

**Table 22****Doctorate recipients, by subfield of study, citizenship status, ethnicity, and race: 2020**

(Number)

Field of study	All doctorate recipients <sup>a</sup>	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	55,283	18,482	34,492	2,851	97	3,218	2,458	23,944	1,136	353	435
Life sciences	12,561	3,430	8,707	710	22	960	558	5,988	311	73	85
Agricultural sciences and natural resources	1,472	633	796	60	5	44	41	602	24	6	14
Agricultural sciences	920	447	443	34	3	30	22	329	14	3	8
Agricultural economics	137	83	44	6	0	6	2	27	3	0	0
Agronomy, horticulture science, plant breeding, plant pathology, plant sciences-other	363	167	193	18	1	15	9	140	6	1	3
Animal nutrition, poultry science	75	33	39	1	0	1	2	33	2	0	0
Animal sciences, other	139	45	87	5	2	3	3	68	2	1	3
Food science, food technology-other	143	94	42	1	0	5	5	29	0	0	2
Soil chemistry and microbiology, soil sciences-other	63	25	38	3	0	0	1	32	1	1	0
Natural resources and conservation	476	152	311	25	1	14	15	241	7	3	5
Environmental science	201	67	126	15	0	9	7	92	3	0	0
Fishing and fisheries sciences and management	49	12	36	2	1	0	0	30	0	0	3
Forest biology, forest management, forestry sciences-other	92	33	56	1	0	1	3	48	1	1	1
Natural resources policy and environmental economics	66	24	41	5	0	4	1	26	3	1	1
Natural resources and conservation, wildlife and range management	68	16	52	2	0	0	4	45	0	1	0
Agricultural sciences and natural resources, aggregated	76	34	42	1	1	0	4	32	3	0	1
Biological and biomedical sciences	8,418	2,176	6,008	521	9	748	265	4,144	237	44	40
Anatomy, developmental biology	141	36	99	15	0	18	4	55	6	1	0
Bacteriology, parasitology, and virology	136	36	99	8	0	8	5	72	6	0	0

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Biochemistry (biological sciences)	687	198	459	45	0	60	14	316	18	1	5
Bioinformatics	223	97	122	9	0	30	5	73	2	1	2
Biomedical sciences	409	122	274	36	0	38	10	178	11	1	0
Biometrics and biostatistics	241	140	96	4	0	23	1	61	6	1	0
Biophysics (biological sciences)	174	49	123	6	0	13	3	98	2	1	0
Botany, plant pathology, plant physiology	152	53	96	4	0	9	3	71	7	2	0
Cancer biology	305	85	213	21	0	33	16	134	5	2	2
Cell, cellular biology, and histology	168	35	121	6	0	15	4	91	4	0	1
Computational biology	137	60	75	6	0	19	2	45	2	1	0
Ecology	388	44	342	20	0	9	12	290	8	0	3
Endocrinology, human/ animal pathology	78	15	61	7	0	5	3	44	1	0	1
Entomology	124	29	92	6	0	3	2	75	4	2	0
Environmental toxicology	58	14	42	5	0	4	5	26	1	1	0
Epidemiology	357	82	267	23	3	44	30	155	9	3	0
Evolutionary biology	207	43	162	9	0	8	5	133	6	1	0
Genetics and genomics, human and animal	347	77	260	23	1	30	6	186	11	2	1
Immunology	389	92	290	29	0	54	17	173	13	3	1
Microbiology	478	87	386	34	0	41	21	271	14	3	2
Molecular biology	579	157	413	38	0	61	21	272	16	3	2
Molecular medicine	36	4	32	3	0	3	3	22	1	0	0
Neurosciences, neurobiology	974	196	756	68	0	97	21	529	30	6	5
Nutrition sciences	205	74	128	8	0	10	6	95	8	1	0
Pharmacology, human and animal	208	46	156	17	1	12	10	106	10	0	0
Physiology, human and animal	151	33	110	8	1	14	0	79	4	2	2
Plant genetics	61	26	34	1	0	2	0	30	1	0	0
Structural biology	54	14	39	2	0	6	2	26	2	1	0
Toxicology	63	16	46	3	0	6	2	31	3	1	0
Wildlife biology, zoology	76	8	67	5	0	2	0	58	2	0	0
Biological and biomedical sciences, general	649	166	431	39	3	55	26	271	22	4	11
Biotechnology, biology/ biomedical sciences-other	163	42	117	13	0	16	6	78	2	0	2

