

TABLE 3-1. S&E graduate students, by field, sex, citizenship, ethnicity, and race: 2014

Field and sex	U.S. citizens and permanent residents										
	Total	Not Hispanic or Latino								Unknown ethnicity and race	Temporary visa holders
		Hispanic or Latino ^a	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	601,883	35,132	2,112	33,745	30,482	902	245,103	9,335	25,701	219,371	
Science	437,395	28,605	1,826	24,039	26,768	784	198,185	7,697	20,595	128,896	
Agricultural sciences	17,505	931	119	405	551	33	10,610	319	636	3,901	
Biological sciences	78,490	5,001	307	6,606	4,021	191	39,605	1,496	3,737	17,526	
Anatomy	554	41	2	34	31	1	293	5	32	115	
Biochemistry	5,025	280	17	420	142	14	2,366	70	174	1,542	
Biology	16,697	1,254	58	1,033	896	27	8,890	310	886	3,343	
Biometry and epidemiology	8,326	414	20	931	507	28	3,365	165	370	2,526	
Biophysics	877	41	2	71	19	2	447	14	28	253	
Botany and plant biology	1,877	92	16	93	28	5	956	48	60	579	
Cell and molecular biology	6,214	380	27	641	206	15	2,853	115	214	1,763	
Ecology	1,416	54	8	34	18	4	975	31	117	175	
Entomology and parasitology	1,304	71	3	57	26	0	799	19	50	279	
Genetics	2,411	131	8	175	74	5	1,322	48	83	565	
Microbiology, immunology, and virology	4,670	326	30	418	219	7	2,464	77	173	956	
Nutrition	5,868	353	26	404	300	9	3,537	103	269	867	
Pathology	1,036	73	3	74	51	8	503	27	37	260	
Pharmacology and toxicology	2,916	150	10	254	206	10	1,358	66	66	796	
Physiology	3,415	186	17	375	215	2	1,815	45	99	661	
Zoology	1,093	40	2	28	11	4	790	30	67	121	
Biosciences nec	14,791	1,115	58	1,564	1,072	50	6,872	323	1,012	2,725	
Communication	11,942	928	48	381	1,126	19	6,486	227	512	2,215	
Computer sciences	76,546	2,147	103	4,360	3,517	68	16,295	707	2,433	46,916	
Earth, atmospheric, and ocean sciences	15,710	913	83	495	299	8	9,550	276	768	3,318	
Atmospheric sciences	1,466	70	2	47	25	0	857	14	59	392	
Geosciences	8,821	438	52	246	142	7	5,410	157	435	1,934	
Ocean sciences	2,666	162	13	81	28	1	1,735	67	135	444	
Earth, atmospheric, and ocean sciences nec	2,757	243	16	121	104	0	1,548	38	139	548	
Family and consumer sciences and human sciences	4,302	318	21	160	661	8	2,371	84	213	466	
Mathematics and statistics	25,874	1,057	44	1,645	735	26	9,552	327	1,054	11,434	
Mathematics and applied mathematics	18,863	901	37	1,129	615	24	7,728	251	803	7,375	
Statistics	7,011	156	7	516	120	2	1,824	76	251	4,059	
Multidisciplinary and interdisciplinary studies	7,196	459	35	421	503	14	3,508	140	465	1,651	
Neurobiology and neuroscience	4,923	346	20	467	163	6	2,806	111	205	799	
Physical sciences	40,332	1,707	88	2,049	966	37	17,881	575	1,373	15,656	
Astronomy and astrophysics	1,241	44	5	68	11	0	724	21	42	326	

