

TABLE 22

Doctorate recipients, by subfield of study, citizenship status, ethnicity, and race: 2017

(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						Ethnicity not reported
					American Indian or Alaska Native	Asian	Black or African American	White	More than one race	Other race or race not reported	
All fields	54,664	16,323	35,791	2,540	109	3,502	2,409	24,880	1,016	471	864
Life sciences	12,592	3,329	8,857	606	25	1,014	577	6,059	286	107	183
Agricultural sciences and natural resources	1,606	627	902	49	2	62	41	674	19	13	42
Agricultural economics	144	91	50	2	0	4	3	38	0	0	3
Agronomy, horticulture science, plant breeding, plant pathology, plant sciences-other	368	157	202	11	1	17	5	150	5	0	13
Animal nutrition, poultry science	51	20	30	4	0	0	1	24	0	0	1
Animal sciences, other	105	36	67	3	0	2	1	55	3	0	3
Environmental science	222	69	128	7	0	12	9	95	2	1	2
Fishing and fisheries sciences and management	69	16	49	2	0	1	5	36	2	1	2
Food science, food technology-other	177	102	67	6	0	6	8	43	0	0	4
Forest biology, forest management, wood science, forestry sciences-other	165	49	101	1	1	10	5	66	1	9	8
Natural resource and environmental policy	54	8	46	2	0	2	1	37	2	0	2
Natural resources and conservation, wildlife and range management	82	26	55	4	0	0	2	48	1	0	0
Soil chemistry and microbiology	43	7	32	2	0	2	1	22	0	1	4
Soil sciences, other	52	24	28	1	0	3	0	22	2	0	0
Agricultural sciences, aggregated	74	22	47	4	0	3	0	38	1	1	0
Biological and biomedical sciences	8,477	2,163	6,082	441	14	770	297	4,190	207	65	98
Anatomy, developmental biology	139	38	96	17	0	15	3	58	2	1	0
Bacteriology, parasitology, and virology	138	31	107	3	2	6	4	83	5	1	3
Biochemistry (biological sciences)	815	263	531	46	1	73	23	350	19	9	10
Bioinformatics	183	84	95	6	0	25	7	55	2	0	0
Biomedical sciences	341	88	242	19	0	45	19	137	12	3	7

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Biometrics and biostatistics	216	102	108	5	0	25	8	65	3	0	2	
Biophysics (biological sciences)	208	59	140	9	2	19	7	88	5	2	8	
Botany, plant pathology, plant physiology	127	42	79	7	0	2	2	60	6	1	1	
Cancer biology	364	107	248	25	1	44	17	151	5	0	5	
Cell, cellular biology, and histology	234	68	156	14	1	22	6	101	7	1	4	
Computational biology	147	52	92	3	0	14	5	64	4	0	2	
Ecology	432	60	366	11	1	13	2	324	11	2	2	
Endocrinology, human/animal pathology	90	16	67	4	0	8	7	41	2	1	4	
Entomology	129	34	92	6	0	6	1	77	0	1	1	
Environmental toxicology (biological sciences)	64	12	51	4	0	6	5	31	2	1	2	
Epidemiology	351	63	282	19	1	43	27	183	7	0	2	
Evolutionary biology	224	45	176	18	0	9	1	140	6	2	0	
Genetics and genomics, human and animal	345	91	243	13	1	32	6	174	11	4	2	
Immunology	401	83	306	25	0	51	11	199	12	2	6	
Microbiology	410	90	318	28	1	32	17	228	12	0	0	
Molecular biology	624	173	439	29	1	53	21	315	8	7	5	
Molecular medicine	67	10	56	3	0	8	8	33	2	2	0	
Neurosciences, neurobiology	985	164	798	63	1	98	30	551	34	13	8	
Nutrition sciences	215	53	155	7	1	16	13	108	5	0	5	
Pharmacology, human and animal	236	70	157	10	0	21	10	108	5	1	2	
Physiology, human and animal	165	33	128	10	0	15	8	90	3	2	0	
Plant genetics	49	17	32	0	0	3	0	24	4	0	1	
Structural biology	55	17	37	3	0	4	1	29	0	0	0	
Toxicology	81	20	60	5	0	7	6	36	1	3	2	
Wildlife biology	62	9	53	4	0	0	0	45	2	1	1	
Zoology	44	8	35	3	0	3	2	27	0	0	0	
Biological and biomedical sciences, general	391	106	250	13	0	37	15	164	8	3	10	
Biotechnology, biology/biomedical sciences-other	145	55	87	9	0	15	5	51	2	2	3	
Health sciences	2,509	539	1,873	116	9	182	239	1,195	60	29	43	
Environmental health	84	25	57	4	0	9	5	37	2	0	0	
Health and behavior	82	12	67	6	1	6	18	31	3	1	1	

