

Table 22. Doctorate recipients, by subfield of study, citizenship status, ethnicity, and race: 2015

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
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All fields	55,006	16,155	35,117	2,451	130	3,072	2,281	25,407	905	249	622
Life sciences	12,520	3,262	8,484	632	22	922	452	6,045	240	55	116
Agricultural sciences and natural resources	1,439	558	774	52	1	49	29	605	18	7	13
Agricultural economics	102	53	37	2	0	5	2	27	0	0	1
Agronomy, horticulture science, plant breeding, plant pathology, plant sciences-other	326	136	177	12	1	13	8	133	4	3	3
Animal nutrition, poultry science	71	30	41	2	0	1	0	38	0	0	0
Animal sciences, other	90	35	46	5	0	1	1	37	1	0	1
Environmental science	183	54	112	12	0	8	8	76	2	3	3
Fishing and fisheries sciences and management	60	15	41	0	0	0	0	39	1	0	1
Food science, food technology-other	172	102	58	5	0	10	2	40	0	0	1
Forest biology, forest management, wood science, forestry sciences-other	112	39	50	2	0	3	3	40	1	0	1
Natural resources and conservation, wildlife and range management	119	28	85	1	0	4	1	74	3	0	2
Natural resource and environmental policy	57	11	46	3	0	1	1	37	3	1	0
Soil chemistry, soil sciences-other	71	28	42	5	0	1	1	33	2	0	0
Agricultural sciences, aggregated	76	27	39	3	0	2	2	31	1	0	0
Biological and biomedical sciences	8,801	2,261	6,043	481	12	731	224	4,297	190	38	70
Anatomy, developmental biology	212	62	147	18	0	21	5	98	4	0	1
Bacteriology, parasitology	53	9	44	6	0	1	2	35	0	0	0
Biochemistry (biological sciences)	749	251	465	31	1	55	11	333	21	8	5
Bioinformatics	175	61	89	3	0	19	2	61	4	0	0
Biomedical sciences	416	128	267	21	1	35	15	180	11	1	3
Biometrics and biostatistics	171	84	76	1	0	27	3	44	1	0	0

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Biophysics (biological sciences)	181	61	117	11	2	12	2	84	3	1	2
Botany, plant pathology, plant physiology	135	57	71	11	0	6	0	50	1	0	3
Cancer biology	455	145	293	24	0	48	16	197	5	1	2
Cell, cellular biology, and histology	321	81	221	15	1	27	6	162	6	1	3
Computational biology	107	56	49	1	0	8	0	37	0	0	3
Ecology	455	52	388	25	2	10	4	331	12	0	4
Endocrinology, human/animal pathology	109	31	69	5	0	8	5	50	1	0	0
Entomology	110	34	71	5	0	4	1	55	1	1	4
Environmental toxicology, toxicology	140	21	111	7	0	13	3	86	2	0	0
Epidemiology	381	65	296	26	0	31	25	199	9	4	2
Evolutionary biology	209	42	167	14	0	15	1	128	8	1	0
Genetics-human/animal, plant genetics	415	113	280	21	0	32	8	203	9	2	5
Immunology	473	98	362	23	0	65	21	240	7	3	3
Microbiology	480	94	356	38	2	25	14	247	17	3	10
Molecular biology	631	188	399	40	0	50	21	270	11	2	5
Neurosciences, neurobiology	1,091	210	843	65	0	106	30	597	34	5	6
Nutrition sciences	186	53	118	11	0	13	1	88	3	1	1
Pharmacology, human and animal	243	59	158	10	1	24	13	108	0	2	0
Physiology, human and animal	210	37	161	8	1	16	7	123	5	0	1
Structural biology	64	20	41	3	0	9	2	26	1	0	0
Virology	164	39	122	12	0	15	2	84	9	0	0
Wildlife biology	47	3	44	1	0	0	0	43	0	0	0
Zoology	46	11	32	1	0	1	0	29	1	0	0
Biological and biomedical sciences, general	261	66	119	14	1	24	2	65	4	2	7
Biotechnology, biology/biomedical sciences-other	111	30	67	10	0	11	2	44	0	0	0

