

TABLE 22

Doctorate recipients, by subfield of study, citizenship status, ethnicity, and race: 2018

(Number)

Subfield of study	All doctorate recipients ^a	Temporary visa holders	U.S. citizens and permanent residents									
			Total	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	55,195	17,604	35,404	2,582	115	3,305	2,456	24,951	1,102	371	522	
Life sciences	12,780	3,364	9,041	663	21	997	587	6,277	285	104	107	
Agricultural sciences and natural resources	1,445	609	793	50	1	44	45	608	24	7	14	
Agricultural sciences	875	444	415	27	0	26	17	322	15	4	4	
Agricultural economics	108	74	33	0	0	2	4	25	2	0	0	
Agronomy, horticulture science, plant breeding, plant pathology, plant sciences-other	349	173	170	12	0	8	4	135	8	1	2	
Animal nutrition, poultry science	68	29	36	3	0	1	0	29	1	2	0	
Animal sciences, other	121	44	75	3	0	4	1	63	1	1	2	
Food science, food technology-other	163	94	67	6	0	11	7	40	3	0	0	
Soil chemistry and microbiology, soil sciences-other	66	30	34	3	0	0	1	30	0	0	0	
Natural resources and conservation	503	139	340	22	1	16	25	255	9	3	9	
Environmental science	223	57	147	13	1	10	17	92	6	2	6	
Fishing and fisheries sciences and management	51	8	43	2	0	1	2	37	1	0	0	
Forest biology, forest management, forestry sciences-other	93	34	58	3	0	2	3	47	0	1	2	
Natural resources policy and environmental economics	78	27	50	2	0	3	2	42	1	0	0	
Natural resources and conservation, wildlife and range management	58	13	42	2	0	0	1	37	1	0	1	
Agricultural sciences, aggregated	67	26	38	1	0	2	3	31	0	0	1	
Biological and biomedical sciences	8,801	2,160	6,406	499	11	778	306	4,461	210	77	64	
Anatomy, developmental biology	158	43	111	12	0	16	4	73	5	0	1	

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Bacteriology, parasitology, and virology	149	37	111	6	0	8	6	84	7	0	0
Biochemistry (biological sciences)	811	244	542	39	0	63	22	383	20	5	10
Bioinformatics	203	84	112	3	0	28	6	67	5	1	2
Biomedical sciences	421	118	297	30	0	39	26	183	12	4	3
Biometrics and biostatistics	233	118	113	5	0	33	4	67	1	2	1
Biophysics (biological sciences)	152	43	105	8	0	17	6	67	3	4	0
Botany, plant pathology, plant physiology	149	44	96	10	0	7	0	70	8	1	0
Cancer biology	355	101	246	28	0	41	17	149	7	2	2
Cell, cellular biology, and histology	218	64	145	8	0	18	8	103	3	3	2
Computational biology	146	50	94	5	0	16	2	65	3	3	0
Ecology	418	42	371	28	0	11	0	316	9	5	2
Endocrinology, human/animal pathology	73	15	57	6	1	3	2	41	3	0	1
Entomology	119	27	90	8	0	4	4	67	4	1	2
Environmental toxicology	56	15	40	1	0	2	5	27	1	0	4
Epidemiology	401	68	329	21	3	46	33	208	12	5	1
Evolutionary biology	242	40	202	17	0	13	6	154	7	1	4
Genetics and genomics, human and animal	362	73	277	15	0	40	11	193	9	5	4
Immunology	422	82	333	26	0	64	14	212	11	4	2
Microbiology	478	92	378	31	2	33	23	269	13	4	3
Molecular biology	596	177	410	33	1	54	9	290	20	1	2
Molecular medicine	62	13	47	3	0	7	6	30	1	0	0
Neurosciences, neurobiology	1,037	173	838	74	1	99	36	594	24	6	4
Nutrition sciences	201	59	140	8	1	14	11	100	3	2	1
Pharmacology, human and animal	210	62	144	8	0	21	13	96	4	2	0
Physiology, human and animal	202	48	146	14	1	15	3	105	5	2	1
Plant genetics	72	28	44	5	0	2	0	36	1	0	0
Structural biology	51	14	37	5	0	4	2	25	0	1	0
Toxicology	95	15	78	9	0	6	10	53	0	0	0
Wildlife biology	62	3	58	2	0	0	1	54	0	1	0
Zoology	29	4	25	1	0	1	0	23	0	0	0

