

TABLE A-4

Science, engineering, and health organizational units with graduate student enrollment, by detailed field: 2021–23

(Number)

Field	2021			2022			2023		
	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	13,928	10,864	7,346	14,354	11,148	7,545	14,304	11,137	7,473
Science	9,898	7,467	5,256	10,192	7,666	5,393	10,146	7,655	5,333
Agricultural and veterinary sciences	331	297	211	352	308	223	345	299	220
Agricultural sciences	298	271	187	318	283	201	307	273	195
Veterinary biomedical and clinical sciences	33	26	24	34	25	22	38	26	25
Biological and biomedical sciences	2,694	1,604	1,860	2,776	1,696	1,890	2,743	1,682	1,863
Biochemistry	183	85	153	187	90	158	177	81	151
Biology	383	338	157	389	341	158	399	352	161
Biomedical sciences	175	112	106	185	130	107	189	124	110
Biophysics	42	6	41	38	6	38	40	4	40
Biostatistics and bioinformatics	196	146	123	204	153	126	204	146	128
Biotechnology	85	78	9	88	82	8	91	84	10
Botany and plant biology	61	51	55	65	55	57	61	55	54
Cell, cellular biology, and anatomical sciences	199	81	161	195	92	157	182	83	149
Ecology and population biology	109	73	80	113	74	80	107	72	79
Epidemiology	88	61	65	101	69	70	106	78	70
Genetics	93	46	72	99	50	76	100	48	75
Microbiological sciences and immunology	180	84	149	184	88	150	179	86	147
Molecular biology	54	21	40	53	22	39	48	19	35
Neurobiology and neuroscience	175	41	159	187	47	167	179	48	164
Nutrition science	112	97	55	116	100	58	121	103	61
Pathology and experimental pathology	45	16	39	40	13	34	45	14	36
Pharmacology and toxicology	141	57	122	147	61	129	141	60	124
Physiology	202	107	146	206	111	148	209	121	147
Zoology and animal biology	70	59	60	79	65	66	68	58	58
Biological and biomedical sciences nec	101	45	68	100	47	64	97	46	64
Computer and information sciences	1,023	945	288	1,075	982	308	1,115	1,017	319
Artificial intelligence, informatics, and computer and information science topics	84	77	20	92	81	21	98	88	25
Computer and information sciences	215	185	86	213	178	91	221	182	94
Computer and information systems security	142	140	7	160	157	8	178	173	11
Computer science	273	254	125	291	266	137	296	272	137
Information science and studies	127	117	29	131	120	31	132	121	32
Information technology	90	86	11	98	94	11	100	95	12
Computer and information sciences nec	92	86	10	90	86	9	90	86	8
Geosciences, atmospheric, and ocean sciences	391	331	267	396	335	266	382	322	265

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Atmospheric sciences and meteorology	51	41	42	59	48	46	49	39	43
Geological and earth sciences	258	223	166	260	224	163	254	219	164
Ocean and marine sciences	82	67	59	77	63	57	79	64	58
Mathematics and statistics	724	628	335	748	644	345	746	648	338
Applied mathematics	212	176	80	218	183	80	215	181	75
Mathematics	313	270	165	323	275	171	318	274	167
Statistics	199	182	90	207	186	94	213	193	96
Multidisciplinary and interdisciplinary sciences	396	311	136	439	354	145	493	405	159
Biological and physical sciences	34	26	16	38	29	17	43	34	17
Computational science	50	41	17	56	48	15	57	50	14
Data science and data analytics	50	49	2	70	69	5	102	99	10
International and global studies	34	29	9	33	30	8	33	31	6
Multidisciplinary and interdisciplinary sciences nec	228	166	92	242	178	100	258	191	112
Natural resources and conservation	362	316	154	381	320	168	377	329	160
Environmental science and studies	207	179	70	218	177	81	213	181	76
Forestry, natural resources, and conservation	155	137	84	163	143	87	164	148	84
Physical sciences	779	570	544	806	577	565	786	559	556
Astronomy and astrophysics	58	15	51	61	15	54	60	17	53
Chemistry	355	287	228	356	292	229	350	275	229
Materials sciences	54	37	41	63	36	48	62	38	48
Physics	282	209	211	298	216	219	286	209	212
Physical sciences nec	30	22	13	28	18	15	28	20	14
Psychology	1,141	818	509	1,158	828	518	1,145	809	509
Applied psychology	399	337	143	416	352	148	412	345	144
Clinical psychology	122	61	67	123	63	66	119	57	67
Counseling psychology	127	94	48	121	90	47	117	86	44
Human development	72	61	29	70	60	27	68	55	28
Psychology, general	267	199	110	264	197	109	245	187	94
Research and experimental psychology	154	66	112	164	66	121	184	79	132
Social sciences	2,057	1,647	952	2,061	1,622	965	2,014	1,585	944
Agricultural and natural resource economics	40	36	17	37	32	16	32	28	11
Anthropology	175	127	108	178	128	111	171	122	108
Area, ethnic, cultural, gender, and group studies	309	246	116	292	227	116	302	236	123
Criminal justice and safety studies	115	110	22	119	114	23	117	115	21
Criminology	43	41	13	46	43	14	48	44	16

