

TABLE 3-3

Research doctorate recipients, by detailed field of doctorate, citizenship status, ethnicity, and race: 2023

(Number)

Field of doctorate	All doctorate recipients ^a	Temporary visa holders	U.S. citizens and permanent residents									Ethnicity not reported
			Total	Hispanic or Latino	Not Hispanic or Latino							
					American Indian or Alaska Native	Asian	Black or African American	White	More than one race	Other race or race not reported		
All fields	57,862	19,393	35,566	3,449	115	3,828	2,725	23,057	1,296	459	637	
Science and engineering	45,973	16,807	27,010	2,593	68	3,248	1,658	17,585	1,060	344	454	
Agricultural sciences and natural resources	1,278	454	778	63	2	46	34	578	27	9	19	
Agricultural, animal, plant, and veterinary sciences	856	335	497	32	0	32	25	372	16	7	13	
Agronomy and crop science	76	36	38	1	0	2	0	34	0	1	0	
Animal sciences	173	59	109	9	0	3	4	86	0	3	4	
Food science and technology	178	105	65	2	0	8	7	43	3	0	2	
Plant sciences	149	57	90	9	0	8	2	63	4	1	3	
Soil sciences	86	18	65	3	0	4	5	48	3	1	1	
Veterinary biomedical and clinical sciences	93	28	61	2	0	2	2	54	1	0	0	
Agricultural, animal, plant, and veterinary sciences nec	101	32	69	6	0	5	5	44	5	1	3	
Natural resources and conservation	422	119	281	31	2	14	9	206	11	2	6	
Environmental science	132	48	79	13	0	3	4	54	2	1	2	
Environmental/ natural resources management and policy	63	20	40	5	2	4	1	26	2	0	0	
Forestry	69	28	40	2	0	3	3	28	2	0	2	
Natural resources conservation and research	81	17	52	4	0	3	1	41	2	0	1	
Natural resources and conservation nec	77	6	70	7	0	1	0	57	3	1	1	
Biological and biomedical sciences	9,724	2,352	7,004	718	11	908	342	4,549	328	74	74	
Biochemistry, biophysics, and molecular biology	1,509	426	1,031	117	0	139	39	661	53	10	12	
Biochemistry	440	118	307	27	0	39	6	207	19	2	7	
Biochemistry and molecular biology	311	93	203	25	0	31	15	119	12	0	1	
Biophysics	254	82	163	14	0	19	4	120	3	2	1	
Molecular biology	268	61	202	25	0	24	5	133	9	3	3	
Biochemistry, biophysics, and molecular biology nec	236	72	156	26	0	26	9	82	10	3	0	
Bioinformatics, biostatistics, and computational biology	735	301	411	21	0	102	19	245	16	7	1	
Bioinformatics	181	71	105	7	0	27	5	60	3	3	0	
Biostatistics	283	137	132	6	0	35	4	80	6	1	0	
Computational biology	151	43	104	4	0	25	2	65	5	3	0	
Bioinformatics, biostatistics, and computational biology nec	120	50	70	4	0	15	8	40	2	0	1	
Biological and biomedical sciences, general	907	216	623	72	0	56	42	417	21	6	9	
Biology/ biological sciences, general	522	132	349	35	0	35	23	239	7	3	7	
Biomedical sciences, general	385	84	274	37	0	21	19	178	14	3	2	
Cell/ cellular biology and anatomy	761	182	546	74	0	79	22	343	22	4	2	
Cell/ cellular and molecular biology	583	140	430	59	0	64	22	265	18	1	1	

TABLE 3-3

Research doctorate recipients, by detailed field of doctorate, citizenship status, ethnicity, and race: 2023

(Number)

