

Table 22**Doctorate recipients, by subfield of study, citizenship status, ethnicity, and race: 2019**

(Number)

Field 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
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All fields	55,703	18,351	35,274	2,848	120	3,421	2,512	24,248	1,121	381	623	
Life sciences	12,781	3,406	9,052	775	29	1,042	540	6,158	296	90	122	
Agricultural sciences and natural resources	1,491	648	822	54	5	46	40	636	19	9	13	
Agricultural sciences	917	463	446	28	2	26	18	356	8	3	5	
Agricultural economics	117	81	35	3	0	0	2	29	1	0	0	
Agronomy, horticulture science, plant breeding, plant pathology, plant sciences-other	362	177	181	14	1	15	5	135	5	2	4	
Animal nutrition, poultry science	81	34	47	2	1	1	1	40	1	0	1	
Animal sciences, other	120	38	80	5	0	0	4	71	0	0	0	
Food science, food technology-other	156	105	51	1	0	8	4	37	0	1	0	
Soil chemistry and microbiology, soil sciences-other	81	28	52	3	0	2	2	44	1	0	0	
Natural resources and conservation	497	153	333	24	3	18	18	249	10	5	6	
Environmental science	229	74	148	15	1	10	12	100	2	5	3	
Fishing and fisheries sciences and management	63	12	49	5	1	2	0	40	1	0	0	
Forest biology, forest management, forestry sciences-other	74	20	52	1	0	5	0	40	3	0	3	
Natural resources policy and environmental economics	75	29	46	3	0	1	4	35	3	0	0	
Natural resources and conservation, wildlife and range management	56	18	38	0	1	0	2	34	1	0	0	
Agricultural sciences, aggregated	77	32	43	2	0	2	4	31	1	1	2	
Biological and biomedical sciences	8,702	2,136	6,380	600	14	809	276	4,323	228	64	66	
Anatomy, developmental biology	138	30	106	8	0	8	8	77	3	1	1	

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Bacteriology, parasitology, and virology	168	28	140	13	0	16	7	96	7	1	0
Biochemistry (biological sciences)	793	227	547	43	3	66	21	382	20	6	6
Bioinformatics	242	98	140	2	0	27	1	103	2	1	4
Biomedical sciences	386	98	278	37	1	38	28	161	5	1	7
Biometrics and biostatistics	221	106	111	5	0	38	4	58	2	3	1
Biophysics (biological sciences)	175	51	121	14	0	14	3	82	4	2	2
Botany, plant pathology, plant physiology	142	49	93	11	0	6	2	70	3	1	0
Cancer biology	364	113	248	37	0	43	13	145	5	3	2
Cell, cellular biology, and histology	201	53	135	14	0	19	7	87	7	1	0
Computational biology	184	68	116	7	1	24	3	73	7	1	0
Ecology	433	39	387	26	1	10	5	322	18	2	3
Endocrinology, human / animal pathology	62	28	32	4	0	1	3	22	1	1	0
Entomology	124	41	83	5	0	8	4	66	0	0	0
Environmental toxicology	67	10	56	4	0	5	6	38	2	1	0
Epidemiology	362	66	292	17	0	36	29	192	10	3	5
Evolutionary biology	238	45	192	15	0	14	3	146	12	1	1
Genetics and genomics, human and animal	342	66	272	20	0	35	8	191	12	3	3
Immunology	413	93	315	34	0	52	17	195	15	2	0
Microbiology	430	84	341	43	2	44	8	230	11	2	1
Molecular biology	555	139	410	38	2	67	14	274	11	3	1
Molecular medicine	34	5	28	3	0	4	4	17	0	0	0
Neurosciences, neurobiology	1,042	183	836	91	1	103	20	573	27	10	11
Nutrition sciences	201	59	137	8	0	16	10	94	4	1	4
Pharmacology, human and animal	199	44	146	10	0	16	9	103	4	3	1
Physiology, human and animal	177	31	141	18	1	18	7	85	7	1	4
Plant genetics	58	24	33	3	1	1	3	24	1	0	0
Structural biology	73	22	51	5	0	8	3	31	3	0	1
Toxicology	84	25	57	7	0	7	5	36	2	0	0
Wildlife biology, zoology	92	7	84	5	0	2	1	73	2	1	0

