

TABLE 3-2. Black U.S. citizen and permanent resident S&E graduate students in all institutions and in HBCUs, by field and sex: 2014

Field	All institutions (number)			HBCUs (number)			HBCUs (%)		
	All S&E graduate students	Female	Male	All S&E graduate students	Female	Male	All S&E graduate students	Female	Male
S&E	30,482	17,645	12,837	4,581	2,862	1,719	15.0	16.2	13.4
Science	26,768	16,549	10,219	4,199	2,720	1,479	15.7	16.4	14.5
Agricultural sciences	551	314	237	207	112	95	37.6	35.7	40.1
Biological sciences	4,021	2,690	1,331	679	471	208	16.9	17.5	15.6
Anatomy	31	20	11	10	6	4	32.3	30.0	36.4
Biochemistry	142	82	60	14	10	4	9.9	12.2	6.7
Biology	896	593	303	293	203	90	32.7	34.2	29.7
Biometry and epidemiology	507	348	159	14	5	9	2.8	1.4	5.7
Biophysics	19	8	11	0	0	0	0.0	0.0	0.0
Botany and plant biology	28	17	11	0	0	0	0.0	0.0	0.0
Cell and molecular biology	206	127	79	0	0	0	0.0	0.0	0.0
Ecology	18	13	5	0	0	0	0.0	0.0	0.0
Entomology and parasitology	26	18	8	1	1	0	3.8	5.6	0.0
Genetics	74	50	24	12	6	6	16.2	12.0	25.0
Microbiology, immunology, and virology	219	146	73	33	24	9	15.1	16.4	12.3
Nutrition	300	240	60	83	60	23	27.7	25.0	38.3
Pathology	51	33	18	0	0	0	0.0	0.0	0.0
Pharmacology and toxicology	206	141	65	67	46	21	32.5	32.6	32.3
Physiology	215	130	85	6	3	3	2.8	2.3	3.5
Zoology	11	8	3	0	0	0	0.0	0.0	0.0
Biosciences nec	1,072	716	356	146	107	39	13.6	14.9	11.0
Communication	1,126	804	322	132	94	38	11.7	11.7	11.8
Computer sciences	3,517	1,208	2,309	296	103	193	8.4	8.5	8.4
Earth, atmospheric, and ocean sciences	299	143	156	67	39	28	22.4	27.3	17.9
Atmospheric sciences	25	9	16	11	4	7	44.0	44.4	43.8
Geosciences	142	58	84	0	0	0	0.0	0.0	0.0
Ocean sciences	28	20	8	6	4	2	21.4	20.0	25.0
Earth, atmospheric, and ocean sciences nec	104	56	48	50	31	19	48.1	55.4	39.6
Family and consumer sciences and human sciences	661	547	114	173	149	24	26.2	27.2	21.1
Mathematics and statistics	735	281	454	115	52	63	15.6	18.5	13.9
Mathematics and applied mathematics	615	233	382	114	52	62	18.5	22.3	16.2
Statistics	120	48	72	1	0	1	0.8	0.0	1.4
Multidisciplinary and interdisciplinary studies	503	319	184	133	87	46	26.4	27.3	25.0
Neurobiology and neuroscience	163	95	68	7	4	3	4.3	4.2	4.4
Physical sciences	966	453	513	189	100	89	19.6	22.1	17.3
Astronomy and astrophysics	11	2	9	2	0	2	18.2	0.0	22.2
Chemistry	733	394	339	121	75	46	16.5	19.0	13.6
Physics	199	45	154	66	25	41	33.2	55.6	26.6
Physical sciences nec	23	12	11	0	0	0	0.0	0.0	0.0
Psychology	3,841	3,040	801	308	237	71	8.0	7.8	8.9
Clinical psychology	516	418	98	50	42	8	9.7	10.0	8.2
Psychology, general	842	638	204	170	129	41	20.2	20.2	20.1
Psychology nec	2,483	1,984	499	88	66	22	3.5	3.3	4.4
Social sciences	10,385	6,655	3,730	1,893	1,272	621	18.2	19.1	16.6
Agricultural economics	41	15	26	0	0	0	0.0	0.0	0.0
Anthropology	233	164	69	0	0	0	0.0	0.0	0.0
Economics (except agricultural)	426	143	283	27	15	12	6.3	10.5	4.2

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Field	All institutions (number)			HBCUs (number)			HBCUs (%)		
	All S&E graduate students	Female	Male	All S&E graduate students	Female	Male	All S&E graduate students	Female	Male
Geography	137	68	69	0	0	0	0.0	0.0	0.0
History and philosophy of science	6	4	2	0	0	0	0.0	0.0	0.0
Linguistics	72	54	18	0	0	0	0.0	0.0	0.0
Political science and government	5,809	3,721	2,088	954	636	318	16.4	17.1	15.2
Sociology	954	657	297	133	98	35	13.9	14.9	11.8
Sociology and anthropology	38	27	11	29	20	9	76.3	74.1	81.8
Social sciences nec	2,669	1,802	867	750	503	247	28.1	27.9	28.5
Engineering	3,714	1,096	2,618	382	142	240	10.3	13.0	9.2
Aerospace engineering	69	13	56	0	0	0	0.0	0.0	0.0
Agricultural engineering	34	17	17	0	0	0	0.0	0.0	0.0
Architecture	88	42	46	41	20	21	46.6	47.6	45.7
Biomedical engineering	254	114	140	6	3	3	2.4	2.6	2.1
Chemical engineering	215	92	123	13	3	10	6.0	3.3	8.1
Civil engineering	475	141	334	32	13	19	6.7	9.2	5.7
Electrical engineering	805	149	656	64	15	49	8.0	10.1	7.5
Engineering science, mechanics, and physics	35	5	30	0	0	0	0.0	0.0	0.0
Industrial and manufacturing engineering	579	203	376	24	14	10	4.1	6.9	2.7
Mechanical engineering	434	98	336	32	8	24	7.4	8.2	7.1
Metallurgical and materials engineering	166	67	99	24	18	6	14.5	26.9	6.1
Mining engineering	2	0	2	0	0	0	0.0	0.0	0.0
Nuclear engineering	15	8	7	0	0	0	0.0	0.0	0.0
Petroleum engineering	63	8	55	0	0	0	0.0	0.0	0.0
Engineering nec	480	139	341	146	48	98	30.4	34.5	28.7

HBCUs = historically black colleges and universities; nec = not elsewhere classified; S&E = science and engineering.

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.