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Biological and biomedical sciences, general	468	134	289	22	1	45	11	184	8	9	9
Biotechnology, biology/biomedical sciences-other	150	30	101	8	0	8	5	73	1	3	3
Health sciences	2,534	595	1,842	114	9	175	236	1,208	51	20	29
Environmental health	83	25	56	2	1	8	5	35	2	2	1
Health and behavior	60	15	44	6	0	3	4	29	2	0	0
Health services/systems administration	160	37	122	5	1	18	29	63	3	2	1
Kinesiology, exercise science	268	44	215	11	0	9	9	174	8	1	3
Medical physics, radiological science	74	19	54	5	0	4	3	39	3	0	0
Nursing science	585	70	485	31	4	28	57	345	7	4	9
Pharmaceutical sciences	345	192	132	3	0	36	11	76	5	0	1
Public health	421	76	340	32	3	30	75	179	14	5	2
Rehabilitation, therapeutic services	125	26	96	4	0	9	9	70	3	1	0
Speech-language pathology and audiology	112	17	90	8	0	4	5	70	2	0	1
Health sciences, aggregated	301	74	208	7	0	26	29	128	2	5	11
Physical sciences and earth sciences	6,335	2,375	3,771	221	9	356	103	2,906	101	26	49
Chemistry	2,810	1,022	1,711	106	4	176	77	1,268	42	12	26
Analytical chemistry	401	159	240	16	1	31	12	175	3	1	1
Chemical biology	160	44	113	6	0	15	2	85	4	1	0
Inorganic chemistry	358	99	253	21	0	26	10	192	3	1	0
Medicinal chemistry	86	31	52	0	0	4	5	41	2	0	0
Organic chemistry	574	203	371	23	2	42	23	270	8	0	3
Physical chemistry	398	158	239	10	0	17	7	198	5	1	1
Polymer chemistry	132	69	63	3	0	8	1	50	1	0	0
Theoretical chemistry	106	42	64	4	0	7	3	47	2	1	0
Chemistry, general	430	166	204	12	1	18	10	130	9	6	18
Chemistry, other	165	51	112	11	0	8	4	80	5	1	3
Geosciences, atmospheric sciences, and ocean sciences	1,185	392	760	49	3	42	11	617	27	4	7
Atmospheric science and meteorology	265	101	157	16	1	13	2	117	7	0	1

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Atmospheric physics, meteorology	67	25	41	2	1	5	0	31	2	0	0
Atmospheric chemistry, atmospheric sciences-general, atmospheric sciences-other	198	76	116	14	0	8	2	86	5	0	1
Geological sciences	591	185	383	23	1	16	4	317	16	3	3
Geochemistry, mineralogy	70	15	55	3	0	1	0	47	4	0	0
Geology	132	25	105	8	0	1	2	85	6	1	2
Geomorphology, geological sciences-general, geological sciences-other	216	69	130	7	0	9	1	107	5	0	1
Geophysics and seismology	129	68	57	4	1	3	1	45	1	2	0
Paleontology, stratigraphy	44	8	36	1	0	2	0	33	0	0	0
Ocean and marine sciences	329	106	220	10	1	13	5	183	4	1	3
Marine biology and biological oceanography	73	14	57	2	0	5	0	48	1	0	1
Oceanography, chemical and physical	81	33	48	3	0	1	0	42	0	0	2
Ocean/marine sciences, aggregated	175	59	115	5	1	7	5	93	3	1	0
Physics and astronomy	2,340	961	1,300	66	2	138	15	1,021	32	10	16
Astronomy and astrophysics	352	93	253	12	0	18	2	218	2	0	1
Astronomy	138	26	109	6	0	6	0	96	1	0	0
Astrophysics	204	60	141	6	0	12	2	119	1	0	1
Astronomy and astrophysics, other	10	7	3	0	0	0	0	3	0	0	0
Physics	1,988	868	1,047	54	2	120	13	803	30	10	15
Acoustics, optics/ photonics	195	104	88	5	0	15	1	62	3	1	1
Applied physics	200	80	105	7	0	17	5	72	2	0	2
Atomic physics, polymer physics	150	65	85	7	0	4	0	73	0	1	0
Biophysics (physics)	146	64	80	3	0	13	1	59	3	1	0