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Health sciences	2,280	443	1,667	99	9	142	199	1,143	32	10	33
Environmental health, public health	518	67	428	34	3	45	88	241	5	3	9
Health and behavior	126	15	107	11	1	6	24	65	0	0	0
Health systems administration	70	16	50	1	0	6	8	33	1	0	1
Kinesiology, exercise science	264	56	180	6	2	7	10	152	2	1	0
Medical physics, radiological science	84	22	60	5	1	7	3	38	4	1	1
Nursing science	536	37	456	22	1	25	49	339	10	0	10
Pharmaceutical sciences	270	132	104	4	0	26	3	63	3	2	3
Rehabilitation, therapeutic services	87	15	68	3	0	3	5	55	0	1	1
Speech-language pathology and audiology	116	27	87	5	0	4	3	72	3	0	0
Health sciences, aggregated	209	56	127	8	1	13	6	85	4	2	8
Physical sciences and earth sciences	5,924	2,104	3,481	180	9	272	101	2,754	89	16	60
Chemistry	2,675	933	1,574	86	5	145	73	1,182	46	7	30
Analytical chemistry	389	147	239	15	1	24	13	171	11	1	3
Inorganic chemistry	354	112	238	13	1	19	10	185	8	0	2
Medicinal chemistry	79	29	44	5	0	5	4	28	1	0	1
Organic chemistry	627	221	395	22	0	39	16	295	14	2	7
Physical chemistry	368	122	245	8	1	19	10	194	5	2	6
Polymer chemistry	135	64	70	5	0	5	5	53	1	0	1
Theoretical chemistry	111	38	72	3	0	4	1	63	1	0	0
Chemistry, general	401	121	145	10	1	14	6	98	4	2	10
Chemistry, other	211	79	126	5	1	16	8	95	1	0	0
Geosciences, atmospheric, and ocean sciences	1,057	307	704	43	2	24	13	589	16	2	15
Atmospheric science and meteorology	213	62	145	7	0	9	3	122	2	1	1
Atmospheric physics, meteorology	89	21	68	5	0	4	1	56	0	1	1

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Atmospheric chemistry, atmospheric sciences-general, atmospheric sciences-other	124	41	77	2	0	5	2	66	2	0	0
Geological sciences	554	159	363	25	1	11	6	299	13	1	7
Geochemistry, mineralogy	115	26	88	7	1	3	1	74	1	0	1
Geology	135	30	98	8	0	4	2	80	3	0	1
Geomorphology, geological sciences-general, geological sciences-other	134	33	88	3	0	2	0	75	5	0	3
Geophysics and seismology	123	60	53	4	0	2	3	41	0	1	2
Paleontology, stratigraphy	47	10	36	3	0	0	0	29	4	0	0
Ocean and marine sciences	290	86	196	11	1	4	4	168	1	0	7
Marine biology and biological oceanography	85	12	72	8	0	1	1	62	0	0	0
Oceanography, chemical and physical	67	27	38	0	0	2	0	32	0	0	4
Ocean/marine sciences, aggregated	138	47	86	3	1	1	3	74	1	0	3
Physics and astronomy	2,192	864	1,203	51	2	103	15	983	27	7	15
Astronomy and astrophysics	269	68	190	9	0	11	2	161	6	0	1
Astronomy	86	18	59	4	0	3	1	47	3	0	1
Astrophysics	174	47	125	4	0	8	1	109	3	0	0
Astronomy and astrophysics, other	9	3	6	1	0	0	0	5	0	0	0
Physics	1,923	796	1,013	42	2	92	13	822	21	7	14
Acoustics, optics/photonics	235	96	135	3	1	14	3	109	3	1	1
Applied physics	145	52	81	3	0	12	4	58	1	1	2
Atomic physics, polymer physics	151	54	87	2	0	7	1	77	0	0	0
Biophysics (physics)	127	58	64	1	0	8	0	53	2	0	0
Condensed matter, low- temperature physics	439	240	195	11	0	17	4	155	5	1	2
Elementary particle physics	243	87	154	12	0	14	0	119	7	0	2

