

TABLE 3-5

## Enrollment status of S&amp;E graduate students, by field, citizenship, ethnicity, and race: 2016

(Number)

Field and enrollment status	Total	U.S. citizens and permanent residents								Temporary visa holders
		Hispanic or Latino <sup>a</sup>	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		
S&E	620,489	39,578	1,860	35,674	30,600	862	237,563	10,514	23,098	240,740
Full time	462,973	25,688	1,220	24,818	17,180	552	161,722	7,392	14,141	210,260
Part time	157,516	13,890	640	10,856	13,420	310	75,841	3,122	8,957	30,480
Science	452,046	32,616	1,615	25,772	26,890	747	191,941	8,690	18,439	145,336
Full time	334,770	21,538	1,079	18,264	15,065	486	133,109	6,147	11,540	127,542
Part time	117,276	11,078	536	7,508	11,825	261	58,832	2,543	6,899	17,794
Agricultural sciences	18,284	1,132	119	450	563	23	10,987	348	722	3,940
Full time	12,806	799	81	323	334	10	7,108	238	444	3,469
Part time	5,478	333	38	127	229	13	3,879	110	278	471
Biological sciences	79,146	5,878	268	7,081	4,261	187	39,535	1,798	3,067	17,071
Full time	65,549	4,838	209	6,009	3,225	153	31,637	1,477	2,334	15,667
Part time	13,597	1,040	59	1,072	1,036	34	7,898	321	733	1,404
Anatomy	448	48	1	29	21	2	255	11	9	72
Full time	424	43	1	28	21	2	237	11	9	72
Part time	24	5	0	1	0	0	18	0	0	0
Biochemistry	4,481	343	13	385	151	5	2,107	79	131	1,267
Full time	4,060	297	10	337	126	5	1,915	72	104	1,194
Part time	421	46	3	48	25	0	192	7	27	73
Biology	16,380	1,386	60	979	868	26	8,942	342	623	3,154
Full time	11,800	970	42	753	600	8	6,026	229	396	2,776
Part time	4,580	416	18	226	268	18	2,916	113	227	378
Biometry and epidemiology	9,007	490	22	1,083	552	21	3,464	173	343	2,859
Full time	7,035	341	18	804	362	11	2,580	143	234	2,542
Part time	1,972	149	4	279	190	10	884	30	109	317
Biophysics	941	57	2	95	13	2	466	17	39	250
Full time	923	57	2	94	13	2	457	16	39	243
Part time	18	0	0	1	0	0	9	1	0	7
Botany and plant biology	1,820	97	6	98	33	4	886	47	60	589
Full time	1,650	93	5	90	29	4	786	39	46	558
Part time	170	4	1	8	4	0	100	8	14	31
Cell and molecular biology	6,535	519	25	651	261	10	2,995	140	231	1,703
Full time	6,073	483	23	592	229	9	2,784	128	204	1,621
Part time	462	36	2	59	32	1	211	12	27	82
Ecology	1,396	46	8	45	20	1	934	21	126	195
Full time	1,048	36	6	38	15	1	695	15	78	164
Part time	348	10	2	7	5	0	239	6	48	31
Entomology and parasitology	1,171	57	5	42	27	2	715	29	32	262
Full time	1,032	52	3	40	24	2	605	27	26	253
Part time	139	5	2	2	3	0	110	2	6	9
Genetics	2,404	172	7	177	61	4	1,348	47	74	514
Full time	2,330	168	7	169	58	4	1,296	47	71	510
Part time	74	4	0	8	3	0	52	0	3	4

TABLE 3-5

## Enrollment status of S&amp;E graduate students, by field, citizenship, ethnicity, and race: 2016

(Number)