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Condensed matter, low-temperature physics	443	238	203	5	0	30	2	158	5	1	2
Elementary particle physics	232	92	138	5	0	10	1	113	7	1	1
Nuclear physics	93	33	60	5	0	4	1	50	0	0	0
Plasma, high-temperature physics	60	13	47	2	1	3	1	36	2	1	1
Physics, general	340	133	166	8	1	14	0	129	5	3	6
Physics, other	129	46	75	7	0	10	1	51	3	1	2
Mathematics and computer sciences	4,030	2,130	1,739	94	4	231	64	1,233	58	22	33
Computer and information sciences	2,004	1,166	743	43	2	112	39	496	21	10	20
Computer science	1,631	983	577	29	1	91	24	391	16	9	16
Information science, systems	122	40	70	7	1	4	5	47	3	0	3
Computer and information sciences, general	141	86	51	2	0	13	6	27	2	0	1
Computer and information sciences, other	110	57	45	5	0	4	4	31	0	1	0
Mathematics and statistics	2,026	964	996	51	2	119	25	737	37	12	13
Algebra	107	38	68	5	1	10	1	51	0	0	0
Analysis and functional analysis	100	49	50	2	0	4	0	40	1	2	1
Applied mathematics, computing theory	465	208	245	13	0	29	11	177	8	3	4
Computational mathematics	92	45	42	4	0	5	1	32	0	0	0
Geometry, geometric analysis	79	33	45	2	0	3	1	36	3	0	0
Logic, topology/foundations	77	21	56	5	0	4	0	41	5	1	0
Number theory	62	28	34	3	0	0	0	28	2	1	0
Operations research, mathematics/statistics-general, mathematics/statistics-other	631	302	295	13	0	33	6	220	13	5	5
Statistics (mathematics)	413	240	161	4	1	31	5	112	5	0	3
Psychology and social sciences	8,899	1,771	6,704	593	34	473	524	4,653	253	76	98
Psychology	3,837	285	3,321	328	12	200	244	2,342	114	29	52
Behavioral analysis	63	4	58	5	0	3	4	43	2	0	1