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Health sciences	2,671	621	1,903	129	8	168	252	1,242	50	23	31
Environmental health	83	18	60	9	1	9	3	35	3	0	0
Health and behavior	62	11	49	8	1	3	8	27	1	0	1
Health services/ systems administration	170	47	118	11	0	19	27	58	2	1	0
Kinesiology, exercise science	291	54	229	16	0	7	11	185	8	1	1
Medical physics, radiological science	81	19	61	6	0	5	2	46	1	0	1
Nursing science	591	70	490	22	3	38	59	348	6	3	11
Pharmaceutical sciences	382	195	159	4	0	35	10	98	5	5	2
Public health	431	76	339	32	0	28	92	163	14	7	3
Rehabilitation, therapeutic services	116	26	79	2	0	4	3	67	0	1	2
Speech-language pathology and audiology	125	23	98	5	0	3	7	79	4	0	0
Health sciences, aggregated	339	82	221	14	3	17	30	136	6	5	10
Physical sciences and earth sciences	6,247	2,311	3,741	246	4	313	79	2,892	140	32	35
Chemistry	2,763	994	1,696	119	1	157	45	1,265	72	17	20
Analytical chemistry	364	154	207	11	0	14	8	160	10	3	1
Chemical biology	135	35	99	9	0	20	4	60	6	0	0
Inorganic chemistry	327	105	222	15	0	21	4	169	11	2	0
Medicinal chemistry	85	37	47	3	0	5	3	33	2	1	0
Organic chemistry	535	186	346	23	1	26	9	269	15	1	2
Physical chemistry	398	148	248	19	0	20	4	193	11	1	0
Polymer chemistry	128	51	76	3	0	10	4	53	3	2	1
Theoretical chemistry	87	40	47	1	0	7	0	37	1	1	0
Chemistry, general	532	182	290	20	0	28	7	204	10	6	15
Chemistry, other	172	56	114	15	0	6	2	87	3	0	1
Geosciences, atmospheric sciences, and ocean sciences	1,243	391	811	59	1	45	13	646	36	6	5
Atmospheric science and meteorology	230	81	140	8	0	6	2	120	2	1	1
Atmospheric physics, meteorology	52	20	29	0	0	2	0	26	1	0	0
Atmospheric chemistry, atmospheric sciences-general, atmospheric sciences-other	178	61	111	8	0	4	2	94	1	1	1
Geological sciences	674	217	431	36	0	20	8	340	20	3	4

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Geochemistry, mineralogy	53	12	41	5	0	1	0	33	1	0	1
Geology	167	49	115	11	0	5	2	91	3	1	2
Geomorphology, geological sciences-general, geological sciences-other	284	78	193	15	0	10	3	153	9	2	1
Geophysics and seismology	144	75	59	5	0	3	2	43	6	0	0
Paleontology, stratigraphy	26	3	23	0	0	1	1	20	1	0	0
Ocean and marine sciences	339	93	240	15	1	19	3	186	14	2	0
Marine biology and biological oceanography	74	9	63	1	0	9	0	47	5	1	0
Oceanography, chemical and physical	71	28	42	6	0	3	1	30	2	0	0
Ocean/ marine sciences, aggregated	194	56	135	8	1	7	2	109	7	1	0
Physics and astronomy	2,241	926	1,234	68	2	111	21	981	32	9	10
Astronomy and astrophysics	305	83	213	15	0	12	1	178	5	0	2
Astronomy	116	24	89	6	0	5	1	73	3	0	1
Astrophysics	174	54	115	8	0	7	0	98	1	0	1
Astronomy and astrophysics, other	15	5	9	1	0	0	0	7	1	0	0
Physics	1,936	843	1,021	53	2	99	20	803	27	9	8
Acoustics, optics/ photonics	215	118	90	5	0	15	1	67	2	0	0
Applied physics	154	65	83	8	0	15	8	49	1	2	0
Atomic physics, polymer physics	131	53	75	3	0	6	3	60	1	1	1
Biophysics (physics)	126	51	72	5	0	11	1	49	4	2	0
Condensed matter, low-temperature physics	376	196	179	7	0	20	3	143	5	0	1
Elementary particle physics	198	88	108	3	1	7	1	93	3	0	0
Nuclear physics	98	30	68	7	0	5	0	55	0	1	0
Plasma, high-temperature physics	65	13	51	0	0	2	0	49	0	0	0
Physics, general	447	164	235	12	1	14	1	188	10	3	6
Physics, other	126	65	60	3	0	4	2	50	1	0	0
Mathematics and computer sciences	4,392	2,475	1,736	100	1	264	56	1,196	77	23	19
Computer and information sciences	2,361	1,452	808	44	1	146	26	535	33	13	10