Field of doctorate	All doctorate recipients ^a	Temporary visa holders	U.S. citizens and permanent residents									Ethnicity not reported
			Total	Hispanic or Latino	Not Hispanic or Latino					Other race or race not reported		
					American Indian or Alaska Native	Asian	Black or African American	White	More than one race			
Developmental biology and embryology	96	26	69	10	0	12	0	43	2	2	0	
Cell/ cellular biology and anatomy nec	82	16	47	5	0	3	0	35	2	1	1	
Ecology, evolutionary biology, and epidemiology	1,144	214	907	68	2	85	48	635	46	13	10	
Ecology	246	30	209	13	0	7	3	162	11	6	7	
Ecology and evolutionary biology	277	50	226	23	1	8	5	171	15	2	1	
Epidemiology	382	83	290	18	1	57	31	164	14	3	2	
Epidemiology and biostatistics	39	8	30	3	0	6	5	15	1	0	0	
Evolutionary biology	84	22	61	9	0	4	1	44	1	2	0	
Ecology, evolutionary biology, and epidemiology nec	116	21	91	2	0	3	3	79	4	0	0	
Genetics and genomics	477	100	359	33	2	51	13	241	15	0	4	
Genetics, general	128	23	96	6	0	13	6	62	7	0	2	
Genome sciences and genomics	116	25	89	9	0	16	2	58	3	0	1	
Human/ medical genetics	71	11	60	8	1	9	0	39	3	0	0	
Molecular genetics	77	14	58	7	0	6	1	43	1	0	0	
Genetics and genomics nec	85	27	56	3	1	7	4	39	1	0	1	
Microbiology and immunology	1,092	214	845	94	2	108	48	533	42	12	6	
Immunology	342	72	263	24	0	49	11	156	14	6	3	
Microbiology and immunology	271	51	212	20	2	29	15	134	8	2	2	
Microbiology, general	275	53	212	27	0	16	15	139	12	2	1	
Virology	111	20	88	12	0	11	4	57	3	1	0	
Microbiology and immunology nec	93	18	70	11	0	3	3	47	5	1	0	
Neurobiology and neurosciences	1,200	218	947	112	3	113	45	599	52	10	13	
Cognitive neuroscience	114	23	90	9	0	9	2	67	1	1	1	
Neurobiology	68	8	60	8	0	7	2	35	3	1	4	
Neuroscience	877	143	705	86	2	84	38	436	43	8	8	
Neurobiology and neurosciences nec	141	44	92	9	1	13	3	61	5	0	0	
Pharmacology and toxicology	409	93	295	27	0	46	27	173	16	3	3	
Pharmacology	186	43	133	8	0	27	10	80	4	2	2	
Toxicology	95	27	62	10	0	6	7	33	4	1	1	
Pharmacology and toxicology nec	128	23	100	9	0	13	10	60	8	0	0	
Physiology, oncology, and cancer biology	821	198	580	53	2	83	26	376	29	2	9	
Biomechanics	85	27	58	7	1	5	0	41	3	1	0	
Exercise physiology and kinesiology	103	10	91	3	0	1	3	75	5	0	4	
Oncology and cancer biology	336	90	231	31	1	52	11	120	11	1	4	

TABLE 3-3

Research doctorate recipients, by detailed field of doctorate, citizenship status, ethnicity, and race: 2023

(Number)

Field of doctorate	All doctorate recipients ^a	Temporary visa holders	U.S. citizens and permanent residents									Ethnicity not reported
			Total	Hispanic or Latino	Not Hispanic or Latino							
					American Indian or Alaska Native	Asian	Black or African American	White	More than one race	Other race or race not reported		
Physiology, general	78	16	56	5	0	5	3	42	1	0	0	
Physiology, oncology, and cancer biology nec	219	55	144	7	0	20	9	98	9	0	1	
Biological and biomedical sciences, other	669	190	460	47	0	46	13	326	16	7	5	
Botany and plant biology	59	22	35	4	0	3	1	26	1	0	0	
Entomology	124	30	91	8	0	3	1	73	2	1	3	
Plant pathology and phytopathology	105	48	53	6	0	3	0	43	1	0	0	
Plant physiology and biology nec	67	15	52	6	0	7	3	33	2	1	0	
Zoology and animal biology	88	10	78	8	0	2	0	61	4	1	2	
Biological and biomedical sciences nec	226	65	151	15	0	28	8	90	6	4	0	
Computer and information sciences	2,297	1,337	820	47	1	190	44	475	21	19	23	
Computer science	1,605	962	554	33	1	129	19	333	13	14	12	
Computer science	1,605	962	554	33	1	129	19	333	13	14	12	
Computer and information sciences, other	692	375	266	14	0	61	25	142	8	5	11	
Artificial intelligence	211	136	68	1	0	20	3	40	1	1	2	
Computer and information sciences, general	108	71	26	1	0	6	1	13	1	1	3	
Computer systems networking and telecommunications	91	54	30	2	0	4	4	17	0	1	2	
Informatics and information technology	105	46	53	5	0	11	8	26	1	0	2	
Information sciences/ studies	119	40	63	4	0	15	8	29	3	2	2	
Computer and information sciences nec	58	28	26	1	0	5	1	17	2	0	0	
Engineering	10,724	5,646	4,542	401	6	732	210	2,875	175	60	83	
Aerospace, aeronautical, astronautical, and space engineering	584	226	322	28	1	34	12	222	12	7	6	
Aerospace, aeronautical, astronautical, and space engineering, general	235	85	131	8	0	12	5	92	6	3	5	
Mechanical and aerospace engineering	207	96	110	12	0	14	6	72	2	3	1	
Aerospace, aeronautical, astronautical, and space engineering nec	142	45	81	8	1	8	1	58	4	1	0	
Biological, biomedical, and biosystems engineering	1,313	392	860	79	2	178	27	504	48	6	16	
Bioengineering and biomedical engineering	1,222	353	810	74	2	170	27	471	45	6	15	
Biological/ biosystems engineering and biomedical technology	91	39	50	5	0	8	0	33	3	0	1	
Chemical and petroleum engineering	1,245	594	600	40	0	96	26	396	27	5	10	
Chemical and biomolecular engineering	211	87	121	10	0	18	5	79	6	1	2	
Chemical engineering	862	395	425	25	0	68	17	288	17	3	7	
Petroleum engineering	103	77	22	1	0	4	3	12	1	1	0	
Chemical and petroleum engineering nec	69	35	32	4	0	6	1	17	3	0	1	
Civil, environmental, and transportation engineering	1,279	769	444	55	1	58	25	279	14	3	9	
Civil engineering	342	214	94	8	1	12	7	57	1	2	6	

