

TABLE A-4

Science, engineering, and health organizational units with graduate student enrollment, by detailed field: 2019–21

(Number)

Field	2019			2020			2021		
	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	13,149	10,281	7,135	13,659	10,704	7,205	13,928	10,864	7,346
Science	9,451	7,119	5,148	9,720	7,364	5,161	9,898	7,467	5,256
Agricultural and veterinary sciences	291	268	185	333	299	212	331	297	211
Agricultural sciences	291	268	185	300	275	187	298	271	187
Veterinary biomedical and clinical sciences ^b	na	na	na	33	24	25	33	26	24
Biological and biomedical sciences	2,638	1,581	1,848	2,632	1,591	1,814	2,694	1,604	1,860
Biochemistry	190	93	158	180	87	150	183	85	153
Biology	386	338	166	382	336	162	383	338	157
Biomedical sciences	175	112	106	174	119	100	175	112	106
Biophysics	44	6	44	39	6	39	42	6	41
Biostatistics and bioinformatics	185	135	119	194	139	120	196	146	123
Biotechnology	76	71	8	85	80	7	85	78	9
Botany and plant biology	67	55	57	68	55	58	61	51	55
Cell, cellular biology, and anatomical sciences	187	79	154	186	76	154	199	81	161
Ecology and population biology	107	67	79	108	74	78	109	73	80
Epidemiology	85	58	65	86	61	63	88	61	65
Genetics	98	48	73	93	49	71	93	46	72
Microbiological sciences and immunology	174	79	146	172	82	143	180	84	149
Molecular biology	53	20	40	54	20	41	54	21	40
Neurobiology and neuroscience	178	44	160	169	42	153	175	41	159
Nutrition science	101	92	53	103	87	56	112	97	55
Pathology and experimental pathology	44	14	39	43	12	37	45	16	39
Pharmacology and toxicology	130	63	114	135	56	117	141	57	122
Physiology	179	97	132	192	107	137	202	107	146
Zoology and animal biology	75	62	65	72	59	64	70	59	60
Biological and biomedical sciences nec	104	48	70	97	44	64	101	45	68
Computer and information sciences	905	833	266	976	899	275	1,023	945	288
Artificial intelligence, informatics, and computer and information science topics	na	na	na	78	69	18	84	77	20
Computer and information sciences	350	311	108	209	180	81	215	185	86
Computer and information systems security	na	na	na	123	121	6	142	140	7
Computer science	264	248	111	268	252	116	273	254	125

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Information science and studies	na	na	na	129	118	31	127	117	29
Information technology	na	na	na	84	81	10	90	86	11
Computer and information sciences nec	291	274	47	85	78	13	92	86	10
Geosciences, atmospheric sciences, and ocean sciences	390	335	265	396	338	267	391	331	267
Atmospheric sciences and meteorology	49	39	43	51	43	43	51	41	42
Geological and earth sciences	264	228	169	260	225	166	258	223	166
Ocean and marine sciences	77	68	53	85	70	58	82	67	59
Mathematics and statistics	659	571	326	710	614	331	724	628	335
Applied mathematics	na	na	na	200	162	79	212	176	80
Mathematics	na	na	na	318	278	163	313	270	165
Mathematics and applied mathematics	476	406	237	na	na	na	na	na	na
Statistics	183	165	89	192	174	89	199	182	90
Multidisciplinary and interdisciplinary studies ^c	300	232	113	354	279	124	396	311	136
Biological and physical sciences	na	na	na	37	31	15	34	26	16
Computational science	na	na	na	47	37	15	50	41	17
Data science and data analytics	NA	NA	NA	35	34	2	50	49	2
International and global studies	na	na	na	30	27	7	34	29	9
Multidisciplinary and interdisciplinary studies nec	na	na	na	205	150	85	228	166	92
Natural resources and conservation	356	312	148	354	302	152	362	316	154
Environmental science and studies	199	171	66	199	163	70	207	179	70
Forestry, natural resources, and conservation	157	141	82	155	139	82	155	137	84
Physical sciences	786	575	554	783	572	545	779	570	544
Astronomy and astrophysics	63	17	57	58	15	51	58	15	51
Chemistry	357	284	229	354	284	224	355	287	228
Materials sciences	51	36	40	59	37	47	54	37	41
Physics	288	219	216	284	215	210	282	209	211
Physical sciences nec	27	19	12	28	21	13	30	22	13
Psychology	1,029	735	465	1,143	827	503	1,141	818	509
Applied psychology	na	na	na	391	330	141	399	337	143
Clinical psychology	128	63	76	126	65	71	122	61	67
Counseling psychology	na	na	na	130	97	44	127	94	48