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Chemistry	22,936	1,033	48	1,358	733	19	10,094	348	715	8,588	
Physics	15,564	588	35	604	199	17	6,787	189	601	6,544	
Physical sciences nec	591	42	0	19	23	1	276	17	15	198	
Psychology	48,833	5,765	287	2,400	3,841	100	28,840	1,201	3,434	2,965	
Clinical psychology	8,781	1,230	45	449	516	18	5,006	184	1,003	330	
Psychology, general	12,643	1,289	70	669	842	26	7,849	308	668	922	
Psychology nec	27,409	3,246	172	1,282	2,483	56	15,985	709	1,763	1,713	
Social sciences	105,742	9,033	671	4,650	10,385	274	50,681	2,234	5,765	22,049	
Agricultural economics	1,931	58	5	50	41	0	779	15	57	926	
Anthropology	7,955	577	106	240	233	33	4,983	225	555	1,003	
Economics (except agricultural)	14,604	510	20	662	426	3	3,992	181	490	8,320	
Geography	4,810	250	27	146	137	4	2,931	81	264	970	
History and philosophy of science	371	11	3	4	6	0	252	3	15	77	
Linguistics	3,489	194	33	212	72	3	1,622	75	193	1,085	
Political science and government	47,370	4,446	276	2,287	5,809	152	23,875	981	2,879	6,665	
Sociology	8,637	960	56	380	954	11	4,412	219	416	1,229	
Sociology and anthropology	197	25	0	6	38	1	101	3	14	9	
Social sciences nec	16,378	2,002	145	663	2,669	67	7,734	451	882	1,765	
Engineering	164,488	6,527	286	9,706	3,714	118	46,918	1,638	5,106	90,475	
Aerospace engineering	5,116	291	10	340	69	6	2,379	79	215	1,727	
Agricultural engineering	1,740	58	6	80	34	0	557	19	31	955	
Architecture	1,817	107	5	90	88	2	769	26	74	656	
Biomedical engineering	9,510	458	16	1,289	254	14	3,755	235	458	3,031	
Chemical engineering	9,870	320	24	747	215	3	3,043	102	271	5,145	
Civil engineering	20,789	1,281	50	1,046	475	15	7,112	222	728	9,860	
Electrical engineering	51,909	1,305	49	2,659	805	22	8,204	292	1,118	37,455	
Engineering science, mechanics, and physics	2,162	47	5	109	35	2	728	36	67	1,133	
Industrial and manufacturing engineering	14,845	769	35	729	579	17	4,338	124	781	7,473	
Mechanical engineering	25,651	1,137	46	1,474	434	11	8,563	272	759	12,955	
Metallurgical and materials engineering	7,518	246	5	440	166	6	2,520	91	159	3,885	
Mining engineering	396	15	1	4	2	0	144	4	15	211	
Nuclear engineering	1,467	73	2	45	15	1	888	20	86	337	
Petroleum engineering	2,056	53	6	92	63	0	315	3	25	1,499	
Engineering nec	9,642	367	26	562	480	19	3,603	113	319	4,153	
Female	253,493	17,930	1,121	15,008	17,645	454	109,713	4,816	11,720	75,086	
Science	213,803	16,245	1,049	12,414	16,549	426	99,627	4,376	10,627	52,490	
Agricultural sciences	8,968	532	67	253	314	22	5,380	199	344	1,857	
Biological sciences	44,593	2,939	184	3,710	2,690	102	22,161	912	2,078	9,817	
Anatomy	280	24	1	16	20	0	145	3	15	56	

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Biochemistry	2,423	150	10	196	82	4	1,030	37	99	815
Biology	9,340	719	37	588	593	14	4,839	188	474	1,888
Biometry and epidemiology	4,915	273	13	538	348	19	2,006	110	217	1,391
Biophysics	306	12	0	23	8	1	151	11	9	91
Botany and plant biology	938	54	5	42	17	3	456	30	31	300
Cell and molecular biology	3,389	204	16	364	127	9	1,495	66	103	1,005
Ecology	756	35	2	20	13	1	526	16	54	89
Entomology and parasitology	651	37	2	23	18	0	398	12	23	138
Genetics	1,425	80	4	109	50	3	795	34	40	310
Microbiology, immunology, and virology	2,658	197	21	245	146	2	1,326	44	104	573
Nutrition	4,730	291	22	328	240	8	2,903	86	210	642
Pathology	612	42	1	45	33	3	298	13	25	152
Pharmacology and toxicology	1,619	77	7	144	141	7	726	35	31	451
Physiology	1,766	109	9	183	130	1	896	21	47	370
Zoology	693	32	1	22	8	2	505	19	38	66
Biosciences nec	8,092	603	33	824	716	25	3,666	187	558	1,480
Communication	7,804	587	35	295	804	12	4,087	149	316	1,519
Computer sciences	21,038	491	24	1,327	1,208	11	3,296	197	680	13,804
Earth, atmospheric, and ocean sciences	7,144	487	43	256	143	2	4,370	144	354	1,345
Atmospheric sciences	538	24	1	29	9	0	272	4	26	173
Geosciences	3,630	232	22	112	58	2	2,233	78	177	716
Ocean sciences	1,528	95	10	52	20	0	1,033	44	81	193
Earth, atmospheric, and ocean sciences nec	1,448	136	10	63	56	0	832	18	70	263
Family and consumer sciences and human sciences	3,568	275	16	132	547	4	1,978	70	169	377
Mathematics and statistics	9,234	321	14	627	281	7	3,045	110	314	4,515
Mathematics and applied mathematics	6,176	268	10	394	233	7	2,441	86	234	2,503
Statistics	3,058	53	4	233	48	0	604	24	80	2,012
Multidisciplinary and interdisciplinary studies	3,445	252	20	228	319	10	1,667	81	242	626
Neurobiology and neuroscience	2,566	202	11	271	95	3	1,423	60	94	407
Physical sciences	13,118	612	28	788	453	13	5,389	217	416	5,202
Astronomy and astrophysics	427	13	3	30	2	0	241	11	18	109
Chemistry	9,352	471	19	616	394	9	3,865	157	289	3,532
Physics	3,128	109	6	136	45	4	1,180	44	107	1,497
Physical sciences nec	211	19	0	6	12	0	103	5	2	64
Psychology	36,243	4,352	207	1,829	3,040	83	21,007	916	2,607	2,202
Clinical psychology	6,783	969	33	364	418	17	3,789	141	787	265
Psychology, general	8,710	913	38	488	638	19	5,297	228	456	633