TABLE 3-3

Research doctorate recipients, by detailed field of doctorate, citizenship status, ethnicity, and race: 2023

(Number)

Field of doctorate	All doctorate recipients ^a	Temporary visa holders	U.S. citizens and permanent residents								Ethnicity not reported
			Total	Hispanic or Latino	Not Hispanic or Latino						
					American Indian or Alaska Native	Asian	Black or African American	White	More than one race	Other race or race not reported	
Civil and environmental engineering	505	270	215	29	0	26	9	139	10	1	1
Environmental/ environmental health engineering	58	28	25	4	0	4	2	14	0	0	1
Geotechnical and geoenvironmental engineering	82	57	24	1	0	1	1	21	0	0	0
Structural engineering	133	90	43	10	0	8	0	24	1	0	0
Transportation and highway engineering	81	62	18	3	0	5	1	9	0	0	0
Civil, environmental, and transportation engineering nec	78	48	25	0	0	2	5	15	2	0	1
Electrical and computer engineering	2,119	1,423	586	43	0	120	26	358	15	14	10
Computer engineering	256	184	62	3	0	13	3	40	2	0	1
Electrical and computer engineering	1,359	915	400	33	0	84	20	240	12	7	4
Electrical and electronics engineering	436	279	102	6	0	22	3	59	1	6	5
Electrical and computer engineering nec	68	45	22	1	0	1	0	19	0	1	0
Engineering technologies	402	272	123	11	0	26	7	70	6	2	1
Electrical and electronic engineering technologies	71	57	12	0	0	3	1	7	1	0	0
Electromechanical technologies	90	48	41	2	0	8	2	27	0	1	1
Environmental control technologies	70	50	19	2	0	7	1	8	1	0	0
Engineering technologies nec	171	117	51	7	0	8	3	28	4	1	0
Industrial engineering and operations research	627	363	233	14	0	38	14	154	2	3	8
Industrial engineering	174	115	48	2	0	9	3	31	0	2	1
Industrial and systems engineering	134	81	53	4	0	5	4	35	1	0	4
Operations research	186	117	58	3	0	13	2	38	1	0	1
Systems and manufacturing engineering	133	50	74	5	0	11	5	50	0	1	2
Materials and mining engineering	912	447	417	37	0	58	21	274	18	3	6
Materials engineering	102	59	41	3	0	3	2	27	1	2	3
Materials science and engineering	762	364	356	33	0	53	18	234	15	1	2
Materials and mining engineering nec	48	24	20	1	0	2	1	13	2	0	1
Mechanical engineering	1,552	840	634	68	1	82	29	412	24	10	8
Mechanical engineering, general	1,472	801	596	65	1	77	27	387	23	9	7
Mechanical engineering nec	80	39	38	3	0	5	2	25	1	1	1
Engineering, other	691	320	323	26	1	42	23	206	9	7	9
Engineering mechanics, physics, and science	105	63	38	3	0	7	1	26	1	0	0
Nanotechnology	47	29	17	0	0	7	0	9	1	0	0
Nuclear engineering	162	46	111	10	0	9	2	76	5	4	5
Engineering nec	377	182	157	13	1	19	20	95	2	3	4
Geosciences, atmospheric, and ocean sciences	1,216	389	773	58	4	57	15	597	29	5	8

TABLE 3-3

Research doctorate recipients, by detailed field of doctorate, citizenship status, ethnicity, and race: 2023

(Number)

