

Table 3-4. U.S. citizen and permanent resident research doctorate recipients, by major field of doctorate, ethnicity, and race: 2024

(Percent)

Field of doctorate	All U.S. citizens and permanent residents (number)	Total	U.S. citizens and permanent residents								
			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	36,062	100.0	10.2	0.4	11.0	8.1	63.2	3.8	1.4	1.8	
Science and engineering	27,609	100.0	10.3	0.3	12.5	6.6	63.1	3.9	1.4	1.8	
Agricultural sciences and natural resources	741	100.0	7.8	0.5	6.5	5.3	74.2	1.6	1.5	2.6	
Agricultural, animal, plant, and veterinary sciences	452	100.0	7.5	0.4	6.6	4.2	76.3	1.1	0.9	2.9	
Natural resources and conservation	289	100.0	8.3	0.7	6.2	6.9	70.9	2.4	2.4	2.1	
Biological and biomedical sciences	7,094	100.0	12.2	0.2	13.9	4.6	62.4	4.2	1.4	1.2	
Biochemistry, biophysics, and molecular biology	1,020	100.0	13.7	0.4	18.3	4.4	56.7	4.2	1.3	1.0	
Bioinformatics, biostatistics, and computational biology	383	100.0	5.5	0.0	28.5	4.4	55.1	4.4	1.0	1.0	
Biological and biomedical sciences, general	594	100.0	13.1	0.0	11.6	5.2	63.5	3.9	0.8	1.9	
Cell/ cellular biology and anatomy	555	100.0	14.1	0.0	16.0	3.4	58.6	4.7	0.9	2.3	
Ecology, evolutionary biology, and epidemiology	934	100.0	10.8	0.1	8.1	5.0	69.7	3.7	1.4	1.1	
Genetics and genomics	356	100.0	10.7	0.6	10.4	1.4	71.3	2.2	2.0	1.4	
Microbiology and immunology	870	100.0	12.5	0.5	13.8	4.0	62.8	3.8	1.5	1.1	
Neurobiology and neurosciences	978	100.0	13.0	0.1	13.1	4.8	61.1	5.5	1.6	0.7	
Pharmacology and toxicology	285	100.0	12.3	0.0	13.0	10.5	58.2	4.2	0.7	1.1	
Physiology, oncology, and cancer biology	625	100.0	12.5	0.0	14.1	4.0	62.4	4.8	1.6	0.6	
Biological and biomedical sciences, other	494	100.0	11.9	0.2	9.1	5.7	66.6	3.6	1.6	1.2	
Computer and information sciences	964	100.0	6.6	0.2	22.4	5.9	55.3	4.5	3.0	2.1	
Computer science	655	100.0	6.3	0.0	24.0	4.6	55.0	4.6	3.8	1.8	
Computer and information sciences, other	309	100.0	7.4	0.6	19.1	8.7	56.0	4.2	1.3	2.6	
Engineering	4,657	100.0	8.4	0.2	16.7	4.8	62.3	4.0	1.6	2.1	
Aerospace, aeronautical, astronautical, and space engineering	329	100.0	7.6	0.6	12.8	3.0	68.4	3.3	2.1	2.1	
Biological, biomedical, and biosystems engineering	868	100.0	10.0	0.5	20.0	4.1	57.7	4.1	1.0	2.4	
Chemical and petroleum engineering	613	100.0	7.8	0.0	13.9	4.7	65.6	4.2	1.5	2.3	
Civil, environmental, and transportation engineering	441	100.0	8.2	0.5	14.5	5.7	64.9	2.7	2.0	1.6	
Electrical and computer engineering	600	100.0	5.5	0.0	23.0	5.0	55.3	4.8	2.8	3.5	
Engineering technologies	145	100.0	7.6	0.0	22.1	6.9	53.1	7.6	2.1	0.7	
Industrial engineering and operations research	208	100.0	8.7	0.0	16.3	6.3	62.5	3.4	1.4	1.4	
Materials and mining engineering	419	100.0	9.8	0.0	16.0	3.3	65.4	3.8	0.7	1.0	
Mechanical engineering	687	100.0	9.2	0.0	15.4	4.8	65.2	2.8	1.2	1.5	
Engineering, other	347	100.0	8.1	0.3	11.0	6.6	64.6	5.5	1.7	2.3	
Geosciences, atmospheric, and ocean sciences	814	100.0	9.2	0.1	6.9	2.9	74.3	4.5	0.2	1.7	
Geological and earth sciences	445	100.0	11.0	0.0	8.5	2.9	72.1	4.5	0.2	0.7	
Ocean, marine, and atmospheric sciences	369	100.0	7.0	0.3	4.9	3.0	77.0	4.6	0.3	3.0	

