

TABLE 22. Doctorate recipients, by citizenship status, ethnicity, race, and subfield of study: 2013

Subfield of study	U.S. citizens and permanent residents											
	All doctorate recipients ^a	Temporary visa holders	Total	Not Hispanic or Latino							Other race or race not reported	Ethnicity not reported
				Hispanic or Latino	American Indian or Alaska Native	Asian	Black or African American	White	Two or more races			
All fields	52,760	15,678	33,942	2,128	119	2,888	2,167	24,739	856	280	765	
Life sciences	12,305	3,169	8,438	557	30	883	526	6,038	215	63	126	
Agricultural sciences and natural resources	1,329	516	738	52	4	29	44	582	10	4	13	
Agricultural economics	108	56	43	6	0	3	8	22	0	2	2	
Agronomy, horticulture science, plant breeding, plant pathology, plant sciences-other	291	125	153	12	1	7	3	126	2	0	2	
Animal breeding, animal nutrition, poultry science	85	28	55	3	0	0	2	48	1	1	0	
Animal science, other	86	32	46	1	0	2	2	39	0	1	1	
Environmental science	206	65	126	10	2	3	11	94	2	0	4	
Fishing and fisheries sciences/management	53	10	43	0	1	0	1	41	0	0	0	
Food science, food technology-other	153	91	56	3	0	5	9	38	1	0	0	
Forest biology, forest management, wood science, forestry sciences-other	97	31	54	2	0	2	2	47	1	0	0	
Natural resources/conservation	92	20	64	4	0	3	2	53	1	0	1	
Soil chemistry, soil sciences-other	66	30	35	3	0	2	2	26	2	0	0	
Wildlife/range management	41	7	34	3	0	0	0	29	0	0	2	
Agricultural sciences, aggregated	51	21	29	5	0	2	2	19	0	0	1	
Biological, biomedical sciences	8,471	2,171	5,851	423	16	682	252	4,181	168	46	83	
Anatomy, developmental biology	213	58	153	12	1	21	2	109	3	3	2	
Bacteriology, parasitology	54	10	44	8	0	1	7	27	1	0	0	
Biochemistry	829	250	528	35	0	61	18	393	12	4	5	
Bioinformatics	160	68	83	4	0	18	2	53	5	1	0	
Biomedical sciences	403	111	255	25	2	34	24	158	7	2	3	
Biometrics and biostatistics	145	61	78	0	0	36	3	39	0	0	0	
Biophysics (biology)	179	63	107	5	0	20	5	72	5	0	0	
Botany, plant pathology, plant physiology	138	57	78	6	0	4	3	57	3	2	3	
Cancer biology	380	132	232	20	2	40	16	146	4	1	3	
Cell/cellular biology and histology	314	90	212	16	0	31	7	148	4	2	4	
Computational biology	115	49	63	1	0	14	1	43	3	0	1	
Ecology	471	49	414	26	1	10	4	351	13	5	4	
Endocrinology, human/animal pathology	135	33	98	9	0	12	11	62	3	1	0	
Entomology	118	30	88	7	0	5	1	67	6	1	1	
Environmental toxicology, toxicology	132	34	90	7	1	4	8	69	0	0	1	
Evolutionary biology	209	40	161	7	0	4	3	137	5	2	3	
Genetics-human/animal, plant genetics	432	106	303	16	1	38	14	218	7	4	5	
Immunology	471	102	355	29	0	53	17	240	10	3	3	
Marine biology and biological oceanography	111	16	86	7	0	4	4	66	4	0	1	
Microbiology	456	106	338	31	2	30	16	248	9	0	2	
Molecular biology	646	161	447	33	2	57	19	316	10	2	8	
Neurosciences and neurobiology	1,017	176	795	62	3	97	24	563	30	5	11	