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Health services/systems administration	203	49	145	7	0	24	21	85	3	0	5
Kinesiology, exercise science	276	40	231	14	0	8	8	187	5	0	9
Medical physics, radiological science	89	30	59	6	0	8	0	42	2	0	1
Nursing science	552	62	465	23	6	32	50	326	18	3	7
Pharmaceutical sciences	292	155	123	7	0	29	14	62	3	4	4
Public health	446	63	369	30	0	30	98	189	16	4	2
Rehabilitation, therapeutic services	86	22	60	5	0	3	2	45	2	0	3
Speech-language pathology and audiology	128	21	99	5	1	11	5	75	1	0	1
Health sciences, aggregated	271	60	198	9	1	22	18	116	5	17	10
Physical sciences and earth sciences	6,081	2,156	3,717	216	6	357	94	2,824	112	51	57
Chemistry	2,697	921	1,691	96	4	180	55	1,246	58	24	28
Analytical chemistry	367	138	226	12	0	20	9	172	8	5	0
Chemical biology	142	28	111	9	0	15	2	76	8	1	0
Inorganic chemistry	339	87	249	13	1	13	8	207	7	0	0
Medicinal chemistry	69	28	40	0	0	8	3	27	1	0	1
Organic chemistry	523	190	328	20	0	35	8	244	13	5	3
Physical chemistry	332	113	217	9	0	20	6	171	8	3	0
Polymer chemistry	152	79	73	4	2	10	1	52	4	0	0
Theoretical chemistry	85	34	51	2	1	2	3	43	0	0	0
Chemistry, general	539	174	297	14	0	44	9	192	5	9	24
Chemistry, other	149	50	99	13	0	13	6	62	4	1	0
Geosciences, atmospheric sciences, and ocean sciences	1,165	332	787	54	2	46	14	628	21	12	10
Atmospheric science and meteorology	243	76	162	9	0	20	3	123	4	2	1
Atmospheric physics, meteorology	45	15	30	1	0	1	0	27	1	0	0
Atmospheric chemistry, atmospheric sciences-general, atmospheric sciences-other	198	61	132	8	0	19	3	96	3	2	1
Geological sciences	576	178	364	23	1	13	8	305	6	6	2
Geochemistry, mineralogy	78	15	61	3	0	4	1	51	1	1	0
Geology	124	34	87	3	1	0	1	80	1	0	1

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Geomorphology, geological sciences-general, geological sciences-other	211	56	134	9	0	8	2	109	2	4	0
Geophysics and seismology	124	64	52	6	0	1	3	39	1	1	1
Paleontology, stratigraphy	39	9	30	2	0	0	1	26	1	0	0
Ocean and marine sciences	346	78	261	22	1	13	3	200	11	4	7
Marine biology and biological oceanography	111	14	95	12	1	2	2	69	5	2	2
Oceanography, chemical and physical	70	19	49	4	0	4	0	38	2	0	1
Ocean/marine sciences, aggregated	165	45	117	6	0	7	1	93	4	2	4
Physics and astronomy	2,219	903	1,239	66	0	131	25	950	33	15	19
Astronomy and astrophysics	336	91	237	9	0	19	3	192	10	3	1
Astronomy	121	31	88	2	0	3	1	78	4	0	0
Astrophysics	211	59	146	7	0	16	2	111	6	3	1
Astronomy and astrophysics, other	4	1	3	0	0	0	0	3	0	0	0
Physics	1,883	812	1,002	57	0	112	22	758	23	12	18
Acoustics, optics/ photonics	213	97	109	7	0	15	3	81	2	1	0
Applied physics	178	70	98	8	0	8	7	68	5	0	2
Atomic physics, polymer physics	157	82	75	2	0	9	1	59	2	2	0
Biophysics (physics)	134	64	68	3	0	10	1	52	2	0	0
Condensed matter, low-temperature physics	343	182	159	10	0	22	4	118	3	2	0
Elementary particle physics	354	139	186	10	0	25	2	130	2	3	14
Nuclear physics	103	33	70	4	0	3	1	59	3	0	0
Plasma, high-temperature physics	65	16	49	5	0	2	0	41	1	0	0
Physics, general	248	97	133	6	0	16	2	106	0	3	0
Physics, other	88	32	55	2	0	2	1	44	3	1	2
Mathematics and computer sciences	3,843	1,931	1,746	79	1	276	49	1,181	50	40	70
Computer and information sciences	1,987	1,101	796	43	0	139	32	515	21	17	29
Computer science	1,587	931	593	28	0	102	16	392	19	12	24

