

Table 3-4

Enrollment status of S&E graduate students, by field, degree, and sex: 2018

(Number)

Field and degree	All S&E graduate students			Female			Male		
	Total	Full time	Part time	Total	Full time	Part time	Total	Full time	Part time
All S&E graduate students	595,556	441,584	153,972	254,188	190,788	63,400	341,368	250,796	90,572
Science	432,255	321,063	111,192	212,822	158,965	53,857	219,433	162,098	57,335
Agricultural sciences	9,538	6,899	2,639	5,190	3,818	1,372	4,348	3,081	1,267
Biological and biomedical sciences	87,933	74,013	13,920	50,770	42,265	8,505	37,163	31,748	5,415
Computer and information sciences	93,478	57,789	35,689	28,567	18,579	9,988	64,911	39,210	25,701
Geosciences, atmospheric sciences, and ocean sciences	12,333	9,770	2,563	5,613	4,489	1,124	6,720	5,281	1,439
Mathematics and statistics	31,461	24,955	6,506	11,767	9,077	2,690	19,694	15,878	3,816
Multidisciplinary and interdisciplinary studies	10,338	6,656	3,682	5,476	3,708	1,768	4,862	2,948	1,914
Natural resources and conservation	11,407	8,034	3,373	6,256	4,480	1,776	5,151	3,554	1,597
Physical sciences	42,075	37,671	4,404	14,212	12,681	1,531	27,863	24,990	2,873
Psychology	55,707	38,525	17,182	42,792	29,417	13,375	12,915	9,108	3,807
Social sciences	77,985	56,751	21,234	42,179	30,451	11,728	35,806	26,300	9,506
Engineering	163,301	120,521	42,780	41,366	31,823	9,543	121,935	88,698	33,237
Aerospace, aeronautical, and astronautical engineering	5,848	4,301	1,547	983	717	266	4,865	3,584	1,281
Agricultural engineering	1,032	858	174	401	338	63	631	520	111
Bioengineering and biomedical engineering	11,480	9,933	1,547	4,915	4,269	646	6,565	5,664	901
Biological and biosystems engineering	283	199	84	106	80	26	177	119	58
Chemical engineering	10,011	8,803	1,208	3,174	2,804	370	6,837	5,999	838
Civil engineering	20,461	14,862	5,599	6,530	4,920	1,610	13,931	9,942	3,989
Electrical, electronics, and communications engineering	46,227	34,814	11,413	10,138	7,940	2,198	36,089	26,874	9,215
Engineering mechanics, physics, and science	2,157	1,768	389	520	455	65	1,637	1,313	324
Industrial and manufacturing engineering	15,987	9,393	6,594	4,402	2,695	1,707	11,585	6,698	4,887
Mechanical engineering	26,593	20,076	6,517	4,315	3,379	936	22,278	16,697	5,581
Metallurgical and materials engineering	6,689	5,823	866	2,067	1,798	269	4,622	4,025	597
Mining engineering	527	381	146	130	102	28	397	279	118
Nanotechnology	118	103	15	34	31	3	84	72	12
Nuclear engineering	1,453	1,208	245	254	214	40	1,199	994	205
Petroleum engineering	1,403	1,056	347	272	197	75	1,131	859	272
Engineering nec	13,032	6,943	6,089	3,125	1,884	1,241	9,907	5,059	4,848
All S&E master's students	334,391	210,287	124,104	145,939	94,759	51,180	188,452	115,528	72,924
Science	241,327	151,059	90,268	122,914	79,260	43,654	118,413	71,799	46,614
Agricultural sciences	5,658	3,626	2,032	3,210	2,128	1,082	2,448	1,498	950
Biological and biomedical sciences	35,306	24,759	10,547	22,062	15,365	6,697	13,244	9,394	3,850
Computer and information sciences	77,351	44,193	33,158	24,455	15,087	9,368	52,896	29,106	23,790
Geosciences, atmospheric sciences, and ocean sciences	5,629	3,820	1,809	2,546	1,726	820	3,083	2,094	989
Mathematics and statistics	18,073	12,707	5,366	7,861	5,518	2,343	10,212	7,189	3,023
Multidisciplinary and interdisciplinary studies	7,414	4,268	3,146	3,972	2,478	1,494	3,442	1,790	1,652
Natural resources and conservation	7,691	5,072	2,619	4,303	2,913	1,390	3,388	2,159	1,229
Physical sciences	6,075	3,915	2,160	2,326	1,477	849	3,749	2,438	1,311
Psychology	35,404	21,987	13,417	28,152	17,432	10,720	7,252	4,555	2,697
Social sciences	42,726	26,712	16,014	24,027	15,136	8,891	18,699	11,576	7,123
Engineering	93,064	59,228	33,836	23,025	15,499	7,526	70,039	43,729	26,310
Aerospace, aeronautical, and astronautical engineering	3,342	2,128	1,214	582	363	219	2,760	1,765	995
Agricultural engineering	371	286	85	136	108	28	235	178	57