Field of doctorate	All doctorate recipients ^a	Temporary visa holders	U.S. citizens and permanent residents									Ethnicity not reported
			Total	Hispanic or Latino	Not Hispanic or Latino							
					American Indian or Alaska Native	Asian	Black or African American	White	More than one race	Other race or race not reported		
Geological and earth sciences	682	235	412	35	2	33	10	317	10	2	3	
Geochemistry	47	11	36	5	0	3	0	26	2	0	0	
Geology	91	21	66	4	2	4	2	52	1	0	1	
Geology/ earth science, general	142	51	71	3	0	6	2	55	2	1	2	
Geophysics and seismology	105	57	42	4	0	5	3	29	1	0	0	
Hydrology and water resources science	96	37	58	7	0	5	1	45	0	0	0	
Geological and earth sciences nec	201	58	139	12	0	10	2	110	4	1	0	
Ocean, marine, and atmospheric sciences	534	154	361	23	2	24	5	280	19	3	5	
Atmospheric sciences and meteorology, general	111	55	53	1	0	2	1	45	2	0	2	
Atmospheric sciences and meteorology nec	123	22	98	3	1	5	2	82	2	1	2	
Climatology, atmospheric chemistry/ physics	67	18	46	6	1	7	0	30	2	0	0	
Marine biology and biological oceanography	92	14	76	5	0	6	1	58	6	0	0	
Marine sciences	66	17	43	5	0	1	1	32	4	0	0	
Oceanography, chemical/ physical	75	28	45	3	0	3	0	33	3	2	1	
Health sciences	2,746	623	1,953	162	9	199	240	1,199	60	25	59	
Nursing and nursing science	638	79	517	22	4	37	76	348	12	4	14	
Nursing education	84	3	79	2	1	1	8	64	2	1	0	
Nursing science	396	46	336	17	2	30	51	223	7	2	4	
Nursing specialties and practice	158	30	102	3	1	6	17	61	3	1	10	
Pharmacy and pharmaceutical sciences	442	211	204	23	0	28	11	130	7	2	3	
Medicinal and pharmaceutical chemistry	74	26	47	2	0	8	0	37	0	0	0	
Pharmaceutical sciences	262	132	119	15	0	14	8	71	7	2	2	
Pharmacy, pharmaceutical sciences, and administration nec	106	53	38	6	0	6	3	22	0	0	1	
Public health	766	165	578	60	3	75	106	289	23	12	10	
Environmental health	70	18	50	7	0	6	2	32	0	2	1	
Health services research	105	28	73	6	0	10	11	41	4	0	1	
Health/ medical physics	72	24	45	8	0	7	1	27	1	1	0	
Public health education and promotion	112	17	93	4	0	10	27	42	7	1	2	
Public health, general	203	47	149	19	0	23	33	59	4	7	4	
Public health nec	204	31	168	16	3	19	32	88	7	1	2	
Health sciences, other	900	168	654	57	2	59	47	432	18	7	32	
Communication disorders sciences	109	18	79	10	0	4	4	56	2	0	3	
Exercise science and kinesiology	90	25	57	4	0	1	2	44	2	2	2	
Health sciences, general	61	7	47	3	0	2	5	35	1	0	1	

TABLE 3-3

Research doctorate recipients, by detailed field of doctorate, citizenship status, ethnicity, and race: 2023

(Number)

Field of doctorate	All doctorate recipients ^a	Temporary visa holders	U.S. citizens and permanent residents								Ethnicity not reported
			Total	Hispanic or Latino	Not Hispanic or Latino						
					American Indian or Alaska Native	Asian	Black or African American	White	More than one race	Other race or race not reported	
Marriage and family therapy/ counseling	54	2	45	7	1	1	3	26	1	1	5
Medical clinical sciences	67	11	51	4	0	9	2	27	1	1	7
Medical, biomedical, and health informatics	59	18	37	3	0	12	1	19	1	0	1
Mental health, counseling, and therapy services and sciences	100	2	82	8	0	4	13	48	5	1	3
Rehabilitation and therapeutic sciences	159	32	126	10	0	8	5	93	4	2	4
Health sciences nec	201	53	130	8	1	18	12	84	1	0	6
Mathematics and statistics	2,056	1,049	929	64	0	135	22	648	41	11	8
Applied mathematics	490	239	240	21	0	39	9	157	11	1	2
Applied mathematics, general	267	126	135	12	0	24	3	88	6	0	2
Computational and applied mathematics	165	84	78	5	0	9	4	57	3	0	0
Applied mathematics nec	58	29	27	4	0	6	2	12	2	1	0
Mathematics	890	351	495	31	0	51	6	373	22	8	4
Algebra and number theory	71	26	43	6	0	6	1	27	2	0	1
Mathematics, general	687	280	370	18	0	38	2	285	18	6	3
Mathematics nec	132	45	82	7	0	7	3	61	2	2	0
Statistics	676	459	194	12	0	45	7	118	8	2	2
Applied statistics, general	58	44	12	2	0	4	1	3	2	0	0
Mathematics and statistics	70	43	25	2	0	3	1	15	2	1	1
Statistics	484	323	143	7	0	36	3	92	3	1	1
Statistics nec	64	49	14	1	0	2	2	8	1	0	0
Multidisciplinary/ interdisciplinary sciences	1,704	813	826	75	2	110	62	526	24	8	19
Interdisciplinary computer sciences	583	332	230	17	0	49	11	140	9	2	2
Computer science and engineering	188	125	52	2	0	13	3	31	2	0	1
Electrical engineering and computer science	250	136	108	11	0	19	6	66	4	2	0
Interdisciplinary computer sciences nec	145	71	70	4	0	17	2	43	3	0	1
Multidisciplinary/ interdisciplinary sciences, other	1,121	481	596	58	2	61	51	386	15	6	17
Behavioral and cognitive sciences	117	32	82	9	0	5	5	58	2	1	2
Computational science and engineering	132	71	51	2	0	5	9	33	1	1	0
Data mining and machine learning	234	165	65	1	0	16	1	39	4	2	2
Data science and data analytics	86	46	36	4	0	6	5	18	1	0	2
History/ philosophy of science, technology, and society	68	15	52	7	1	5	3	33	1	0	2
Nanoscience/ nanoscale science	33	17	16	1	0	2	2	10	1	0	0
Nutrition sciences	128	32	92	9	1	10	5	63	3	1	0
Multidisciplinary/ interdisciplinary sciences nec	323	103	202	25	0	12	21	132	2	1	9

