TABLE A-4

Science, engineering, and health organizational units with graduate student enrollment, by detailed field: 2018–20

(Number)

Field	2018			2019			2020		
	All units with students	Units with master's students	Units with doctoral students	All units with students	Units with master's students	Units with doctoral students	All units with students	Units with master's students	Units with doctoral students
All surveyed fields[a]	13,000	10,093	7,083	13,149	10,281	7,135	13,659	10,704	7,205
Science	9,338	6,984	5,113	9,451	7,119	5,148	9,720	7,364	5,161
Agricultural and veterinary sciences	290	267	183	291	268	185	333	299	212
Agricultural sciences	290	267	183	291	268	185	300	275	187
Veterinary biomedical and clinical sciences[b]	na	na	na	na	na	na	33	24	25
Biological and biomedical sciences[c]	2,614	1,545	1,839	2,638	1,581	1,848	2,632	1,591	1,814
Biochemistry	188	84	159	190	93	158	180	87	150
Biology	394	349	161	386	338	166	382	336	162
Biomedical sciences	159	105	95	175	112	106	174	119	100
Biophysics	39	3	39	44	6	44	39	6	39
Biostatistics and bioinformatics	176	126	118	185	135	119	194	139	120
Biotechnology	67	61	8	76	71	8	85	80	7
Botany and plant biology	68	55	60	67	55	57	68	55	58
Cell, cellular biology, and anatomical sciences	190	74	161	187	79	154	186	76	154
Ecology and population biology	109	71	79	107	67	79	108	74	78
Epidemiology	70	50	57	85	58	65	86	61	63
Genetics	102	51	77	98	48	73	93	49	71
Microbiological sciences and immunology	177	79	148	174	79	146	172	82	143
Molecular biology	53	21	38	53	20	40	54	20	41
Neurobiology and neuroscience	169	35	156	178	44	160	169	42	153
Nutrition science	103	94	54	101	92	53	103	87	56
Pathology and experimental pathology	48	15	44	44	14	39	43	12	37
Pharmacology and toxicology	133	60	117	130	63	114	135	56	117
Physiology	176	90	131	179	97	132	192	107	137
Zoology and animal biology	77	63	66	75	62	65	72	59	64
Biological and biomedical sciences nec	116	59	71	104	48	70	97	44	64
Computer and information sciences	858	785	267	905	833	266	976	899	275
Artificial intelligence, informatics, and computer and information science topics	na	na	na	na	na	na	78	69	18
Computer and information sciences	331	292	110	350	311	108	209	180	81
Computer and information systems security	na	na	na	na	na	na	123	121	6
Computer science	261	243	112	264	248	111	268	252	116

TABLE A-4

Science, engineering, and health organizational units with graduate student enrollment, by detailed field: 2018–20

(Number)

Field	2018			2019			2020		
	All units with students	Units with master's students	Units with doctoral students	All units with students	Units with master's students	Units with doctoral students	All units with students	Units with master's students	Units with doctoral students
Information science and studies	na	na	na	na	na	na	129	118	31
Information technology	na	na	na	na	na	na	84	81	10
Computer and information sciences nec	266	250	45	291	274	47	85	78	13
Geosciences, atmospheric sciences, and ocean sciences	401	344	265	390	335	265	396	338	267
Atmospheric sciences and meteorology	53	43	43	49	39	43	51	43	43
Geological and earth sciences	271	233	170	264	228	169	260	225	166
Ocean and marine sciences	77	68	52	77	68	53	85	70	58
Mathematics and statistics	641	554	323	659	571	326	710	614	331
Applied mathematics	na	na	na	na	na	na	200	162	79
Mathematics	na	na	na	na	na	na	318	278	163
Mathematics and applied mathematics	467	398	234	476	406	237	na	na	na
Statistics	174	156	89	183	165	89	192	174	89
Multidisciplinary and interdisciplinary studies[c]	299	233	112	300	232	113	354	279	124
Biological and physical sciences	na	na	na	na	na	na	37	31	15
Computational science	na	na	na	na	na	na	47	37	15
Data science and data analytics	NA	NA	NA	NA	NA	NA	35	34	2
International and global studies	na	na	na	na	na	na	30	27	7
Multidisciplinary and interdisciplinary studies nec	na	na	na	na	na	na	205	150	85
Natural resources and conservation	356	312	146	356	312	148	354	302	152
Environmental science and studies	202	173	64	199	171	66	199	163	70
Forestry, natural resources, and conservation	154	139	82	157	141	82	155	139	82
Physical sciences	782	560	549	786	575	554	783	572	545
Astronomy and astrophysics	60	15	54	63	17	57	58	15	51
Chemistry	360	290	231	357	284	229	354	284	224
Materials sciences	47	30	38	51	36	40	59	37	47
Physics	287	205	213	288	219	216	284	215	210
Physical sciences nec	28	20	13	27	19	12	28	21	13
Psychology	1,022	716	466	1,029	735	465	1,143	827	503
Applied psychology	na	na	na	na	na	na	391	330	141
Clinical psychology	129	68	71	128	63	76	126	65	71
Counseling psychology	na	na	na	na	na	na	130	97	44