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Economics (except agricultural and natural resource)	276	219	157	295	229	164	284	220	165
Geography and cartography	173	166	69	164	157	65	146	141	54
International relations and national security studies	104	98	16	100	96	12	103	100	12
Linguistics	106	77	63	107	77	64	105	81	63
Political science and government	210	166	125	213	158	131	206	153	126
Public policy analysis	141	106	58	148	112	60	137	104	56
Sociology	228	154	129	224	148	127	217	136	129
Urban studies and affairs	38	29	15	39	30	15	40	33	13
Social sciences, other	99	72	44	99	71	47	106	72	47
Engineering	2,479	2,204	1,437	2,545	2,250	1,455	2,562	2,254	1,460
Aerospace, aeronautical, and astronautical engineering	72	70	51	73	71	52	75	74	52
Biological, biomedical, and biosystems engineering	228	191	163	234	193	167	244	206	170
Chemical, petroleum, and chemical-related engineering	193	174	144	202	182	147	195	173	149
Chemical engineering	169	152	128	174	157	130	173	153	134
Petroleum engineering	24	22	16	28	25	17	22	20	15
Civil, environmental, transportation and related engineering fields	367	336	205	388	357	209	385	347	209
Civil engineering	239	223	146	249	233	148	250	229	148
Architectural, environmental, construction and surveying engineering	128	113	59	139	124	61	135	118	61
Electrical, electronics, communications and computer engineering	469	433	242	481	441	247	482	442	244
Electrical, electronics, and communications engineering	290	265	174	299	272	178	302	274	177
Computer engineering	179	168	68	182	169	69	180	168	67
Industrial, manufacturing, systems engineering and operations research	248	225	115	241	224	107	244	226	106
Industrial and manufacturing engineering	129	125	60	125	121	61	131	127	63
Systems engineering and operations research	119	100	55	116	103	46	113	99	43
Mechanical engineering	298	279	174	301	279	178	310	287	179
Metallurgical, mining, materials and related engineering fields	154	133	114	147	127	106	151	125	109
Other engineering	450	363	229	478	376	242	476	374	242
Agricultural engineering	31	29	26	34	31	27	36	31	29
Engineering mechanics, physics, and science	68	47	45	68	46	47	68	45	46
Nuclear engineering	32	30	28	29	27	26	28	27	25
Engineering, other	319	257	130	347	272	142	344	271	142
Health	1,551	1,193	653	1,617	1,232	697	1,596	1,228	680
Clinical medicine	585	500	211	600	513	218	594	506	215
Medical clinical sciences and clinical and medical laboratory sciences	80	61	29	75	56	30	83	62	33
Public health	505	439	182	525	457	188	511	444	182

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Other health	966	693	442	1,017	719	479	1,002	722	465
Communication disorders sciences	250	234	67	259	240	72	270	250	74
Dental sciences	90	78	21	97	84	23	89	79	20
Kinesiology and exercise science	170	158	46	176	162	47	164	149	43
Nursing science	140	24	125	149	24	136	146	26	133
Pharmaceutical sciences	127	83	94	135	88	101	127	89	93
Other health nec	189	116	89	201	121	100	206	129	102

nec = not elsewhere classified.

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.