Field and enrollment status	Total	U.S. citizens and permanent residents								Temporary visa holders
		Hispanic or Latino <sup>a</sup>	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		
Microbiology, immunology, and virology	4,615	363	21	414	232	7	2,467	138	145	828
Full time	4,185	340	18	377	195	7	2,226	126	131	765
Part time	430	23	3	37	37	0	241	12	14	63
Nutrition	5,401	298	17	361	240	8	3,282	112	179	904
Full time	3,601	189	5	254	134	6	2,035	84	104	790
Part time	1,800	109	12	107	106	2	1,247	28	75	114
Pathology	998	67	1	92	51	1	470	29	57	230
Full time	954	66	1	88	49	1	442	28	57	222
Part time	44	1	0	4	2	0	28	1	0	8
Pharmacology and toxicology	2,873	186	7	300	227	5	1,345	69	65	669
Full time	2,519	168	7	267	173	5	1,153	58	59	629
Part time	354	18	0	33	54	0	192	11	6	40
Physiology	4,024	280	11	466	230	6	2,066	87	135	743
Full time	3,682	257	10	428	197	6	1,883	75	119	707
Part time	342	23	1	38	33	0	183	12	16	36
Zoology	815	33	2	19	9	1	578	26	42	105
Full time	634	30	1	13	9	1	450	20	28	82
Part time	181	3	1	6	0	0	128	6	14	23
Biosciences nec	15,837	1,436	60	1,845	1,265	82	7,215	431	776	2,727
Full time	13,599	1,248	50	1,637	991	79	6,067	359	629	2,539
Part time	2,238	188	10	208	274	3	1,148	72	147	188
Communication	12,347	1,064	52	402	1,314	21	6,288	308	632	2,266
Full time	7,502	589	29	269	746	13	3,405	185	300	1,966
Part time	4,845	475	23	133	568	8	2,883	123	332	300
Computer sciences	92,650	2,704	85	5,423	3,828	51	17,157	893	2,897	59,612
Full time	63,361	1,068	40	2,492	1,221	16	7,190	371	1,456	49,507
Part time	29,289	1,636	45	2,931	2,607	35	9,967	522	1,441	10,105
Earth, atmospheric, and ocean sciences	15,015	1,014	65	454	315	39	8,885	321	666	3,256
Full time	11,792	675	45	351	234	32	6,813	242	483	2,917
Part time	3,223	339	20	103	81	7	2,072	79	183	339
Atmospheric sciences	1,399	76	3	39	40	1	809	22	31	378
Full time	1,185	60	2	30	35	1	665	18	27	347
Part time	214	16	1	9	5	0	144	4	4	31
Geosciences	8,610	494	43	233	162	15	5,144	188	395	1,936
Full time	6,801	357	27	180	119	11	3,920	141	282	1,764
Part time	1,809	137	16	53	43	4	1,224	47	113	172
Ocean sciences	2,743	179	11	97	36	3	1,775	61	146	435
Full time	2,218	146	10	75	29	3	1,387	50	115	403
Part time	525	33	1	22	7	0	388	11	31	32
Earth, atmospheric, and ocean sciences nec	2,263	265	8	85	77	20	1,157	50	94	507

TABLE 3-5

## Enrollment status of S&amp;E graduate students, by field, citizenship, ethnicity, and race: 2016

(Number)

Field and enrollment status	Total	U.S. citizens and permanent residents								Temporary visa holders
		Hispanic or Latino <sup>a</sup>	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		
Full time	1,588	112	6	66	51	17	841	33	59	403
Part time	675	153	2	19	26	3	316	17	35	104
Family and consumer sciences and human sciences	3,750	313	26	125	529	6	2,086	109	115	441
Full time	2,310	186	14	84	267	2	1,280	70	51	356
Part time	1,440	127	12	41	262	4	806	39	64	85
Mathematics and statistics	28,050	1,145	42	1,842	648	24	9,313	364	966	13,706
Full time	22,171	734	22	1,205	360	17	6,329	287	577	12,640
Part time	5,879	411	20	637	288	7	2,984	77	389	1,066
Mathematics and applied mathematics	20,028	954	32	1,188	494	21	7,387	292	760	8,900
Full time	15,820	632	17	820	275	14	5,166	234	443	8,219
Part time	4,208	322	15	368	219	7	2,221	58	317	681
Statistics	8,022	191	10	654	154	3	1,926	72	206	4,806
Full time	6,351	102	5	385	85	3	1,163	53	134	4,421
Part time	1,671	89	5	269	69	0	763	19	72	385
Multidisciplinary and interdisciplinary studies	9,251	599	41	592	587	18	4,235	192	402	2,585
Full time	6,236	396	17	416	318	7	2,513	134	250	2,185
Part time	3,015	203	24	176	269	11	1,722	58	152	400
Neurobiology and neuroscience	5,226	460	26	519	172	5	2,894	110	187	853
Full time	4,922	420	26	492	157	5	2,732	100	175	815
Part time	304	40	0	27	15	0	162	10	12	38
Physical sciences	40,518	2,081	95	2,130	906	35	17,576	602	1,150	15,943
Full time	36,536	1,801	83	1,864	721	31	15,515	545	937	15,039
Part time	3,982	280	12	266	185	4	2,061	57	213	904
Astronomy and astrophysics	1,353	81	5	77	19	1	730	24	45	371
Full time	1,309	77	5	75	18	1	704	23	43	363
Part time	44	4	0	2	1	0	26	1	2	8
Chemistry	22,676	1,254	63	1,312	656	24	9,874	361	612	8,520
Full time	20,423	1,099	55	1,135	527	21	8,732	334	486	8,034
Part time	2,253	155	8	177	129	3	1,142	27	126	486
Physics	15,764	696	26	702	196	8	6,633	208	480	6,815
Full time	14,298	594	22	627	153	8	5,867	183	403	6,441
Part time	1,466	102	4	75	43	0	766	25	77	374
Physical sciences nec	725	50	1	39	35	2	339	9	13	237
Full time	506	31	1	27	23	1	212	5	5	201
Part time	219	19	0	12	12	1	127	4	8	36
Psychology	47,609	6,844	223	2,283	3,730	91	27,355	1,355	2,628	3,100

