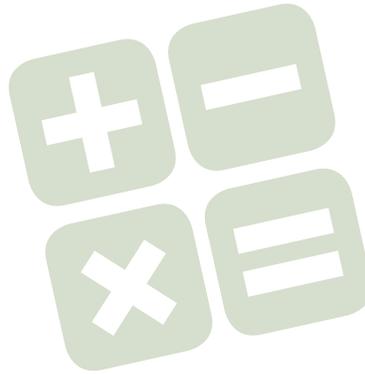


Higher Ed Spotlight

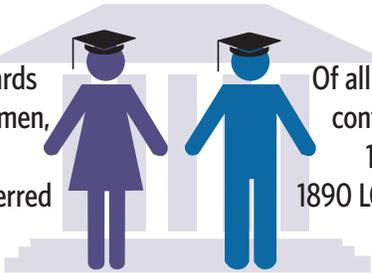
1862 and 1890 Land-Grant University Contributions to the STEM Workforce

What is a Land-Grant University? A land-grant university (LGU) is an institution designated by a state or Congress to receive the benefits of the Morrill Acts of 1862 and 1890. The original mission of these institutions was to teach agriculture and mechanical arts so that working-class and African American citizens could obtain a liberal, practical education. Although 1862 and 1890 LGUs share a similar mission, 1862 LGUs are predominantly white institutions (PWIs), whereas all 1890 LGUs are historically black colleges and universities (HBCUs). Collectively, LGUs are positioned to prepare diverse, well-trained students to enter the science, technology, mathematics, and engineering (STEM) workforce.

Among U.S. states and territories, there are **54** four-year 1862 LGUs² and **19** 1890 LGUs.³



Of all STEM awards conferred to women, 1862 LGUs and 1890 LGUs conferred **21.3%**.



Of all STEM awards conferred to men, 1862 LGUs and 1890 LGUs conferred **23.4%**.

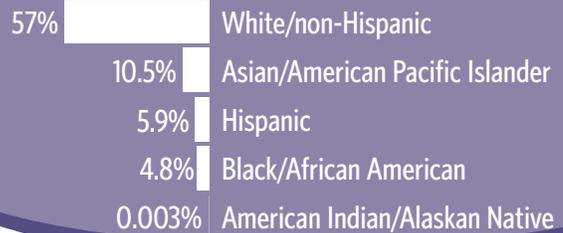
Of all STEM awards conferred to African Americans by LGUs, 1862 LGUs produced **57%** and 1890 LGUs produced **43%**.

Of all **STEM** awards conferred⁴ nationally, **22.7%** were produced by 1862 LGUs (22%) and 1890 LGUs (0.7%).

GENDER



ETHNICITY



TOP 3

1862 LAND-GRANT PRODUCERS OF STEM DEGREES (BS, MS, PHD)

- 1ST:** Texas A&M University, College Station
- 2ND:** Purdue University (IN)
- 3RD:** The Pennsylvania State University

1890 LAND-GRANT PRODUCERS OF STEM DEGREES (BS, MS, PHD)

- 1ST:** North Carolina A&T State University
- 2ND:** Prairie View A&M University (TX)
- 3RD:** Florida A&M University



1862 LGUs and 1890 LGUs conferred:
64,117 STEM BS awards
18,094 STEM MS awards
8,557 STEM PhD awards

¹ Land-grant status was also conferred to 29 Native American colleges in 1994 as a provision of the Elementary and Secondary Education Reauthorization Act. However, these institutions are not included in this analysis.
² This total includes the 1862 LGUs in all 50 states, plus those located in the District of Columbia, Guam, Puerto Rico, and the U.S. Virgin Islands.
³ Central State University (OH) did not receive 1890 land-grant status in the 2014 Farm Bill; therefore, Central State University STEM completion data was not included in this analysis.
⁴ All STEM awards refer to bachelor's, master's, and doctoral degrees.