

Table 3-4

U.S. citizen and permanent resident research doctorate recipients, by major field of doctorate, ethnicity, and race: 2021

(Number and percent distribution)

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					More than one race	Other race or race not reported	Ethnicity not reported
				American Indian or Alaska Native	Asian	Black or African American	White				
All fields	31,674	100.0	9.0	0.3	9.5	7.7	67.4	3.4	1.2	1.5	
Science and engineering	23,906	100.0	9.1	0.3	10.7	6.1	67.9	3.5	1.2	1.3	
Agricultural sciences and natural resources	695	100.0	6.3	0.6	5.8	4.3	77.4	1.7	1.4	2.4	
Agricultural, animal, plant, and veterinary sciences	440	100.0	5.5	0.0	5.2	3.6	80.7	1.1	1.4	2.5	
Natural resources and conservation	255	100.0	7.8	1.6	6.7	5.5	71.8	2.7	1.6	2.4	
Biological and biomedical sciences	5,876	100.0	9.7	0.2	11.9	4.6	68.1	3.6	0.9	1.0	
Biochemistry, biophysics, and molecular biology	882	100.0	9.3	0.1	11.1	4.5	70.1	3.9	0.8	0.2	
Bioinformatics, biostatistics, and computational biology	296	100.0	7.8	0.3	22.0	3.4	59.1	3.7	2.0	1.7	
Cell/ cellular biology and anatomy	455	100.0	12.5	0.2	13.6	4.0	62.6	5.3	1.1	0.7	
Ecology, evolutionary biology, and epidemiology	793	100.0	7.7	0.0	8.4	5.7	74.5	2.5	0.6	0.5	
Genetics and genomics	291	100.0	9.6	0.0	11.7	3.4	69.1	4.1	1.4	0.7	
Microbiology and immunology	766	100.0	10.8	0.4	9.4	4.7	70.5	3.1	0.3	0.8	
Neurobiology and neurosciences	795	100.0	10.6	0.3	12.7	2.6	68.4	3.3	1.1	1.0	
Pharmacology and toxicology	222	100.0	10.4	0.0	14.4	6.3	61.7	3.6	0.9	2.7	
Physiology, oncology and cancer biology	517	100.0	9.7	0.4	13.2	6.2	65.0	3.1	1.2	1.4	
Biological and biomedical sciences, other	859	100.0	9.3	0.3	11.8	5.0	66.8	4.5	0.7	1.5	
Computer and information sciences	703	100.0	4.6	0.0	19.3	5.1	64.0	3.8	1.6	1.6	
Computer science	480	100.0	4.2	0.0	19.8	4.0	65.8	3.5	1.3	1.5	
Computer and information sciences, other	223	100.0	5.4	0.0	18.4	7.6	60.1	4.5	2.2	1.8	
Engineering	3,785	100.0	8.2	0.2	15.4	4.1	66.4	3.0	1.4	1.2	
Biological, biomedical, and biosystems engineering	732	100.0	9.3	0.1	20.2	2.7	61.1	4.0	1.5	1.1	
Chemical and petroleum engineering	540	100.0	6.1	0.0	14.8	3.9	68.9	4.4	0.6	1.3	
Civil, environmental, and transportation engineering	325	100.0	10.2	0.3	14.2	4.3	65.8	2.2	2.5	0.6	

Table 3-4

U.S. citizen and permanent resident research doctorate recipients, by major field of doctorate, ethnicity, and race: 2021

(Number and percent distribution)