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Nutrition sciences	176	53	115	7	0	14	3	86	2	0	3	
Pharmacology, human and animal	288	82	191	13	0	27	12	130	4	2	3	
Physiology, human and animal	208	53	138	10	0	13	7	100	7	0	1	
Structural biology	67	24	40	3	1	5	2	28	0	1	0	
Virology	163	41	122	5	0	9	6	98	3	0	1	
Zoology	40	3	36	2	0	1	0	31	1	1	0	
Biology/biomedical sciences, general	259	73	131	12	0	11	7	78	6	3	14	
Biotechnology, biology/biomedical sciences-other	142	40	70	5	0	8	6	48	1	1	1	
Health sciences	2,505	482	1,849	82	10	172	230	1,275	37	13	30	
Environmental health, public health	502	53	409	24	2	37	90	233	16	4	3	
Epidemiology	352	56	276	14	1	33	31	185	5	1	6	
Health policy analysis	69	10	56	5	0	10	2	39	0	0	0	
Health systems/services administration	89	15	62	1	1	5	13	40	0	1	1	
Kinesiology/exercise physiology	215	39	164	4	0	5	11	140	1	1	2	
Medicinal/pharmaceutical sciences	332	182	123	1	0	28	14	75	3	0	2	
Nursing science	510	42	445	12	5	32	47	330	9	3	7	
Rehabilitation/therapeutic services	85	18	61	3	0	8	1	46	1	1	1	
Speech-language pathology and audiology	110	13	95	7	0	6	5	74	1	0	2	
Health sciences, aggregated	241	54	158	11	1	8	16	113	1	2	6	
Physical sciences	9,290	3,913	4,869	226	6	468	143	3,753	123	42	108	
Astronomy	303	79	213	7	0	11	1	185	4	1	4	
Astronomy	105	29	71	3	0	4	0	59	2	0	3	
Astrophysics	185	46	135	4	0	6	1	120	2	1	1	
Astronomy, other	13	4	7	0	0	1	0	6	0	0	0	
Atmospheric science and meteorology	206	69	133	8	0	9	3	105	2	1	5	
Atmospheric physics, meteorology	61	19	39	2	0	2	0	33	0	1	1	
Atmospheric chemistry, atmospheric sciences-general, atmospheric sciences-other	145	50	94	6	0	7	3	72	2	0	4	
Chemistry	2,491	891	1,447	83	2	120	61	1,105	39	11	26	
Analytical chemistry	418	155	259	15	0	26	14	198	4	2	0	
Inorganic chemistry	299	97	199	7	1	12	4	165	6	1	3	
Organic chemistry	644	241	397	26	1	37	17	298	13	3	2	
Physical chemistry	354	121	231	12	0	16	6	186	7	1	3	
Polymer chemistry	125	64	58	0	0	3	3	49	2	0	1	
Theoretical chemistry	74	32	42	3	0	3	3	33	0	0	0	
Chemistry, general	368	115	122	9	0	6	5	83	2	1	16	
Chemistry, other	209	66	139	11	0	17	9	93	5	3	1	

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Computer and information sciences	1,897	1,016	782	30	0	129	30	538	21	11	23	
Computer science	1,563	876	603	24	0	105	19	417	14	9	15	
Information science and systems	152	61	84	4	0	10	4	58	1	2	5	
Robotics	58	29	28	0	0	4	1	20	1	0	2	
Computer and information science, other	124	50	67	2	0	10	6	43	5	0	1	
Geological and earth sciences	490	137	328	15	2	6	3	287	8	2	5	
Geochemistry, mineralogy	89	26	63	3	0	1	0	54	3	0	2	
Geology	127	23	97	5	1	1	2	82	1	2	3	
Geomorphology, geological sciences-general, geological sciences-other	109	23	75	3	0	0	0	71	1	0	0	
Geophysics and seismology	112	57	49	1	1	3	1	41	2	0	0	
Paleontology, stratigraphy	53	8	44	3	0	1	0	39	1	0	0	
Mathematics	1,817	843	871	34	0	108	26	652	20	6	25	
Algebra	151	49	101	0	0	6	2	85	4	0	4	
Analysis and functional analysis	159	76	81	5	0	6	2	62	4	1	1	
Applied mathematics, computing theory	477	228	233	13	0	31	9	170	1	2	7	
Geometry/geometric analysis	118	65	51	1	0	10	2	38	0	0	0	
Logic, topology/foundations	111	31	76	2	0	3	1	64	4	1	1	
Number theory	79	36	41	1	0	5	1	33	0	0	1	
Operations research, mathematics/statistics-general, mathematics/statistics-other	358	147	153	5	0	19	3	111	6	1	8	
Statistics (mathematics)	364	211	135	7	0	28	6	89	1	1	3	
Ocean/marine sciences	184	68	108	6	1	3	0	93	2	1	2	
Oceanography, chemical and physical	92	38	52	2	0	3	0	43	1	1	2	
Ocean/marine sciences, aggregated	92	30	56	4	1	0	0	50	1	0	0	
Physics	1,902	810	987	43	1	82	19	788	27	9	18	
Acoustics, optics/phototonics	196	82	108	4	0	9	6	85	1	1	2	
Applied physics	181	87	80	4	1	7	0	60	3	1	4	
Atomic physics, polymer physics	150	66	78	5	0	6	0	63	3	0	1	
Biophysics (physics)	134	47	85	4	0	8	2	69	2	0	0	
Condensed matter/low temperature physics	413	219	184	7	0	21	3	146	2	3	2	
Medical physics/radiological science	93	35	52	0	0	8	1	42	1	0	0	
Nuclear physics	76	26	50	2	0	1	1	42	2	1	1	
Particle (elementary) physics	270	112	152	7	0	8	4	126	2	2	3	
Plasma/fusion physics	71	21	49	2	0	3	0	39	5	0	0	
Physics, general	191	67	78	4	0	5	2	57	4	1	5	
Physics, other	127	48	71	4	0	6	0	59	2	0	0	

