

TABLE 5-2

Graduate students, postdoctoral appointees, and doctorate-holding nonfaculty researchers in science, engineering, and health at HBCUs: 2019

(Number and percent)

Sex, citizenship, ethnicity, race, and broad field	Graduate students						Postdoctoral appointees		Doctorate-holding nonfaculty researchers	
	All graduate students		Master's		Doctoral					
	Total number	Percent in HBCUs	Total number	Percent in HBCUs	Total number	Percent in HBCUs	Total number	Percent in HBCUs	Total number	Percent in HBCUs
All individuals	690,117	1.0	408,228	1.1	281,889	0.8	66,247	0.2	30,349	0.4
Male	364,995	0.7	205,768	0.8	159,227	0.6	39,173	0.2	17,980	0.4
Female	325,122	1.2	202,460	1.4	122,662	0.9	27,074	0.2	12,369	0.3
U.S. citizens and permanent residents ^a	456,504	1.2	287,370	1.4	169,134	1.0	29,452	0.2	na	na
Hispanic or Latino	54,467	0.4	36,777	0.4	17,690	0.3	1,924	0.1	na	na
Not Hispanic or Latino										
American Indian or Alaska Native	2,077	1.1	1,327	1.1	750	0.9	69	0.0	na	na
Asian	48,844	0.5	31,301	0.5	17,543	0.7	5,891	0.3	na	na
Black or African American	38,048	10.4	27,598	10.3	10,450	10.7	1,088	2.9	na	na
Native Hawaiian or Other Pacific Islander	744	1.1	542	0.9	202	1.5	52	0.0	na	na
White	272,545	0.3	163,836	0.3	108,709	0.2	16,972	0.1	na	na
More than one race	15,613	0.8	9,593	0.8	6,020	0.7	519	0.0	na	na
Unknown ethnicity and race	24,166	1.0	16,396	1.1	7,770	0.7	2,937	0.2	na	na
Temporary visa holders	233,613	0.4	120,858	0.4	112,755	0.5	36,795	0.2	na	na
Science	453,691	1.0	259,795	1.2	193,896	0.7	38,503	0.3	18,819	0.5
Agricultural sciences	9,518	2.9	5,629	3.9	3,889	1.3	1,079	0.8	645	2.2
Biological and biomedical sciences	91,993	1.1	38,078	1.7	53,915	0.7	21,847	0.2	8,229	0.3
Computer and information sciences	101,284	0.8	84,092	0.8	17,192	0.8	878	0.1	510	0.4
Geosciences, atmospheric sciences, and ocean sciences	11,878	0.6	5,327	0.9	6,551	0.3	1,778	0.1	2,177	1.0
Mathematics and statistics	33,159	0.5	19,594	0.6	13,565	0.3	1,070	0.2	305	0.0
Multidisciplinary and interdisciplinary studies	11,181	0.3	8,203	0.2	2,978	0.4	972	0.5	820	0.0
Natural resources and conservation	11,743	1.5	8,066	0.9	3,677	2.9	806	2.6	582	2.6
Physical sciences	42,867	0.8	6,361	2.5	36,506	0.5	7,159	0.4	3,316	0.2
Psychology	61,069	1.2	40,838	1.4	20,231	0.8	1,152	0.0	576	0.0
Social sciences	78,999	1.1	43,607	1.3	35,392	0.8	1,762	0.0	1,659	0.4
Engineering	164,004	0.5	91,939	0.5	72,065	0.6	8,266	0.1	3,909	0.1
Health	72,422	1.7	56,494	1.6	15,928	2.1	19,478	0.1	7,621	0.2
Clinical medicine ^b	30,822	1.6	26,251	1.4	4,571	2.9	16,650	*	6,273	0.1
Other health	41,600	1.8	30,243	1.8	11,357	1.8	2,828	0.4	1,348	1.0
Black or African American individuals										
Male	14,725	9.6	10,593	9.1	4,132	10.6	433	2.8	na	na
Female	23,323	11.0	17,005	11.0	6,318	10.8	655	3.1	na	na
Science	26,450	10.9	18,996	10.8	7,454	10.9	537	4.5	na	na
Agricultural sciences	329	43.5	227	51.1	102	26.5	13	0.0	na	na
Biological and biomedical sciences	5,270	11.6	3,210	13.4	2,060	8.9	307	2.6	na	na

TABLE 5-2

Graduate students, postdoctoral appointees, and doctorate-holding nonfaculty researchers in science, engineering, and health at HBCUs: 2019

(Number and percent)

Sex, citizenship, ethnicity, race, and broad field	Graduate students						Postdoctoral appointees		Doctorate-holding nonfaculty researchers	
	All graduate students		Master's		Doctoral					
	Total number	Percent in HBCUs	Total number	Percent in HBCUs	Total number	Percent in HBCUs	Total number	Percent in HBCUs	Total number	Percent in HBCUs
Computer and information sciences	5,247	8.6	4,803	8.2	444	12.6	7	0.0	na	na
Geosciences, atmospheric sciences, and ocean sciences	258	10.9	152	15.1	106	4.7	15	0.0	na	na
Mathematics and statistics	716	11.0	519	11.6	197	9.6	9	0.0	na	na
Multidisciplinary and interdisciplinary studies	788	1.8	619	1.3	169	3.6	23	4.3	na	na
Natural resources and conservation	364	27.5	216	12.0	148	50.0	20	65.0	na	na
Physical sciences	1,063	15.5	335	21.8	728	12.6	48	4.2	na	na
Psychology	6,184	9.4	4,709	9.9	1,475	7.7	15	0.0	na	na
Social sciences	6,231	11.3	4,206	11.0	2,025	11.9	80	0.0	na	na
Engineering	4,220	8.8	2,708	8.3	1,512	9.7	70	4.3	na	na
Health	7,378	9.8	5,894	9.5	1,484	10.8	481	1.0	na	na
Clinical medicine ^b	4,393	9.7	3,799	8.5	594	17.8	407	0.2	na	na
Other health	2,985	9.8	2,095	11.3	890	6.2	74	5.4	na	na

* = value < 0.05%; na = not applicable.

HBCU = historically Black college or university.

^a Ethnicity and race data are available only for U.S. citizens and permanent residents.^b Clinical medicine includes graduate students in public health and clinical medicine not elsewhere classified (nec). Clinical medicine includes postdoctoral appointees and nonfaculty researchers in anesthesiology, cardiology, endocrinology, gastroenterology, hematology, neurology, obstetrics and gynecology, oncology and cancer research, ophthalmology, otorhinolaryngology, pediatrics, psychiatry, public health, pulmonary disease, radiology, surgery, and clinical medicine nec.**Note(s):**

"Field" refers to the field of the unit that reports postdoctoral appointees and doctorate-holding nonfaculty researchers to the Survey of Graduate Students and Postdoctorates in Science and Engineering. Percentages may not add to total because of rounding.

Source(s):

National Center for Science and Engineering Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering, 2019.