TABLE A-4

Science, engineering, and health organizational units with graduate student enrollment, by detailed field: 2018–20

(Number)

Field	2018			2019			2020		
	All units with students	Units with master's students	Units with doctoral students	All units with students	Units with master's students	Units with doctoral students	All units with students	Units with master's students	Units with doctoral students
Counseling and applied psychology	482	375	192	491	397	179	na	na	na
Human development[d]	na	na	na	na	na	na	71	63	27
Psychology, general	299	222	127	287	215	125	274	204	117
Research and experimental psychology	112	51	76	123	60	85	151	68	103
Social sciences	2,075	1,668	963	2,097	1,677	978	2,039	1,643	938
Agricultural and natural resource economics	50	42	28	46	38	25	42	36	20
Anthropology	175	132	105	175	127	106	173	134	103
Area, ethnic, cultural, gender, and group studies	na	na	na	na	na	na	311	249	121
Criminal justice and safety studies	103	100	21	110	107	22	112	108	21
Criminology	na	na	na	na	na	na	42	39	14
Economics (except agricultural and natural resource)	263	202	149	267	209	152	268	211	146
Geography and cartography	166	159	68	166	159	67	169	162	69
Human development[d]	65	55	27	67	59	26	na	na	na
International relations and national security studies	97	91	17	94	88	16	98	94	13
Linguistics	102	78	56	101	73	59	104	74	63
Political science and government	221	168	128	222	166	131	211	161	127
Public policy analysis	133	102	56	143	110	58	148	112	60
Sociology	234	165	129	235	162	130	230	162	127
Urban studies and affairs	na	na	na	na	na	na	37	30	14
Social sciences, other[e]	na	na	na	na	na	na	94	71	40
History and philosophy of science[e]	15	9	14	15	8	14	na	na	na
Social sciences nec[e]	451	365	165	456	371	172	na	na	na
Engineering[f]	2,246	2,016	1,338	2,272	2,051	1,354	2,459	2,188	1,416
Aerospace, aeronautical, and astronautical engineering	63	62	48	64	62	49	69	65	51
Biological, biomedical, and biosystems engineering[e]	na	na	na	na	na	na	220	186	155
Bioengineering and biomedical engineering[e]	192	166	138	193	168	140	na	na	na
Biological and biosystems engineering[e]	14	8	13	15	10	14	na	na	na
Chemical, petroleum, and chemical-related engineering	189	168	143	185	169	143	189	169	144
Chemical engineering	164	145	128	159	145	128	163	145	128
Petroleum engineering	25	23	15	26	24	15	26	24	16

TABLE A-4

Science, engineering, and health organizational units with graduate student enrollment, by detailed field: 2018–20

(Number)