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Nuclear physics	86	29	56	2	0	3	0	49	1	1	0
Plasma, high-temperature physics	88	22	65	2	0	3	0	56	2	1	1
Physics, general	284	101	108	4	0	8	1	88	0	2	5
Physics, other	125	57	68	2	1	6	0	58	0	0	1
Mathematics and computer sciences	3,825	1,924	1,661	75	1	204	53	1,215	35	19	59
Computer and information sciences	2,005	1,096	773	35	1	108	28	544	18	9	30
Computer science	1,661	952	603	27	0	87	15	433	13	9	19
Information science, systems	157	51	87	3	1	9	9	55	4	0	6
Computer and information sciences, general	117	75	40	3	0	9	1	27	0	0	0
Computer and information sciences, other	70	18	43	2	0	3	3	29	1	0	5
Mathematics and statistics	1,820	828	888	40	0	96	25	671	17	10	29
Algebra	146	47	98	6	0	2	0	85	3	0	2
Analysis and functional analysis	161	72	88	3	0	9	2	71	0	2	1
Applied mathematics, computing theory	461	231	216	13	0	17	7	164	3	1	11
Geometry, geometric analysis	108	48	59	0	0	6	1	44	5	3	0
Logic, topology/foundations	108	40	67	4	0	6	0	53	2	0	2
Number theory	88	29	59	2	0	7	1	47	0	1	1
Operations research, mathematics/statistics-general, mathematics/statistics-other	365	152	145	7	0	15	6	108	1	2	6
Statistics (mathematics)	383	209	156	5	0	34	8	99	3	1	6
Psychology and social sciences	9,095	1,625	6,698	499	31	439	536	4,819	194	59	121
Psychology	3,782	260	3,107	247	11	189	241	2,260	81	19	59
Behavioral analysis	63	3	57	2	0	1	4	47	3	0	0
Clinical psychology	1,179	33	1,044	100	3	59	72	742	30	11	27
Cognitive psychology and psycholinguistics	220	44	171	7	0	14	3	142	3	2	0
Counseling	419	22	357	30	2	19	37	253	11	1	4

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Developmental and child psychology	190	15	163	11	0	21	14	107	3	2	5
Educational psychology (psychology)	60	9	30	3	0	0	10	17	0	0	0
Experimental psychology	143	18	114	8	1	4	3	92	4	0	2
Family psychology, human development and family studies	191	25	144	16	1	8	21	94	1	0	3
Health, medical psychology	101	3	93	11	0	4	10	64	4	0	0
Industrial and organizational psychology	221	14	171	16	1	10	14	121	6	1	2
Neuropsychology, physiological psychology	129	14	110	6	1	9	2	90	2	0	0
School psychology (psychology)	115	2	105	4	0	6	8	84	3	0	0
Social psychology	219	24	192	10	0	16	11	149	5	0	1
Psychology, general	292	16	155	15	1	11	11	101	1	2	13
Psychology, aggregated	240	18	201	8	1	7	21	157	5	0	2
Social sciences	5,313	1,365	3,591	252	20	250	295	2,559	113	40	62
Anthropology	493	69	397	38	4	25	17	288	13	8	4
Anthropology, cultural	317	53	258	25	3	21	15	176	12	4	2
Anthropology, general	100	10	69	7	0	3	0	52	1	4	2
Anthropology, physical and biological	76	6	70	6	1	1	2	60	0	0	0
Economics	1,256	607	552	34	2	73	15	396	15	4	13
Econometrics, economics	1,209	586	526	32	2	68	15	378	14	4	13
Natural resources and environmental economics (social sciences)	47	21	26	2	0	5	0	18	1	0	0
Political science and government	859	178	621	36	1	29	46	467	16	7	19
Sociology	745	101	598	50	1	33	53	426	25	4	6
Other social sciences	1,960	410	1,423	94	12	90	164	982	44	17	20
American, U.S. studies	130	6	116	11	2	7	16	70	7	2	1

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Area, ethnic, cultural, and gender studies	115	20	79	12	3	12	19	25	5	1	2
Criminal justice and corrections	111	14	90	2	3	3	14	65	2	1	0
Criminology	105	8	95	4	0	0	7	78	5	1	0
Demography, gerontology, statistics, urban affairs, social sciences- general, social sciences-other	300	57	226	15	1	9	28	161	5	4	3
Geography	302	67	210	12	0	12	4	173	4	1	4
Health policy analysis	82	10	63	1	0	5	7	49	0	1	0
International relations, international affairs	104	26	65	4	0	7	8	43	1	1	1
Linguistics	288	97	176	17	1	12	4	131	8	1	2
Public policy analysis	295	52	233	9	1	14	50	143	6	4	6
Urban, city, community and regional planning	128	53	70	7	1	9	7	44	1	0	1
Engineering	9,897	5,122	4,223	294	7	649	165	2,869	108	31	100
Aerospace, aeronautical, and astronautical engineering	361	132	216	12	0	12	9	169	8	1	5
Bioengineering and biomedical engineering	1,129	349	725	51	3	160	20	449	26	5	11
Chemical engineering	1,002	461	488	27	2	73	9	351	8	5	13
Civil engineering	633	360	230	16	0	23	18	166	3	1	3
Electrical, electronics, and communications engineering	2,004	1,243	632	43	0	137	28	383	18	4	19
Industrial and manufacturing engineering	244	161	65	6	0	8	5	40	3	3	0
Materials science engineering	874	450	382	32	0	58	12	260	10	2	8
Mechanical engineering	1,467	784	620	33	0	73	18	459	11	2	24
Other engineering	2,183	1,182	865	74	2	105	46	592	21	8	17
Computer engineering	412	265	109	7	0	20	5	75	2	0	0
Environmental, environmental health engineering	283	119	152	15	1	25	8	96	5	1	1

