

Table 3-5

Enrollment status of S&E graduate students, by enrollment status, field, degree, citizenship, ethnicity, and race: 2018

(Number)

Enrollment status, field, and degree	Total	U.S. citizens and permanent residents								Temporary visa holders
		Hispanic or Latino ^a	Not Hispanic or Latino						Unknown ethnicity and race	
			American Indian or Alaska Native	Asian	Black or African American	Native Hawaiian or Other Pacific Islander	White	More than one race		
All S&E graduate students	595,556	41,833	1,614	39,288	28,879	606	228,182	12,806	20,839	221,509
Full time	441,584	28,079	1,062	26,518	16,785	386	154,257	9,081	12,459	192,957
Part time	153,972	13,754	552	12,770	12,094	220	73,925	3,725	8,380	28,552
Science	432,255	33,894	1,403	28,425	24,844	531	180,735	10,346	17,099	134,978
Full time	321,063	23,381	943	19,522	14,600	342	125,903	7,454	10,433	118,485
Part time	111,192	10,513	460	8,903	10,244	189	54,832	2,892	6,666	16,493
Agricultural sciences	9,538	601	34	241	354	14	5,031	171	188	2,904
Full time	6,899	450	26	178	237	6	3,197	111	115	2,579
Part time	2,639	151	8	63	117	8	1,834	60	73	325
Biological and biomedical sciences	87,933	7,577	260	8,108	4,923	167	42,825	2,450	3,678	17,945
Full time	74,013	6,316	208	6,994	3,949	136	34,843	2,065	2,887	16,615
Part time	13,920	1,261	52	1,114	974	31	7,982	385	791	1,330
Computer and information sciences	93,478	3,694	102	7,917	4,946	70	21,569	1,433	2,736	51,011
Full time	57,789	1,395	42	3,262	1,425	28	8,206	594	952	41,885
Part time	35,689	2,299	60	4,655	3,521	42	13,363	839	1,784	9,126
Geosciences, atmospheric sciences, and ocean sciences	12,333	831	49	382	240	7	7,352	350	441	2,681
Full time	9,770	632	33	297	168	3	5,585	287	331	2,434
Part time	2,563	199	16	85	72	4	1,767	63	110	247
Mathematics and statistics	31,461	1,478	57	2,161	676	9	9,508	472	956	16,144
Full time	24,955	966	27	1,427	378	5	6,445	361	595	14,751
Part time	6,506	512	30	734	298	4	3,063	111	361	1,393
Multidisciplinary and interdisciplinary studies	10,338	838	31	833	709	22	4,582	273	332	2,718
Full time	6,656	514	16	519	404	11	2,523	174	190	2,305
Part time	3,682	324	15	314	305	11	2,059	99	142	413
Natural resources and conservation	11,407	902	97	337	364	22	7,095	349	543	1,698
Full time	8,034	636	62	235	263	13	4,760	251	324	1,490
Part time	3,373	266	35	102	101	9	2,335	98	219	208
Physical sciences	42,075	2,540	78	2,277	1,007	22	17,737	853	1,100	16,461
Full time	37,671	2,206	63	2,035	806	19	15,506	759	908	15,369
Part time	4,404	334	15	242	201	3	2,231	94	192	1,092
Psychology	55,707	8,303	258	2,731	5,431	101	30,089	1,885	3,567	3,342
Full time	38,525	5,603	170	2,002	3,391	63	20,987	1,363	2,093	2,853
Part time	17,182	2,700	88	729	2,040	38	9,102	522	1,474	489
Social sciences	77,985	7,130	437	3,438	6,194	97	34,947	2,110	3,558	20,074
Full time	56,751	4,663	296	2,573	3,579	58	23,851	1,489	2,038	18,204
Part time	21,234	2,467	141	865	2,615	39	11,096	621	1,520	1,870
Engineering	163,301	7,939	211	10,863	4,035	75	47,447	2,460	3,740	86,531
Full time	120,521	4,698	119	6,996	2,185	44	28,354	1,627	2,026	74,472
Part time	42,780	3,241	92	3,867	1,850	31	19,093	833	1,714	12,059

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(Number)