Field	2018			2019			2020		
	All units with students	Units with master's students	Units with doctoral students	All units with students	Units with master's students	Units with doctoral students	All units with students	Units with master's students	Units with doctoral students
Civil, environmental, transportation and related engineering fields	326	302	187	330	308	185	379	350	203
Civil engineering	326	302	187	330	308	185	249	233	151
Architectural, environmental, construction and surveying engineering	na	na	na	na	na	na	130	117	52
Electrical, electronics, communications and computer engineering	417	392	221	421	395	225	466	434	242
Electrical, electronics, and communications engineering	417	392	221	421	395	225	287	265	172
Computer engineering	na	na	na	na	na	na	179	169	70
Industrial, manufacturing, systems engineering and operations research	213	194	101	223	204	102	243	222	110
Industrial and manufacturing engineering	213	194	101	223	204	102	134	129	61
Systems engineering and operations research	na	na	na	na	na	na	109	93	49
Mechanical engineering	261	250	166	263	253	164	284	263	169
Metallurgical, mining, materials and related engineering fields[e]	148	125	105	144	130	105	152	133	109
Metallurgical and materials engineering[e]	120	99	90	119	106	90	na	na	na
Mining engineering[e]	28	26	15	25	24	15	na	na	na
Other engineering	423	349	216	434	352	227	457	366	233
Agricultural engineering	30	29	25	33	31	26	32	29	27
Engineering mechanics, physics, and science	59	44	42	65	47	43	72	51	45
Nuclear engineering	34	31	29	31	30	29	33	31	30
Engineering, other[e]	na	na	na	na	na	na	320	255	131
Nanotechnology[e]	6	4	2	7	4	3	na	na	na
Engineering nec[e]	294	241	118	298	240	126	na	na	na
Health	1,416	1,093	632	1,426	1,111	633	1,480	1,152	628
Clinical medicine	489	429	184	499	442	185	538	473	195
Medical clinical sciences and clinical and medical laboratory sciences	NA	NA	NA	NA	NA	NA	62	50	23
Public health	439	386	165	446	399	165	476	423	172
Clinical medicine nec	50	43	19	53	43	20	ne	ne	ne
Other health	927	664	448	927	669	448	942	679	433
Communication disorders sciences	237	215	73	244	223	70	249	228	68
Dental sciences	101	90	24	87	78	20	87	79	19
Kinesiology and exercise science	na	na	na	na	na	na	159	151	42

TABLE A-4

Science, engineering, and health organizational units with graduate student enrollment, by detailed field: 2018–20

(Number)

Field	2018			2019			2020		
	All units with students	Units with master's students	Units with doctoral students	All units with students	Units with master's students	Units with doctoral students	All units with students	Units with master's students	Units with doctoral students
Nursing science	119	17	111	125	18	117	137	22	121
Pharmaceutical sciences	117	72	91	119	77	92	127	83	95
Veterinary biomedical and clinical sciences[b]	36	28	23	38	28	25	na	na	na
Other health nec	317	242	126	314	245	124	183	116	88

na = not applicable; data collected under different Survey of Graduate Students and Postdoctorates in Science and Engineering (GSS) codes or GSS code moved. NA = not available; GSS code contains Classification of Instructional Programs codes added in 2020. ne = not eligible.

nec = not elsewhere classified.

[a] Several field names changed in 2020; the field names listed in this table are the field names used in the GSS collection and reporting for 2020. For a complete list of field names used from 2017 to 2020, see https://ncses.nsf.gov/pubs/nsf21318/table/A-17.

[b] In 2020, veterinary biomedical and clinical sciences moved from other health to agriculture and veterinary sciences.

[c] Prior to 2020, multidisciplinary and interdisciplinary studies was reported as a single broad field with no detailed fields; the detailed fields were added in 2020.

[d] In 2020, human development moved from social sciences to psychology.

[e] Starting in 2020 some fields were combined for reporting. See technical table A-17 for more information.

[f] In 2020, broad fields were added to engineering.

Note(s):
This file only contains fields where graduate students may be reported.

Source(s):
National Center for Science and Engineering Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering.