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# NSF HSI STEM Resource Hub

## Goal

to implement and promote flexible, inclusive, and responsive training and dissemination opportunities that foster collaborations and partnerships to increase HSI grant success, especially for 2-yr and 4-yr HSI colleges.



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## OBJECTIVES

Develop a national network of HSIs and their allies



Provide training for faculty, staff, and administrators in the grantsmanship pathway



Build HSI institutional capacity and infrastructure for STEM research and education



Foster educational experiences that address diversity, equity, and inclusion issues that impact STEM education

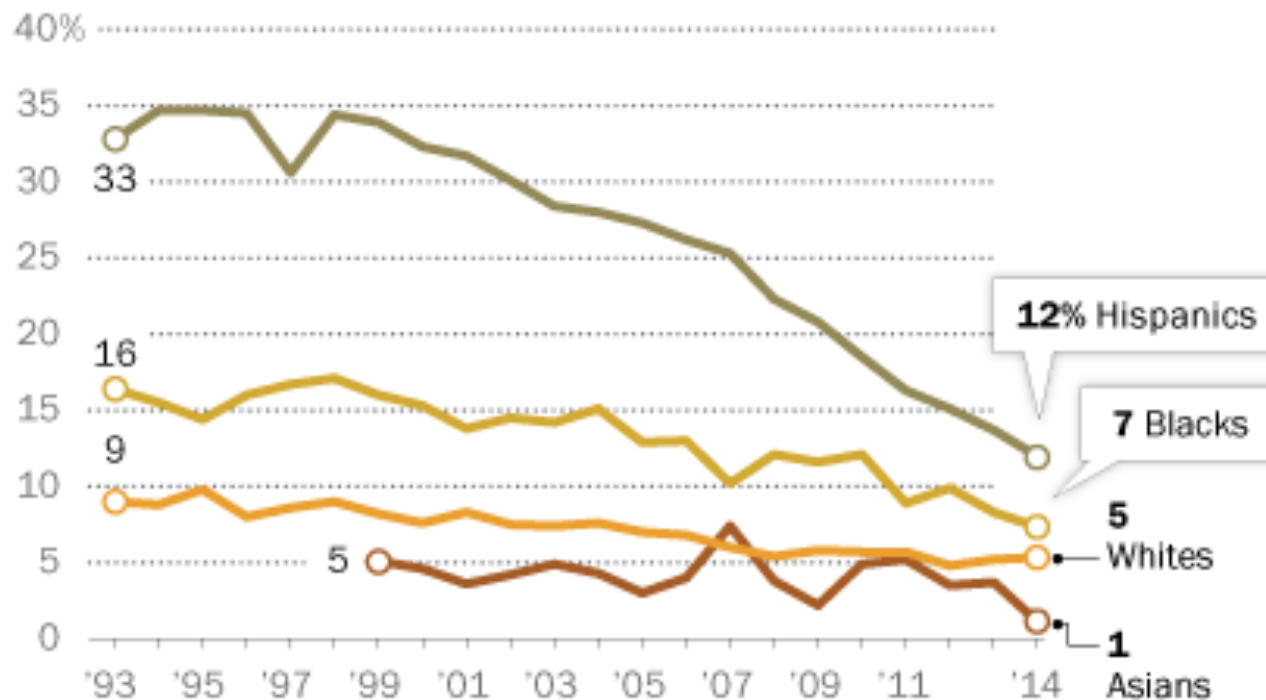


Promote development of STEM research education initiatives that are evidence-based to increase HSI student retention and degree completion



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# High school dropout rate for Hispanics is at an all-time low



Notes: The dropout rate shown refers to the share of 18-to 24-year-olds who were not enrolled in school and had not completed high school. Blacks and Asians include the Hispanic portions of those groups. Whites include only non-Hispanics. Hispanics are of any race.

