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The Current State of STEM Education for American Indian and Alaska Native Communities

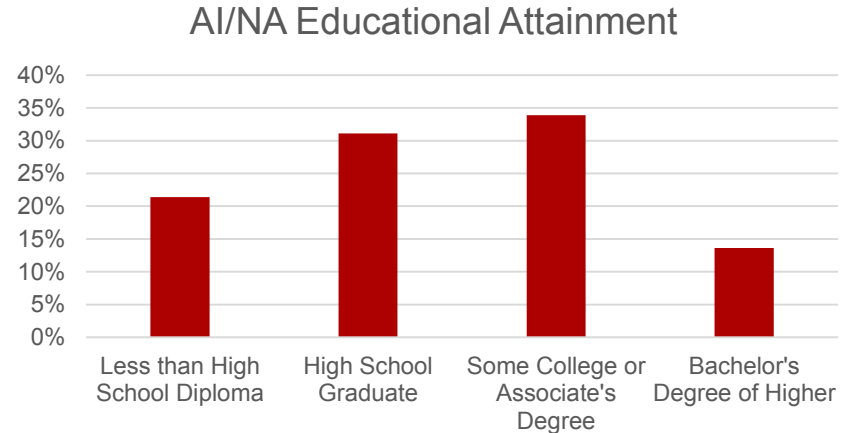
SAND2016-7525 PE



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Native American/Alaska Native Educational Attainment

- AI/AN students have the lowest graduation rate among any minority group.
- Only 47 percent of AI/AN students attended public high schools where the full range of mathematics and science courses were offered (2011-2012).
- Only 7 of 100 AI/AN kindergarten students will earn a bachelor's degree.

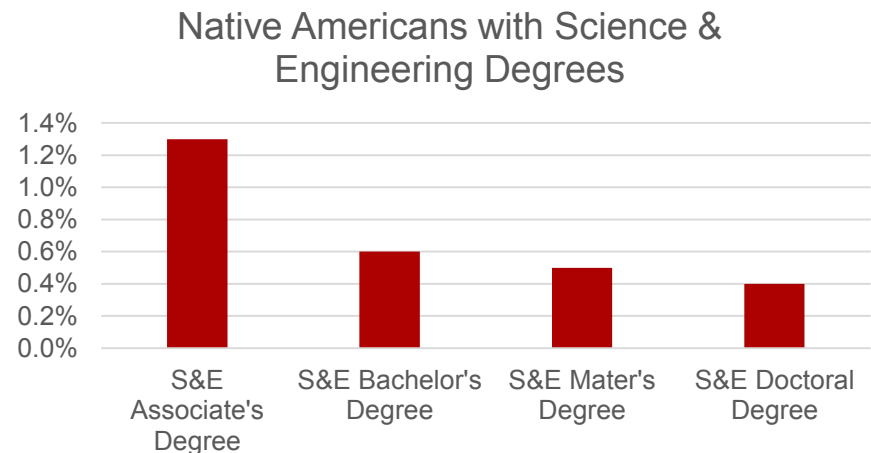


- AI/AN students have less access to rigorous mathematics and science coursework in high school compared to other race/ethnicity groups.

Native American/Alaska Native STEM Education

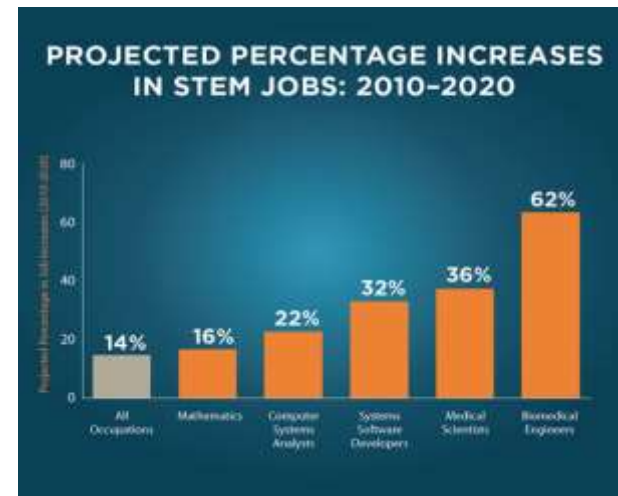
- American Indian & Alaska Native STEM Students
 - 0.3% (3 out of 1,000) AI/AN in the US Engineering workforce (2010)
 - 0.07% (1 out of 13,000) AI/AN women in the US Engineering workforce
 - Approximate Average/year US Engineering degrees awarded between 2001 – 2013: 300 BS, 75 MS, 10 PhD

- American Indians/Alaska Natives are underrepresented in S&E at the bachelor's, master's, and doctoral levels.



Native American/Alaska Native STEM Workforce

- American Indians and Alaskan Natives are not prevalent in engineering.
- Although they make up 1.2% of the total population, they represent only 0.4% of all engineering bachelor's degree recipients, 0.3% of the engineering workforce, and 0.1% of all engineering faculty.



Sources: Chang, Joy. (2015). "Bridging the Racial Gap in STEM Education." National Action Council on Minorities in Engineering, Inc. (NACME). | Landivar, Liana Christin. "Disparities in STEM Employment by Sex, Race, and Hispanic Origin." (2013). American Community Survey Reports, US. Census Bureau. | U.S. Dept. of Education. "Science, Technology, Engineering and Math: Education for Global Leadership."