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Psychology nec	20,750	2,470	136	977	1,984	47	11,921	547	1,364	1,304	
Social sciences	56,082	5,195	400	2,698	6,655	157	25,824	1,321	3,013	10,819	
Agricultural economics	822	26	1	23	15	0	310	4	17	426	
Anthropology	5,126	374	55	162	164	17	3,259	156	359	580	
Economics (except agricultural)	5,267	164	11	279	143	0	1,079	68	146	3,377	
Geography	2,133	116	19	85	68	2	1,258	37	120	428	
History and philosophy of science	189	6	2	4	4	0	123	2	6	42	
Linguistics	2,136	131	16	146	54	1	936	53	114	685	
Political science and government	24,877	2,463	160	1,338	3,721	88	11,582	556	1,453	3,516	
Sociology	5,402	584	29	247	657	4	2,762	139	262	718	
Sociology and anthropology	132	14	0	4	27	1	70	2	9	5	
Social sciences nec	9,998	1,317	107	410	1,802	44	4,445	304	527	1,042	
Engineering	39,690	1,685	72	2,594	1,096	28	10,086	440	1,093	22,596	
Aerospace engineering	775	55	2	62	13	2	324	11	29	277	
Agricultural engineering	704	16	6	39	17	0	208	6	13	399	
Architecture	888	47	1	57	42	2	360	11	39	329	
Biomedical engineering	3,810	190	4	502	114	4	1,413	94	174	1,315	
Chemical engineering	3,107	103	10	257	92	0	787	36	79	1,743	
Civil engineering	6,093	419	14	338	141	7	2,124	67	220	2,763	
Electrical engineering	10,961	185	9	514	149	4	934	48	152	8,966	
Engineering science, mechanics, and physics	429	12	0	24	5	0	119	7	17	245	
Industrial and manufacturing engineering	3,824	258	8	190	203	2	941	40	163	2,019	
Mechanical engineering	3,772	208	7	287	98	0	1,202	55	102	1,813	
Metallurgical and materials engineering	2,181	71	1	135	67	4	665	29	36	1,173	
Mining engineering	76	5	0	0	0	0	32	2	4	33	
Nuclear engineering	221	10	0	5	8	0	124	5	5	64	
Petroleum engineering	414	13	0	18	8	0	49	0	3	323	
Engineering nec	2,435	93	10	166	139	3	804	29	57	1,134	
Male	348,390	17,202	991	18,737	12,837	448	135,390	4,519	13,981	144,285	
Science	223,592	12,360	777	11,625	10,219	358	98,558	3,321	9,968	76,406	
Agricultural sciences	8,537	399	52	152	237	11	5,230	120	292	2,044	
Biological sciences	33,897	2,062	123	2,896	1,331	89	17,444	584	1,659	7,709	
Anatomy	274	17	1	18	11	1	148	2	17	59	
Biochemistry	2,602	130	7	224	60	10	1,336	33	75	727	
Biology	7,357	535	21	445	303	13	4,051	122	412	1,455	
Biometry and epidemiology	3,411	141	7	393	159	9	1,359	55	153	1,135	
Biophysics	571	29	2	48	11	1	296	3	19	162	
Botany and plant biology	939	38	11	51	11	2	500	18	29	279	
Cell and molecular biology	2,825	176	11	277	79	6	1,358	49	111	758	
Ecology	660	19	6	14	5	3	449	15	63	86	