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Aerospace, aeronautical, and astronautical engineering	5,848	366	15	424	96	2	2,744	166	130	1,905
Full time	4,301	234	8	298	65	1	1,838	119	83	1,655
Part time	1,547	132	7	126	31	1	906	47	47	250
Agricultural engineering	1,032	33	1	50	25	1	347	26	19	530
Full time	858	30	1	38	21	1	265	20	11	471
Part time	174	3	0	12	4	0	82	6	8	59
Bioengineering and biomedical engineering	11,480	792	14	1,558	375	13	4,356	304	337	3,731
Full time	9,933	676	10	1,341	305	12	3,705	260	252	3,372
Part time	1,547	116	4	217	70	1	651	44	85	359
Biological and biosystems engineering	283	12	1	6	3	1	113	8	7	132
Full time	199	8	1	3	2	1	76	7	2	99
Part time	84	4	0	3	1	0	37	1	5	33
Chemical engineering	10,011	363	10	759	203	3	3,040	155	211	5,267
Full time	8,803	294	9	640	163	2	2,526	133	168	4,868
Part time	1,208	69	1	119	40	1	514	22	43	399
Civil engineering	20,461	1,349	42	1,121	470	13	6,183	314	424	10,545
Full time	14,862	749	24	654	235	8	3,706	204	227	9,055
Part time	5,599	600	18	467	235	5	2,477	110	197	1,490
Electrical, electronics, and communications engineering	46,227	1,623	30	2,886	880	13	8,379	456	915	31,045
Full time	34,814	838	14	1,741	435	2	4,566	261	481	26,476
Part time	11,413	785	16	1,145	445	11	3,813	195	434	4,569
Engineering mechanics, physics, and science	2,157	72	4	142	49	1	727	35	67	1,060
Full time	1,768	56	2	127	36	1	516	28	31	971
Part time	389	16	2	15	13	0	211	7	36	89
Industrial and manufacturing engineering	15,987	814	18	1,028	558	8	4,312	173	494	8,582
Full time	9,393	288	6	365	207	5	1,392	52	155	6,923
Part time	6,594	526	12	663	351	3	2,920	121	339	1,659
Mechanical engineering	26,593	1,375	37	1,556	482	6	8,522	412	590	13,613
Full time	20,076	887	26	1,011	310	3	5,270	291	364	11,914
Part time	6,517	488	11	545	172	3	3,252	121	226	1,699
Metallurgical and materials engineering	6,689	335	11	421	143	3	2,174	120	99	3,383
Full time	5,823	279	8	347	117	3	1,766	106	74	3,123

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Part time	866	56	3	74	26	0	408	14	25	260
Mining engineering	527	21	5	8	17	1	267	9	8	191
Full time	381	15	2	6	13	0	165	8	4	168
Part time	146	6	3	2	4	1	102	1	4	23
Nanotechnology	118	9	0	12	4	0	45	4	4	40
Full time	103	7	0	9	3	0	39	3	3	39
Part time	15	2	0	3	1	0	6	1	1	1
Nuclear engineering	1,453	94	2	53	22	0	770	26	40	446
Full time	1,208	75	1	45	16	0	603	20	30	418
Part time	245	19	1	8	6	0	167	6	10	28
Petroleum engineering	1,403	46	1	49	26	0	222	15	32	1,012
Full time	1,056	14	1	31	17	0	110	10	18	855
Part time	347	32	0	18	9	0	112	5	14	157
Engineering nec	13,032	635	20	790	682	10	5,246	237	363	5,049
Full time	6,943	248	6	340	240	5	1,811	105	123	4,065
Part time	6,089	387	14	450	442	5	3,435	132	240	984
All S&E master's students	334,391	26,639	963	23,691	20,178	395	126,074	7,434	13,488	115,529
Full time	210,287	14,796	524	12,615	9,751	211	66,156	4,298	6,352	95,584
Part time	124,104	11,843	439	11,076	10,427	184	59,918	3,136	7,136	19,945
Science	241,327	21,203	823	16,933	17,560	350	97,081	5,915	11,184	70,278
Full time	151,059	12,213	456	9,137	8,671	193	53,065	3,483	5,443	58,398
Part time	90,268	8,990	367	7,796	8,889	157	44,016	2,432	5,741	11,880
Agricultural sciences	5,658	457	22	140	248	11	3,472	120	129	1,059
Full time	3,626	336	15	99	162	3	1,971	71	69	900
Part time	2,032	121	7	41	86	8	1,501	49	60	159
Biological and biomedical sciences	35,306	3,454	103	3,611	2,827	98	17,358	1,093	2,006	4,756
Full time	24,759	2,388	64	2,743	2,001	70	11,238	801	1,358	4,096
Part time	10,547	1,066	39	868	826	28	6,120	292	648	660
Computer and information sciences	77,351	3,320	90	7,015	4,558	58	17,940	1,215	2,321	40,834
Full time	44,193	1,103	33	2,556	1,183	18	5,489	426	656	32,729
Part time	33,158	2,217	57	4,459	3,375	40	12,451	789	1,665	8,105
Geosciences, atmospheric sciences, and ocean sciences	5,629	454	28	164	140	7	3,926	167	211	532
Full time	3,820	302	16	101	85	3	2,612	118	135	448
Part time	1,809	152	12	63	55	4	1,314	49	76	84
Mathematics and statistics	18,073	958	43	1,398	461	6	4,951	240	593	9,423
Full time	12,707	496	14	738	210	2	2,419	144	280	8,404
Part time	5,366	462	29	660	251	4	2,532	96	313	1,019
Multidisciplinary and interdisciplinary studies	7,414	654	22	641	554	17	3,149	207	234	1,936