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Computer science	1,952	1,233	645	34	0	120	17	434	26	7	7
Information science, systems	148	62	70	4	1	10	8	38	5	2	2
Computer and information sciences, general	151	101	47	4	0	10	0	31	1	0	1
Computer and information sciences, other	110	56	46	2	0	6	1	32	1	4	0
Mathematics and statistics	2,031	1,023	928	56	0	118	30	661	44	10	9
Algebra	57	29	28	1	0	1	1	23	2	0	0
Analysis and functional analysis	57	29	28	2	0	2	2	21	0	0	1
Applied mathematics, computing theory	424	195	224	16	0	28	11	162	6	0	1
Computational mathematics	98	50	43	3	0	6	5	24	4	0	1
Geometry, geometric analysis	66	39	27	3	0	2	0	20	2	0	0
Logic, topology/foundations	44	14	30	2	0	4	1	23	0	0	0
Number theory	51	26	25	1	0	3	0	20	0	0	1
Operations research, mathematics/statistics-general, mathematics/statistics-other	830	388	391	19	0	40	7	286	25	10	4
Statistics (mathematics)	404	253	132	9	0	32	3	82	5	0	1
Psychology and social sciences	8,946	1,832	6,605	657	22	443	536	4,550	236	69	92
Psychology	3,879	257	3,317	355	3	193	262	2,298	122	31	53
Behavioral analysis	47	0	46	0	0	2	2	40	1	0	1
Clinical psychology	1,282	36	1,155	124	1	81	75	803	44	14	13
Cognitive neuroscience	198	35	160	16	0	14	2	120	8	0	0
Cognitive psychology and psycholinguistics	112	20	90	5	0	4	1	76	4	0	0
Community psychology	42	3	35	4	0	3	8	19	0	0	1
Counseling	277	16	242	22	1	15	37	147	10	2	8
Developmental and child psychology	161	19	138	20	0	14	12	87	5	0	0
Educational psychology (psychology)	94	7	73	10	0	1	12	44	2	3	1
Experimental psychology	142	15	125	8	0	6	3	102	5	0	1

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Family psychology, human development and family studies	166	31	129	10	0	5	17	87	6	2	2	
Health, medical psychology	73	3	59	5	0	2	4	44	2	0	2	
Industrial and organizational psychology	213	16	188	26	0	5	15	131	10	1	0	
Marriage and family therapy, counseling	91	6	66	6	0	2	14	41	3	0	0	
Neuropsychology, physiological psychology	29	1	25	4	0	2	2	15	2	0	0	
School psychology (psychology)	144	1	141	19	0	6	16	96	4	0	0	
Social psychology	190	14	173	16	0	11	10	130	4	2	0	
Psychology, general	302	17	202	28	0	5	17	121	7	6	18	
Psychology, aggregated	316	17	270	32	1	15	15	195	5	1	6	
Social sciences	5,067	1,575	3,288	302	19	250	274	2,252	114	38	39	
Anthropology	448	63	366	38	2	28	11	261	20	1	5	
Anthropology, cultural	248	48	195	23	2	18	9	130	11	0	2	
Anthropology, general	101	8	80	5	0	6	2	62	4	0	1	
Anthropology, physical and biological	99	7	91	10	0	4	0	69	5	1	2	
Economics	1,216	691	459	32	1	60	22	318	19	2	5	
Econometrics, economics	1,171	674	431	31	1	59	21	294	18	2	5	
Natural resources and environmental economics (social sciences)	45	17	28	1	0	1	1	24	1	0	0	
Political science and government	637	152	460	31	1	34	20	348	11	9	6	
Sociology	607	101	488	50	3	33	50	328	14	5	5	
Other social sciences	2,159	568	1,515	151	12	95	171	997	50	21	18	
American, U.S. studies	57	6	49	6	1	4	7	27	3	1	0	
Applied linguistics	95	47	47	5	0	8	0	32	2	0	0	
Archaeology (social sciences)	116	17	99	10	1	1	2	77	4	4	0	
Area, ethnic, and cultural studies	156	37	114	30	5	10	15	41	10	1	2	
Criminal justice and corrections	135	12	116	13	0	0	27	74	0	0	2	
Criminology	103	21	79	7	0	3	5	61	2	0	1	