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Entomology and parasitology	653	34	1	34	8	0	401	7	27	141
Genetics	986	51	4	66	24	2	527	14	43	255
Microbiology, immunology, and virology	2,012	129	9	173	73	5	1,138	33	69	383
Nutrition	1,138	62	4	76	60	1	634	17	59	225
Pathology	424	31	2	29	18	5	205	14	12	108
Pharmacology and toxicology	1,297	73	3	110	65	3	632	31	35	345
Physiology	1,649	77	8	192	85	1	919	24	52	291
Zoology	400	8	1	6	3	2	285	11	29	55
Biosciences nec	6,699	512	25	740	356	25	3,206	136	454	1,245
Communication	4,138	341	13	86	322	7	2,399	78	196	696
Computer sciences	55,508	1,656	79	3,033	2,309	57	12,999	510	1,753	33,112
Earth, atmospheric, and ocean sciences	8,566	426	40	239	156	6	5,180	132	414	1,973
Atmospheric sciences	928	46	1	18	16	0	585	10	33	219
Geosciences	5,191	206	30	134	84	5	3,177	79	258	1,218
Ocean sciences	1,138	67	3	29	8	1	702	23	54	251
Earth, atmospheric, and ocean sciences nec	1,309	107	6	58	48	0	716	20	69	285
Family and consumer sciences and human sciences	734	43	5	28	114	4	393	14	44	89
Mathematics and statistics	16,640	736	30	1,018	454	19	6,507	217	740	6,919
Mathematics and applied mathematics	12,687	633	27	735	382	17	5,287	165	569	4,872
Statistics	3,953	103	3	283	72	2	1,220	52	171	2,047
Multidisciplinary and interdisciplinary studies	3,751	207	15	193	184	4	1,841	59	223	1,025
Neurobiology and neuroscience	2,357	144	9	196	68	3	1,383	51	111	392
Physical sciences	27,214	1,095	60	1,261	513	24	12,492	358	957	10,454
Astronomy and astrophysics	814	31	2	38	9	0	483	10	24	217
Chemistry	13,584	562	29	742	339	10	6,229	191	426	5,056
Physics	12,436	479	29	468	154	13	5,607	145	494	5,047
Physical sciences nec	380	23	0	13	11	1	173	12	13	134
Psychology	12,590	1,413	80	571	801	17	7,833	285	827	763
Clinical psychology	1,998	261	12	85	98	1	1,217	43	216	65
Psychology, general	3,933	376	32	181	204	7	2,552	80	212	289
Psychology nec	6,659	776	36	305	499	9	4,064	162	399	409
Social sciences	49,660	3,838	271	1,952	3,730	117	24,857	913	2,752	11,230
Agricultural economics	1,109	32	4	27	26	0	469	11	40	500
Anthropology	2,829	203	51	78	69	16	1,724	69	196	423
Economics (except agricultural)	9,337	346	9	383	283	3	2,913	113	344	4,943
Geography	2,677	134	8	61	69	2	1,673	44	144	542
History and philosophy of science	182	5	1	0	2	0	129	1	9	35

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Linguistics	1,353	63	17	66	18	2	686	22	79	400	
Political science and government	22,493	1,983	116	949	2,088	64	12,293	425	1,426	3,149	
Sociology	3,235	376	27	133	297	7	1,650	80	154	511	
Sociology and anthropology	65	11	0	2	11	0	31	1	5	4	
Social sciences nec	6,380	685	38	253	867	23	3,289	147	355	723	
Engineering	124,798	4,842	214	7,112	2,618	90	36,832	1,198	4,013	67,879	
Aerospace engineering	4,341	236	8	278	56	4	2,055	68	186	1,450	
Agricultural engineering	1,036	42	0	41	17	0	349	13	18	556	
Architecture	929	60	4	33	46	0	409	15	35	327	
Biomedical engineering	5,700	268	12	787	140	10	2,342	141	284	1,716	
Chemical engineering	6,763	217	14	490	123	3	2,256	66	192	3,402	
Civil engineering	14,696	862	36	708	334	8	4,988	155	508	7,097	
Electrical engineering	40,948	1,120	40	2,145	656	18	7,270	244	966	28,489	
Engineering science, mechanics, and physics	1,733	35	5	85	30	2	609	29	50	888	
Industrial and manufacturing engineering	11,021	511	27	539	376	15	3,397	84	618	5,454	
Mechanical engineering	21,879	929	39	1,187	336	11	7,361	217	657	11,142	
Metallurgical and materials engineering	5,337	175	4	305	99	2	1,855	62	123	2,712	
Mining engineering	320	10	1	4	2	0	112	2	11	178	
Nuclear engineering	1,246	63	2	40	7	1	764	15	81	273	
Petroleum engineering	1,642	40	6	74	55	0	266	3	22	1,176	
Engineering nec	7,207	274	16	396	341	16	2,799	84	262	3,019	

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

^a Includes Hispanic or Latino of one or more races.

NOTES: In 2014, the survey frame was updated following a comprehensive frame evaluation study. The study identified potentially eligible but not previously surveyed U.S. academic institutions with master's- or doctorate-granting programs in science, engineering, or health. A total of 151 newly eligible institutions were added, and two private for-profit institutions offering mostly practitioner-based graduate degrees were determined to be ineligible.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering, 2014.