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Counseling and applied psychology	491	397	179	na	na	na	na	na	na
Human development ^d	na	na	na	71	63	27	72	61	29
Psychology, general	287	215	125	274	204	117	267	199	110
Research and experimental psychology	123	60	85	151	68	103	154	66	112
Social sciences	2,097	1,677	978	2,039	1,643	938	2,057	1,647	952
Agricultural and natural resource economics	46	38	25	42	36	20	40	36	17
Anthropology	175	127	106	173	134	103	175	127	108
Area, ethnic, cultural, gender, and group studies	na	na	na	311	249	121	309	246	116
Criminal justice and safety studies	110	107	22	112	108	21	115	110	22
Criminology	na	na	na	42	39	14	43	41	13
Economics (except agricultural and natural resource)	267	209	152	268	211	146	276	219	157
Geography and cartography	166	159	67	169	162	69	173	166	69
Human development ^d	67	59	26	na	na	na	na	na	na
International relations and national security studies	94	88	16	98	94	13	104	98	16
Linguistics	101	73	59	104	74	63	106	77	63
Political science and government	222	166	131	211	161	127	210	166	125
Public policy analysis	143	110	58	148	112	60	141	106	58
Sociology	235	162	130	230	162	127	228	154	129
Urban studies and affairs	na	na	na	37	30	14	38	29	15
Social sciences, other ^e	na	na	na	94	71	40	99	72	44
History and philosophy of science ^e	15	8	14	na	na	na	na	na	na
Social sciences nec ^e	456	371	172	na	na	na	na	na	na
Engineering ^f	2,272	2,051	1,354	2,459	2,188	1,416	2,479	2,204	1,437
Aerospace, aeronautical, and astronautical engineering	64	62	49	69	65	51	72	70	51
Biological, biomedical, and biosystems engineering ^e	na	na	na	220	186	155	228	191	163
Bioengineering and biomedical engineering ^e	193	168	140	na	na	na	na	na	na
Biological and biosystems engineering ^e	15	10	14	na	na	na	na	na	na
Chemical, petroleum, and chemical-related engineering	185	169	143	189	169	144	193	174	144
Chemical engineering	159	145	128	163	145	128	169	152	128
Petroleum engineering	26	24	15	26	24	16	24	22	16

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Civil, environmental, transportation and related engineering fields	330	308	185	379	350	203	367	336	205
Civil engineering	330	308	185	249	233	151	239	223	146
Architectural, environmental, construction and surveying engineering	na	na	na	130	117	52	128	113	59
Electrical, electronics, communications and computer engineering	421	395	225	466	434	242	469	433	242
Electrical, electronics, and communications engineering	421	395	225	287	265	172	290	265	174
Computer engineering	na	na	na	179	169	70	179	168	68
Industrial, manufacturing, systems engineering and operations research	223	204	102	243	222	110	248	225	115
Industrial and manufacturing engineering	223	204	102	134	129	61	129	125	60
Systems engineering and operations research	na	na	na	109	93	49	119	100	55
Mechanical engineering	263	253	164	284	263	169	298	279	174
Metallurgical, mining, materials and related engineering fields ^e	144	130	105	152	133	109	154	133	114
Metallurgical and materials engineering ^e	119	106	90	na	na	na	na	na	na
Mining engineering ^e	25	24	15	na	na	na	na	na	na
Other engineering	434	352	227	457	366	233	450	363	229
Agricultural engineering	33	31	26	32	29	27	31	29	26
Engineering mechanics, physics, and science	65	47	43	72	51	45	68	47	45
Nuclear engineering	31	30	29	33	31	30	32	30	28
Engineering, other ^e	na	na	na	320	255	131	319	257	130
Nanotechnology ^e	7	4	3	na	na	na	na	na	na
Engineering nec ^e	298	240	126	na	na	na	na	na	na
Health	1,426	1,111	633	1,480	1,152	628	1,551	1,193	653
Clinical medicine	499	442	185	538	473	195	585	500	211
Medical clinical sciences and clinical and medical laboratory sciences	NA	NA	NA	62	50	23	80	61	29
Public health	446	399	165	476	423	172	505	439	182
Clinical medicine nec	53	43	20	ne	ne	ne	ne	ne	ne
Other health	927	669	448	942	679	433	966	693	442
Communication disorders sciences	244	223	70	249	228	68	250	234	67
Dental sciences	87	78	20	87	79	19	90	78	21
Kinesiology and exercise science	na	na	na	159	151	42	170	158	46

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Nursing science	125	18	117	137	22	121	140	24	125
Pharmaceutical sciences	119	77	92	127	83	95	127	83	94
Veterinary biomedical and clinical sciences ^b	38	28	25	na	na	na	na	na	na
Other health nec	314	245	124	183	116	88	189	116	89

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://nces.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.