

Women, Minorities, and Persons with Disabilities in Science and Engineering

TABLE D-5. Black U.S.-citizen and permanent-resident S&E graduate students in all institutions and HBCUs, by field and sex: 2003

Field	All institutions			HBCUs			Black students in HBCUs		
	Total	Female	Male	Total	Female	Male	Total	Female	Male
	Number						Percent		
S&E	24,134	14,693	9,441	4,000	2,588	1,412	16.6	17.6	15.0
Science	20,922	13,652	7,270	3,672	2,470	1,202	17.6	18.1	16.5
Agricultural sciences	462	266	196	260	145	115	56.3	54.5	58.7
Biological sciences	2,762	1,903	859	573	407	166	20.7	21.4	19.3
Anatomy	37	22	15	4	3	1	10.8	13.6	6.7
Biochemistry	159	96	63	24	15	9	15.1	15.6	14.3
Biology	797	543	254	277	196	81	34.8	36.1	31.9
Biometry and epidemiology	229	166	63	0	0	0	0.0	0.0	0.0
Biophysics	17	8	9	0	0	0	0.0	0.0	0.0
Botany	26	14	12	0	0	0	0.0	0.0	0.0
Cell and molecular biology	172	117	55	0	0	0	0.0	0.0	0.0
Ecology	43	27	16	0	0	0	0.0	0.0	0.0
Entomology and parasitology	15	10	5	0	0	0	0.0	0.0	0.0
Genetics	75	55	20	21	14	7	28.0	25.5	35.0
Microbiology, immunology, and virology	245	173	72	39	27	12	15.9	15.6	16.7
Nutrition	246	208	38	74	63	11	30.1	30.3	28.9
Pathology	56	35	21	0	0	0	0.0	0.0	0.0
Pharmacology	185	115	70	53	34	19	28.6	29.6	27.1
Physiology	102	67	35	25	16	9	24.5	23.9	25.7
Zoology	11	6	5	0	0	0	0.0	0.0	0.0
Other	347	241	106	56	39	17	16.1	16.2	16.0
Computer sciences	1,945	821	1,124	283	139	144	14.6	16.9	12.8
Earth, atmospheric, and ocean sciences	270	140	130	51	24	27	18.9	17.1	20.8
Atmospheric	32	12	20	14	4	10	43.8	33.3	50.0
Earth	75	35	40	37	20	17	49.3	57.1	42.5
Ocean	35	26	9	0	0	0	0.0	0.0	0.0
Other	128	67	61	0	0	0	0.0	0.0	0.0
Mathematics and statistics	658	282	376	105	43	62	16.0	15.2	16.5
Mathematics/applied mathematics	564	243	321	105	43	62	18.6	17.7	19.3
Statistics	94	39	55	0	0	0	0.0	0.0	0.0
Physical sciences	939	431	508	167	75	92	17.8	17.4	18.1
Astronomy	9	5	4	0	0	0	0.0	0.0	0.0
Chemistry	663	349	314	94	51	43	14.2	14.6	13.7
Physics	236	57	179	73	24	49	30.9	42.1	27.4
Other	31	20	11	0	0	0	0.0	0.0	0.0
Psychology	4,670	3,744	926	891	745	146	19.1	19.9	15.8
Clinical	857	709	148	0	0	0	0.0	0.0	0.0
General	1,559	1,200	359	345	288	57	22.1	24.0	15.9
Nonclinical	2,254	1,835	419	546	457	89	24.2	24.9	21.2
Social sciences	9,216	6,065	3,151	1,342	892	450	14.6	14.7	14.3
Agricultural economics	76	38	38	35	22	13	46.1	57.9	34.2
Anthropology (cultural and social)	275	214	61	0	0	0	0.0	0.0	0.0
Economics	363	154	209	16	8	8	4.4	5.2	3.8
Geography	141	80	61	0	0	0	0.0	0.0	0.0
History and philosophy of science	24	8	16	0	0	0	0.0	0.0	0.0
Linguistics	49	35	14	0	0	0	0.0	0.0	0.0
Political science and public administration	4,847	3,238	1,609	726	477	249	15.0	14.7	15.5
Sociology	1,080	737	343	181	138	43	16.8	18.7	12.5
Other	2,361	1,561	800	384	247	137	16.3	15.8	17.1
Engineering	3,212	1,041	2,171	328	118	210	10.2	11.3	9.7
Aerospace	59	9	50	0	0	0	0.0	0.0	0.0
Agricultural	27	15	12	0	0	0	0.0	0.0	0.0
Biomedical	159	89	70	0	0	0	0.0	0.0	0.0
Chemical	173	78	95	10	2	8	5.8	2.6	8.4
Civil	427	155	272	59	27	32	13.8	17.4	11.8
Electrical	812	183	629	44	9	35	5.4	4.9	5.6
Engineering sciences/physics	42	6	36	0	0	0	0.0	0.0	0.0

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	Number						Percent		
Industrial/manufacturing	685	266	419	52	24	28	7.6	9.0	6.7
Mechanical	382	86	296	50	15	35	13.1	17.4	11.8
Metallurgical and materials	111	51	60	6	3	3	5.4	5.9	5.0
Mining	2	0	2	0	0	0	0.0	0.0	0.0
Nuclear	12	8	4	0	0	0	0.0	0.0	0.0
Petroleum	11	1	10	0	0	0	0.0	0.0	0.0
Other	310	94	216	107	38	69	34.5	40.4	31.9

HBCUs = historically black colleges and universities

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering, 2003.