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Biological and biomedical sciences, general	536	152	351	42	1	50	17	212	18	6	5	
Biotechnology, biology / biomedical sciences-other	166	52	101	11	0	13	3	65	3	3	3	
Health sciences	2,588	622	1,850	121	10	187	224	1,199	49	17	43	
Environmental health	90	32	58	5	0	10	6	35	1	1	0	
Health and behavior	88	18	67	4	0	13	14	31	3	1	1	
Health services / systems administration	160	38	119	3	0	24	23	63	3	1	2	
Kinesiology, exercise science	260	48	206	13	2	2	8	170	3	0	8	
Medical physics, radiological science	90	23	67	4	0	7	1	53	2	0	0	
Nursing science	548	62	461	27	3	34	43	332	10	6	6	
Pharmaceutical sciences	359	206	129	6	0	25	12	77	5	0	4	
Public health	452	63	375	34	4	35	81	194	15	5	7	
Rehabilitation, therapeutic services	109	31	70	4	0	4	4	52	2	0	4	
Speech-language pathology and audiology	116	24	88	3	0	7	9	68	0	1	0	
Health sciences, aggregated	316	77	210	18	1	26	23	124	5	2	11	
Physical sciences and earth sciences	6,585	2,486	3,903	269	8	366	88	2,943	140	34	55	
Chemistry	2,941	1,071	1,781	149	3	187	62	1,275	66	13	26	
Analytical chemistry	367	147	217	21	0	17	11	163	4	1	0	
Chemical biology	185	59	125	7	0	18	5	84	10	0	1	
Inorganic chemistry	386	118	264	21	0	24	8	200	10	1	0	
Medicinal chemistry	94	37	55	3	0	5	4	42	1	0	0	
Organic chemistry	564	216	348	26	2	42	17	244	14	2	1	
Physical chemistry	390	138	250	22	0	25	5	186	10	2	0	
Polymer chemistry	174	84	89	9	0	8	2	66	3	1	0	
Theoretical chemistry	96	42	53	4	0	7	1	40	1	0	0	
Chemistry, general	477	183	222	19	1	24	4	139	9	5	21	
Chemistry, other	208	47	158	17	0	17	5	111	4	1	3	
Geosciences, atmospheric sciences, and ocean sciences	1,274	430	809	52	4	31	15	656	31	9	11	
Atmospheric science and meteorology	236	86	143	8	1	7	2	117	2	1	5	

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Atmospheric physics, meteorology	45	19	25	1	0	2	0	22	0	0	0	
Atmospheric chemistry, atmospheric sciences-general, atmospheric sciences-other	191	67	118	7	1	5	2	95	2	1	5	
Geological sciences	622	202	397	24	2	11	9	327	13	6	5	
Geochemistry, mineralogy	74	16	58	6	0	5	0	44	2	0	1	
Geology	149	44	103	1	1	0	5	86	4	4	2	
Geomorphology, geological sciences-general, geological sciences-other	233	73	150	7	1	5	2	126	5	2	2	
Geophysics and seismology	136	66	60	7	0	1	1	50	1	0	0	
Paleontology, stratigraphy	30	3	26	3	0	0	1	21	1	0	0	
Ocean and marine sciences	416	142	269	20	1	13	4	212	16	2	1	
Marine biology and biological oceanography	88	7	81	7	0	4	0	66	3	1	0	
Oceanography, chemical and physical	81	39	41	5	0	0	0	33	2	0	1	
Ocean / marine sciences, aggregated	247	96	147	8	1	9	4	113	11	1	0	
Physics and astronomy	2,370	985	1,313	68	1	148	11	1,012	43	12	18	
Astronomy and astrophysics	362	106	251	14	1	19	0	203	12	0	2	
Astronomy	125	42	80	4	0	5	0	66	5	0	0	
Astrophysics	231	62	167	10	1	14	0	133	7	0	2	
Astronomy and astrophysics, other	6	2	4	0	0	0	0	4	0	0	0	
Physics	2,008	879	1,062	54	0	129	11	809	31	12	16	
Acoustics, optics / photonics	235	117	114	9	0	14	1	83	6	0	1	
Applied physics	164	59	90	5	0	13	0	68	0	3	1	
Atomic physics, polymer physics	166	75	90	2	0	11	1	74	0	1	1	
Biophysics (physics)	154	65	89	2	0	15	2	63	1	5	1	

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Condensed matter, low-temperature physics	400	210	187	8	0	22	1	149	5	1	1
Elementary particle physics	234	109	119	4	0	15	1	92	6	0	1
Nuclear physics	116	30	84	7	0	3	1	70	3	0	0
Plasma, high-temperature physics	63	21	42	5	0	5	0	31	1	0	0
Physics, general	321	127	159	7	0	15	3	116	6	2	10
Physics, other	155	66	88	5	0	16	1	63	3	0	0
Mathematics and computer sciences	4,240	2,309	1,787	103	1	252	69	1,235	68	27	32
Computer and information sciences	2,228	1,333	800	38	1	134	37	539	27	12	12
Computer science	1,821	1,129	624	28	1	114	21	429	18	7	6
Information science, systems	127	47	67	4	0	2	7	45	4	2	3
Computer and information sciences, general	154	98	52	4	0	13	3	29	2	1	0
Computer and information sciences, other	126	59	57	2	0	5	6	36	3	2	3
Mathematics and statistics	2,012	976	987	65	0	118	32	696	41	15	20
Algebra	82	32	50	3	0	8	0	33	5	1	0
Analysis and functional analysis	66	35	30	1	0	5	1	23	0	0	0
Applied mathematics, computing theory	438	205	226	19	0	22	12	160	5	4	4
Computational mathematics	94	46	46	1	0	5	4	33	3	0	0
Geometry, geometric analysis	72	32	39	1	0	3	0	33	2	0	0
Logic, topology / foundations	62	19	43	1	0	5	0	33	2	2	0
Number theory	60	27	33	1	0	7	0	24	1	0	0
Operations research, mathematics / statistics-general, mathematics / statistics-other	773	362	386	33	0	35	9	275	16	4	14
Statistics (mathematics)	365	218	134	5	0	28	6	82	7	4	2
Psychology and social sciences	9,071	1,917	6,723	629	30	443	593	4,553	243	79	153
Psychology	3,936	339	3,349	323	15	196	284	2,285	122	34	90
Behavioral analysis	54	0	54	2	0	2	4	42	1	1	2

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Clinical psychology	1,264	48	1,144	109	6	64	86	799	36	15	29	
Cognitive neuroscience	215	36	173	8	0	14	6	129	11	3	2	
Cognitive psychology and psycholinguistics	135	22	111	8	0	14	5	82	2	0	0	
Community psychology	34	4	25	3	0	0	3	16	3	0	0	
Counseling	295	22	249	23	3	13	28	153	9	4	16	
Developmental and child psychology	176	19	157	26	1	12	6	103	6	1	2	
Educational psychology (psychology)	108	14	87	6	1	3	18	54	3	1	1	
Experimental psychology	137	13	121	5	0	7	4	100	4	1	0	
Family psychology, human development and family studies	173	34	132	15	1	5	14	86	6	0	5	
Health, medical psychology	82	4	76	7	0	2	8	50	2	0	7	
Industrial and organizational psychology	183	15	160	18	1	6	18	110	2	1	4	
Marriage and family therapy, counseling	96	5	72	11	0	4	15	40	2	0	0	
Neuropsychology, physiological psychology	62	4	55	8	0	7	0	37	3	0	0	
School psychology (psychology)	132	6	124	12	0	8	14	85	4	1	0	
Social psychology	236	32	200	12	0	14	14	141	16	2	1	
Psychology, general	251	22	175	23	1	6	19	103	5	2	16	
Psychology, aggregated	303	39	234	27	1	15	22	155	7	2	5	
Social sciences	5,135	1,578	3,374	306	15	247	309	2,268	121	45	63	
Anthropology	445	66	359	39	1	18	20	246	21	8	6	
Anthropology, cultural	294	54	234	25	0	16	19	157	11	5	1	
Anthropology, general	77	8	56	9	0	1	0	34	6	1	5	
Anthropology, physical and biological	74	4	69	5	1	1	1	55	4	2	0	
Economics	1,247	708	491	32	0	75	21	330	12	6	15	
Econometrics, economics	1,187	684	455	30	0	70	18	305	11	6	15	

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Natural resources and environmental economics (social sciences)	60	24	36	2	0	5	3	25	1	0	0	
Political science and government	707	173	504	43	0	30	23	379	13	8	8	
Sociology	633	105	511	51	1	24	47	351	21	5	11	
Other social sciences	2,103	526	1,509	141	13	100	198	962	54	18	23	
American, U.S. studies	67	8	57	6	1	5	7	33	3	1	1	
Applied linguistics	100	50	46	4	1	6	1	31	2	1	0	
Archaeology (social sciences)	117	14	102	6	1	0	3	85	5	0	2	
Area, ethnic, and cultural studies	137	32	98	31	4	8	14	30	4	4	3	
Criminal justice and corrections	142	8	121	4	2	3	34	70	1	1	6	
Criminology	100	13	86	11	1	1	6	63	3	0	1	
Demography, gerontology, statistics, urban affairs, social sciences- general, social sciences-other	259	66	183	16	0	15	37	106	4	4	1	
Gender and women's studies	55	7	46	4	0	5	6	25	5	1	0	
Geography	265	86	175	9	0	9	9	140	4	0	4	
Health policy analysis	55	12	43	2	1	5	7	27	1	0	0	
History, science and technology and society	74	15	59	2	0	1	1	50	3	0	2	
International relations, international affairs	138	34	99	13	0	9	4	68	3	2	0	
Linguistics	245	83	154	14	2	14	5	105	10	3	1	
Public policy analysis	231	46	180	9	0	12	54	99	5	0	1	
Urban, city, community and regional planning	118	52	60	10	0	7	10	30	1	1	1	
Engineering	10,303	5,683	4,253	306	9	718	178	2,800	124	50	68	
Aerospace, aeronautical, and astronautical engineering	379	153	212	14	1	20	6	166	2	1	2	