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Full time	4,268	358	9	368	288	7	1,409	118	113	1,598
Part time	3,146	296	13	273	266	10	1,740	89	121	338
Natural resources and conservation	7,691	671	73	217	219	21	5,148	255	347	740
Full time	5,072	445	45	143	142	12	3,268	170	213	634
Part time	2,619	226	28	74	77	9	1,880	85	134	106
Physical sciences	6,075	612	24	378	327	9	2,603	161	212	1,749
Full time	3,915	376	13	225	198	8	1,442	104	98	1,451
Part time	2,160	236	11	153	129	1	1,161	57	114	298
Psychology	35,404	5,789	159	1,525	3,989	68	18,423	1,155	2,801	1,495
Full time	21,987	3,684	94	968	2,287	41	11,484	731	1,500	1,198
Part time	13,417	2,105	65	557	1,702	27	6,939	424	1,301	297
Social sciences	42,726	4,834	259	1,844	4,237	55	20,111	1,302	2,330	7,754
Full time	26,712	2,725	153	1,196	2,115	29	11,733	800	1,021	6,940
Part time	16,014	2,109	106	648	2,122	26	8,378	502	1,309	814
Engineering	93,064	5,436	140	6,758	2,618	45	28,993	1,519	2,304	45,251
Full time	59,228	2,583	68	3,478	1,080	18	13,091	815	909	37,186
Part time	33,836	2,853	72	3,280	1,538	27	15,902	704	1,395	8,065
Aerospace, aeronautical, and astronautical engineering	3,342	257	8	284	61	2	1,769	113	76	772
Full time	2,128	142	3	183	37	1	1,014	72	37	639
Part time	1,214	115	5	101	24	1	755	41	39	133
Agricultural engineering	371	14	0	22	7	0	192	12	10	114
Full time	286	14	0	17	5	0	137	9	4	100
Part time	85	0	0	5	2	0	55	3	6	14
Bioengineering and biomedical engineering	4,202	312	6	597	149	2	1,480	109	111	1,436
Full time	3,369	231	4	459	109	2	1,124	86	71	1,283
Part time	833	81	2	138	40	0	356	23	40	153
Biological and biosystems engineering	80	6	1	3	0	0	47	4	3	16
Full time	50	3	1	2	0	0	28	3	2	11
Part time	30	3	0	1	0	0	19	1	1	5
Chemical engineering	3,061	122	2	247	76	1	793	46	79	1,695
Full time	2,220	67	1	153	43	0	435	26	44	1,451
Part time	841	55	1	94	33	1	358	20	35	244
Civil engineering	12,729	1,082	35	888	332	9	4,571	233	284	5,295
Full time	8,289	530	20	465	134	5	2,463	137	114	4,421
Part time	4,440	552	15	423	198	4	2,108	96	170	874

