TABLE A-4

Science, engineering, and health organizational units with graduate student enrollment, by detailed field: 2017–19

(Number)

Field	2017[a]			2018			2019		
	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[b]	12,479	9,625	6,915	13,000	10,093	7,083	13,149	10,281	7,135
Science and engineering	11,142	8,614	6,309	11,584	9,000	6,451	11,723	9,170	6,502
Science	8,952	6,649	4,970	9,338	6,984	5,113	9,451	7,119	5,148
Agricultural sciences	267	247	176	290	267	183	291	268	185
Biological and biomedical sciences[c]	2,586	1,503	1,816	2,614	1,545	1,839	2,638	1,581	1,848
Biochemistry	194	90	159	188	84	159	190	93	158
Biology	392	344	162	394	349	161	386	338	166
Biomedical sciences	153	93	96	159	105	95	175	112	106
Biophysics	41	5	40	39	3	39	44	6	44
Biostatistics and bioinformatics	162	121	104	176	126	118	185	135	119
Biotechnology	64	59	6	67	61	8	76	71	8
Botany and plant biology	69	53	61	68	55	60	67	55	57
Cell, cellular biology, and anatomical sciences	176	74	144	190	74	161	187	79	154
Ecology and population biology	100	60	75	109	71	79	107	67	79
Epidemiology	66	47	54	70	50	57	85	58	65
Genetics	101	47	78	102	51	77	98	48	73
Microbiological sciences and immunology	188	84	151	177	79	148	174	79	146
Molecular biology	52	19	38	53	21	38	53	20	40
Neurobiology and neuroscience	168	39	154	169	35	156	178	44	160
Nutrition science	88	82	46	103	94	54	101	92	53
Pathology and experimental pathology	50	13	45	48	15	44	44	14	39
Pharmacology and toxicology	138	62	119	133	60	117	130	63	114
Physiology	188	98	138	176	90	131	179	97	132
Zoology and animal biology	82	65	69	77	63	66	75	62	65
Biological and biomedical sciences nec	114	48	77	116	59	71	104	48	70
Computer and information sciences	777	719	229	858	785	267	905	833	266
Computer science	243	226	102	261	243	112	264	248	111
Computer and information sciences, general	303	274	91	331	292	110	350	311	108
Computer and information sciences nec	231	219	36	266	250	45	291	274	47

TABLE A-4

Science, engineering, and health organizational units with graduate student enrollment, by detailed field: 2017–19

(Number)

Field	2017[a]			2018			2019		
	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
Geosciences, atmospheric sciences, and ocean sciences	392	333	257	401	344	265	390	335	265
Atmospheric sciences and meteorology	53	42	42	53	43	43	49	39	43
Geological and earth sciences	251	216	159	271	233	170	264	228	169
Ocean and marine sciences	80	67	52	77	68	52	77	68	53
Geosciences, atmospheric sciences, and ocean sciences nec	8	8	4	ne	ne	ne	ne	ne	ne
Mathematics and statistics	607	526	309	641	554	323	659	571	326
Mathematics and applied mathematics	443	381	223	467	398	234	476	406	237
Statistics	164	145	86	174	156	89	183	165	89
Multidisciplinary and interdisciplinary studies	276	206	111	299	233	112	300	232	113
Natural resources and conservation	318	275	144	356	312	146	356	312	148
Environmental science and studies	169	139	65	202	173	64	199	171	66
Forestry, natural resources, and conservation	149	136	79	154	139	82	157	141	82
Physical sciences	758	558	535	782	560	549	786	575	554
Astronomy and astrophysics	55	15	49	60	15	54	63	17	57
Chemistry	355	289	230	360	290	231	357	284	229
Materials sciences	44	30	37	47	30	38	51	36	40
Physics	278	206	206	287	205	213	288	219	216
Physical sciences nec	26	18	13	28	20	13	27	19	12
Psychology	986	694	459	1,022	716	466	1,029	735	465
Clinical psychology	125	64	73	129	68	71	128	63	76
Counseling and applied psychology	470	363	197	482	375	192	491	397	179
Psychology, general	286	215	120	299	222	127	287	215	125
Research and experimental psychology	105	52	69	112	51	76	123	60	85
Social sciences	1,985	1,588	934	2,075	1,668	963	2,097	1,677	978
Agricultural economics	46	41	29	50	42	28	46	38	25
Anthropology	176	129	106	175	132	105	175	127	106
Criminal justice and safety studies	95	92	18	103	100	21	110	107	22