TABLE 3-3

Research doctorate recipients, by detailed field of doctorate, citizenship status, ethnicity, and race: 2023

(Number)

Field of doctorate	All doctorate recipients ^a	Temporary visa holders	U.S. citizens and permanent residents									Ethnicity not reported
			Total	Hispanic or Latino	Not Hispanic or Latino							
					American Indian or Alaska Native	Asian	Black or African American	White	More than one race	Other race or race not reported		
Physical sciences	5,443	2,093	3,142	296	6	343	99	2,183	111	48	56	
Astronomy and astrophysics	323	98	215	23	0	19	4	153	11	2	3	
Astronomy	107	26	78	6	0	8	0	60	3	0	1	
Astrophysics	133	39	88	11	0	5	2	63	4	2	1	
Astronomy and astrophysics nec	83	33	49	6	0	6	2	30	4	0	1	
Chemistry	2,731	928	1,711	174	6	171	62	1,177	56	29	36	
Analytical chemistry	344	116	225	29	1	20	13	157	4	0	1	
Chemical biology	191	37	154	21	0	21	5	97	7	2	1	
Chemistry, general	611	203	339	30	3	28	12	218	7	14	27	
Inorganic chemistry	266	80	183	19	0	14	6	133	10	1	0	
Organic chemistry	566	205	355	29	0	42	13	251	13	6	1	
Physical chemistry	294	110	182	17	0	19	2	136	7	0	1	
Polymer chemistry	81	27	52	6	0	5	1	39	1	0	0	
Theoretical and computational chemistry	202	93	103	9	0	17	5	65	2	5	0	
Chemistry nec	176	57	118	14	2	5	5	81	5	1	5	
Materials sciences	389	191	192	13	0	25	7	135	8	4	0	
Materials science	188	96	88	7	0	10	3	64	2	2	0	
Materials chemistry and materials sciences nec	201	95	104	6	0	15	4	71	6	2	0	
Physics	2,000	876	1,024	86	0	128	26	718	36	13	17	
Applied physics	124	51	62	5	0	8	3	42	2	2	0	
Atomic/ molecular physics	103	38	64	6	0	6	1	44	6	0	1	
Condensed matter and materials physics	365	191	169	11	0	35	9	105	7	1	1	
Elementary particle physics	164	75	86	2	0	9	0	72	2	0	1	
Nuclear physics	91	32	58	5	0	5	0	46	0	1	1	
Optics/ optical sciences	135	82	48	2	0	6	1	36	1	0	2	
Physics and astronomy	280	110	162	15	0	14	2	122	6	2	1	
Physics, general	430	176	199	20	0	24	2	134	4	6	9	
Plasma and high-temperature physics	67	16	51	6	0	8	2	30	4	1	0	
Theoretical and mathematical physics	117	47	69	8	0	9	0	48	3	0	1	
Physics and physical sciences nec	124	58	56	6	0	4	6	39	1	0	0	
Psychology	3,793	335	3,178	380	12	237	298	2,005	141	39	66	
Clinical psychology	1,203	41	1,078	128	6	90	69	703	50	10	22	
Clinical child psychology	53	1	51	8	0	5	3	34	1	0	0	
Clinical psychology	1,150	40	1,027	120	6	85	66	669	49	10	22	

TABLE 3-3

Research doctorate recipients, by detailed field of doctorate, citizenship status, ethnicity, and race: 2023

(Number)