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Electrical, electronics, and communications engineering	28,108	1,236	24	1,944	585	13	5,338	324	606	18,038
Full time	19,341	546	12	1,001	231	2	2,241	152	244	14,912
Part time	8,767	690	12	943	354	11	3,097	172	362	3,126
Engineering mechanics, physics, and science	729	28	1	42	22	0	319	15	43	259
Full time	472	17	0	29	13	0	172	9	8	224
Part time	257	11	1	13	9	0	147	6	35	35
Industrial and manufacturing engineering	12,389	731	14	880	438	5	3,590	148	404	6,179
Full time	6,492	241	5	264	136	3	949	38	103	4,753
Part time	5,897	490	9	616	302	2	2,641	110	301	1,426
Mechanical engineering	15,434	959	23	1,030	296	5	5,543	267	357	6,954
Full time	10,178	523	15	558	151	2	2,798	170	184	5,777
Part time	5,256	436	8	472	145	3	2,745	97	173	1,177
Metallurgical and materials engineering	2,079	109	4	139	56	1	693	37	42	998
Full time	1,539	66	1	89	39	1	408	28	23	884
Part time	540	43	3	50	17	0	285	9	19	114
Mining engineering	316	14	5	5	14	1	180	6	6	85
Full time	211	10	2	4	10	0	107	5	3	70
Part time	105	4	3	1	4	1	73	1	3	15
Nanotechnology	47	7	0	7	4	0	19	3	1	6
Full time	32	5	0	4	3	0	13	2	0	5
Part time	15	2	0	3	1	0	6	1	1	1
Nuclear engineering	407	35	0	16	7	0	245	7	11	86
Full time	273	26	0	10	5	0	147	6	6	73
Part time	134	9	0	6	2	0	98	1	5	13
Petroleum engineering	754	40	1	36	13	0	166	12	16	470
Full time	477	10	1	20	7	0	63	7	6	363
Part time	277	30	0	16	6	0	103	5	10	107
Engineering nec	9,016	484	16	618	558	6	4,048	183	255	2,848
Full time	3,871	152	3	220	157	2	992	65	60	2,220
Part time	5,145	332	13	398	401	4	3,056	118	195	628
All S&E doctoral students	261,165	15,194	651	15,597	8,701	211	102,108	5,372	7,351	105,980
Full time	231,297	13,283	538	13,903	7,034	175	88,101	4,783	6,107	97,373
Part time	29,868	1,911	113	1,694	1,667	36	14,007	589	1,244	8,607
Science	190,928	12,691	580	11,492	7,284	181	83,654	4,431	5,915	64,700
Full time	170,004	11,168	487	10,385	5,929	149	72,838	3,971	4,990	60,087
Part time	20,924	1,523	93	1,107	1,355	32	10,816	460	925	4,613

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Agricultural sciences	3,880	144	12	101	106	3	1,559	51	59	1,845
Full time	3,273	114	11	79	75	3	1,226	40	46	1,679
Part time	607	30	1	22	31	0	333	11	13	166
Biological and biomedical sciences	52,627	4,123	157	4,497	2,096	69	25,467	1,357	1,672	13,189
Full time	49,254	3,928	144	4,251	1,948	66	23,605	1,264	1,529	12,519
Part time	3,373	195	13	246	148	3	1,862	93	143	670
Computer and information sciences	16,127	374	12	902	388	12	3,629	218	415	10,177
Full time	13,596	292	9	706	242	10	2,717	168	296	9,156
Part time	2,531	82	3	196	146	2	912	50	119	1,021
Geosciences, atmospheric sciences, and ocean sciences	6,704	377	21	218	100	0	3,426	183	230	2,149
Full time	5,950	330	17	196	83	0	2,973	169	196	1,986
Part time	754	47	4	22	17	0	453	14	34	163
Mathematics and statistics	13,388	520	14	763	215	3	4,557	232	363	6,721
Full time	12,248	470	13	689	168	3	4,026	217	315	6,347
Part time	1,140	50	1	74	47	0	531	15	48	374
Multidisciplinary and interdisciplinary studies	2,924	184	9	192	155	5	1,433	66	98	782
Full time	2,388	156	7	151	116	4	1,114	56	77	707
Part time	536	28	2	41	39	1	319	10	21	75
Natural resources and conservation	3,716	231	24	120	145	1	1,947	94	196	958
Full time	2,962	191	17	92	121	1	1,492	81	111	856
Part time	754	40	7	28	24	0	455	13	85	102
Physical sciences	36,000	1,928	54	1,899	680	13	15,134	692	888	14,712
Full time	33,756	1,830	50	1,810	608	11	14,064	655	810	13,918
Part time	2,244	98	4	89	72	2	1,070	37	78	794
Psychology	20,303	2,514	99	1,206	1,442	33	11,666	730	766	1,847
Full time	16,538	1,919	76	1,034	1,104	22	9,503	632	593	1,655
Part time	3,765	595	23	172	338	11	2,163	98	173	192
Social sciences	35,259	2,296	178	1,594	1,957	42	14,836	808	1,228	12,320
Full time	30,039	1,938	143	1,377	1,464	29	12,118	689	1,017	11,264
Part time	5,220	358	35	217	493	13	2,718	119	211	1,056
Engineering	70,237	2,503	71	4,105	1,417	30	18,454	941	1,436	41,280
Full time	61,293	2,115	51	3,518	1,105	26	15,263	812	1,117	37,286
Part time	8,944	388	20	587	312	4	3,191	129	319	3,994
Aerospace, aeronautical, and astronautical engineering	2,506	109	7	140	35	0	975	53	54	1,133
Full time	2,173	92	5	115	28	0	824	47	46	1,016
Part time	333	17	2	25	7	0	151	6	8	117