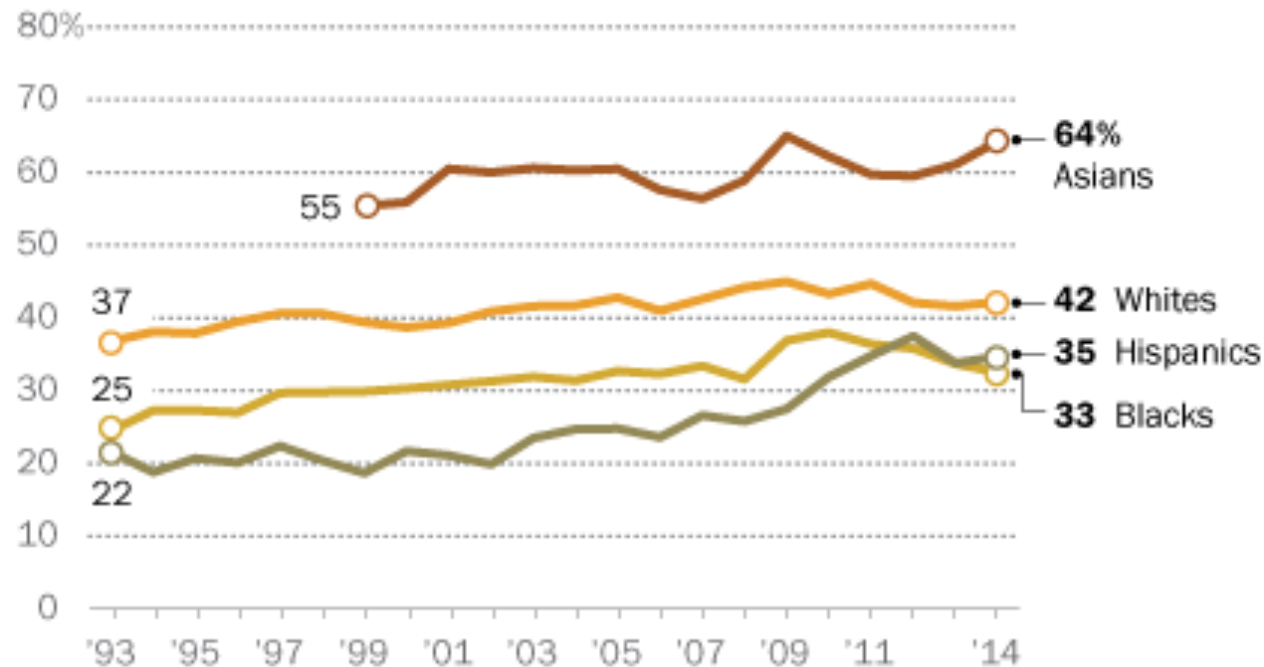
Source: U.S. Census Bureau October Current Population Survey.

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# Hispanic college enrollment percentage is steadily increasing



Notes: Blacks and Asians include the Hispanic portions of those groups. Whites include only non-Hispanics. Hispanics are of any race.

Source: U.S. Census Bureau October Current Population Survey.

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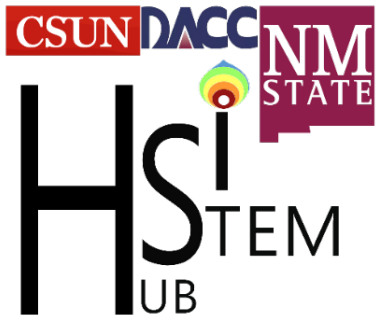
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# Latinx students lag behind their peers in terms of college completion

- 1/4 of K-12 students are latinx
- 1/3 of children age 0-5 are latinx
- By 2025, 1/5 of college students will be latinx
- 23% of Latinx have an A.A./ A.S or higher
  - 47% of whites
  - 32% of African Americans
- 54% of Latinx students earn a B.S. within 6 yrs
  - 63% of white students
  - 59% of all students

<https://www.insidehighered.com/news/2018/10/12/excelencia-education-will-review-how-well-colleges-serve-latinx-students>

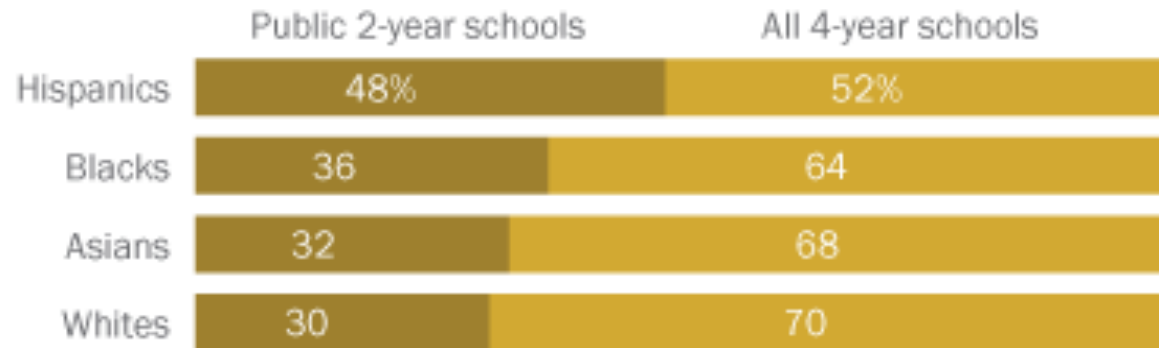


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# Almost half of Hispanic college students attend public two-year schools