TABLE A-4

Science, engineering, and health organizational units with graduate student enrollment, by detailed field: 2017–19

(Number)

Field	2017[a]			2018			2019		
	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
Economics (except agricultural)	251	197	135	263	202	149	267	209	152
Geography and cartography	159	148	70	166	159	68	166	159	67
History and philosophy of science	14	8	13	15	9	14	15	8	14
Human development	58	50	24	65	55	27	67	59	26
International relations and national security studies	88	84	15	97	91	17	94	88	16
Linguistics	104	75	63	102	78	56	101	73	59
Political science and government	221	170	128	221	168	128	222	166	131
Public policy analysis	124	89	54	133	102	56	143	110	58
Sociology	235	169	127	234	165	129	235	162	130
Social sciences nec	414	336	152	451	365	165	456	371	172
Engineering	2,190	1,965	1,339	2,246	2,016	1,338	2,272	2,051	1,354
Aerospace, aeronautical, and astronautical engineering	62	60	48	63	62	48	64	62	49
Agricultural engineering	36	32	28	30	29	25	33	31	26
Bioengineering and biomedical engineering	180	157	129	192	166	138	193	168	140
Biological and biosystems engineering	11	7	10	14	8	13	15	10	14
Chemical engineering	161	146	130	164	145	128	159	145	128
Civil engineering	315	288	187	326	302	187	330	308	185
Electrical, electronics, and communications engineering	415	391	233	417	392	221	421	395	225
Engineering mechanics, physics, and science	59	45	42	59	44	42	65	47	43
Industrial and manufacturing engineering	210	189	105	213	194	101	223	204	102
Mechanical engineering	260	243	168	261	250	166	263	253	164
Metallurgical and materials engineering	112	91	89	120	99	90	119	106	90
Mining engineering	31	26	17	28	26	15	25	24	15
Nanotechnology	8	5	3	6	4	2	7	4	3
Nuclear engineering	33	29	27	34	31	29	31	30	29
Petroleum engineering	23	21	15	25	23	15	26	24	15
Engineering nec	274	235	108	294	241	118	298	240	126

TABLE A-4

Science, engineering, and health organizational units with graduate student enrollment, by detailed field: 2017–19

(Number)

Field	2017[a]			2018			2019		
	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
Health	1,337	1,011	606	1,416	1,093	632	1,426	1,111	633
Clinical medicine[d]	448	387	177	489	429	184	499	442	185
Public health	403	348	161	439	386	165	446	399	165
Clinical medicine nec	45	39	16	50	43	19	53	43	20
Other health	889	624	429	927	664	448	927	669	448
Communication disorders sciences	234	206	74	237	215	73	244	223	70
Dental sciences	94	84	22	101	90	24	87	78	20
Nursing science	129	22	116	119	17	111	125	18	117
Pharmaceutical sciences	103	64	79	117	72	91	119	77	92
Veterinary biomedical and clinical sciences	37	30	22	36	28	23	38	28	25
Other health nec	292	218	116	317	242	126	314	245	124

ne = not eligible.

nec = not elsewhere classified.

[a] The number of units is not strictly comparable between 2017 and prior years as the change in data collection led to existing units to be split by Classification of Instructional Programs (CIP) code. Additionally, many schools reorganized units voluntarily, leading to a large increase in overall units.

[b] Several field names changed in 2017; the field names listed in this table are the field names used in the Survey of Graduate Students and Postdoctorates in Science and Engineering collection and reporting for 2017. For a complete list of field names used prior to 2017, see https://ncsesdata.nsf.gov/gradpostdoc/2016/html/GSS2016_TTA_17.html.

[c] In 2017, the biological and biomedical sciences fields were reorganized. Part of nutritional sciences became ineligible in 2017; aside from this, all other deleted fields in the biological and biomedical sciences remained eligible under a different field name. For fields such as zoology and animal biology, which existed in 2017 and earlier, the composition of subfields in this field changed.

[d] Clinical medicine includes graduate students in public health and clinical medicine not elsewhere classified.

Source(s):

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