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Information science, systems	162	54	94	6	0	18	10	57	1	2	0
Computer and information sciences, general	123	75	45	3	0	5	5	28	1	1	2
Computer and information sciences, other	115	41	64	6	0	14	1	38	0	2	3
Mathematics and statistics	1,856	830	950	36	1	137	17	666	29	23	41
Algebra	103	27	74	1	0	6	1	64	2	0	0
Analysis and functional analysis	78	31	47	3	0	5	1	37	0	0	1
Applied mathematics, computing theory	497	240	248	10	0	32	3	185	8	5	5
Geometry, geometric analysis	63	32	30	3	0	2	0	23	2	0	0
Logic, topology/foundations	62	21	38	2	0	3	0	33	0	0	0
Number theory	55	23	31	1	0	4	0	23	3	0	0
Operations research, mathematics/statistics-general, mathematics/statistics-other	496	220	252	9	0	31	5	185	6	9	7
Statistics (mathematics)	502	236	230	7	1	54	7	116	8	9	28
Psychology and social sciences	9,079	1,680	6,874	578	26	532	531	4,763	205	68	171
Psychology	3,960	295	3,403	291	10	220	229	2,453	105	19	76
Behavioral analysis	51	0	48	5	0	1	5	35	1	0	1
Clinical psychology	1,149	37	1,044	99	3	77	68	751	32	9	5
Cognitive neuroscience	199	30	162	21	1	11	2	121	5	0	1
Cognitive psychology and psycholinguistics	121	14	105	5	1	12	1	80	6	0	0
Community psychology	38	2	35	5	0	1	10	17	1	0	1
Counseling	317	20	275	23	2	22	31	171	7	4	15
Developmental and child psychology	201	30	169	9	0	14	9	129	6	0	2
Educational psychology (psychology)	139	10	114	11	0	0	13	79	1	0	10
Experimental psychology	159	14	139	9	1	4	2	116	5	1	1
Family psychology, human development and family studies	211	32	171	11	1	10	11	133	1	0	4
Health, medical psychology	62	2	59	1	0	4	8	44	1	1	0

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Industrial and organizational psychology	191	16	148	11	0	8	7	114	6	1	1
Marriage and family therapy, counseling	74	5	54	6	0	3	7	35	1	2	0
Neuropsychology, physiological psychology	42	2	40	5	0	2	1	31	1	0	0
School psychology (psychology)	372	15	313	29	0	21	17	212	8	0	26
Social psychology	213	20	190	14	0	12	7	144	12	0	1
Psychology, general	140	14	111	4	0	7	7	80	7	0	6
Psychology, aggregated	281	32	226	23	1	11	23	161	4	1	2
Social sciences	5,119	1,385	3,471	287	16	312	302	2,310	100	49	95
Anthropology	455	65	357	33	1	20	17	263	11	6	6
Anthropology, cultural	261	51	205	22	1	14	15	144	5	3	1
Anthropology, general	110	11	71	6	0	3	1	52	2	2	5
Anthropology, physical and biological	84	3	81	5	0	3	1	67	4	1	0
Economics	1,237	647	539	32	1	87	18	342	18	7	34
Econometrics, economics	1,184	626	508	29	1	87	16	316	18	7	34
Natural resources and environmental economics (social sciences)	53	21	31	3	0	0	2	26	0	0	0
Political science and government	752	141	578	28	1	33	42	435	15	12	12
Sociology	689	94	567	66	1	35	59	369	21	5	11
Other social sciences	1,986	438	1,430	128	12	137	166	901	35	19	32
American, U.S. studies	97	6	87	9	2	6	12	50	4	2	2
Applied linguistics	105	42	60	8	0	12	1	38	0	0	1
Area, ethnic, and cultural studies	168	30	129	30	4	13	32	42	2	2	4
Criminal justice and corrections	108	5	86	8	0	2	11	61	1	0	3
Criminology	94	13	76	3	0	4	7	57	4	0	1
Demography, gerontology, statistics, urban affairs, social sciences- general, social sciences-other	282	56	202	16	3	19	32	125	5	0	2
Gender and women's studies	49	4	41	11	0	2	8	14	1	0	5