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Demography, gerontology, statistics, urban affairs, social sciences- general, social sciences-other	295	67	202	20	1	13	32	123	7	4	2
Gender and women's studies	50	10	40	2	1	2	6	26	2	0	1
Geography	301	104	194	17	1	13	7	143	7	3	3
Health policy analysis	56	13	42	3	0	6	11	22	0	0	0
History, science and technology and society	61	11	48	2	0	3	3	33	3	2	2
International relations, international affairs	131	27	97	7	1	7	5	73	1	1	2
Linguistics	232	79	145	14	1	8	7	112	2	1	0
Public policy analysis	249	63	179	10	0	12	35	112	5	3	2
Urban, city, community and regional planning	122	54	64	5	0	5	9	41	2	1	1
Engineering	10,476	5,955	4,154	287	5	665	177	2,804	128	46	42
Aerospace, aeronautical, and astronautical engineering	399	163	221	17	0	25	7	163	5	1	3
Bioengineering and biomedical engineering	1,083	364	689	51	1	145	29	428	30	3	2
Chemical engineering	994	482	465	35	0	88	15	308	12	6	1
Civil engineering	796	513	245	17	2	28	14	170	4	5	5
Electrical, electronics, and communications engineering	1,973	1,344	552	46	1	111	21	349	12	8	4
Industrial and manufacturing engineering	304	200	82	9	0	12	11	43	1	2	4
Materials science engineering	880	463	398	28	0	69	13	267	14	4	3
Mechanical engineering	1,634	983	601	32	1	79	13	437	25	6	8
Other engineering	2,413	1,443	901	52	0	108	54	639	25	11	12
Computer engineering	479	339	127	5	0	25	7	83	2	2	3
Environmental, environmental health engineering	242	112	122	8	0	12	10	87	3	1	1
Nuclear engineering	169	58	109	7	0	7	2	89	3	1	0
Robotics	144	78	65	4	0	10	2	42	5	2	0
Structural engineering	113	75	37	4	0	8	1	22	2	0	0

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Systems engineering	119	53	61	5	0	7	4	45	0	0	0
Other engineering, aggregated	1,147	728	380	19	0	39	28	271	10	5	8
Education	4,716	661	3,896	371	16	204	628	2,474	99	41	63
Education administration	927	59	818	74	4	24	198	476	18	8	16
Educational administration and supervision	150	12	125	4	0	5	48	60	3	2	3
Educational and human resource studies, development	44	9	33	8	0	3	5	16	1	0	0
Educational leadership	673	37	606	56	4	15	122	380	10	6	13
Urban education and leadership	60	1	54	6	0	1	23	20	4	0	0
Education research	2,279	372	1,855	181	9	114	269	1,194	50	13	25
Counseling education, counseling and guidance	232	25	195	18	2	10	41	112	4	0	8
Curriculum, instruction, educational assessment/ measurement	525	112	397	47	1	18	43	271	9	5	3
Educational policy analysis	123	22	100	8	0	4	18	63	4	1	2
Educational psychology (education)	190	34	154	6	1	23	10	99	10	5	0
Educational statistics, research methods	91	30	60	2	0	5	9	42	2	0	0
Educational/ instructional technology, media design	197	53	138	9	0	11	21	90	6	0	1
Higher education evaluation and research	408	24	378	49	3	19	79	215	6	1	6
Learning sciences	65	9	53	5	0	2	3	40	1	0	2
School psychology (education)	108	6	101	9	0	4	12	74	1	0	1
Social and philosophical foundations of education	67	6	60	11	1	8	10	26	3	0	1
Special education	273	51	219	17	1	10	23	162	4	1	1
Teacher education	113	18	94	4	0	5	18	60	1	0	6
Teaching fields	940	163	751	59	2	36	93	522	16	12	11
Health education	50	9	40	3	0	0	13	23	1	0	0