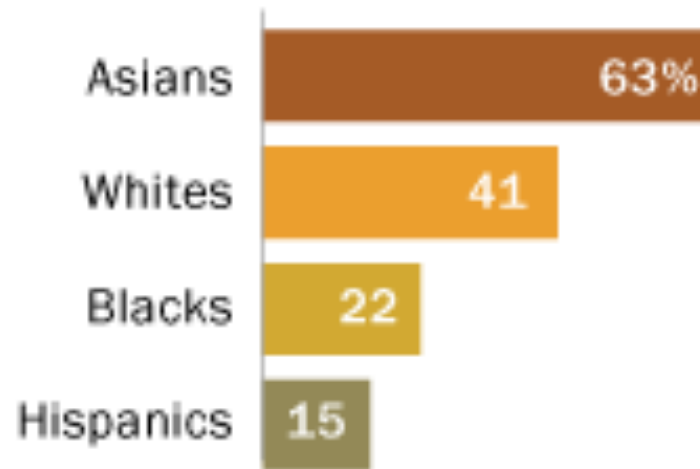
Notes: Enrollment includes students of all ages. Asians include Pacific Islanders. Whites, blacks and Asians/Pacific Islanders do not include Hispanics. Hispanics are of any race. Enrollment in private 2-year schools not shown.

Source: National Center for Education Statistics, U.S. Department of Education

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# Only 15 % of Hispanics age 25-29 hold a bachelor's degree or more (2014)



Note: Whites, blacks and Asians include only non-Hispanics. Hispanics are of any race.

Source: Pew Research Center tabulations of the March Current Population Survey (IPUMS).

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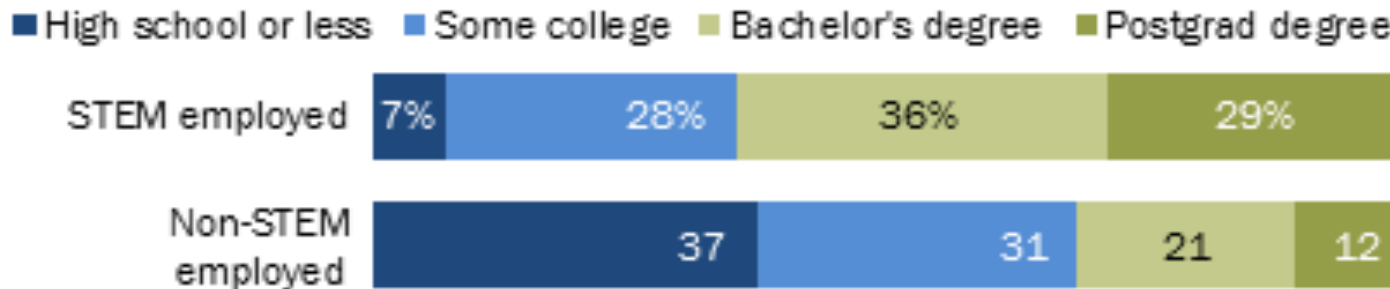


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# ~ 3/10 STEM Employees (age 25+) have a postgraduate degree



Note: Figures may not add to 100% due to rounding. Some college includes those with an associate degree and those who attended college but did not obtain a degree. Postgrad degree includes those who have completed a master's, professional or doctoral degree. STEM stands for science, technology, engineering and math.

Source: Pew Research Center analysis of 2014-2016 American Community Survey (IPUMS). "Women and Men in STEM Often at Odds Over Workplace Equity"