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(Number)

Field and degree	All S&E graduate students			Female			Male		
	Total	Full time	Part time	Total	Full time	Part time	Total	Full time	Part time
Bioengineering and biomedical engineering	4,202	3,369	833	1,875	1,508	367	2,327	1,861	466
Biological and biosystems engineering	80	50	30	30	23	7	50	27	23
Chemical engineering	3,061	2,220	841	961	692	269	2,100	1,528	572
Civil engineering	12,729	8,289	4,440	4,002	2,728	1,274	8,727	5,561	3,166
Electrical, electronics, and communications engineering	28,108	19,341	8,767	6,745	4,984	1,761	21,363	14,357	7,006
Engineering mechanics, physics, and science	729	472	257	165	129	36	564	343	221
Industrial and manufacturing engineering	12,389	6,492	5,897	3,317	1,791	1,526	9,072	4,701	4,371
Mechanical engineering	15,434	10,178	5,256	2,263	1,527	736	13,171	8,651	4,520
Metallurgical and materials engineering	2,079	1,539	540	642	467	175	1,437	1,072	365
Mining engineering	316	211	105	83	61	22	233	150	83
Nanotechnology	47	32	15	12	9	3	35	23	12
Nuclear engineering	407	273	134	48	30	18	359	243	116
Petroleum engineering	754	477	277	140	83	57	614	394	220
Engineering nec	9,016	3,871	5,145	2,024	996	1,028	6,992	2,875	4,117
All S&E doctoral students	261,165	231,297	29,868	108,249	96,029	12,220	152,916	135,268	17,648
Science	190,928	170,004	20,924	89,908	79,705	10,203	101,020	90,299	10,721
Agricultural sciences	3,880	3,273	607	1,980	1,690	290	1,900	1,583	317
Biological and biomedical sciences	52,627	49,254	3,373	28,708	26,900	1,808	23,919	22,354	1,565
Computer and information sciences	16,127	13,596	2,531	4,112	3,492	620	12,015	10,104	1,911
Geosciences, atmospheric sciences, and ocean sciences	6,704	5,950	754	3,067	2,763	304	3,637	3,187	450
Mathematics and statistics	13,388	12,248	1,140	3,906	3,559	347	9,482	8,689	793
Multidisciplinary and interdisciplinary studies	2,924	2,388	536	1,504	1,230	274	1,420	1,158	262
Natural resources and conservation	3,716	2,962	754	1,953	1,567	386	1,763	1,395	368
Physical sciences	36,000	33,756	2,244	11,886	11,204	682	24,114	22,552	1,562
Psychology	20,303	16,538	3,765	14,640	11,985	2,655	5,663	4,553	1,110
Social sciences	35,259	30,039	5,220	18,152	15,315	2,837	17,107	14,724	2,383
Engineering	70,237	61,293	8,944	18,341	16,324	2,017	51,896	44,969	6,927
Aerospace, aeronautical, and astronautical engineering	2,506	2,173	333	401	354	47	2,105	1,819	286
Agricultural engineering	661	572	89	265	230	35	396	342	54
Bioengineering and biomedical engineering	7,278	6,564	714	3,040	2,761	279	4,238	3,803	435
Biological and biosystems engineering	203	149	54	76	57	19	127	92	35
Chemical engineering	6,950	6,583	367	2,213	2,112	101	4,737	4,471	266
Civil engineering	7,732	6,573	1,159	2,528	2,192	336	5,204	4,381	823
Electrical, electronics, and communications engineering	18,119	15,473	2,646	3,393	2,956	437	14,726	12,517	2,209
Engineering mechanics, physics, and science	1,428	1,296	132	355	326	29	1,073	970	103
Industrial and manufacturing engineering	3,598	2,901	697	1,085	904	181	2,513	1,997	516
Mechanical engineering	11,159	9,898	1,261	2,052	1,852	200	9,107	8,046	1,061
Metallurgical and materials engineering	4,610	4,284	326	1,425	1,331	94	3,185	2,953	232
Mining engineering	211	170	41	47	41	6	164	129	35
Nanotechnology	71	71	0	22	22	0	49	49	0
Nuclear engineering	1,046	935	111	206	184	22	840	751	89
Petroleum engineering	649	579	70	132	114	18	517	465	52
Engineering nec	4,016	3,072	944	1,101	888	213	2,915	2,184	731

nec = not elsewhere classified; S&E = science and engineering.

Source(s):

National Center for Science and Engineering Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering, 2018.