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Geography	284	82	191	9	2	13	5	151	3	3	5
Health policy analysis	54	13	38	1	0	3	6	24	1	1	2
International relations, international affairs	149	31	110	5	0	17	9	70	1	4	4
Linguistics	208	62	136	13	1	14	2	95	5	3	3
Public policy analysis	240	40	185	7	0	19	36	117	4	2	0
Urban, city, community and regional planning	148	54	89	8	0	13	5	57	4	2	0
Engineering	9,843	5,070	4,339	286	10	732	169	2,818	114	66	144
Aerospace, aeronautical, and astronautical engineering	378	122	240	16	0	25	8	175	9	1	6
Bioengineering and biomedical engineering	1,041	303	700	43	0	167	23	427	17	9	14
Chemical engineering	936	429	471	25	0	89	10	317	14	2	14
Civil engineering	741	444	243	23	1	30	16	161	2	2	8
Electrical, electronics, and communications engineering	1,900	1,230	586	39	0	142	19	323	16	12	35
Industrial and manufacturing engineering	253	161	86	4	1	16	14	45	1	1	4
Materials science engineering	958	433	483	34	0	65	15	322	24	9	14
Mechanical engineering	1,409	750	592	42	1	79	16	409	9	14	22
Other engineering	2,227	1,198	938	60	7	119	48	639	22	16	27
Computer engineering	419	294	113	6	1	25	4	72	2	0	3
Environmental, environmental health engineering	221	92	121	5	1	17	5	85	1	2	5
Nuclear engineering	159	36	121	5	0	8	3	102	0	1	2
Robotics	98	41	46	3	0	9	0	32	1	0	1
Structural engineering	103	67	35	2	0	4	0	27	0	0	2
Systems engineering	121	40	78	6	1	6	6	56	2	1	0
Other engineering, aggregated	1,106	628	424	33	4	50	30	265	16	12	14
Education	4,823	536	4,047	331	22	224	595	2,657	83	37	98
Education administration	1,023	54	871	73	7	37	186	516	19	7	26
Educational administration and supervision	176	11	135	7	2	2	36	78	2	1	7

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Educational and human resource studies, development	172	8	134	16	0	14	26	63	1	1	13
Educational leadership	591	30	527	44	5	16	101	345	9	4	3
Urban education and leadership	84	5	75	6	0	5	23	30	7	1	3
Education research	2,405	305	2,018	166	7	124	270	1,347	39	19	46
Counseling education, counseling and guidance	269	23	234	24	1	6	49	144	5	1	4
Curriculum and instruction	514	67	417	29	3	25	42	289	6	7	16
Educational assessment, testing, measurement	41	14	26	0	0	5	3	16	2	0	0
Educational policy analysis	127	13	111	10	0	12	25	63	1	0	0
Educational psychology (education)	229	37	192	14	0	16	16	135	3	4	4
Educational statistics, research methods	83	17	62	0	1	9	3	45	1	0	3
Educational/instructional technology, media design	252	57	186	8	2	13	23	129	3	0	8
Higher education evaluation and research	434	16	404	36	0	15	79	252	12	3	7
International education	45	11	34	10	0	4	1	18	1	0	0
School psychology (education)	107	7	99	12	0	2	6	76	1	1	1
Social and philosophical foundations of education	66	7	56	8	0	7	7	31	0	2	1
Special education	238	36	197	15	0	10	16	149	4	1	2
Teacher education	112	11	96	4	1	4	13	70	3	0	1
Teaching fields	908	133	745	60	3	42	75	535	12	7	11
English as a second or foreign language	56	28	26	5	0	1	0	18	1	0	1
Health education	65	7	56	1	0	4	17	29	1	2	2
Literacy and reading education	139	14	117	10	1	4	8	88	2	0	4
Mathematics education	146	20	122	10	0	5	17	86	2	2	0
Music education	75	7	66	2	1	3	4	54	0	1	1
Science education	101	15	83	4	0	4	5	68	0	1	1