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Health sciences	2,068	100.0	8.5	0.5	9.7	14.7	60.1	2.9	1.8	1.9		
Nursing and nursing science	474	100.0	5.5	0.2	5.7	16.0	67.9	2.1	1.3	1.3		
Pharmacy and pharmaceutical sciences	230	100.0	8.7	0.4	23.0	10.0	50.9	3.9	1.7	1.3		
Public health	607	100.0	10.0	1.0	10.5	19.1	50.9	4.0	3.0	1.5		
Health sciences, other	757	100.0	9.0	0.4	7.4	11.6	65.4	2.1	1.3	2.8		
Mathematics and statistics	924	100.0	6.8	0.2	14.8	3.5	67.3	3.6	1.8	1.9		
Applied mathematics	213	100.0	9.4	0.0	11.3	7.0	64.3	4.7	0.9	2.3		
Mathematics	514	100.0	6.6	0.2	12.3	1.8	72.0	3.5	1.8	1.9		
Statistics	197	100.0	4.6	0.5	25.4	4.1	58.4	2.5	3.0	1.5		
Multidisciplinary/ interdisciplinary sciences	817	100.0	9.9	0.5	14.3	6.6	61.7	3.8	1.5	1.7		
Interdisciplinary computer sciences	218	100.0	9.2	0.0	21.1	6.4	58.7	2.8	0.9	0.9		
Multidisciplinary/ interdisciplinary sciences, other	599	100.0	10.2	0.7	11.9	6.7	62.8	4.2	1.7	2.0		
Physical sciences	3,089	100.0	10.4	0.1	12.2	3.2	67.6	3.8	1.0	1.6		
Astronomy and astrophysics	225	100.0	11.6	0.0	9.8	2.2	70.2	4.0	0.9	1.3		
Chemistry	1,635	100.0	11.3	0.2	11.9	4.1	66.5	3.9	0.9	1.3		
Materials sciences	183	100.0	12.0	0.0	15.3	2.7	66.7	2.2	1.1	0.0		
Physics	1,046	100.0	8.4	0.1	12.7	2.2	69.0	3.8	1.2	2.5		
Psychology	3,344	100.0	12.7	0.4	7.3	10.6	61.2	4.3	1.1	2.4		
Clinical psychology	1,035	100.0	13.8	0.3	6.7	6.7	63.2	4.7	1.3	3.4		
Counseling and applied psychology	1,272	100.0	12.2	0.5	7.8	15.3	57.9	3.5	1.2	1.7		
Research and experimental psychology	668	100.0	12.0	0.3	7.5	7.3	65.9	4.9	1.2	0.9		
Psychology, other	369	100.0	13.0	0.8	6.8	11.7	58.3	4.6	0.3	4.6		
Social sciences	3,097	100.0	10.9	0.6	9.3	9.9	61.9	4.0	1.5	1.8		
Anthropology	301	100.0	13.0	1.3	8.3	5.0	62.8	6.0	1.3	2.3		
Area, ethnic, cultural, gender, and group studies	316	100.0	18.4	3.2	9.8	15.8	44.6	4.1	0.6	3.5		
Economics	470	100.0	7.9	0.2	16.2	4.0	63.8	3.6	1.7	2.6		
Political science and government	433	100.0	5.8	0.0	8.1	7.2	71.4	3.7	2.5	1.4		
Public policy analysis	336	100.0	6.8	0.3	9.5	20.2	56.3	3.9	1.8	1.2		
Sociology, demography, and population studies	481	100.0	13.7	0.2	5.6	13.5	60.5	4.2	1.0	1.2		
Social sciences, other	760	100.0	12.0	0.3	8.3	7.9	65.5	3.7	1.2	1.2		
Non-science and engineering	8,453	100.0	9.8	0.5	6.3	13.1	63.4	3.5	1.5	1.9		
Business	641	100.0	7.2	0.3	16.7	14.7	53.4	2.0	3.3	2.5		
Business administration and management	220	100.0	7.3	0.0	11.8	20.0	50.9	2.3	3.6	4.1		
Business, other	421	100.0	7.1	0.5	19.2	11.9	54.6	1.9	3.1	1.7		
Education	3,218	100.0	10.6	0.8	5.2	18.2	59.7	3.0	1.0	1.6		

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Education leadership and administration	1,049	100.0	12.1	0.8	3.9	25.1	52.7	3.1	0.8	1.6	
Education research	963	100.0	8.9	0.6	5.8	17.8	60.3	3.5	1.1	1.9	
Teacher education and teaching fields	858	100.0	10.7	0.8	5.4	10.3	68.2	2.8	0.9	0.9	
Education, other	348	100.0	10.6	1.1	6.6	18.4	57.8	2.3	1.1	2.0	
Humanities	2,450	100.0	10.4	0.3	4.7	5.5	71.9	3.4	1.4	2.3	
English language and literature, letters	837	100.0	9.6	0.4	3.5	6.2	73.6	3.8	1.0	2.0	
Foreign languages, literatures, and linguistics	296	100.0	21.3	0.3	6.8	3.4	62.2	2.4	1.0	2.7	
History	586	100.0	8.2	0.7	3.1	5.3	75.6	3.2	1.5	2.4	
Philosophy and religious studies	457	100.0	8.5	0.0	5.7	3.5	74.0	3.7	2.2	2.4	
Humanities, other	274	100.0	9.5	0.0	8.0	9.5	66.1	3.3	1.5	2.2	
Visual and performing arts	651	100.0	8.0	0.9	6.3	4.1	71.3	4.6	2.5	2.3	
Performing arts	384	100.0	7.3	0.8	6.0	4.9	70.8	4.7	2.6	2.9	
Visual arts, media studies, and design	267	100.0	9.0	1.1	6.7	3.0	71.9	4.5	2.2	1.5	
Other non-science and engineering	1,493	100.0	8.7	0.3	6.9	18.0	58.5	4.5	1.4	1.7	
Communication and journalism	431	100.0	9.5	0.0	8.6	10.2	64.3	4.2	1.4	1.9	
Multidisciplinary/ interdisciplinary studies	281	100.0	6.8	0.4	4.6	11.4	68.0	5.7	1.1	2.1	
Public administration and social services	395	100.0	9.1	1.0	4.8	35.4	42.5	4.3	1.8	1.0	
Non-science and engineering, other	386	100.0	8.8	0.0	8.8	13.7	61.4	4.1	1.3	1.8	

**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 new broad, major, and detailed fields are used in tables reporting data from 2021 to the present; see the field list in table A-4. Therefore, the field of doctorate data prior to 2021 may not be comparable to subsequent years. For more information about the 2021 taxonomy change, see the "Technical Notes."

**Source(s):**

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