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Psychology and social sciences	8,401	1,623	6,300	441	27	382	460	4,569	192	44	185
Psychology	3,600	282	3,070	226	14	156	206	2,239	88	16	125
Behavioral analysis	54	2	52	6	0	1	1	41	2	1	0
Clinical psychology	1,144	38	1,038	99	8	47	45	744	27	6	62
Cognitive psychology and psycholinguistics	219	42	173	5	0	12	4	146	3	1	2
Counseling	424	20	372	28	2	30	50	243	10	3	6
Developmental and child psychology	227	25	193	13	2	9	9	148	8	0	4
Educational psychology (psychology)	60	7	47	2	0	1	10	30	3	1	0
Experimental psychology	141	16	118	5	0	6	3	100	2	0	2
Family psychology, human development and family studies	174	23	133	3	0	6	16	103	4	0	1
Health and medical psychology	65	3	54	1	1	2	10	35	3	0	2
Industrial and organizational psychology	214	22	181	15	1	6	15	129	6	2	7
Neuropsychology/physiological psychology	111	12	97	5	0	5	3	77	4	0	3
School psychology (psychology)	113	2	106	7	0	4	6	85	3	1	0
Social psychology	211	22	187	14	0	13	7	147	5	0	1
Psychology, general	232	16	156	9	0	5	10	104	4	1	23
Psychology, aggregated	211	32	163	14	0	9	17	107	4	0	12
Social sciences	4,801	1,341	3,230	215	13	226	254	2,330	104	28	60
Anthropology	552	77	456	38	3	33	19	335	11	8	9
Economics, econometrics	1,135	594	477	24	0	58	16	358	9	1	11
Natural resource/environmental economics (social sciences)	50	23	27	1	0	4	1	18	3	0	0
Political science and government	803	163	593	32	2	35	50	433	19	9	13
Sociology	636	93	515	43	1	26	48	375	15	4	3
Other social sciences	1,625	391	1,162	77	7	70	120	811	47	6	24
Area/ethnic/cultural/gender studies	97	17	70	12	4	7	12	26	5	3	1
Criminal justice and corrections	75	15	59	1	0	2	8	44	2	1	1
Criminology	76	7	69	5	0	3	5	52	4	0	0
Demography, gerontology, statistics, urban affairs, social sciences-general, social sciences-other	328	69	251	24	2	13	32	164	8	0	8
Geography	252	49	186	9	1	7	9	151	7	0	2
International relations/affairs	119	28	86	3	0	2	7	70	3	0	1
Linguistics	285	104	163	15	0	12	5	117	9	1	4
Public policy analysis	279	63	206	7	0	14	39	135	7	1	3
Urban/city, community and regional planning	114	39	72	1	0	10	3	52	2	0	4
Engineering	8,963	4,731	3,738	190	5	566	172	2,574	86	30	115
Aerospace, aeronautical, and astronautical engineering	349	136	195	14	0	16	4	151	4	0	6
Chemical engineering	829	414	364	19	2	62	7	257	6	2	9
Civil engineering	543	334	182	10	0	19	9	138	1	1	4
Electrical, electronics, and communications engineering	1,900	1,161	603	33	1	126	32	363	18	8	22