TABLE 3-5

## Enrollment status of S&amp;E graduate students, by field, citizenship, ethnicity, and race: 2016

(Number)

Field and enrollment status	Total	U.S. citizens and permanent residents								Temporary visa holders
		Hispanic or Latino <sup>a</sup>	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		
Full time	34,530	4,662	158	1,689	2,423	55	20,057	1,015	1,828	2,643
Part time	13,079	2,182	65	594	1,307	36	7,298	340	800	457
Clinical psychology	8,356	1,502	41	459	549	12	4,650	229	593	321
Full time	6,690	1,174	32	368	434	9	3,748	195	454	276
Part time	1,666	328	9	91	115	3	902	34	139	45
Psychology, general	12,318	1,417	46	649	1,000	25	7,239	352	617	973
Full time	9,806	1,021	38	511	692	15	5,900	283	471	875
Part time	2,512	396	8	138	308	10	1,339	69	146	98
Psychology nec	26,935	3,925	136	1,175	2,181	54	15,466	774	1,418	1,806
Full time	18,034	2,467	88	810	1,297	31	10,409	537	903	1,492
Part time	8,901	1,458	48	365	884	23	5,057	237	515	314
Social sciences	100,200	9,382	573	4,471	10,037	247	45,630	2,290	5,007	22,563
Full time	67,055	5,370	355	3,070	5,059	145	28,530	1,483	2,705	20,338
Part time	33,145	4,012	218	1,401	4,978	102	17,100	807	2,302	2,225
Agricultural economics	1,756	63	2	51	46	0	670	17	44	863
Full time	1,454	50	2	45	36	0	476	13	34	798
Part time	302	13	0	6	10	0	194	4	10	65
Anthropology	7,309	638	91	248	232	23	4,381	241	480	975
Full time	5,752	480	68	201	179	15	3,334	188	384	903
Part time	1,557	158	23	47	53	8	1,047	53	96	72
Economics (except agriculture)	14,488	532	8	630	387	4	3,708	150	499	8,570
Full time	12,294	376	4	498	214	1	2,859	118	365	7,859
Part time	2,194	156	4	132	173	3	849	32	134	711
Geography	4,315	256	25	130	139	2	2,509	76	241	937
Full time	3,045	174	21	85	86	1	1,696	55	113	814
Part time	1,270	82	4	45	53	1	813	21	128	123
History and philosophy of science	379	10	0	11	6	1	252	10	12	77
Full time	344	10	0	9	6	1	226	9	9	74
Part time	35	0	0	2	0	0	26	1	3	3
Linguistics	3,149	250	31	188	66	3	1,400	76	135	1,000
Full time	2,339	158	17	123	44	1	985	52	89	870
Part time	810	92	14	65	22	2	415	24	46	130
Political science and government	45,213	4,657	234	2,247	5,660	144	21,700	1,021	2,501	7,049
Full time	26,232	2,224	129	1,393	2,603	86	11,935	566	1,065	6,231
Part time	18,981	2,433	105	854	3,057	58	9,765	455	1,436	818
Sociology	8,023	947	45	367	911	13	3,970	221	341	1,208
Full time	6,303	708	27	291	639	10	3,084	170	267	1,107
Part time	1,720	239	18	76	272	3	886	51	74	101
Sociology and anthropology	208	24	1	4	42	1	88	1	33	14

TABLE 3-5

## Enrollment status of S&amp;E graduate students, by field, citizenship, ethnicity, and race: 2016

(Number)