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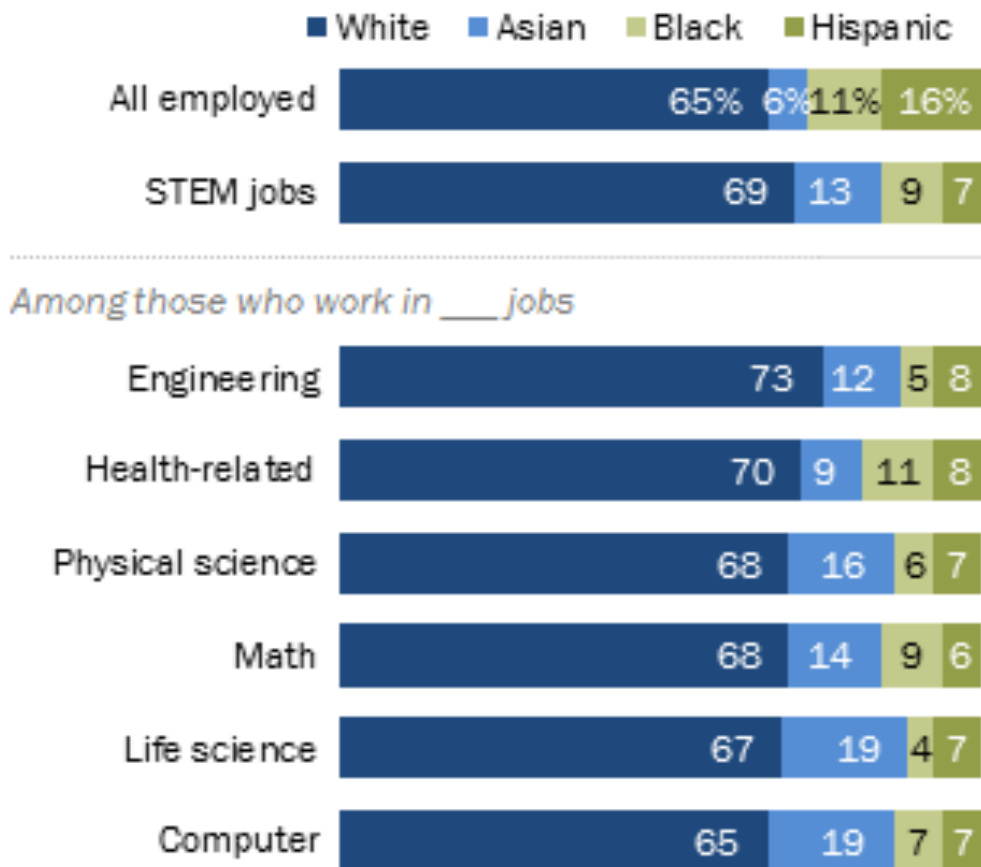
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# Hispanics are underrepresented across the STEM disciplines



Note: Based on employed adults ages 25 and older. Whites, blacks and Asians include only non-Hispanics. Hispanics are of any race. Other and mixed race non-Hispanics are not shown. Engineering includes architects. STEM stands for science, technology, engineering and math.

Source: Pew Research Center analysis of 2014-2016 American Community Survey (IPUMS).

"Women and Men in STEM Often at Odds Over Workplace Equity"

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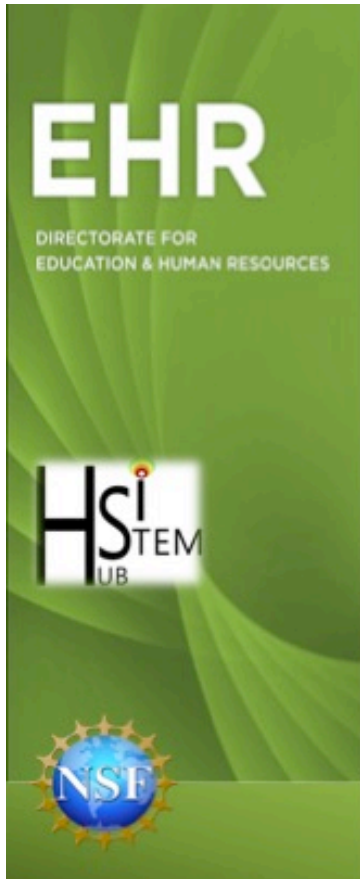


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# NSF Call



## Improving Undergraduate STEM Education: Hispanic-Serving Institutions (HSI Program) NSF 19-540

Deadline: September 18, 2019

- Website: <https://nsf.gov/ehr/HSIProgramPlan.jsp>  
FAQs, data from listening sessions, and announcements
- Addresses requirements set by Congress in the Consolidated Appropriations Act, 2017 and the American Innovation and Competitiveness Act, recognizing the need to:
  - ✓ **build capacity** at HSIs
  - ✓ **increase the retention and graduation rates** of students pursuing associate or baccalaureate degrees in STEM fields at HSIs