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Industrial and manufacturing engineering	240	155	77	6	0	9	14	47	0	0	1	
Materials science engineering	815	434	350	15	0	48	17	253	12	2	3	
Mechanical engineering	1,282	667	546	34	2	57	26	390	13	3	21	
Other engineering	3,005	1,430	1,421	59	0	229	63	975	32	14	49	
Bioengineering and biomedical engineering	1,037	349	635	34	0	142	27	384	21	8	19	
Computer engineering	418	269	122	6	0	18	3	87	0	2	6	
Environmental health engineering	270	140	120	9	0	17	5	82	1	2	4	
Nuclear engineering	119	32	85	2	0	7	0	69	2	1	4	
Structural engineering	81	46	35	1	0	2	1	30	1	0	0	
Systems engineering	117	32	84	2	0	5	7	60	2	0	8	
Other engineering, aggregated	963	562	340	5	0	38	20	263	5	1	8	
Education	4,944	514	4,120	266	24	221	517	2,877	81	41	93	
Education administration	967	44	843	50	8	30	167	541	15	9	23	
Educational administration and supervision	190	12	154	14	1	3	32	90	5	2	7	
Education and human resource studies/development	93	8	68	7	1	2	11	41	0	3	3	
Educational leadership	602	22	542	22	6	19	91	384	7	3	10	
Urban education and leadership	82	2	79	7	0	6	33	26	3	1	3	
Education research	2,704	316	2,217	151	9	116	261	1,571	46	15	48	
Counseling education/counseling and guidance	256	20	212	18	0	1	33	150	5	2	3	
Curriculum and instruction	587	77	455	28	1	23	57	329	5	4	8	
Educational assessment/testing/measurement	62	17	43	2	0	4	5	30	0	0	2	
Educational policy analysis	172	27	139	8	0	7	20	98	4	0	2	
Educational psychology (education)	285	27	231	15	1	18	18	167	6	2	4	
Educational statistics/research methods	84	22	60	1	1	5	6	44	3	0	0	
Educational/instructional technology, media design	255	49	194	11	2	11	16	144	2	0	8	
Higher education/evaluation and research	436	25	392	30	3	15	57	256	12	5	14	
International education	65	12	51	6	0	5	4	29	2	0	5	
School psychology (education)	132	3	126	12	0	8	16	88	1	1	0	
Social/philosophical foundations of education	84	5	75	6	0	2	8	54	3	1	1	
Special education	286	32	239	14	1	17	21	182	3	0	1	
Teacher education	111	17	92	3	1	8	9	67	1	2	1	
Teaching fields	895	117	741	47	2	52	55	555	10	9	11	
Health education	52	4	45	4	0	4	10	25	1	0	1	
Literacy and reading education	126	6	117	3	0	4	8	99	0	1	2	
Mathematics education	139	17	120	7	0	13	11	84	3	2	0	
Music education	92	9	79	3	0	5	1	66	2	1	1	
Physical education and coaching	45	5	37	1	1	2	3	29	0	1	0	
Science education	114	12	100	11	0	5	4	74	2	1	3	