Field of doctorate	All doctorate recipients ^a	Temporary visa holders	U.S. citizens and permanent residents									Ethnicity not reported
			Total	Hispanic or Latino	Not Hispanic or Latino					Other race or race not reported		
					American Indian or Alaska Native	Asian	Black or African American	White	More than one race			
Counseling and applied psychology	1,293	121	1,099	141	3	66	155	654	47	16	17	
Applied behavior analysis	49	6	42	9	0	4	0	25	2	0	2	
Counseling psychology	366	28	316	45	1	17	51	173	16	9	4	
Educational psychology	247	43	189	17	1	13	30	119	2	1	6	
Industrial and organizational psychology	171	19	141	25	0	7	15	85	8	1	0	
School psychology	223	12	201	20	0	15	26	128	8	3	1	
Counseling and applied psychology nec	237	13	210	25	1	10	33	124	11	2	4	
Research and experimental psychology	803	126	655	64	2	60	36	447	26	9	11	
Behavioral neuroscience	82	5	67	8	0	3	3	52	1	0	0	
Cognitive psychology and psycholinguistics	111	19	92	6	0	13	2	63	5	1	2	
Developmental and child psychology	103	18	84	13	0	6	3	55	3	3	1	
Experimental psychology	111	20	89	7	0	6	2	74	0	0	0	
Social psychology	189	25	162	17	0	16	12	105	9	2	1	
Research and experimental psychology nec	207	39	161	13	2	16	14	98	8	3	7	
Psychology, other	494	47	346	47	1	21	38	201	18	4	16	
Human development	155	25	115	11	0	6	11	76	6	0	5	
Psychology, general	283	20	179	24	1	12	24	96	8	3	11	
Psychology nec	56	2	52	12	0	3	3	29	4	1	0	
Social sciences	4,992	1,716	3,065	329	15	291	292	1,950	103	46	39	
Anthropology	379	66	296	39	4	21	9	205	7	8	3	
Anthropology, general	99	9	75	8	1	4	0	50	4	5	3	
Cultural anthropology	161	43	116	17	1	12	7	76	1	2	0	
Physical and biological anthropology	69	8	61	6	1	4	0	48	1	1	0	
Anthropology nec	50	6	44	8	1	1	2	31	1	0	0	
Area, ethnic, cultural, gender, and group studies	452	108	316	59	8	32	47	152	7	7	4	
Area studies	266	81	168	21	0	15	12	112	2	3	3	
Ethnic studies	103	12	84	28	5	9	28	8	3	2	1	
Area, ethnic, cultural, gender, and group studies nec	83	15	64	10	3	8	7	32	2	2	0	
Economics	1,393	841	489	45	0	72	17	330	14	8	3	
Agricultural economics	90	63	26	2	0	2	2	19	1	0	0	
Applied economics	130	72	57	7	0	10	4	35	1	0	0	
Development economics and international development	41	24	17	1	0	3	3	10	0	0	0	
Econometrics and quantitative economics	202	171	28	2	0	5	1	17	1	2	0	
Economics, general	815	452	308	28	0	48	6	209	9	6	2	

TABLE 3-3

Research doctorate recipients, by detailed field of doctorate, citizenship status, ethnicity, and race: 2023

(Number)

Field of doctorate	All doctorate recipients ^a	Temporary visa holders	U.S. citizens and permanent residents									Ethnicity not reported
			Total	Hispanic or Latino	Not Hispanic or Latino					Other race or race not reported		
					American Indian or Alaska Native	Asian	Black or African American	White	More than one race			
Environmental/ natural resource economics	62	30	30	2	0	2	0	24	1	0	1	
Economics nec	53	29	23	3	0	2	1	16	1	0	0	
Political science and government	665	196	438	42	0	39	30	298	12	6	11	
Political science and government, general	556	170	356	34	0	36	16	247	11	3	9	
Political science and government nec	109	26	82	8	0	3	14	51	1	3	2	
Public policy analysis	407	77	315	29	0	25	77	164	14	4	2	
Education policy analysis	111	16	94	10	0	4	16	54	7	2	1	
Health policy analysis	45	8	36	2	0	5	3	23	2	0	1	
Public policy analysis, general	113	31	76	6	0	9	15	44	2	0	0	
Public policy nec	138	22	109	11	0	7	43	43	3	2	0	
Sociology, demography, and population studies	627	113	494	58	0	35	58	320	16	2	5	
Sociology, general	556	101	436	51	0	30	47	288	14	1	5	
Sociology, demography, and population studies nec	71	12	58	7	0	5	11	32	2	1	0	
Social sciences, other	1,069	315	717	57	3	67	54	481	33	11	11	
Applied linguistics	70	34	32	1	0	7	1	22	0	1	0	
Archeology	91	19	72	5	1	2	0	59	4	1	0	
Criminology	135	16	115	12	0	9	15	69	9	0	1	
Geography and cartography	213	71	132	7	2	13	11	91	4	3	1	
International relations and national security studies	115	36	74	6	0	7	4	52	2	1	2	
Linguistics	194	76	107	7	0	8	1	84	3	1	3	
Social sciences nec	251	63	185	19	0	21	22	104	11	4	4	
Non-science and engineering	11,889	2,586	8,556	856	47	580	1,067	5,472	236	115	183	
Business	1,510	742	663	38	2	122	65	392	15	12	17	
Business administration and management	493	208	223	13	1	37	34	121	4	6	7	
Business management and administration	312	129	136	5	1	24	16	76	2	5	7	
Organizational leadership	68	8	49	8	0	3	12	23	2	1	0	
Business administration and management nec	113	71	38	0	0	10	6	22	0	0	0	
Business, other	1,017	534	440	25	1	85	31	271	11	6	10	
Accounting and accounting-related	163	77	81	0	0	18	3	55	1	1	3	
Finance and financial management	219	132	78	5	0	22	2	46	2	0	1	
Management information systems	82	56	24	1	0	9	2	12	0	0	0	
Management sciences	88	46	41	3	0	8	2	22	3	1	2	
Marketing	145	85	52	2	0	12	2	33	2	0	1	
Organizational behavior studies	100	32	66	6	0	4	7	46	0	3	0	