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Bioengineering and biomedical engineering	1,164	359	772	65	0	171	27	459	29	7	14
Chemical engineering	981	479	480	30	3	81	27	314	15	3	7
Civil engineering	701	462	200	8	0	27	10	146	3	2	4
Electrical, electronics, and communications engineering	1,799	1,198	518	35	2	127	18	309	11	4	12
Industrial and manufacturing engineering	234	140	84	3	0	10	9	58	2	1	1
Materials science engineering	992	461	501	39	1	79	25	321	19	12	5
Mechanical engineering	1,533	880	600	35	2	76	16	436	17	10	8
Other engineering	2,520	1,551	886	77	0	127	40	591	26	10	15
Computer engineering	446	323	106	9	0	25	2	64	4	2	0
Environmental, environmental health engineering	251	134	115	16	0	10	3	79	4	1	2
Nuclear engineering	156	61	94	10	0	5	1	74	2	1	1
Robotics	145	72	71	2	0	15	2	49	1	1	1
Structural engineering	146	98	48	6	0	2	1	35	3	0	1
Systems engineering	125	45	78	7	0	13	7	43	2	2	4
Other engineering, aggregated	1,251	818	374	27	0	57	24	247	10	3	6
Education	4,635	615	3,848	318	26	206	619	2,485	109	33	52
Education administration	839	54	754	54	8	20	199	446	13	5	9
Educational administration and supervision	154	13	134	9	1	3	44	66	3	2	6
Educational and human resource studies, development	57	12	45	0	0	2	7	35	1	0	0
Educational leadership	563	28	511	37	7	11	114	330	7	3	2
Urban education and leadership	65	1	64	8	0	4	34	15	2	0	1
Education research	2,303	317	1,907	161	8	114	268	1,252	64	18	22
Counseling education, counseling and guidance	255	14	226	14	0	10	48	146	5	0	3
Curriculum and instruction	391	70	302	23	0	19	36	210	5	4	5

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Educational assessment, testing, measurement	46	13	33	3	0	4	5	20	1	0	0
Educational policy analysis	146	14	130	10	0	9	21	85	2	2	1
Educational psychology (education)	198	19	174	14	2	14	17	113	8	5	1
Educational statistics, research methods	86	24	60	5	0	3	7	43	2	0	0
Educational / instructional technology, media design	195	54	135	6	0	9	22	89	6	3	0
Higher education evaluation and research	389	21	364	39	1	14	68	222	16	1	3
International education	51	14	35	5	0	2	2	24	2	0	0
Learning sciences	80	11	64	5	0	3	5	46	3	0	2
School psychology (education)	126	8	113	9	1	12	10	72	5	1	3
Social and philosophical foundations of education	78	14	60	11	2	5	7	31	2	0	2
Special education	262	41	211	17	2	10	20	151	7	2	2
Teacher education	104	16	87	4	0	2	15	64	2	0	0
Teaching fields	960	165	772	61	3	48	86	538	20	7	9
Health education	54	2	51	4	0	2	23	21	1	0	0
Literacy and reading education	127	19	101	9	0	4	6	78	2	0	2
Mathematics education	153	28	123	5	2	10	14	83	6	2	1
Music education	78	9	67	2	0	3	7	50	2	2	1
Science education	116	14	98	10	0	6	10	65	5	2	0
Teaching fields, aggregated	432	93	332	31	1	23	26	241	4	1	5
Other education	429	63	328	38	7	22	51	185	10	3	12
Workforce education and development	35	3	30	0	0	1	8	19	1	0	1
Education, general	216	34	154	24	1	17	19	78	3	2	10
Education, other	178	26	144	14	6	4	24	88	6	1	1
Humanities and arts	5,054	827	3,988	337	10	204	179	3,005	105	44	104
Foreign languages and literature	610	202	383	90	1	19	10	245	7	4	7
French	100	36	62	5	0	0	5	50	0	1	1
Germanic language and literature	74	20	51	4	0	0	1	41	2	1	2