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Clinical psychology	1,267	39	1,142	129	5	73	65	807	41	9	13
Cognitive neuroscience	199	28	166	10	0	16	4	131	4	0	1
Cognitive psychology and psycholinguistics	143	24	119	11	0	4	2	94	4	3	1
Community psychology	44	3	32	3	1	0	9	19	0	0	0
Counseling	290	17	263	30	0	18	28	166	12	2	7
Developmental and child psychology	163	19	141	13	0	16	4	95	11	1	1
Educational psychology (psychology)	116	15	93	5	1	6	13	62	4	2	0
Experimental psychology	137	19	113	6	1	2	1	97	2	3	1
Family psychology, human development and family studies	143	25	113	8	0	7	10	82	5	1	0
Health, medical psychology	80	4	76	12	0	4	12	39	1	1	7
Industrial and organizational psychology	195	23	156	14	1	10	9	118	2	1	1
Marriage and family therapy, counseling	69	3	64	6	1	2	15	39	1	0	0
Neuropsychology, physiological psychology	40	1	34	5	0	2	2	25	0	0	0
School psychology (psychology)	148	4	142	12	0	8	23	93	5	1	0
Social psychology	218	25	190	21	0	14	4	141	7	3	0
Psychology, general	251	16	176	16	1	5	16	114	4	2	18
Psychology, aggregated	271	16	243	22	1	10	23	177	9	0	1
Social sciences	5,062	1,486	3,383	265	22	273	280	2,311	139	47	46
Anthropology	424	70	335	24	2	21	20	244	14	6	4
Anthropology, cultural	276	59	215	16	2	19	18	143	12	4	1
Anthropology, general	53	3	34	1	0	0	0	28	1	2	2
Anthropology, physical and biological	95	8	86	7	0	2	2	73	1	0	1
Economics	1,247	707	484	26	1	67	21	336	16	6	11
Econometrics, economics	1,189	684	451	24	0	64	19	313	15	6	10

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Natural resources and environmental economics (social sciences)	58	23	33	2	1	3	2	23	1	0	1
Political science and government	734	159	543	35	2	39	28	404	18	10	7
Sociology	669	89	556	53	3	40	57	360	31	1	11
Other social sciences	1,988	461	1,465	127	14	106	154	967	60	24	13
American, U.S. studies	68	5	62	10	2	6	7	31	4	1	1
Applied linguistics	70	28	42	0	0	7	0	34	1	0	0
Archaeology (social sciences)	119	12	107	3	2	3	1	95	3	0	0
Area, ethnic, and cultural studies	133	18	105	22	5	10	17	36	9	4	2
Criminal justice and corrections	87	11	66	3	2	3	11	45	1	1	0
Criminology	96	15	81	7	0	6	7	56	5	0	0
Demography, gerontology, statistics, urban affairs, social sciences- general, social sciences-other	262	61	191	29	0	14	31	107	5	5	0
Gender and women's studies	48	7	41	3	0	3	3	29	2	0	1
Geography	242	76	162	9	1	7	5	127	7	3	3
Health policy analysis	58	9	48	1	0	4	6	35	2	0	0
History, science and technology and society	55	7	45	2	0	1	2	35	3	0	2
International relations, international affairs	135	28	105	8	0	7	4	77	5	4	0
Linguistics	249	84	154	16	2	12	3	112	3	5	1
Public policy analysis	264	63	196	9	0	12	53	113	7	1	1
Urban, city, community and regional planning	102	37	60	5	0	11	4	35	3	0	2
Engineering	10,183	5,583	4,218	280	8	678	167	2,829	129	59	68
Aerospace, aeronautical, and astronautical engineering	383	146	221	17	0	19	9	161	6	3	6

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Bioengineering and biomedical engineering	1,134	362	744	48	1	157	32	461	26	9	10
Chemical engineering	981	478	469	35	2	78	7	318	18	5	6
Civil engineering	677	443	200	18	1	28	12	131	3	4	3
Electrical, electronics, and communications engineering	1,951	1,319	544	23	0	125	21	342	16	7	10
Industrial and manufacturing engineering	272	196	62	6	0	5	1	48	1	1	0
Materials science engineering	995	502	463	34	0	71	29	301	16	2	10
Mechanical engineering	1,504	831	608	35	2	76	17	439	19	10	10
Other engineering	2,286	1,306	907	64	2	119	39	628	24	18	13
Computer engineering	436	313	111	11	0	27	3	61	3	3	3
Environmental, environmental health engineering	247	98	143	8	1	17	7	104	5	1	0
Nuclear engineering	178	49	128	10	0	6	2	103	4	2	1
Robotics	108	49	58	4	0	7	0	43	0	3	1
Structural engineering	95	64	30	2	0	4	0	23	1	0	0
Systems engineering	113	37	75	9	1	9	9	45	1	1	0
Other engineering, aggregated	1,109	696	362	20	0	49	18	249	10	8	8
Education	4,834	613	4,033	302	23	205	584	2,714	117	28	60
Education administration	898	53	784	60	5	20	200	464	12	3	20
Educational administration and supervision	168	6	143	9	0	4	47	73	0	1	9
Educational and human resource studies, development	47	9	38	6	0	3	9	19	1	0	0
Educational leadership	619	37	551	40	5	10	127	347	9	2	11
Urban education and leadership	64	1	52	5	0	3	17	25	2	0	0
Education research	2,507	367	2,060	150	11	114	260	1,407	71	18	29
Counseling education, counseling and guidance	281	28	243	21	0	11	44	154	8	1	4
Curriculum and instruction	533	83	416	34	4	24	44	284	13	4	9