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Nuclear engineering	130	41	87	4	0	5	1	67	3	1	6
Robotics	82	44	38	4	0	4	0	23	3	0	4
Structural engineering	125	71	54	5	0	5	3	40	1	0	0
Systems engineering	105	36	69	6	0	6	9	44	1	0	3
Other engineering, aggregated	1,046	606	356	33	1	40	20	247	6	6	3
Education	5,117	539	4,209	315	28	195	635	2,856	89	23	68
Education administration	922	35	798	44	7	20	198	493	16	4	16
Educational administration and supervision	169	7	144	7	1	8	39	76	3	1	9
Educational and human resource studies, development	68	10	57	4	0	3	15	31	3	0	1
Educational leadership	622	18	536	29	6	7	114	363	9	2	6
Urban education and leadership	63	0	61	4	0	2	30	23	1	1	0
Education research	2,783	327	2,282	189	16	116	308	1,574	50	12	17
Counseling education, counseling and guidance	294	18	253	26	0	7	54	160	5	0	1
Curriculum and instruction	589	78	460	40	1	27	56	318	12	4	2
Educational assessment, testing, measurement	65	13	49	4	0	5	4	35	1	0	0
Educational policy analysis	168	22	141	13	2	11	18	94	2	0	1
Educational psychology (education)	286	46	215	13	2	12	32	147	8	0	1
Educational statistics, research methods	92	24	63	4	0	4	3	48	2	1	1
Educational/instructional technology, media design	231	48	172	7	5	17	16	122	1	2	2
Higher education evaluation and research	522	25	474	41	4	19	80	310	11	4	5
International education	55	14	39	6	0	2	1	27	0	0	3
School psychology (education)	133	3	124	9	0	5	15	93	2	0	0
Social and philosophical foundations of education	90	8	77	14	0	3	9	48	2	0	1
Special education	258	28	215	12	2	4	20	172	4	1	0

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Teacher education	155	13	132	6	0	8	20	97	0	0	1
Teaching fields	957	145	765	49	4	44	71	563	19	7	8
English as a second or foreign language	94	49	42	1	0	8	3	30	0	0	0
Health education	53	8	40	4	1	0	5	27	2	1	0
Literacy and reading education	123	3	110	6	0	3	11	85	2	1	2
Mathematics education	133	14	114	13	1	6	13	79	1	1	0
Music education	114	7	104	3	1	4	7	86	2	0	1
Physical education and coaching	36	7	29	0	0	2	2	22	1	1	1
Science education	123	18	103	4	1	7	12	72	5	1	1
Teaching fields, aggregated	281	39	223	18	0	14	18	162	6	2	3
Other education	300	19	232	27	1	7	38	129	4	0	26
Education, general	141	6	103	11	0	4	19	41	2	0	26
Other education, aggregated	159	13	129	16	1	3	19	88	2	0	0
Humanities and arts	5,600	713	4,480	364	25	197	139	3,536	110	36	73
Foreign languages and literature	656	151	463	123	1	15	9	299	11	3	2
French, Italian	177	40	127	5	0	2	4	113	2	1	0
Germanic language and literature	72	15	53	2	1	2	1	46	1	0	0
Latin American languages and literature	78	16	60	34	0	0	1	24	0	1	0
Spanish language and literature	187	39	134	73	0	1	2	54	2	1	1
Other aggregated languages	142	41	89	9	0	10	1	62	6	0	1
History	1,145	131	942	73	2	37	43	742	22	6	17
American history, United States and Canada	413	10	390	23	1	10	25	314	10	3	4
Asian history	89	31	55	1	0	15	0	34	5	0	0
European history	198	12	183	8	0	1	1	168	5	0	0
History, science and technology and society	72	17	53	3	0	1	0	45	1	0	3
Latin American history	63	13	49	22	0	1	1	24	1	0	0
Middle, Near East history	82	19	61	6	0	2	1	47	0	3	2