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Spanish language and literature	161	47	110	57	0	2	2	47	0	1	1	
Other languages, aggregated	275	99	160	24	1	17	2	107	5	1	3	
History	912	130	741	58	3	28	32	579	19	6	16	
American history, United States and Canada	319	14	302	17	2	5	14	247	9	1	7	
Asian history	71	36	34	0	0	7	0	25	2	0	0	
European history	149	19	127	6	0	1	0	118	2	0	0	
Latin American history	71	17	53	24	0	1	2	24	2	0	0	
Middle, Near East history	61	17	41	0	0	5	0	31	1	3	1	
History, general	139	17	92	4	0	6	7	65	3	0	7	
History, aggregated	102	10	92	7	1	3	9	69	0	2	1	
Letters	1,387	149	1,188	77	4	48	38	946	29	13	33	
American literature, United States and Canada	255	19	235	14	0	10	9	191	8	3	0	
Classics	96	11	79	3	1	1	1	69	2	0	2	
Comparative literature	165	47	111	7	0	7	6	86	1	1	3	
English language	120	15	77	8	1	3	4	41	2	3	15	
English literature, British and Commonwealth	378	36	338	19	1	15	7	286	7	1	2	
Rhetoric and composition	191	7	183	9	1	4	7	153	5	2	2	
Speech and rhetorical studies	50	4	46	4	0	3	3	25	0	2	9	
Letters, aggregated	132	10	119	13	0	5	1	95	4	1	0	
Other humanities and arts	2,145	346	1,676	112	2	109	99	1,235	50	21	48	
African American studies, literature, and history	65	6	58	5	0	0	33	15	4	0	1	
Art history, criticism, and conservation	250	28	210	18	0	19	1	153	14	2	3	
Dance, drama	109	10	95	9	0	5	3	72	2	2	2	
Film, cinema, video studies	112	26	85	8	0	5	4	66	2	0	0	
Music	57	7	44	6	0	2	0	24	0	0	12	
Musicology and ethnomusicology	128	16	106	4	1	7	4	86	1	1	2	
Music performance	76	20	50	1	0	4	2	40	1	1	1	
Music theory and composition	111	23	85	5	0	4	2	71	2	1	0	
Philosophy, ethics	474	86	367	23	0	19	15	285	10	4	11	

Table 22**Doctorate recipients, by subfield of study, citizenship status, ethnicity, and race: 2019**

(Number)

Field 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		
Religion / religious studies, Jewish / Judaic studies	245	31	193	12	0	18	11	137	7	3	5
Theology, religious education	202	29	163	9	0	10	10	121	3	4	6
Other humanities, aggregated	316	64	220	12	1	16	14	165	4	3	5
Other ^b	3,034	1,108	1,720	111	7	190	246	1,069	36	24	37
Business management and administration	1,536	690	747	42	1	124	106	441	11	10	12
Accounting	162	66	91	1	0	17	3	65	2	2	1
Business administration and management	265	125	123	6	1	19	21	68	2	2	4
Finance	235	138	85	4	0	25	6	49	0	0	1
Human resources, organizational behavior	249	45	187	11	0	18	41	107	5	2	3
Management information systems, business statistics	99	58	40	0	0	10	8	22	0	0	0
Marketing management and research	107	62	42	3	0	9	1	28	1	0	0
Other aggregated business fields	419	196	179	17	0	26	26	102	1	4	3
Communication	543	163	349	24	1	21	35	243	7	6	12
Communication research	161	49	105	7	1	4	10	78	2	1	2
Mass communication, media studies	171	62	102	10	0	8	14	62	1	2	5
Communication, general	118	25	82	4	0	7	3	62	2	1	3
Communication, aggregated	93	27	60	3	0	2	8	41	2	2	2
Non-S&E fields nec	955	255	624	45	5	45	105	385	18	8	13
Architecture and environmental design	128	56	70	3	0	11	3	50	2	1	0
Family, consumer sciences and human sciences	78	23	53	3	0	4	13	28	2	1	2
Parks, sports, recreation, leisure and fitness	53	15	35	1	2	1	2	28	1	0	0
Public administration	208	42	149	11	0	8	42	80	5	3	0
Social work	330	45	266	24	3	12	44	165	7	2	9

Table 22**Doctorate recipients, by subfield of study, citizenship status, ethnicity, and race: 2019**

(Number)

Field of study	All doctorate recipients ^a	Temporary visa holders	U.S. citizens and permanent residents								
			Total	Hispanic or Latino	Not Hispanic or Latino					Ethnicity not reported	
					American Indian or Alaska Native	Asian	Black or African American	White	More than one race		Other race or race not reported
Fields nec, aggregated	158	74	51	3	0	9	1	34	1	1	2

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.