15.3	4.3	67.2	2.4	1.2	3.1	
Political science and government	504	100.0	8.5	0.0	6.0	4.6	75.2	2.6	1.6	1.6	
Sociology	511	100.0	10.0	0.2	4.7	9.2	68.7	4.1	1.0	2.2	
Other social sciences	1,509	100.0	9.3	0.9	6.6	13.1	63.8	3.6	1.2	1.5	
Engineering	4,253	100.0	7.2	0.2	16.9	4.2	65.8	2.9	1.2	1.6	
Aerospace, aeronautical, and astronautical engineering	212	100.0	6.6	0.5	9.4	2.8	78.3	0.9	0.5	0.9	
Bioengineering and biomedical engineering	772	100.0	8.4	0.0	22.2	3.5	59.5	3.8	0.9	1.8	
Chemical engineering	480	100.0	6.3	0.6	16.9	5.6	65.4	3.1	0.6	1.5	
Civil engineering	200	100.0	4.0	0.0	13.5	5.0	73.0	1.5	1.0	2.0	
Electrical, electronics, and communications engineering	518	100.0	6.8	0.4	24.5	3.5	59.7	2.1	0.8	2.3	

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Industrial and manufacturing engineering	84	100.0	3.6	0.0	11.9	10.7	69.0	2.4	1.2	1.2	
Materials science engineering	501	100.0	7.8	0.2	15.8	5.0	64.1	3.8	2.4	1.0	
Mechanical engineering	600	100.0	5.8	0.3	12.7	2.7	72.7	2.8	1.7	1.3	
Other engineering	886	100.0	8.7	0.0	14.3	4.5	66.7	2.9	1.1	1.7	
Education	3,848	100.0	8.3	0.7	5.4	16.1	64.6	2.8	0.9	1.4	
Education administration	754	100.0	7.2	1.1	2.7	26.4	59.2	1.7	0.7	1.2	
Education research	1,907	100.0	8.4	0.4	6.0	14.1	65.7	3.4	0.9	1.2	
Teacher education	87	100.0	4.6	0.0	2.3	17.2	73.6	2.3	0.0	0.0	
Teaching fields	772	100.0	7.9	0.4	6.2	11.1	69.7	2.6	0.9	1.2	
Other education	328	100.0	11.6	2.1	6.7	15.5	56.4	3.0	0.9	3.7	
Humanities and arts	3,988	100.0	8.5	0.3	5.1	4.5	75.4	2.6	1.1	2.6	
Foreign languages and literature	383	100.0	23.5	0.3	5.0	2.6	64.0	1.8	1.0	1.8	
History	741	100.0	7.8	0.4	3.8	4.3	78.1	2.6	0.8	2.2	
Letters	1,188	100.0	6.5	0.3	4.0	3.2	79.6	2.4	1.1	2.8	
Other humanities and arts	1,676	100.0	6.7	0.1	6.5	5.9	73.7	3.0	1.3	2.9	
Other <sup>a</sup>	1,720	100.0	6.5	0.4	11.0	14.3	62.2	2.1	1.4	2.2	
Business management and administration	747	100.0	5.6	0.1	16.6	14.2	59.0	1.5	1.3	1.6	
Communication	349	100.0	6.9	0.3	6.0	10.0	69.6	2.0	1.7	3.4	
Non-S&E fields nec	624	100.0	7.2	0.8	7.2	16.8	61.7	2.9	1.3	2.1	

nec = not elsewhere classified; S&amp;E = science and engineering.

<sup>a</sup> Includes other non-S&E fields not shown separately.**Note(s):**

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(s):**

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