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Educational assessment, testing, measurement	57	21	35	0	0	5	1	27	1	0	1
Educational policy analysis	142	16	123	5	1	8	19	79	8	2	1
Educational psychology (education)	210	31	176	12	1	7	19	125	9	2	1
Educational statistics, research methods	95	30	63	2	1	6	7	43	4	0	0
Educational/instructional technology, media design	215	62	148	5	3	9	13	110	4	3	1
Higher education evaluation and research	394	21	370	38	0	17	66	231	12	3	3
International education	43	13	30	4	0	3	2	20	0	0	1
Learning sciences	73	7	63	2	0	3	10	42	5	0	1
School psychology (education)	116	3	111	7	0	6	11	83	3	0	1
Social and philosophical foundations of education	81	11	67	7	1	4	13	41	1	0	0
Special education	267	41	215	13	0	11	11	168	3	3	6
Teacher education	97	8	88	9	1	5	21	49	2	0	1
Teaching fields	963	155	788	49	1	51	62	594	20	6	5
Health education	62	7	51	5	0	5	4	33	3	0	1
Literacy and reading education	119	13	104	3	0	3	10	84	3	0	1
Mathematics education	148	25	122	10	0	7	7	94	2	2	0
Music education	82	4	78	0	0	6	3	63	4	1	1
Science education	140	14	124	2	1	14	11	90	5	1	0
Teaching fields, aggregated	412	92	309	29	0	16	27	230	3	2	2
Other education	369	30	313	34	5	15	41	200	12	1	5
Workforce education and development	37	8	29	0	0	1	7	21	0	0	0
Education, general	170	10	145	16	4	5	12	97	5	1	5
Education, other	162	12	139	18	1	9	22	82	7	0	0
Humanities and arts	5,145	738	4,150	348	12	203	205	3,167	112	29	74
Foreign languages and literature	617	180	406	106	0	17	9	257	8	5	4
French	100	20	75	5	0	2	4	58	2	1	3
Germanic language and literature	62	16	43	2	0	0	1	39	1	0	0

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Spanish language and literature	207	57	145	69	0	1	3	68	3	0	1
Other languages, aggregated	248	87	143	30	0	14	1	92	2	4	0
History	948	112	800	67	2	27	48	623	18	6	9
American history, United States and Canada	389	14	371	23	1	5	28	301	10	2	1
Asian history	73	31	41	1	0	11	0	29	0	0	0
European history	172	15	157	9	0	2	1	142	3	0	0
Latin American history	55	12	43	17	0	1	0	25	0	0	0
Middle, Near East history	44	13	30	2	1	2	0	23	2	0	0
History, general	107	10	69	4	0	4	6	47	1	0	7
History, aggregated	108	17	89	11	0	2	13	56	2	4	1
Letters	1,442	139	1,235	74	3	63	43	978	42	8	24
American literature, United States and Canada	273	18	254	15	1	10	8	207	9	3	1
Classics	94	12	80	4	0	5	2	67	1	0	1
Comparative literature	172	50	110	11	0	10	3	78	4	0	4
English language	121	11	76	2	1	4	5	55	0	2	7
English literature, British and Commonwealth	383	30	345	13	0	25	6	285	12	1	3
Rhetoric and composition	241	10	224	19	1	4	12	174	11	1	2
Speech and rhetorical studies	42	2	39	1	0	1	1	28	2	0	6
Letters, aggregated	116	6	107	9	0	4	6	84	3	1	0
Other humanities and arts	2,138	307	1,709	101	7	96	105	1,309	44	10	37
African American studies, literature, and history	52	3	48	2	0	5	30	10	1	0	0
Archaeology (humanities)	54	10	43	3	0	2	1	36	1	0	0
Art history, criticism, and conservation	220	26	183	10	2	14	8	144	3	1	1
Dance, drama	113	12	91	6	1	3	7	70	2	1	1
Film, cinema, video studies	90	15	74	6	1	7	1	52	5	2	0
Music	55	11	33	1	0	3	1	17	0	1	10
Musicology and ethnomusicology	131	19	111	8	0	3	3	93	3	0	1
Music performance	88	16	63	5	1	10	0	47	0	0	0