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Teaching fields, aggregated	326	42	275	28	1	21	24	192	6	1	2	
Other education	375	33	317	28	4	17	51	189	10	4	14	
Workforce education and development	60	13	42	4	1	2	7	23	2	1	2	
Education, general	145	4	129	14	1	7	21	81	2	0	3	
Education, other	170	16	146	10	2	8	23	85	6	3	9	
Humanities and arts	5,290	693	4,290	309	16	181	148	3,354	115	77	90	
Foreign languages and literature	624	160	433	86	2	19	5	291	13	6	11	
French	92	16	72	3	1	1	1	60	2	2	2	
Germanic language and literature	72	18	48	3	1	1	1	39	0	2	1	
Italian	45	11	33	0	0	0	0	31	2	0	0	
Spanish language and literature	182	48	122	50	0	1	1	67	1	1	1	
Other languages, aggregated	233	67	158	30	0	16	2	94	8	1	7	
History	1,066	125	895	67	4	26	44	707	18	19	10	
American history, United States and Canada	368	14	347	25	2	6	25	277	6	5	1	
Asian history	55	22	33	1	0	8	1	20	3	0	0	
European history	173	17	154	2	0	4	3	141	2	1	1	
History, science and technology and society	160	22	109	7	1	5	3	80	2	5	6	
Latin American history	61	13	47	15	0	0	4	25	0	2	1	
Middle, Near East history	70	18	51	3	0	1	0	43	0	3	1	
History, general	70	12	54	7	0	1	3	41	2	0	0	
History, aggregated	109	7	100	7	1	1	5	80	3	3	0	
Letters	1,465	125	1,274	78	6	53	45	1,011	27	29	25	
American literature, United States and Canada	311	17	292	17	1	11	14	236	10	3	0	
Classics	80	10	68	2	0	3	0	59	2	2	0	
Comparative literature	166	39	120	9	0	9	7	88	3	0	4	
English language	159	12	108	5	2	6	4	66	0	8	17	
English literature, British and Commonwealth	369	28	338	19	2	17	7	274	10	8	1	
Rhetoric and composition	227	10	210	17	1	4	8	175	1	3	1	
Speech and rhetorical studies	42	3	37	1	0	0	1	32	0	2	1	
Letters, aggregated	111	6	101	8	0	3	4	81	1	3	1	
Other humanities and arts	2,135	283	1,688	78	4	83	54	1,345	57	23	44	

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(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					
Archaeology (humanities)	126	20	105	2	1	2	3	95	2	0	0		
Art history, criticism, and conservation	247	32	206	11	1	15	5	158	9	3	4		
Dance, drama	86	5	74	7	0	2	2	59	3	1	0		
Film, cinema, video studies	79	16	59	1	0	2	5	45	6	0	0		
Music	74	5	32	1	0	1	0	21	0	1	8		
Musicology and ethnomusicology	157	14	140	8	1	6	3	114	3	4	1		
Music performance	90	19	69	4	0	7	0	54	2	1	1		
Music theory and composition	86	16	69	2	0	4	3	56	3	1	0		
Philosophy, ethics	449	65	352	20	0	11	4	293	8	4	12		
Religion/religious studies, Jewish/Judaic studies	338	36	266	7	0	16	16	209	11	2	5		
Theology, religious education	166	22	129	5	0	9	7	98	4	1	5		
Other humanities, aggregated	237	33	187	10	1	8	6	143	6	5	8		
Other ^b	3,113	928	1,921	135	3	186	246	1,224	51	25	51		
Business management and administration	1,522	576	830	59	0	113	94	504	21	15	24		
Accounting	153	52	97	3	0	11	9	69	4	1	0		
Business administration and management	273	99	151	9	0	24	13	86	6	4	9		
Finance	188	99	75	5	0	16	5	47	1	1	0		
Human resources, organizational behavior	296	46	215	22	0	11	39	125	3	7	8		
Management information systems, business statistics	90	53	37	4	0	6	5	18	2	0	2		
Marketing management and research	139	53	78	5	0	14	7	47	2	1	2		
Other aggregated business fields	383	174	177	11	0	31	16	112	3	1	3		
Communication	626	121	463	26	1	29	46	330	14	4	13		
Communication research	111	30	76	5	0	6	7	54	3	0	1		
Mass communication, media studies	231	56	160	10	1	8	18	113	2	3	5		
Communication, general	146	19	115	4	0	10	11	85	3	0	2		
Communication, aggregated	138	16	112	7	0	5	10	78	6	1	5		

TABLE 22

Doctorate recipients, by subfield of study, citizenship status, ethnicity, and race: 2017

(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		
Non-S&E fields nec	965	231	628	50	2	44	106	390	16	6	14
Architecture and environmental design	118	51	59	2	0	6	1	46	1	3	0
Family, consumer sciences and human sciences	79	23	52	2	0	5	13	24	2	1	5
Parks, sports, recreation, leisure and fitness	49	14	34	1	0	2	5	23	3	0	0
Public administration	185	48	130	11	1	4	34	78	0	1	1
Social work	298	23	252	25	0	21	42	151	9	0	4
Fields nec, aggregated	236	72	101	9	1	6	11	68	1	1	4

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

^a Includes 2,550 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 Science Foundation, National Center for Science and Engineering Statistics, Survey of Earned Doctorates, 2017.