

NACME RESEARCH BRIEF

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Engineering

DIVERSITY BY THE NUMBERS

In 2019, 591 institutions in the United States awarded at least one engineering degree at the Bachelors of Science (BS) level and accounted for a total of 126,747 degrees awarded that year. While engineering programs across the country continue to increase their degree production, the fraction of degrees awarded to African American remains relatively flat. In 2019 approximately 4,895 were awarded to African Americans* representing a modest 4% of the total engineering degree population. The number of engineering degrees awarded to Hispanics has increased over the years and 13,732 were awarded in 2019, representing 11% of the total BS degrees in engineering. A total of 447 institutions awarded at least one BS degree in engineering to an African American and/or Hispanic, yet a significant portion of these degree granting institutions did not award any degrees to these two groups. As we review the state of the nation with regards to the participation of African Americans, Hispanic and Native Americans in engineering, we are reminded that there is still work to be done to reach a goal of representation that mirrors the demographics of the nation. (See Table 1.0)

NACME is uniquely poised to support broadening participation in engineering and computer science at our over thirty-five partner institutions by integrating research and practice to ensure more impactful outcomes. Each year we have approximately 1000 engineering and computer science scholars at a diverse set of institutions. Collectively these 35+ institutions account for about 25% of the nation's BS degrees in engineering that are awarded to African Americans and Hispanic/Latinx Americans. In this report we offer a summary of US institutions awarding engineering degrees in 2019 to African Americans and Hispanic/Latinx Americans, and offer a detailed review of degree production at HBCUs. Table 2.0 lists the twenty-seven four-year HBCUs who awarded at least one engineering degree in 2019. While HBCUs are known for awarding degrees to African Americans, many of the institutions are also awarding a significant number of their engineering degrees to other groups. Morgan State University, Howard University, Tennessee State University, Texas Southern University, University of Maryland Eastern Shore and University of the District of Columbia award more than 50% of their engineering degrees to other groups. Despite this trend of HBCUs diversifying their student population, a significant number of African American engineers receive training at these institutions.

National Action Council for Minorities in Engineering, Inc. (NACME) was founded in 1974 to ensure American competitiveness in a flat world by leading and supporting the national effort to expand U.S. capability through increasing the number of successful African American, American Indian, and Latino young women and men in science, technology, engineering, and mathematics (STEM) education and careers. NACME Alumni hold leadership positions in industry, medicine, law, education, and government. With funding from corporate and individual donors, NACME has supported over 25,000 students with more than \$124 million in scholarships and other support. Currently NACME provides scholarship support to approximately 1000 engineering and computer science students each year through a national network of over 35 partner institutions. NACME's STEM education strategy incorporates a continuum of programs and activities from pre-college through workforce entry.

[Visit us at nacme.org](http://www.nacme.org)

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Tables 1.0 and 2.0 provide a summary of BS engineering degrees to US citizens and a list of the top HBCU institutions awarding degrees to African Americans.

Table 1.0 Summary of 2019 BS Engineering Degrees Awarded by US Institutions

	# of Degrees	Fraction of total engineering degrees awarded	Fraction of US Population (ages 20-34)
All US Citizens	126,747		
Hispanic	13,732	11%	20%
African American	4,895	4%	13%

Table 2.0 2019 BS Engineering Degrees Awarded by HBCUs to All Students and to African Americans

Engineering Degrees Awarded by HBCUs in 2019			
Institution name	All US Citizens	Black or African American	Fraction to African Americans
North Carolina A & T State University	211	127	60%
Prairie View A & M University	172	116	67%
Morgan State University	175	68	39%
Jackson State University	80	63	79%
Alabama A & M University	67	62	93%
Southern University and A & M College	53	50	94%
Tuskegee University	86	47	55%
Howard University	69	33	48%
Florida Agricultural and Mechanical University	31	24	77%
Virginia State University	21	20	95%
Tennessee State University	55	19	35%
Norfolk State University	19	16	84%
Morehouse College	18	15	83%
Delaware State University	17	13	76%
Texas Southern University	48	12	25%
Central State University	9	9	100%
University of Maryland Eastern Shore	22	8	36%
Benedict College	10	7	70%
Hampton University	7	7	100%
University of the District of Columbia	54	6	11%
Clafin University	6	5	83%
South Carolina State University	5	3	60%
Johnson C Smith University	3	2	67%
Saint Augustine's University	2	2	100%
Lincoln University	2	2	100%
Alabama State University	1	1	100%
Bethune-Cookman University	1	1	100%