Field and enrollment status	Total	U.S. citizens and permanent residents								Temporary visa holders
		Hispanic or Latino <sup>a</sup>	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		
Full time	156	13	1	3	37	1	73	1	13	14
Part time	52	11	0	1	5	0	15	0	20	0
Social sciences nec	15,360	2,005	136	595	2,548	56	6,952	477	721	1,870
Full time	9,136	1,177	86	422	1,215	29	3,862	311	366	1,668
Part time	6,224	828	50	173	1,333	27	3,090	166	355	202
Engineering	168,443	6,962	245	9,902	3,710	115	45,622	1,824	4,659	95,404
Full time	128,203	4,150	141	6,554	2,115	66	28,613	1,245	2,601	82,718
Part time	40,240	2,812	104	3,348	1,595	49	17,009	579	2,058	12,686
Aerospace engineering	5,416	296	12	390	91	4	2,396	79	149	1,999
Full time	4,081	172	10	257	57	2	1,640	66	94	1,783
Part time	1,335	124	2	133	34	2	756	13	55	216
Agricultural engineering	1,626	51	5	68	36	1	549	22	24	870
Full time	1,329	42	5	53	28	1	428	17	18	737
Part time	297	9	0	15	8	0	121	5	6	133
Architecture	1,671	125	8	66	92	0	578	22	48	732
Full time	1,509	109	8	54	79	0	501	19	36	703
Part time	162	16	0	12	13	0	77	3	12	29
Biomedical engineering	10,208	576	18	1,369	294	7	3,995	209	448	3,292
Full time	9,136	504	16	1,223	243	6	3,507	188	394	3,055
Part time	1,072	72	2	146	51	1	488	21	54	237
Chemical engineering	10,187	341	15	731	227	3	3,017	115	246	5,492
Full time	9,002	282	13	618	178	2	2,541	104	179	5,085
Part time	1,185	59	2	113	49	1	476	11	67	407
Civil engineering	20,569	1,189	40	986	441	23	6,305	255	662	10,668
Full time	15,183	677	16	600	245	13	3,823	162	352	9,295
Part time	5,386	512	24	386	196	10	2,482	93	310	1,373
Electrical engineering	50,062	1,357	35	2,699	806	19	8,013	326	936	35,871
Full time	38,158	713	16	1,531	413	10	4,435	180	460	30,400
Part time	11,904	644	19	1,168	393	9	3,578	146	476	5,471
Engineering science, mechanics, and physics engineering	1,756	37	11	94	43	8	501	20	54	988
Full time	1,318	29	6	72	27	7	375	18	31	753
Part time	438	8	5	22	16	1	126	2	23	235
Industrial and manufacturing engineering	16,200	756	26	713	529	15	4,009	132	579	9,441
Full time	10,582	322	4	326	177	4	1,450	54	176	8,069
Part time	5,618	434	22	387	352	11	2,559	78	403	1,372
Mechanical engineering	27,898	1,273	36	1,430	446	13	8,369	334	938	15,059

TABLE 3-5

## Enrollment status of S&amp;E graduate students, by field, citizenship, ethnicity, and race: 2016

(Number)

Field and enrollment status	Total	U.S. citizens and permanent residents									Temporary visa holders
		Hispanic or Latino <sup>a</sup>	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			
Full time	20,924	721	28	925	270	7	5,089	226	523	13,135	
Part time	6,974	552	8	505	176	6	3,280	108	415	1,924	
Metallurgical and materials engineering	8,106	324	10	501	154	7	2,581	112	153	4,264	
Full time	7,149	271	10	440	122	4	2,120	97	125	3,960	
Part time	957	53	0	61	32	3	461	15	28	304	
Mining engineering	378	15	2	4	7	0	159	6	5	180	
Full time	287	8	1	2	4	0	113	5	1	153	
Part time	91	7	1	2	3	0	46	1	4	27	
Nuclear engineering	1,466	90	2	58	22	0	844	24	51	375	
Full time	1,229	70	2	53	18	0	666	21	42	357	
Part time	237	20	0	5	4	0	178	3	9	18	
Petroleum engineering	1,862	51	3	84	34	0	312	10	50	1,318	
Full time	1,461	24	1	54	22	0	190	7	25	1,138	
Part time	401	27	2	30	12	0	122	3	25	180	
Engineering nec	11,038	481	22	709	488	15	3,994	158	316	4,855	
Full time	6,855	206	5	346	232	10	1,735	81	145	4,095	
Part time	4,183	275	17	363	256	5	2,259	77	171	760	

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

<sup>a</sup> Hispanic or Latino may be any race.

## Source(s)

National Science Foundation, National Center for Science and Engineering Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering, 2016.