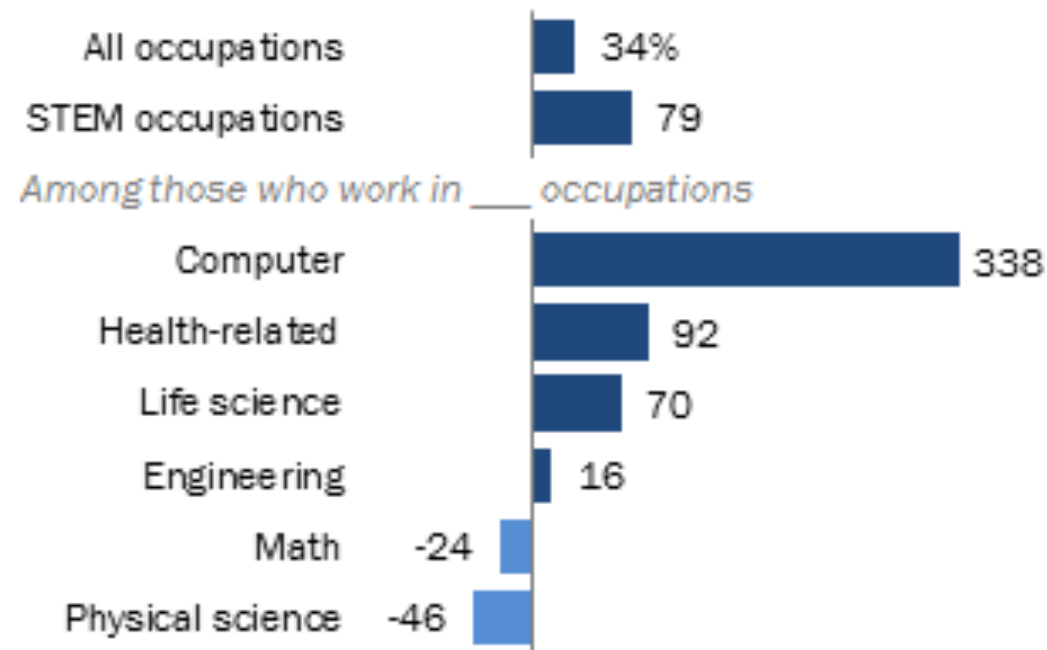


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# The number of computer science jobs has more than quadrupled since 1990



Note: Based on employed adults ages 25 and older. Engineering includes architects. STEM stands for science, technology, engineering and math.

Source: Pew Research Center analysis of 1990 decennial census and 2014-2016 American Community Survey (IPUMS).

"Women and Men in STEM Often at Odds Over Workplace Equity"

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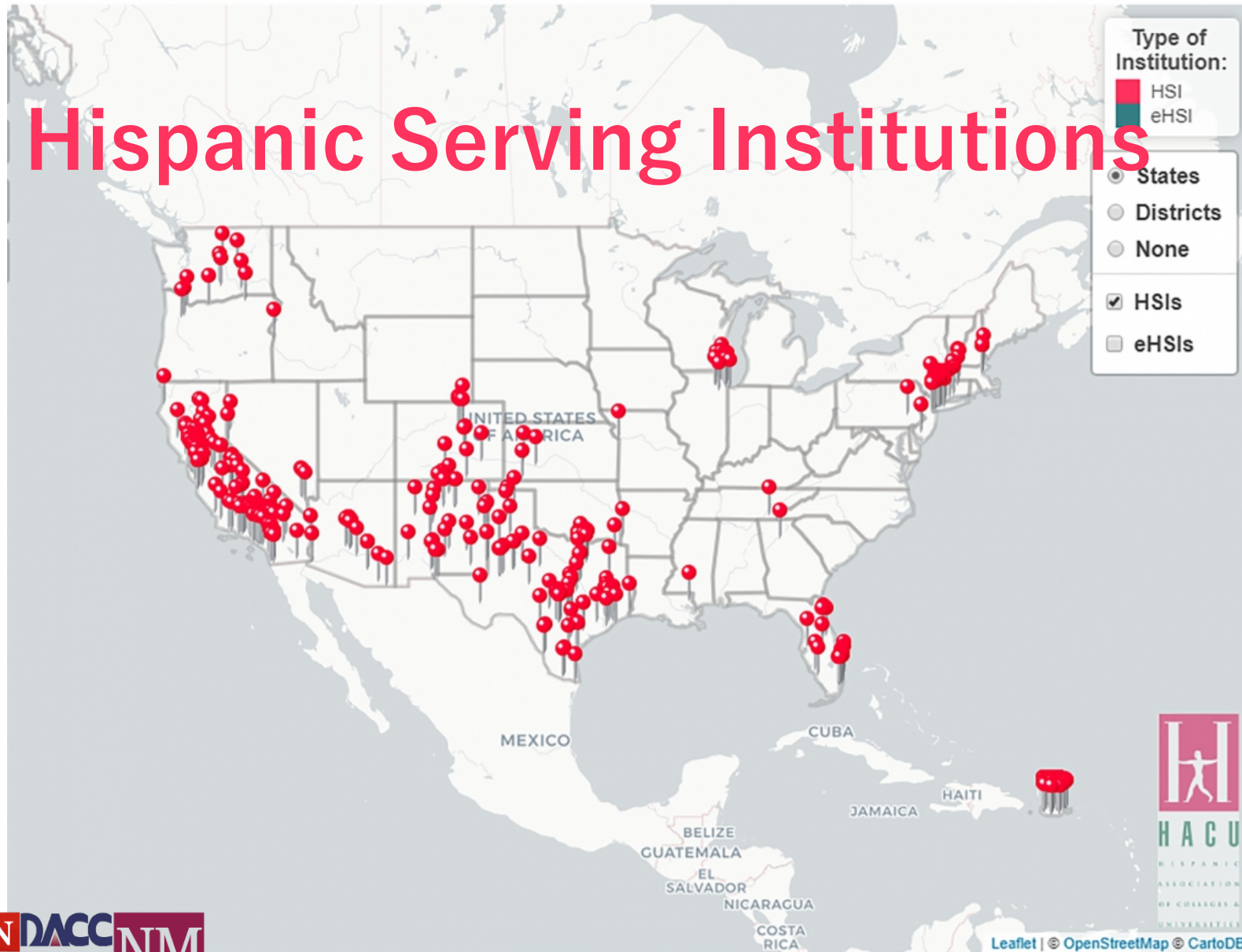


