

TABLE 4-5

Units and institutions with graduate students, postdoctoral appointees, and doctorate-holding nonfaculty researchers, by detailed field: 2020

(Number)

Detailed field	Graduate students						Postdoctoral appointees		Doctorate-holding nonfaculty researchers	
	All graduate students		Master's		Doctoral					
	Units	Institutions	Units	Institutions	Units	Institutions	Units	Institutions	Units	Institutions
All detailed fields	13,659	705	10,704	695	7,205	404	7,613	338	5,671	270
Science	9,720	682	7,364	666	5,161	374	4,399	325	3,258	258
Agricultural and veterinary sciences	333	90	299	89	212	55	259	69	236	59
Agricultural sciences	300	88	275	88	187	54	179	53	169	47
Veterinary biomedical and clinical sciences	33	25	24	22	25	20	80	41	67	31
Biological and biomedical sciences	2,632	507	1,591	487	1,814	285	1,796	273	1,271	201
Biochemistry	180	149	87	79	150	126	140	109	118	90
Biology	382	347	336	318	162	151	186	163	139	108
Biomedical sciences	174	125	119	94	100	80	71	51	33	31
Biophysics	39	36	6	6	39	36	19	15	13	13
Biostatistics and bioinformatics	194	118	139	98	120	81	89	54	64	42
Biotechnology	85	73	80	68	7	7	20	18	14	12
Botany and plant biology	68	49	55	45	58	42	48	35	31	22
Cell, cellular biology, and anatomical sciences	186	128	76	67	154	110	116	89	83	69
Ecology and population biology	108	88	74	62	78	64	53	44	42	34
Epidemiology	86	72	61	55	63	59	40	38	28	28
Genetics	93	70	49	41	71	59	100	64	80	50
Microbiological sciences and immunology	172	127	82	70	143	110	156	109	122	78
Molecular biology	54	48	20	20	41	35	50	39	30	23
Neurobiology and neuroscience	169	134	42	40	153	125	146	96	101	68
Nutrition science	103	84	87	75	56	52	42	30	25	22
Pathology and experimental pathology	43	41	12	12	37	37	80	52	46	37
Pharmacology and toxicology	135	103	56	53	117	92	100	80	73	60
Physiology	192	133	107	88	137	100	188	93	116	66
Zoology and animal biology	72	49	59	44	64	44	46	37	37	31
Biological and biomedical sciences nec	97	66	44	35	64	49	106	51	76	34
Computer and information sciences	976	425	899	421	275	179	169	126	138	81
Artificial intelligence, informatics, and computer and information science topics	78	60	69	56	18	14	16	14	18	16
Computer and information sciences	209	165	180	161	81	64	47	46	28	22
Computer and information systems security	123	103	121	102	6	5	3	3	1	1
Computer science	268	226	252	219	116	105	76	69	57	49
Information science and studies	129	95	118	91	31	27	10	10	10	8
Information technology	84	68	81	67	10	8	5	5	4	4
Computer and information sciences nec	85	67	78	64	13	12	12	10	20	15
Geosciences, atmospheric sciences, and ocean sciences	396	222	338	206	267	155	258	144	219	111
Atmospheric sciences and meteorology	51	47	43	40	43	41	42	30	43	29
Geological and earth sciences	260	193	225	177	166	133	140	113	117	80

TABLE 4-5

Units and institutions with graduate students, postdoctoral appointees, and doctorate-holding nonfaculty researchers, by detailed field: 2020

(Number)