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Literacy and reading education	127	21	102	6	1	2	10	77	2	2	2	
Mathematics education	122	21	101	5	1	6	11	73	3	1	1	
Music education	84	8	74	5	0	2	9	53	1	1	3	
Science education	139	21	115	7	0	7	21	74	4	0	2	
Teaching fields, aggregated	418	83	319	33	0	19	29	222	5	8	3	
Other education	457	49	378	53	1	25	50	222	14	8	5	
Education, general	258	19	216	39	0	18	27	121	3	4	4	
Other education, aggregated	199	30	162	14	1	7	23	101	11	4	1	
Humanities and arts	4,939	742	3,915	352	16	207	174	2,943	107	51	65	
Foreign languages and literature	564	185	349	84	2	16	6	224	6	8	3	
French	89	22	57	3	0	4	2	47	0	1	0	
German	49	10	38	1	0	1	0	32	2	1	1	
Spanish	162	53	103	43	0	1	2	52	1	3	1	
Other languages and literature, aggregated	264	100	151	37	2	10	2	93	3	3	1	
History	887	120	746	58	2	36	28	585	21	6	10	
American history, United States and Canada	319	11	308	24	2	8	15	246	9	2	2	
Asian history	79	28	51	0	0	17	1	28	4	0	1	
European history	148	15	133	9	0	0	0	122	1	1	0	
Latin American history	42	10	32	9	0	1	0	20	2	0	0	
Middle, Near East history	46	16	28	1	0	1	1	24	0	1	0	
History, general	132	19	96	9	0	5	5	66	4	1	6	
History, aggregated	121	21	98	6	0	4	6	79	1	1	1	
Letters	1,392	131	1,165	72	5	51	46	914	39	11	27	
American literature, United States and Canada	247	14	232	18	0	6	8	188	11	1	0	
Classics	85	12	68	4	0	1	0	56	5	1	1	
Comparative literature	175	45	117	15	0	10	3	86	2	1	0	
English language	184	15	104	3	1	1	6	66	1	4	22	
English literature, British and Commonwealth	335	28	303	11	0	15	7	264	4	1	1	
Rhetoric and composition	206	10	195	13	3	9	14	147	6	1	2	
Speech and rhetorical studies	33	0	30	0	0	1	3	25	0	1	0	
Letters, aggregated	127	7	116	8	1	8	5	82	10	1	1	
Other humanities and arts	2,096	306	1,655	138	7	104	94	1,220	41	26	25	

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Field of study	All doctorate recipients <sup>a</sup>	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	
African American studies, literature, and history	68	2	64	5	0	2	39	13	3	1	1
Art history, criticism, and conservation	223	33	180	20	0	13	1	140	4	2	0
Dance, drama	92	13	70	4	1	5	4	50	2	2	2
Film, cinema, video studies	83	20	60	4	0	5	5	42	2	2	0
Music	76	14	49	4	1	3	2	34	1	1	3
Musicology and ethnomusicology	126	18	106	8	0	6	3	85	1	2	1
Music performance	136	28	95	8	0	4	6	71	3	2	1
Music theory and composition	116	24	91	6	0	8	0	72	3	0	2
Philosophy, ethics	460	69	368	37	2	15	10	278	11	9	6
Religion/ religious studies, Jewish/ Judaic studies	227	20	187	14	0	17	9	134	7	2	4
Theology, religious education	214	30	178	13	1	13	9	133	3	2	4
Other humanities, aggregated	275	35	207	15	2	13	6	168	1	1	1
Other <sup>b</sup>	3,006	1,076	1,738	128	11	162	250	1,097	38	18	34
Business management and administration	1,466	658	709	46	2	106	102	413	19	6	15
Accounting	157	73	81	5	0	15	2	53	5	0	1
Business administration and management	302	138	137	7	0	15	23	86	1	2	3
Finance	198	119	63	5	2	19	1	33	3	0	0
Human resources, organizational behavior	216	44	160	8	0	16	36	94	4	1	1
Management information systems, business statistics	109	65	37	0	0	7	6	22	1	1	0
Marketing management and research	109	50	51	9	0	9	3	27	1	0	2
Other aggregated business fields	375	169	180	12	0	25	31	98	4	2	8
Communication	593	154	412	30	1	23	32	304	9	6	7
Communication research	141	36	102	10	1	3	11	74	2	1	0
Mass communication, media studies	188	61	117	11	0	9	5	83	2	2	5
Communication, general	174	42	126	5	0	8	9	95	4	3	2
Communication, aggregated	90	15	67	4	0	3	7	52	1	0	0

**Table 22****Doctorate recipients, by subfield of study, citizenship status, ethnicity, and race: 2020**

(Number)

Field of study	All doctorate recipients <sup>a</sup>	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	
Non-S&E fields nec	947	264	617	52	8	33	116	380	10	6	12
Architecture and environmental design	120	61	52	2	0	6	1	37	1	3	2
Family, consumer sciences and human sciences	91	29	60	4	2	6	13	32	1	0	2
Parks, sports, recreation, leisure and fitness	57	10	46	1	0	1	4	38	2	0	0
Public administration	221	56	150	17	2	3	50	71	3	1	3
Social work	310	41	252	20	3	16	43	164	3	1	2
Fields nec, aggregated	148	67	57	8	1	1	5	38	0	1	3

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

<sup>a</sup> Includes respondents who did not report citizenship.<sup>b</sup> 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.