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# Hispanic Serving Institutions



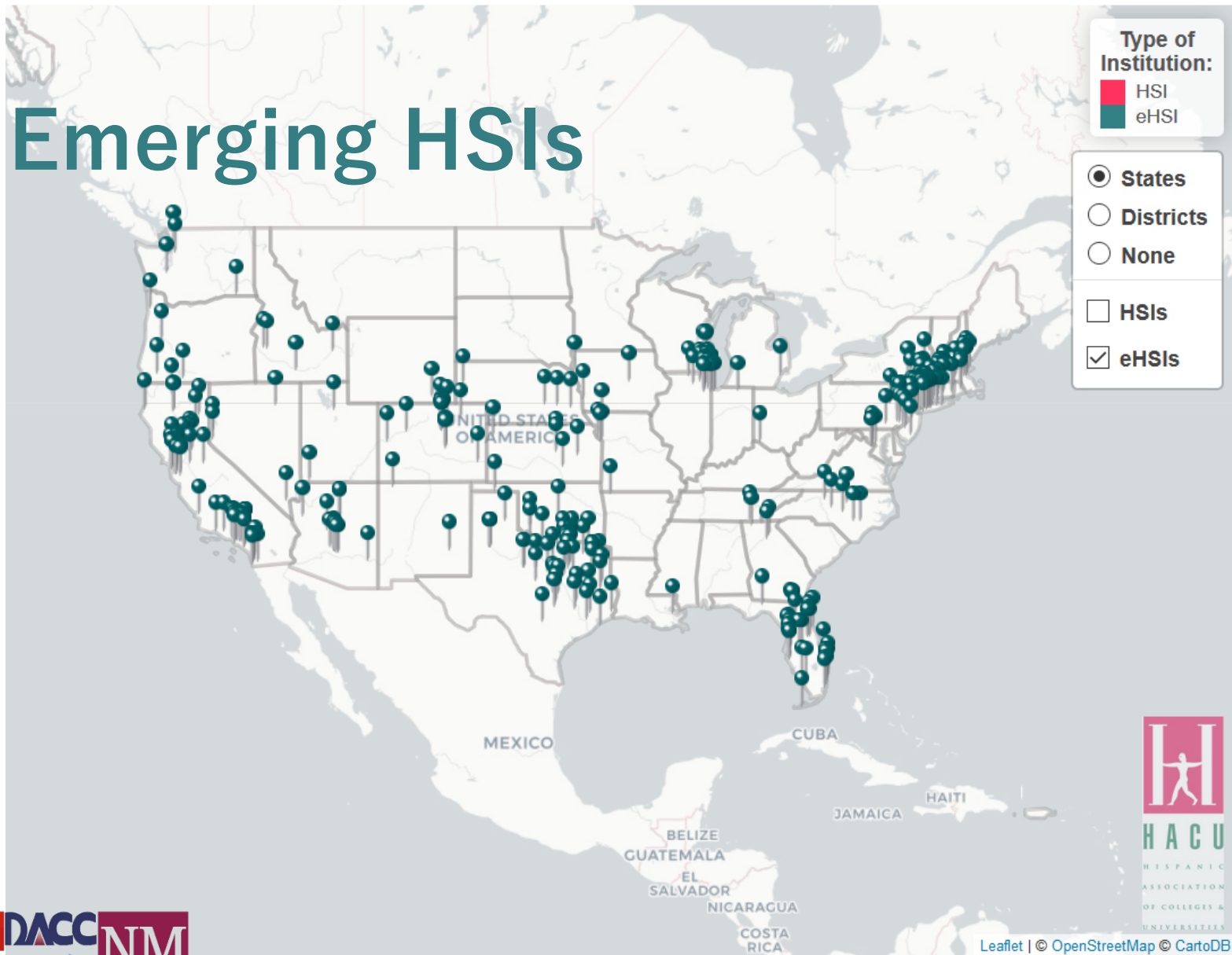
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# Emerging HSIs



