

The National Science Foundation's (NSF) [Improving Undergraduate STEM Education: Hispanic-Serving Institutions Program \(HSI Program\)](#) awarded 49 grants to Hispanic-Serving Institutions (HSIs) in Fiscal Year (FY) 2021 totaling approximately \$36 million, to support various projects.

The goals of the NSF's HSI program are to enhance the quality of undergraduate science, technology, engineering, and mathematics (STEM) education and to increase the recruitment, retention, and graduation rates of students pursuing associate's or baccalaureate degrees in STEM. Achieving these, given the diverse nature and context of the HSIs, requires additional strategies that support building capacity at HSIs through innovative approaches: to incentivize institutional and community transformation; and to promote fundamental research (i) on engaged student learning, (ii) about what it takes to diversify and increase participation in STEM effectively, and (iii) that improves our understanding of how to build institutional capacity at HSIs. Intended outcomes of the HSI Program include broadening participation of students that are historically underrepresented in STEM and expanding students' pathways to continued STEM education and integration into the STEM workforce.

The NSF HSI Program has three tracks:

- **Planning or Pilot Projects (PPP)**
The **Planning or Pilot Projects (PPP)** funds projects up to \$500,000 for up to 2 years. This track provides a funding opportunity for institutions that are [new to NSF⁵](#) or are Primarily Undergraduate Institutions (PUIs⁶), including community colleges.
- **Implementation and Evaluation Projects (IEP)**
The **Implementation and Evaluation Projects (IEP)** funds projects up to \$1 million for up to 3-5 years. This track supports the implementation of evidence-based unit-, department-, or multi-department-level activities that will enhance the quality of undergraduate STEM education.
- **Institutional Transformation Projects (ITP)**
The **Institutional Transformation Projects (ITP)** funds projects up to \$3 million for up to 5 years. This track supports institution-wide structural or systemic changes to enhance undergraduate STEM education at the proposing HSI.

The HSI program supports proposals for conferences addressing critical challenges in undergraduate STEM education and broadening STEM participation. Conference proposals that address increasing the diversity of institutions and faculty participating in the HSI program are strongly encouraged. In addition, the HSI program supports submissions to the Dear Colleague Letter ([NSF 21-066](#)) Supplemental Funding for Postdoctoral Researchers to Mitigate COVID-19 Impacts on Research Career Progression.

The FY 2021 awards and recipient institutions are listed below

TRACK 1: Planning/Pilot Projects (PPP)

- [Inclusive Community Collaboration and Supportive Cohorts to Improve STEM Student Success](#)
Chemeketa Community College
- [Improving First-to-Second Year Retention and Closing Equity Gaps through a STEM Academy-](#)
Columbia Basin College