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Agricultural engineering	661	19	1	28	18	1	155	14	9	416	
Full time	572	16	1	21	16	1	128	11	7	371	
Part time	89	3	0	7	2	0	27	3	2	45	
Bioengineering and biomedical engineering	7,278	480	8	961	226	11	2,876	195	226	2,295	
Full time	6,564	445	6	882	196	10	2,581	174	181	2,089	
Part time	714	35	2	79	30	1	295	21	45	206	
Biological and biosystems engineering	203	6	0	3	3	1	66	4	4	116	
Full time	149	5	0	1	2	1	48	4	0	88	
Part time	54	1	0	2	1	0	18	0	4	28	
Chemical engineering	6,950	241	8	512	127	2	2,247	109	132	3,572	
Full time	6,583	227	8	487	120	2	2,091	107	124	3,417	
Part time	367	14	0	25	7	0	156	2	8	155	
Civil engineering	7,732	267	7	233	138	4	1,612	81	140	5,250	
Full time	6,573	219	4	189	101	3	1,243	67	113	4,634	
Part time	1,159	48	3	44	37	1	369	14	27	616	
Electrical, electronics, and communications engineering	18,119	387	6	942	295	0	3,041	132	309	13,007	
Full time	15,473	292	2	740	204	0	2,325	109	237	11,564	
Part time	2,646	95	4	202	91	0	716	23	72	1,443	
Engineering mechanics, physics, and science	1,428	44	3	100	27	1	408	20	24	801	
Full time	1,296	39	2	98	23	1	344	19	23	747	
Part time	132	5	1	2	4	0	64	1	1	54	
Industrial and manufacturing engineering	3,598	83	4	148	120	3	722	25	90	2,403	
Full time	2,901	47	1	101	71	2	443	14	52	2,170	
Part time	697	36	3	47	49	1	279	11	38	233	
Mechanical engineering	11,159	416	14	526	186	1	2,979	145	233	6,659	
Full time	9,898	364	11	453	159	1	2,472	121	180	6,137	
Part time	1,261	52	3	73	27	0	507	24	53	522	
Metallurgical and materials engineering	4,610	226	7	282	87	2	1,481	83	57	2,385	
Full time	4,284	213	7	258	78	2	1,358	78	51	2,239	
Part time	326	13	0	24	9	0	123	5	6	146	
Mining engineering	211	7	0	3	3	0	87	3	2	106	
Full time	170	5	0	2	3	0	58	3	1	98	

Table 3-5**Enrollment status of S&E graduate students, by enrollment status, field, degree, citizenship, ethnicity, and race: 2018**

(Number)

Enrollment status, field, and degree	Total	U.S. citizens and permanent residents								
		Hispanic or Latino ^a	Not Hispanic or Latino						Unknown ethnicity and race	Temporary visa holders
			American Indian or Alaska Native	Asian	Black or African American	Native Hawaiian or Other Pacific Islander	White	More than one race		
Part time	41	2	0	1	0	0	29	0	1	8
Nanotechnology	71	2	0	5	0	0	26	1	3	34
Full time	71	2	0	5	0	0	26	1	3	34
Part time	0	0	0	0	0	0	0	0	0	0
Nuclear engineering	1,046	59	2	37	15	0	525	19	29	360
Full time	935	49	1	35	11	0	456	14	24	345
Part time	111	10	1	2	4	0	69	5	5	15
Petroleum engineering	649	6	0	13	13	0	56	3	16	542
Full time	579	4	0	11	10	0	47	3	12	492
Part time	70	2	0	2	3	0	9	0	4	50
Engineering nec	4,016	151	4	172	124	4	1,198	54	108	2,201
Full time	3,072	96	3	120	83	3	819	40	63	1,845
Part time	944	55	1	52	41	1	379	14	45	356

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

^a Hispanic or Latino may be any race; race categories exclude Hispanic origin.**Source(s):**

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