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History, general	108	10	54	3	1	1	2	45	0	0	2
History, aggregated	120	19	97	7	0	6	13	65	0	0	6
Letters	1,590	122	1,360	71	9	60	29	1,128	32	8	23
American literature, United States and Canada	336	19	314	20	1	13	15	254	9	0	2
Classics	94	10	76	3	0	1	0	70	1	1	0
Comparative literature	167	24	135	16	0	11	3	97	5	1	2
English language	154	13	76	9	1	3	0	51	0	2	10
English literature, British and Commonwealth	412	32	377	15	1	15	4	335	5	0	2
Rhetoric and composition	240	10	220	3	2	7	4	191	6	4	3
Speech and rhetorical studies	42	3	34	3	0	1	1	27	0	0	2
Letters, aggregated	145	11	128	2	4	9	2	103	6	0	2
Other humanities and arts	2,209	309	1,715	97	13	85	58	1,367	45	19	31
Archaeology (humanities)	121	15	103	2	3	2	4	88	2	1	1
Art history, criticism, and conservation	272	37	220	13	1	18	0	177	9	0	2
Drama, theater arts	86	9	70	5	0	2	2	55	4	1	1
Film, cinema, video studies	67	14	52	4	0	5	2	35	5	1	0
Music	54	9	25	1	0	1	0	20	1	0	2
Musicology and ethnomusicology	148	24	116	6	1	6	6	89	3	5	0
Music performance	110	30	73	5	0	6	3	51	4	1	3
Music theory and composition	108	15	85	4	0	5	0	75	0	1	0
Philosophy, ethics	494	62	381	19	2	11	5	326	10	4	4
Religion/religious studies, Jewish/Judaic studies	340	35	283	14	3	12	12	225	3	2	12
Theology, religious education	172	18	129	7	0	8	7	99	1	3	4
Other humanities, aggregated	237	41	178	17	3	9	17	127	3	0	2
Other ^b	3,028	866	1,881	92	7	194	200	1,313	40	10	25
Business management and administration	1,588	545	893	41	2	130	85	608	13	4	10

Table 22. Doctorate recipients, by subfield of study, citizenship status, ethnicity, and race: 2015

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	
Accounting	194	55	136	2	0	22	5	100	5	1	1
Business administration and management	232	62	122	8	0	15	11	81	3	1	3
Finance	242	131	96	2	0	23	3	67	0	0	1
Human resources development	51	11	32	1	1	0	9	21	0	0	0
Management information systems, business statistics	101	46	55	2	1	11	4	35	1	0	1
Marketing management and research	183	68	109	5	0	25	3	75	1	0	0
Organizational behavior	190	30	146	9	0	10	25	99	3	0	0
Other aggregated business fields	395	142	197	12	0	24	25	130	0	2	4
Communication	668	137	480	22	1	27	36	375	9	2	8
Communication research	150	31	116	4	0	11	3	95	2	0	1
Mass communication, media studies	242	63	160	7	1	7	20	120	1	1	3
Communication, general	119	19	87	4	0	5	8	65	1	0	4
Communication, aggregated	157	24	117	7	0	4	5	95	5	1	0
Non-S&E fields not elsewhere classified	772	184	508	29	4	37	79	330	18	4	7
Architecture and environmental design	116	49	62	5	1	6	2	40	2	1	5
Family, consumer sciences and human sciences	47	9	33	6	0	4	5	18	0	0	0
Parks, sports, recreation, leisure and fitness	52	17	35	0	1	2	4	28	0	0	0
Public administration	122	26	84	2	0	4	19	55	3	0	1
Social work	308	36	243	16	2	14	41	157	11	1	1
Fields not elsewhere classified, aggregated	127	47	51	0	0	7	8	32	2	2	0

S&E = science and engineering.

^a Includes 3,734 respondents who did not report citizenship.

^b Non-science and engineering fields.

Table 22. Doctorate recipients, by subfield of study, citizenship status, ethnicity, and race: 2015

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

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Earned Doctorates, 2015.