TABLE A-4

Science, engineering, and health organizational units with graduate student enrollment, by detailed field: 2020–22

(Number)

Field	2020			2021			2022		
	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]	13,659	10,704	7,205	13,928	10,864	7,346	14,354	11,148	7,545
Science	9,720	7,364	5,161	9,898	7,467	5,256	10,192	7,666	5,393
Agricultural and veterinary sciences	333	299	212	331	297	211	352	308	223
Agricultural sciences	300	275	187	298	271	187	318	283	201
Veterinary biomedical and clinical sciences[b]	33	24	25	33	26	24	34	25	22
Biological and biomedical sciences	2,632	1,591	1,814	2,694	1,604	1,860	2,776	1,696	1,890
Biochemistry	180	87	150	183	85	153	187	90	158
Biology	382	336	162	383	338	157	389	341	158
Biomedical sciences	174	119	100	175	112	106	185	130	107
Biophysics	39	6	39	42	6	41	38	6	38
Biostatistics and bioinformatics	194	139	120	196	146	123	204	153	126
Biotechnology	85	80	7	85	78	9	88	82	8
Botany and plant biology	68	55	58	61	51	55	65	55	57
Cell, cellular biology, and anatomical sciences	186	76	154	199	81	161	195	92	157
Ecology and population biology	108	74	78	109	73	80	113	74	80
Epidemiology	86	61	63	88	61	65	101	69	70
Genetics	93	49	71	93	46	72	99	50	76
Microbiological sciences and immunology	172	82	143	180	84	149	184	88	150
Molecular biology	54	20	41	54	21	40	53	22	39
Neurobiology and neuroscience	169	42	153	175	41	159	187	47	167
Nutrition science	103	87	56	112	97	55	116	100	58
Pathology and experimental pathology	43	12	37	45	16	39	40	13	34
Pharmacology and toxicology	135	56	117	141	57	122	147	61	129
Physiology	192	107	137	202	107	146	206	111	148
Zoology and animal biology	72	59	64	70	59	60	79	65	66
Biological and biomedical sciences nec	97	44	64	101	45	68	100	47	64
Computer and information sciences	976	899	275	1,023	945	288	1,075	982	308
Artificial intelligence, informatics, and computer and information science topics	78	69	18	84	77	20	92	81	21
Computer and information sciences	209	180	81	215	185	86	213	178	91
Computer and information systems security	123	121	6	142	140	7	160	157	8
Computer science	268	252	116	273	254	125	291	266	137

TABLE A-4

Science, engineering, and health organizational units with graduate student enrollment, by detailed field: 2020–22

(Number)

Field	2020			2021			2022		
	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	129	118	31	127	117	29	131	120	31
Information technology	84	81	10	90	86	11	98	94	11
Computer and information sciences nec	85	78	13	92	86	10	90	86	9
Geosciences, atmospheric sciences, and ocean sciences	396	338	267	391	331	267	396	335	266
Atmospheric sciences and meteorology	51	43	43	51	41	42	59	48	46
Geological and earth sciences	260	225	166	258	223	166	260	224	163
Ocean and marine sciences	85	70	58	82	67	59	77	63	57
Mathematics and statistics	710	614	331	724	628	335	748	644	345
Applied mathematics	200	162	79	212	176	80	218	183	80
Mathematics	318	278	163	313	270	165	323	275	171
Statistics	192	174	89	199	182	90	207	186	94
Multidisciplinary and interdisciplinary sciences[c]	354	279	124	396	311	136	439	354	145
Biological and physical sciences	37	31	15	34	26	16	38	29	17
Computational science	47	37	15	50	41	17	56	48	15
Data science and data analytics	35	34	2	50	49	2	70	69	5
International and global studies	30	27	7	34	29	9	33	30	8
Multidisciplinary and interdisciplinary sciences nec	205	150	85	228	166	92	242	178	100
Natural resources and conservation	354	302	152	362	316	154	381	320	168
Environmental science and studies	199	163	70	207	179	70	218	177	81
Forestry, natural resources, and conservation	155	139	82	155	137	84	163	143	87
Physical sciences	783	572	545	779	570	544	806	577	565
Astronomy and astrophysics	58	15	51	58	15	51	61	15	54
Chemistry	354	284	224	355	287	228	356	292	229
Materials sciences	59	37	47	54	37	41	63	36	48
Physics	284	215	210	282	209	211	298	216	219
Physical sciences nec	28	21	13	30	22	13	28	18	15
Psychology	1,143	827	503	1,141	818	509	1,158	828	518
Applied psychology	391	330	141	399	337	143	416	352	148
Clinical psychology	126	65	71	122	61	67	123	63	66
Counseling psychology	130	97	44	127	94	48	121	90	47
Human development[d]	71	63	27	72	61	29	70	60	27
Psychology, general	274	204	117	267	199	110	264	197	109