TABLE 3-3

Research doctorate recipients, by detailed field of doctorate, citizenship status, ethnicity, and race: 2023

(Number)

Field of doctorate	All doctorate recipients ^a	Temporary visa holders	U.S. citizens and permanent residents								Ethnicity not reported
			Total	Hispanic or Latino	Not Hispanic or Latino						
					American Indian or Alaska Native	Asian	Black or African American	White	More than one race	Other race or race not reported	
Business nec	220	106	98	8	1	12	13	57	3	1	3
Education	3,988	461	3,291	356	25	180	594	1,967	76	26	67
Education leadership and administration	1,179	78	1,051	118	6	47	271	553	25	9	22
Educational leadership and administration, general	501	31	444	45	0	17	112	251	7	3	9
Higher education and community college administration	452	28	412	50	6	22	101	205	14	4	10
Education leadership and administration nec	226	19	195	23	0	8	58	97	4	2	3
Education research	1,253	188	985	92	6	59	162	619	22	9	16
Curriculum and instruction	413	60	330	32	2	12	43	224	3	6	8
Educational assessment, evaluation, and research methods	203	46	143	16	2	12	12	97	3	1	0
Educational/ instructional technology and media design	199	48	137	9	0	16	23	82	4	2	1
Higher education evaluation and research	62	4	56	7	1	3	14	30	0	0	1
Student counseling and personnel services	283	20	241	25	0	8	58	137	8	0	5
Education research nec	93	10	78	3	1	8	12	49	4	0	1
Teacher education and teaching fields	1,098	159	885	96	10	50	106	582	18	3	20
Adult, continuing, and workforce education and development	61	5	47	3	1	2	12	28	1	0	0
Bilingual, multilingual, and multicultural education	72	6	62	18	2	8	13	18	2	0	1
Mathematics teacher education	73	19	52	4	1	5	6	32	2	0	2
Music teacher education	78	8	70	9	0	4	4	51	0	0	2
Special education and teaching	246	31	200	16	2	8	22	142	5	2	3
STEM educational methods	75	9	62	3	0	6	7	45	1	0	0
Teacher education, science and engineering	55	4	47	2	0	2	7	35	0	0	1
Teacher education, specific levels and methods	202	30	169	16	3	8	24	111	2	0	5
Teacher education, specific subject areas	236	47	176	25	1	7	11	120	5	1	6
Education, other	458	36	370	50	3	24	55	213	11	5	9
Education, general	324	31	252	36	1	19	31	147	10	5	3
Education nec	134	5	118	14	2	5	24	66	1	0	6
Humanities	3,358	621	2,536	268	13	130	149	1,805	74	41	56
English language and literature, letters	1,039	124	870	59	7	41	55	646	29	14	19
American literature (United States)	113	14	98	9	0	1	15	71	2	0	0
Creative writing	103	6	95	3	0	7	7	73	4	0	1
English language and literature, general	398	48	322	19	5	18	16	232	14	10	8
English literature (British and Commonwealth)	141	23	115	4	0	5	0	101	2	2	1
Rhetoric, composition, and writing studies	199	22	174	7	2	5	14	131	5	2	8
English language and literature nec	85	11	66	17	0	5	3	38	2	0	1

TABLE 3-3

Research doctorate recipients, by detailed field of doctorate, citizenship status, ethnicity, and race: 2023

(Number)