TABLE 22

Doctorate recipients, by subfield of study, citizenship status, ethnicity, and race: 2018

(Number)

Subfield of study	All doctorate recipients ^a	Temporary visa holders	U.S. citizens and permanent residents									
			Total	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				
Music theory and composition	85	17	66	5	0	1	3	54	3	0	0	
Philosophy, ethics	514	92	399	18	0	13	10	336	9	3	10	
Religion/religious studies, Jewish/Judaic studies	281	22	241	10	1	15	22	177	9	2	5	
Theology, religious education	196	25	163	16	1	6	11	123	3	0	3	
Other humanities, aggregated	259	39	194	11	0	14	8	150	5	0	6	
Other ^b	2,989	1,030	1,748	81	4	162	222	1,172	47	27	33	
Business management and administration	1,481	644	744	31	1	102	109	456	16	13	16	
Accounting	162	52	105	2	1	17	5	75	3	1	1	
Business administration and management	260	114	127	4	0	14	16	82	3	3	5	
Finance	193	107	75	5	0	11	5	51	0	3	0	
Human resources, organizational behavior	243	46	175	6	0	8	41	110	5	2	3	
Management information systems, business statistics	110	65	41	1	0	12	11	15	0	2	0	
Marketing management and research	141	77	59	3	0	16	2	34	2	1	1	
Other aggregated business fields	372	183	162	10	0	24	29	89	3	1	6	
Communication	631	165	435	12	1	32	30	333	12	7	8	
Communication research	143	36	100	3	0	8	10	75	4	0	0	
Mass communication, media studies	228	84	136	3	0	11	7	105	6	2	2	
Communication, general	155	28	117	2	0	11	4	91	1	3	5	
Communication, aggregated	105	17	82	4	1	2	9	62	1	2	1	
Non-S&E fields nec	877	221	569	38	2	28	83	383	19	7	9	
Architecture and environmental design	105	56	46	2	0	2	1	38	2	1	0	
Family, consumer sciences and human sciences	64	20	40	3	0	4	9	23	0	1	0	

TABLE 22

Doctorate recipients, by subfield of study, citizenship status, ethnicity, and race: 2018

(Number)

Subfield of study	All doctorate recipients ^a	Temporary visa holders	U.S. citizens and permanent residents								
			Total	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		
Parks, sports, recreation, leisure and fitness	53	14	36	1	0	0	4	29	1	0	1
Public administration	139	30	103	7	1	2	27	61	5	0	0
Social work	358	54	275	22	1	16	32	185	10	3	6
Fields nec, aggregated	158	47	69	3	0	4	10	47	1	2	2
Unknown field	0	0	0	0	0	0	0	0	0	0	0

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

^a Includes respondents who did not report citizenship.^b Includes other non-S&E fields not shown separately.**Note(s)**

See table A-5 in the technical notes for a listing of aggregated fields and their constituent fine fields.

Source(s)

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