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					More than one race	Other race or race not reported	Ethnicity not reported
				American Indian or Alaska Native	Asian	Black or African American	White				
Electrical and computer engineering	553	100.0	7.2	0.0	17.9	5.8	64.4	1.4	1.4	1.8	
Engineering technologies	132	100.0	6.1	1.5	23.5	6.8	58.3	3.8	0.0	0.0	
Industrial engineering and operations research	203	100.0	8.4	0.5	16.7	5.4	62.1	3.0	2.0	2.0	
Materials and mining engineering	288	100.0	9.4	0.0	14.9	4.2	64.6	3.8	1.7	1.4	
Mechanical engineering	571	100.0	9.1	0.2	10.0	3.5	72.3	1.8	1.6	1.6	
Engineering, other	441	100.0	7.5	0.0	10.0	3.9	73.5	3.4	1.1	0.7	
Geosciences, atmospheric, and ocean sciences	665	100.0	7.2	0.3	4.5	2.0	79.4	5.0	1.1	0.6	
Geological and earth sciences	373	100.0	7.0	0.3	3.8	2.7	79.4	5.1	0.8	1.1	
Ocean/ marine sciences and atmospheric science	292	100.0	7.5	0.3	5.5	1.0	79.5	4.8	1.4	0.0	
Health sciences	1,886	100.0	7.4	0.5	9.7	13.9	63.2	2.9	0.8	1.6	
Nursing and nursing science	510	100.0	7.8	0.6	5.7	11.8	70.8	1.6	0.8	1.0	
Pharmacy and pharmaceutical sciences	196	100.0	7.1	0.5	17.9	7.7	60.2	3.6	1.0	2.0	
Public health	527	100.0	8.5	0.6	12.1	20.9	52.8	3.2	0.8	1.1	
Health sciences, other	653	100.0	6.1	0.3	8.3	11.9	66.6	3.5	0.9	2.3	
Mathematics and statistics	847	100.0	7.7	0.0	11.3	3.3	70.5	3.9	1.5	1.8	
Applied mathematics	228	100.0	6.6	0.0	9.6	6.1	70.6	3.5	2.2	1.3	
Mathematics	428	100.0	8.9	0.0	10.5	1.4	72.9	4.2	0.9	1.2	
Statistics	191	100.0	6.3	0.0	15.2	4.2	64.9	3.7	2.1	3.7	
Multidisciplinary/interdisciplinary sciences	674	100.0	10.1	0.3	10.4	7.6	65.1	4.0	1.3	1.2	
Interdisciplinary computer sciences	175	100.0	9.1	0.6	18.9	3.4	59.4	5.1	2.9	0.6	
Multidisciplinary/interdisciplinary sciences, other	499	100.0	10.4	0.2	7.4	9.0	67.1	3.6	0.8	1.4	
Physical sciences	2,712	100.0	8.0	0.2	9.8	2.8	73.5	3.5	1.0	1.1	
Astronomy and astrophysics	183	100.0	6.6	0.5	6.0	2.2	79.8	3.8	1.1	0.0	
Chemistry	1,390	100.0	8.9	0.3	8.7	4.0	72.2	3.7	0.9	1.2	
Materials sciences	226	100.0	5.3	0.0	17.7	2.2	71.7	2.7	0.4	0.0	
Physics	913	100.0	7.4	0.1	10.3	1.2	74.7	3.4	1.3	1.5	
Psychology	3,070	100.0	11.7	0.3	6.4	7.9	66.2	4.1	1.5	2.0	
Clinical psychology	1,090	100.0	12.7	0.1	6.7	5.6	67.2	4.0	1.7	2.1	

Table 3-4

U.S. citizen and permanent resident research doctorate recipients, by major field of doctorate, ethnicity, and race: 2021

(Number and percent distribution)