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# What can the HSI STEM Hub do for you?

- Disseminate and Promote your outcomes
- Enhance your visibility and that of your institution
- Provide teleconference and webinars that support training of faculty staff and admin
- Help finding collaborators
- Develop resources/ training that you need

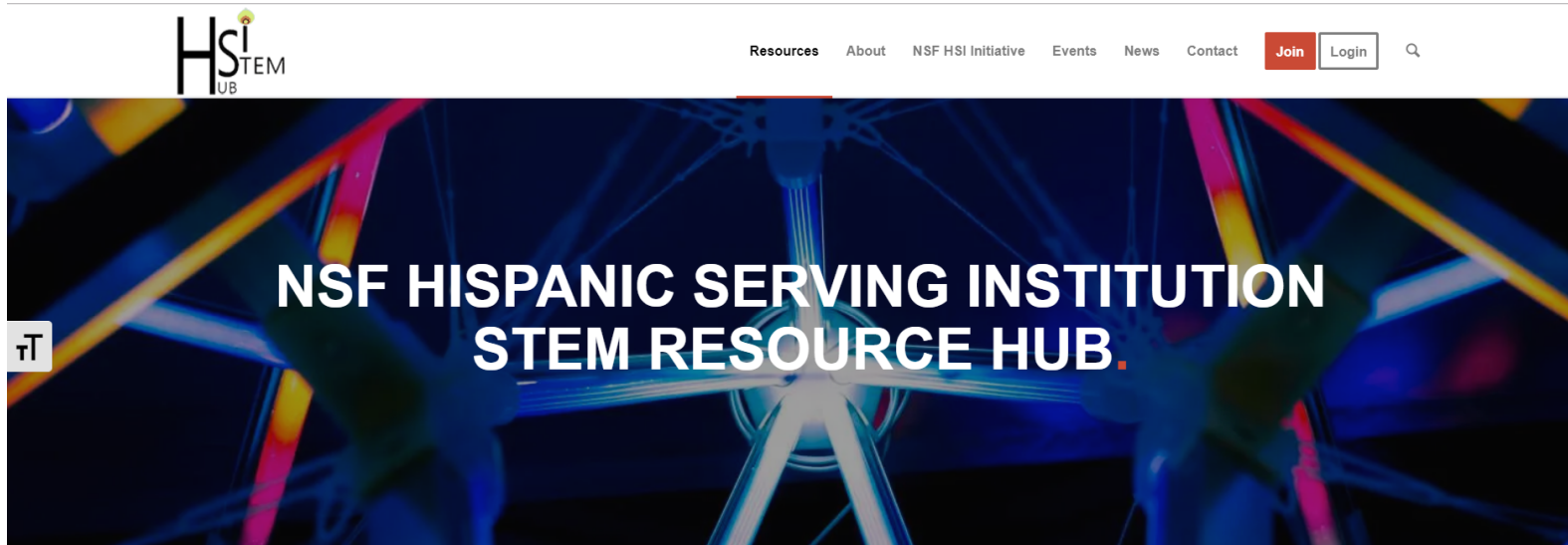


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<https://hsystemhub.org/>



The NSF National Resource Hub for STEM Education at **Hispanic Serving Institutions** will provide HSIs with resources for building institutional capacity that will increase STEM student retention and degree completion (NSF Awards **1832338** and **1832345**). The Hub is a collaborative effort between **New Mexico State University (NMSU)**, **California State University at Northridge (CSUN)**, and **Dona Ana Community College (DACC)**.