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Teaching fields, aggregated	327	64	243	18	1	19	18	178	2	3	4	
Other education	267	20	227	15	4	15	25	143	9	6	10	
Education, general	130	9	106	5	2	7	9	67	6	4	6	
Education, other	137	11	121	10	2	8	16	76	3	2	4	
Humanities	5,662	752	4,520	335	23	195	167	3,544	115	42	99	
Foreign languages and literature	701	179	466	100	1	14	9	316	12	3	11	
French, Italian	184	42	129	5	0	3	4	107	6	1	3	
German	75	16	55	1	0	1	1	51	0	1	0	
Latin American	66	17	40	27	0	0	1	10	2	0	0	
Spanish	215	58	142	58	0	3	0	73	3	1	4	
Other aggregated languages	161	46	100	9	1	7	3	75	1	0	4	
History	1,149	133	945	68	6	39	49	732	19	10	22	
American history (U.S. and Canada)	443	13	422	21	5	12	29	340	8	3	4	
Asian history	84	35	47	1	0	13	0	31	2	0	0	
European history	187	29	152	8	0	1	1	136	1	3	2	
History, science and technology and society	53	9	42	1	0	4	2	34	1	0	0	
Latin American history	77	12	63	22	0	0	1	36	2	1	1	
Middle/Near East studies	71	14	47	1	0	2	1	40	0	2	1	
History, general	106	7	67	9	1	4	4	35	1	0	13	
History, aggregated	128	14	105	5	0	3	11	80	4	1	1	
Letters	1,604	149	1,349	63	6	54	52	1,104	31	10	29	
American literature (U.S. and Canada)	396	29	351	15	2	19	22	282	9	1	1	
Classics	101	11	84	2	0	1	0	77	0	1	3	
Comparative literature	218	49	147	17	1	12	4	104	2	3	4	
English language	93	5	79	3	0	2	4	63	1	3	3	
English literature (British and Commonwealth)	398	33	349	12	0	7	6	307	12	1	4	
Rhetoric and composition	218	13	196	6	2	4	12	162	4	0	6	
Speech and rhetorical studies	33	1	25	2	0	0	2	21	0	0	0	
Letters, aggregated	147	8	118	6	1	9	2	88	3	1	8	
Other humanities	2,208	291	1,760	104	10	88	57	1,392	53	19	37	
American/U.S. studies	123	5	109	12	3	12	10	66	4	1	1	
Archaeology	72	12	59	1	1	0	0	56	1	0	0	
Art history/criticism/conservation	264	34	224	10	0	9	4	186	10	3	2	
Drama/theater arts	120	4	105	9	0	5	6	79	3	2	1	
Film/cinema/video studies	67	14	51	4	0	4	0	41	2	0	0	
Music	88	15	63	4	0	6	1	44	2	1	5	
Musicology/ethnomusicology	128	17	109	6	0	5	3	91	3	0	1	
Music performance	125	13	83	5	0	6	0	72	0	0	0	

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Music theory and composition	102	20	75	4	1	2	2	62	2	1	1	
Philosophy, ethics	519	92	391	25	1	14	7	317	11	4	12	
Religion/religious studies, Jewish/Judaic studies	334	32	285	7	3	15	13	222	10	5	10	
Other humanities, aggregated	266	33	206	17	1	10	11	156	5	2	4	
Other ^b	3,195	976	1,957	113	4	173	182	1,384	44	18	39	
Business management and administration	1,545	601	829	51	1	106	68	549	24	9	21	
Accounting	168	50	111	5	0	12	4	85	2	1	2	
Banking/financial services, finance	260	125	116	2	0	30	10	67	2	3	2	
Business administration and management	261	90	140	10	1	15	10	92	4	0	8	
Human resources development	45	8	37	3	0	2	9	20	2	0	1	
Management information systems/business statistics	107	56	44	1	0	8	5	26	1	3	0	
Marketing management and research	190	80	103	9	0	21	7	61	4	0	1	
Organizational behavior	187	33	139	9	0	5	14	98	7	1	5	
Other aggregated business fields	327	159	139	12	0	13	9	100	2	1	2	
Communication	649	135	470	31	1	29	37	353	10	4	5	
Communication research	157	29	114	8	0	10	6	85	3	1	1	
Mass communication/media studies	238	66	157	9	0	8	15	121	2	1	1	
Communication, general	107	11	87	2	1	6	5	66	4	2	1	
Communication, aggregated	147	29	112	12	0	5	11	81	1	0	2	
Non-S&E fields not elsewhere classified	1,001	240	658	31	2	38	77	482	10	5	13	
Architecture/environmental design	101	47	51	4	0	4	4	37	0	1	1	
Family/consumer science/human science	57	11	44	2	0	3	6	33	0	0	0	
Parks/sports/recreation/leisure/fitness	76	16	52	0	0	1	4	42	3	0	2	
Public administration	127	39	85	5	1	3	13	60	1	1	1	
Social work	330	43	261	13	1	20	36	186	3	0	2	
Theology/religious education	175	29	111	5	0	7	9	81	3	1	5	
Fields not elsewhere classified, aggregated	135	55	54	2	0	0	5	43	0	2	2	

S&E = science and engineering.

^a Includes 3,140 respondents who did not report citizenship.

^b Non-science and engineering fields not shown separately.

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

SOURCE: NSF, NIH, USED, USDA, NEH, NASA, Survey of Earned Doctorates, 2013.