Detailed field	Graduate students						Postdoctoral appointees		Doctorate-holding nonfaculty researchers	
	All graduate students		Master's		Doctoral					
	Units	Institutions	Units	Institutions	Units	Institutions	Units	Institutions	Units	Institutions
Ocean and marine sciences	85	60	70	54	58	46	52	39	43	32
Geosciences, atmospheric sciences, and ocean sciences nec	ne	ne	ne	ne	ne	ne	24	9	16	8
Mathematics and statistics	710	349	614	340	331	191	176	127	68	47
Applied mathematics	200	150	162	129	79	70	31	30	13	11
Mathematics	318	291	278	263	163	157	104	97	28	27
Statistics	192	159	174	153	89	82	41	39	27	25
Multidisciplinary and interdisciplinary studies	354	209	279	184	124	93	179	90	151	74
Biological and physical sciences	37	34	31	28	15	15	17	14	13	12
Computational science	47	41	37	33	15	14	8	8	6	6
Data science and data analytics	35	32	34	31	2	2	14	11	10	9
International and global studies	30	28	27	26	7	6	6	6	10	8
Multidisciplinary and interdisciplinary studies nec	205	139	150	112	85	66	134	69	112	53
Natural resources and conservation	354	207	302	195	152	101	139	87	126	67
Environmental science and studies	199	154	163	136	70	57	55	48	44	36
Forestry, natural resources, and conservation	155	87	139	85	82	55	84	49	82	42
Physical sciences	783	329	572	308	545	227	565	227	420	173
Astronomy and astrophysics	58	51	15	15	51	46	66	49	55	37
Chemistry	354	307	284	262	224	203	223	196	164	144
Materials sciences	59	47	37	33	47	39	29	21	24	18
Physics	284	239	215	198	210	187	226	184	155	119
Physical sciences nec	28	25	21	20	13	12	21	19	22	16
Psychology	1,143	470	827	426	503	234	249	147	167	107
Applied psychology	391	275	330	246	141	115	36	29	21	18
Clinical psychology	126	114	65	59	71	68	17	16	7	7
Counseling psychology	130	118	97	89	44	44	8	8	5	4
Human development	71	65	63	61	27	25	41	32	32	24
Psychology, general	274	251	204	196	117	105	104	95	77	72
Research and experimental psychology	151	109	68	54	103	80	43	37	25	22
Social sciences	2,039	408	1,643	395	938	204	609	152	462	132
Agricultural and natural resource economics	42	38	36	36	20	18	20	18	18	17
Anthropology	173	156	134	128	103	99	66	58	39	35
Area, ethnic, cultural, gender, and group studies	311	139	249	128	121	67	102	41	57	28
Criminal justice and safety studies	112	105	108	103	21	21	10	9	8	8
Criminology	42	41	39	39	14	14	2	2	3	3
Economics (except agricultural and natural resource)	268	200	211	171	146	128	56	46	48	43
Geography and cartography	169	140	162	138	69	66	46	39	32	23
International relations and national security studies	98	79	94	76	13	13	16	12	11	8
Linguistics	104	91	74	67	63	59	27	26	14	13
Political science and government	211	193	161	153	127	123	48	44	27	23

TABLE 4-5

Units and institutions with graduate students, postdoctoral appointees, and doctorate-holding nonfaculty researchers, by detailed field: 2020

(Number)

Detailed field	Graduate students						Postdoctoral appointees		Doctorate-holding nonfaculty researchers	
	All graduate students		Master's		Doctoral					
	Units	Institutions	Units	Institutions	Units	Institutions	Units	Institutions	Units	Institutions
Public policy analysis	148	107	112	85	60	52	61	42	73	46
Sociology and population studies	230	208	162	152	127	120	61	50	47	39
Urban studies and affairs	37	31	30	26	14	13	4	4	8	8
Social sciences, other	94	75	71	60	40	37	90	53	77	33
Engineering	2,459	330	2,188	325	1,416	229	1,108	203	851	174
Aerospace, aeronautical, and astronautical engineering	69	61	65	60	51	48	35	31	29	25
Biological, biomedical, and biosystems engineering	220	175	186	157	155	138	156	116	102	84
Chemical, petroleum, and chemical-related engineering	189	143	169	136	144	121	139	113	86	68
Chemical engineering	163	139	145	131	128	120	127	112	75	67
Petroleum engineering	26	24	24	24	16	16	12	11	11	10
Civil, environmental, transportation and related engineering fields	379	203	350	201	203	139	175	121	127	88
Civil engineering	249	194	233	192	151	135	152	108	112	81
Architectural, environmental, construction and surveying engineering	130	95	117	91	52	45	23	23	15	15
Electrical, electronics, communications and computer engineering	466	256	434	254	242	174	160	132	139	101
Electrical, electronics, and communications engineering	287	232	265	227	172	166	144	125	127	98
Computer engineering	179	133	169	132	70	65	16	14	12	12
Industrial, manufacturing, systems engineering and operations research	243	148	222	140	110	87	49	40	43	29
Industrial and manufacturing engineering	134	108	129	105	61	59	30	27	22	18
Systems engineering and operations research	109	75	93	70	49	35	19	14	21	15
Mechanical engineering	284	228	263	224	169	157	148	134	99	88
Metallurgical, mining, materials and related engineering fields	152	97	133	90	109	82	85	63	64	45
Other engineering	457	189	366	169	233	124	161	92	162	84
Agricultural engineering	32	26	29	26	27	23	20	19	15	15
Engineering mechanics, physics, and science	72	51	51	39	45	36	20	17	20	15
Nuclear engineering	33	28	31	28	30	26	13	13	11	9
Engineering, other	320	158	255	140	131	82	108	71	116	71
Health	1,480	440	1,152	420	628	215	2,106	173	1,562	146
Clinical medicine ^a	538	255	473	252	195	108	1,743	133	1,268	105
Medical clinical sciences and clinical and medical laboratory sciences	62	53	50	44	23	22	46	35	55	32
Public health	476	245	423	242	172	99	177	88	137	69
Anesthesiology	ne	ne	ne	ne	ne	ne	56	45	38	30
Cardiology and cardiovascular disease	ne	ne	ne	ne	ne	ne	54	38	34	26