The **NSF HSI Program** has tasked the Resource Hub with supporting the needs of HSIs, especially those with little or no prior NSF funding, by providing



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# How can you participate in the HSI STEM Hub?

- Join
- Submit events/news info
- Sponsor/partner for workshops
- Mentor other hub members
- Disseminate
- Respond to need queries from evaluator and Submit needs request



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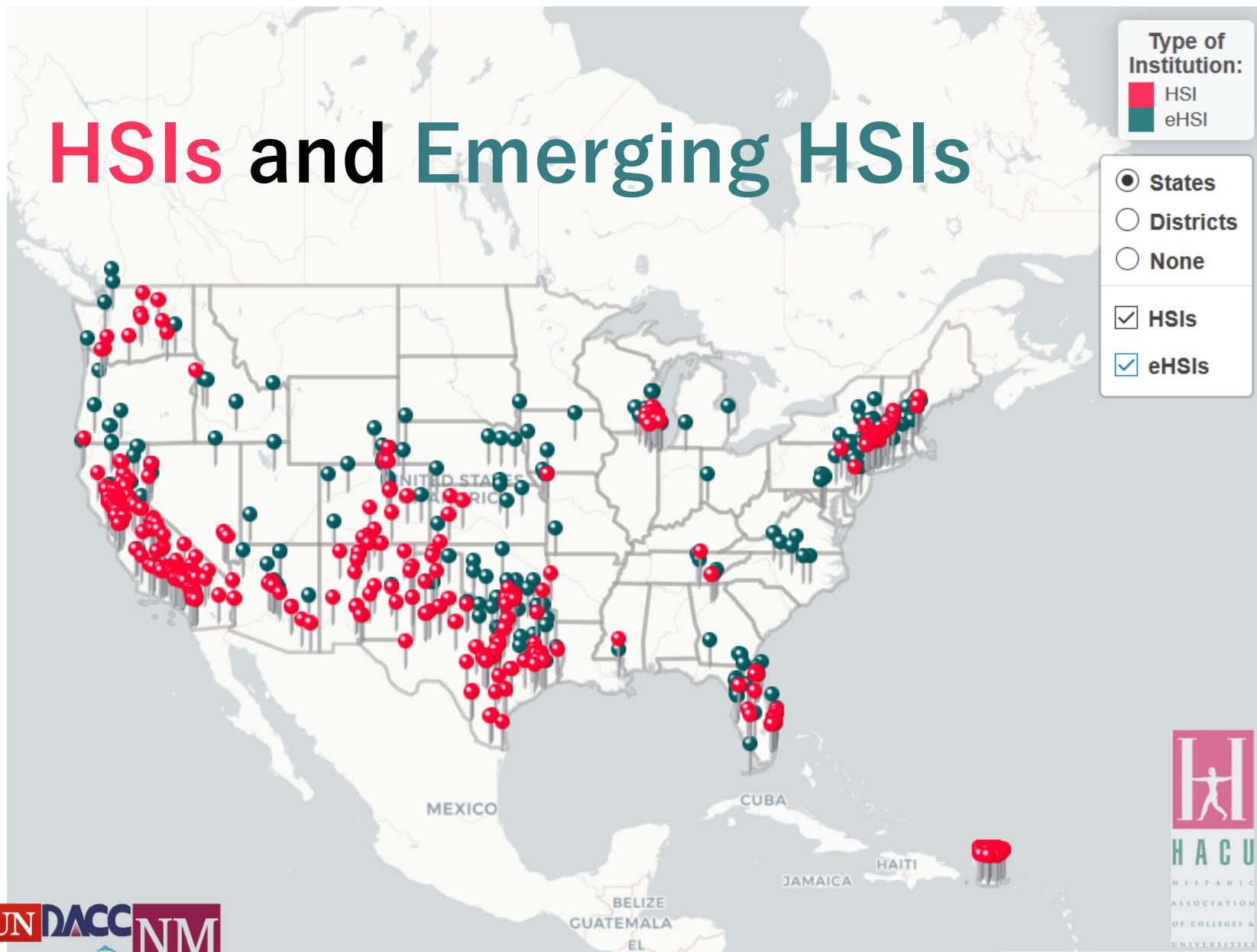


## Map



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# HSIs and Emerging HSIs



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