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						Other race or race not reported	Ethnicity not reported
				American Indian or Alaska Native	Asian	Black or African American	White	More than one race			
Counseling and applied psychology	1,133	100.0	11.6	0.5	5.7	11.9	63.2	3.7	1.1	2.2	
Research and experimental psychology	530	100.0	9.8	0.2	8.7	2.6	71.9	4.3	2.1	0.4	
Psychology, other	317	100.0	12.3	0.3	3.5	10.4	63.7	5.0	1.6	3.2	
Social sciences	2,993	100.0	10.4	0.5	8.6	9.8	65.2	3.2	1.2	1.1	
Anthropology	294	100.0	11.9	1.0	8.8	2.7	64.6	6.8	2.7	1.4	
Area, ethnic, cultural, gender, and group studies	283	100.0	20.5	1.4	7.4	16.3	46.3	5.3	0.7	2.1	
Economics	467	100.0	8.4	0.0	17.6	3.9	65.3	2.1	1.3	1.5	
Political science and government	405	100.0	5.4	0.2	4.7	5.9	78.0	3.0	1.2	1.5	
Public policy analysis	316	100.0	8.2	0.0	8.2	20.6	59.2	2.8	0.3	0.6	
Sociology, demography, and population studies	469	100.0	11.9	0.4	7.7	12.6	62.9	2.6	1.5	0.4	
Social sciences, other	759	100.0	10.0	0.7	6.1	9.7	69.3	2.5	1.1	0.7	
Non-science and engineering	7,768	100.0	8.9	0.4	6.0	12.5	65.6	3.3	1.2	2.0	
Business	590	100.0	4.7	0.2	13.2	19.0	55.9	3.2	1.0	2.7	
Business administration and management	219	100.0	4.6	0.0	11.0	26.5	49.8	4.6	0.9	2.7	
Business, other	371	100.0	4.9	0.3	14.6	14.6	59.6	2.4	1.1	2.7	
Education	2,962	100.0	9.6	0.7	5.4	17.3	61.1	3.2	0.9	1.9	
Education leadership and administration	937	100.0	9.9	0.9	3.0	24.4	54.9	4.4	0.9	1.7	
Education research	924	100.0	9.2	0.4	6.5	14.4	63.7	2.3	1.4	2.1	
Teacher education	778	100.0	7.1	0.8	6.6	13.2	66.8	3.1	0.5	1.9	
Education, other	323	100.0	15.8	0.9	6.2	14.6	57.9	2.5	0.3	1.9	
Humanities	2,339	100.0	9.6	0.1	4.9	4.7	73.6	3.4	1.6	2.1	
English language and literature, letters	776	100.0	5.9	0.3	4.6	4.9	77.2	3.9	0.9	2.3	
Foreign languages, literatures, and linguistics	305	100.0	23.0	0.3	6.2	3.6	58.7	3.9	2.0	2.3	
History	524	100.0	9.7	0.0	2.9	4.4	76.9	3.2	1.1	1.7	
Philosophy and religious studies	457	100.0	7.7	0.0	5.0	4.6	75.9	2.4	2.4	2.0	
Humanities, other	277	100.0	7.9	0.0	7.6	6.5	69.7	3.6	2.5	2.2	
Visual and performing arts	571	100.0	7.5	0.4	5.8	3.0	77.1	3.9	0.9	1.6	
Performing arts	368	100.0	7.6	0.3	7.1	3.0	76.6	3.3	0.8	1.4	
Visual arts, media studies/ design	203	100.0	7.4	0.5	3.4	3.0	77.8	4.9	1.0	2.0	
Other non-science and engineering	1,306	100.0	8.5	0.5	6.5	16.8	61.0	3.0	1.5	2.1	

Table 3-4**U.S. citizen and permanent resident research doctorate recipients, by major field of doctorate, ethnicity, and race: 2021**

(Number and percent distribution)

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						Other race or race not reported	Ethnicity not reported
				American Indian or Alaska Native	Asian	Black or African American	White	More than one race			
Communications and journalism	358	100.0	6.4	0.3	6.7	11.2	67.6	4.2	0.8	2.8	
Multidisciplinary/interdisciplinary studies	233	100.0	9.4	1.3	4.3	14.2	65.7	1.3	1.7	2.1	
Public administration and social services	357	100.0	9.2	0.8	6.4	30.3	47.6	2.8	1.7	1.1	
Non-science and engineering, other	358	100.0	9.2	0.0	7.8	10.9	64.8	3.1	1.7	2.5	

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 the new broad, major, and detailed fields were used in tables reporting only the most recent data year. Therefore, the field of doctorate data in 2021 may not be comparable to prior years; see the "Technical Notes" for more information, table A-4 for a summary of SED-CIP codes in the new SED field taxonomy, table A-5 for a full list of SED-CIP codes in the new field taxonomy, and table A-6 for the SED-CIP code crosswalk to the historical field taxonomy.

Source(s):

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