TABLE 4-5

Units and institutions with graduate students, postdoctoral appointees, and doctorate-holding nonfaculty researchers, by detailed field: 2020

(Number)

Detailed field	Graduate students						Postdoctoral appointees		Doctorate-holding nonfaculty researchers	
	All graduate students		Master's		Doctoral					
	Units	Institutions	Units	Institutions	Units	Institutions	Units	Institutions	Units	Institutions
Endocrinology, diabetes, and metabolism	ne	ne	ne	ne	ne	ne	43	36	29	26
Gastroenterology	ne	ne	ne	ne	ne	ne	41	35	20	19
Hematology	ne	ne	ne	ne	ne	ne	30	24	27	21
Neurology and neurosurgery	ne	ne	ne	ne	ne	ne	121	56	75	43
Obstetrics and gynecology	ne	ne	ne	ne	ne	ne	54	40	33	29
Oncology and cancer research	ne	ne	ne	ne	ne	ne	110	47	65	35
Ophthalmology	ne	ne	ne	ne	ne	ne	70	53	46	37
Otorhinolaryngology	ne	ne	ne	ne	ne	ne	37	34	28	27
Pediatrics	ne	ne	ne	ne	ne	ne	132	60	96	48
Psychiatry	ne	ne	ne	ne	ne	ne	83	52	51	38
Pulmonary disease	ne	ne	ne	ne	ne	ne	43	37	28	24
Radiological sciences	ne	ne	ne	ne	ne	ne	110	53	70	38
Surgery	ne	ne	ne	ne	ne	ne	175	62	127	50
Clinical medicine nec	ne	ne	ne	ne	ne	ne	361	79	309	62
Other health	942	388	679	352	433	194	363	131	294	106
Communication disorders sciences	249	226	228	220	68	62	32	30	24	22
Dental sciences	87	43	79	41	19	17	56	34	35	22
Kinesiology and exercise science	159	150	151	145	42	40	29	27	20	20
Nursing science	137	127	22	22	121	115	49	43	38	30
Pharmaceutical sciences	127	84	83	60	95	65	93	62	83	51
Other health nec	183	126	116	90	88	68	104	63	94	47

ne = not eligible.

nec = not elsewhere classified.

^a Clinical medicine includes graduate students in public health and in medical clinical sciences and clinical and medical laboratory sciences. Clinical medicine includes postdoctoral appointees and nonfaculty researchers in anesthesiology, cardiology, endocrinology, gastroenterology, hematology, neurology, obstetrics and gynecology, oncology and cancer research, ophthalmology, otorhinolaryngology, pediatrics, psychiatry, public health, pulmonary disease, radiological sciences, surgery, and clinical medicine nec.

Note(s):

"Field" refers to the field of the unit that reports postdoctoral appointees and doctorate-holding nonfaculty researchers to the Survey of Graduate Students and Postdoctorates in Science and Engineering (GSS). Unit counts do not sum across columns. For more information on the mapping of GSS fields and codes, see technical table A-17.

Source(s):

National Center for Science and Engineering Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering, 2020.