Field of doctorate	All doctorate recipients ^a	Temporary visa holders	U.S. citizens and permanent residents									Ethnicity not reported
			Total	Hispanic or Latino	Not Hispanic or Latino							
					American Indian or Alaska Native	Asian	Black or African American	White	More than one race	Other race or race not reported		
Foreign languages, literatures, and linguistics	571	205	322	86	2	15	10	195	8	1	5	
Comparative literature	129	44	70	6	0	3	2	55	4	0	0	
Hispanic/ Latin American languages, literatures, and linguistics	97	44	51	30	0	1	3	16	0	1	0	
Romance languages, literatures, and linguistics	97	32	57	8	0	3	4	41	1	0	0	
Spanish language and literature	97	25	63	37	0	0	0	22	1	0	3	
Foreign languages, literatures, and linguistics nec	151	60	81	5	2	8	1	61	2	0	2	
History	733	120	578	66	2	29	36	412	18	7	8	
American history (United States)	240	13	225	13	2	7	23	166	10	2	2	
European history	109	16	93	9	0	2	1	77	2	1	1	
History, general	175	37	110	17	0	7	6	73	2	1	4	
History, regional focus	139	45	91	19	0	11	4	49	4	3	1	
History nec	70	9	59	8	0	2	2	47	0	0	0	
Philosophy and religious studies	619	107	482	41	2	27	22	347	15	16	12	
Philosophy	415	82	312	33	1	13	14	219	10	12	10	
Religion/ religious studies	143	15	121	5	0	8	6	96	2	2	2	
Philosophy and religious studies nec	61	10	49	3	1	6	2	32	3	2	0	
Humanities, other	396	65	284	16	0	18	26	205	4	3	12	
Bible/ biblical studies	99	19	74	3	0	4	2	62	2	0	1	
Humanities and humanistic studies	98	22	72	9	0	2	7	49	0	0	5	
Theological and ministerial studies	199	24	138	4	0	12	17	94	2	3	6	
Visual and performing arts	824	185	575	50	2	38	22	423	16	9	15	
Performing arts	487	96	340	30	1	18	14	251	12	6	8	
Dance, drama, theatre arts, and stagecraft	83	11	66	4	0	3	3	47	1	4	4	
Music performance	122	27	73	9	1	6	2	50	3	0	2	
Music theory and composition	94	27	61	5	0	3	4	42	5	1	1	
Musicology and ethnomusicology	109	13	93	10	0	3	3	74	2	0	1	
Music nec	79	18	47	2	0	3	2	38	1	1	0	
Visual arts, media studies, and design	337	89	235	20	1	20	8	172	4	3	7	
Art history, criticism, and conservation	185	39	140	8	0	12	5	105	2	2	6	
Film, cinema, and media studies	84	22	59	7	0	2	2	47	1	0	0	
Visual arts, media studies, and design nec	68	28	36	5	1	6	1	20	1	1	1	
Other non-science and engineering	2,209	577	1,491	144	5	110	237	885	55	27	28	
Communications and journalism	635	152	440	38	1	32	55	288	17	6	3	
Applied communication, advertising, and public relations	87	19	62	6	0	6	8	38	3	1	0	

TABLE 3-3

Research doctorate recipients, by detailed field of doctorate, citizenship status, ethnicity, and race: 2023

(Number)

Field of doctorate	All doctorate recipients ^a	Temporary visa holders	U.S. citizens and permanent residents								Ethnicity not reported
			Total	Hispanic or Latino	Not Hispanic or Latino						
					American Indian or Alaska Native	Asian	Black or African American	White	More than one race	Other race or race not reported	
Communication and media studies	167	38	123	9	0	12	23	75	3	1	0
Communication, general	194	37	141	11	0	5	10	107	5	1	2
Mass communication/ media studies	94	33	52	2	0	1	3	39	4	2	1
Communications and journalism nec	93	25	62	10	1	8	11	29	2	1	0
Multidisciplinary/ interdisciplinary studies	380	72	281	28	2	15	34	180	4	5	13
Classical and ancient studies	126	28	91	6	0	3	3	76	2	1	0
Interdisciplinary leadership/ leadership studies	110	8	87	7	0	4	20	44	2	0	10
Multidisciplinary/ interdisciplinary studies nec	144	36	103	15	2	8	11	60	0	4	3
Public administration and social services	505	99	383	41	1	25	96	193	17	5	5
Public administration	169	62	105	9	0	8	26	53	8	0	1
Social work and human services	336	37	278	32	1	17	70	140	9	5	4
Non-science and engineering, other	689	254	387	37	1	38	52	224	17	11	7
Architecture and architectural studies	118	67	46	4	0	6	1	29	2	1	3
City/ urban, community, and regional planning	103	49	48	6	0	3	9	24	3	3	0
Family, consumer, and human sciences	132	35	91	7	0	11	7	57	5	2	2
Homeland security and protective services	138	26	94	7	0	8	24	51	3	1	0
Law/ legal studies and research	73	48	20	2	0	3	2	8	2	2	1
Parks, recreation, leisure, fitness, and sport studies and management	93	23	66	8	0	6	6	42	1	2	1
Other non-science and engineering nec	32	6	22	3	1	1	3	13	1	0	0

nec = not elsewhere classified; STEM = science, technology, engineering, and mathematics.

^a All doctorate recipients includes doctorate recipients who did not report citizenship status.

Note(s):

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.