TABLE A-4

Science, engineering, and health organizational units with graduate student enrollment, by detailed field: 2020–22

(Number)

Field	2020			2021			2022		
	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
Research and experimental psychology	151	68	103	154	66	112	164	66	121
Social sciences	2,039	1,643	938	2,057	1,647	952	2,061	1,622	965
Agricultural and natural resource economics	42	36	20	40	36	17	37	32	16
Anthropology	173	134	103	175	127	108	178	128	111
Area, ethnic, cultural, gender, and group studies	311	249	121	309	246	116	292	227	116
Criminal justice and safety studies	112	108	21	115	110	22	119	114	23
Criminology	42	39	14	43	41	13	46	43	14
Economics (except agricultural and natural resource)	268	211	146	276	219	157	295	229	164
Geography and cartography	169	162	69	173	166	69	164	157	65
International relations and national security studies	98	94	13	104	98	16	100	96	12
Linguistics	104	74	63	106	77	63	107	77	64
Political science and government	211	161	127	210	166	125	213	158	131
Public policy analysis	148	112	60	141	106	58	148	112	60
Sociology	230	162	127	228	154	129	224	148	127
Urban studies and affairs	37	30	14	38	29	15	39	30	15
Social sciences, other[e]	94	71	40	99	72	44	99	71	47
Engineering[f]	2,459	2,188	1,416	2,479	2,204	1,437	2,545	2,250	1,455
Aerospace, aeronautical, and astronautical engineering	69	65	51	72	70	51	73	71	52
Biological, biomedical, and biosystems engineering[e]	220	186	155	228	191	163	234	193	167
Chemical, petroleum, and chemical-related engineering	189	169	144	193	174	144	202	182	147
Chemical engineering	163	145	128	169	152	128	174	157	130
Petroleum engineering	26	24	16	24	22	16	28	25	17
Civil, environmental, transportation and related engineering fields	379	350	203	367	336	205	388	357	209
Civil engineering	249	233	151	239	223	146	249	233	148
Architectural, environmental, construction and surveying engineering	130	117	52	128	113	59	139	124	61
Electrical, electronics, communications and computer engineering	466	434	242	469	433	242	481	441	247

TABLE A-4

Science, engineering, and health organizational units with graduate student enrollment, by detailed field: 2020–22

(Number)

Field	2020			2021			2022		
	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
Electrical, electronics, and communications engineering	287	265	172	290	265	174	299	272	178
Computer engineering	179	169	70	179	168	68	182	169	69
Industrial, manufacturing, systems engineering and operations research	243	222	110	248	225	115	241	224	107
Industrial and manufacturing engineering	134	129	61	129	125	60	125	121	61
Systems engineering and operations research	109	93	49	119	100	55	116	103	46
Mechanical engineering	284	263	169	298	279	174	301	279	178
Metallurgical, mining, materials and related engineering fields[e]	152	133	109	154	133	114	147	127	106
Other engineering	457	366	233	450	363	229	478	376	242
Agricultural engineering	32	29	27	31	29	26	34	31	27
Engineering mechanics, physics, and science	72	51	45	68	47	45	68	46	47
Nuclear engineering	33	31	30	32	30	28	29	27	26
Engineering, other[e]	320	255	131	319	257	130	347	272	142
Health	1,480	1,152	628	1,551	1,193	653	1,617	1,232	697
Clinical medicine	538	473	195	585	500	211	600	513	218
Medical clinical sciences and clinical and medical laboratory sciences	62	50	23	80	61	29	75	56	30
Public health	476	423	172	505	439	182	525	457	188
Other health	942	679	433	966	693	442	1,017	719	479
Communication disorders sciences	249	228	68	250	234	67	259	240	72
Dental sciences	87	79	19	90	78	21	97	84	23
Kinesiology and exercise science	159	151	42	170	158	46	176	162	47
Nursing science	137	22	121	140	24	125	149	24	136
Pharmaceutical sciences	127	83	95	127	83	94	135	88	101
Other health nec	183	116	88	189	116	89	201	121	100

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 Survey of Graduate Students and Postdoctorates in Science and Engineering (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 table only contains fields where graduate students may be reported. Graduate student data in this table include master's students in health sciences. For more information on the comparability of these counts to other data published by the National Center for Science and Engineering Statistics, see the "Technical Notes."

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