- [Implementing Guided Inquiry Learning and Peer-Led Tutoring in Online Algebra and General Biology Laboratory Courses to Increase Student Retention and Degree Completion-](#) Indian River State College
- [HSI Pilot Project: Promoting Virtual Experiential Learning to Support Part-time and Nontraditional Students-](#) Palo Alto College
- [Integrating Culturally Relevant Pedagogy in Math Instruction at a Hispanic-Serving Community College to Increase Student Engagement and Success-](#)Riverside Community College District/Norco Campus
- [HSI IUSE Pilot: Implementation of a model recitation period to support STEM student development and scientific literacy skills in chemistry-](#) College of Mount Saint Vincent
- [HSI Pilot Project: Inclusive and Integrative STEM Education through Undergraduate Research -](#) University Corporation at Monterey Bay
- [HSI Planning Project: Amplifying Climate Resilience Curriculum Using Informal Learning Opportunities for Undergraduates-](#) NSHE Board of Regents on behalf of Nevada State College
- [The Research Advancement among Careers and Education for Success in Science, Technology, Engineering and Mathematics \(RACE for Success in STEM\)-](#) Pontifical Catholic University of Puerto Rico
- [HSI Planning Project: Development of an Early Attrition Predictive Model for STEM Majors at a Major Hispanic-Serving Institution-](#) CUNY John Jay College of Criminal Justice
- [HSI Planning Project: Integrative Undergraduate STEM Education at Angelo State University \(I-USE ASU\)](#)Angelo State University
- [HSI Planning Project: Overcoming Barriers in the South Plains: Improving Retention for HIS Community College Students-](#) South Plains College
- [HSI Pilot Project: The MAESTRO Program – Minority Advancement in Engineering, Science, and Technology by Refactoring the Online Program-](#) CSUB Auxiliary for Sponsored Programs Administration
- [Collaborative Research: HSI Pilot Project: Research for Improved Student Experiences in STEM \(RISE in STEM\)-](#) Inter American University of Puerto Rico San Juan
- [HSI Pilot Project: College of Alameda Mathematics Engineering Science Achievement \(MESA\) Connect-](#) College of Alameda
- [HSI Pilot Project: Learning Assistant Transfer Pathway: Fostering STEM Connections-](#) Metropolitan State University of Denver
- [Improve Precalculus Success by Pairing a Precalculus Course with a Computer Science Course Centered on Select Precalculus Topics-](#) West Los Angeles College
- [HSI Pilot Project: Broadening Research Experiences for HSI STEM Diversity, Equity, and Inclusion \(BREDEI\)-](#) Texas A&M University-San Antonio
- [HSI Planning Project: Designing an Online and Integrative Interdisciplinary Data Science Community College Curriculum and Pathway-](#) Western New Mexico University

Track 2: Implementation and Evaluation Project (IEP)

- [Strengthening Student Motivation and Resilience through Research and Advising-](#) San Francisco State University
- [Supporting Active Learning in Introductory STEM Courses with Extended Reality-](#)Fresno Foundation;

- [Supporting Active Learning in Introductory STEM Courses with Extended Reality](#)-San Jose University Foundation
- [Supporting Active Learning in Introductory STEM Courses with Extended Reality](#)-Sonoma State University
- [Artificial Intelligence For All: A Framework for a College Certificate](#)- Miami Dade College
- [Collaborative Research: HSI Implementation and Evaluation Project: Commitment to Learning Instilled by Mastery-Based Undergraduate Program](#)- California State L A University Auxiliary Services Inc.
- [Supporting College Instructors in Improving College Algebra Teaching and Student Outcomes](#)- University of Texas at San Antonio
- [Promoting Successful Outcomes for Diverse Computer Science Students through Mentored Professional Experiences](#)- National-Louis University
- [Promoting Student Success through a Social, Academic, and Institutional Support System in Engineering Education](#)- University of Texas at El Paso
- [Preparing the Next Generation of Environmental Scientists through Research-based Coursework and Community Internships](#)- University of Puerto Rico-Rio Piedras
- [Establishing a Journey of Inclusion, Identity and Intersectionality through Guided Pathways to Enhance Latinx Success in Engineering and Computer Science](#)- University of North Texas
- [HSI Implementation and Evaluation: Bridging the Gap: Designing a Technology Learning Community Integrating Computational Thinking to Improve STEM Engagement Across Disciplines](#)- CUNY Borough of Manhattan Community College
- [Aspirar, An Integrated Program of Enhanced Advising and First-Year Experiences to Improve STEM Recruitment and Retention of Hispanic Students](#)- Yakima Valley Community College
- [HSI Implementation and Evaluation Project: Creating Connected College Research Communities](#)- Colorado State University-Pueblo
- [HSI Implementation and Evaluation Project: FUERTE: Fostering Undergraduate Education, Retention and Transfer Environments](#)- St Mary's University San Antonio
- [HSI Implementation and Evaluation Project: Incorporating Research-Related Activities in Developmental Math to Increase A.S Graduates](#)- San Jacinto College District
- [HSI Implementation & Evaluation Project: Alverno College STEM Community Impact Program \(SCIP\)](#)- Alverno College
- [Creating HSI Opportunities for Research and Undergraduate Support](#)- West Hills Community College
- [Closing STEM student academic performance equity gaps through student research exposure and faculty professional development in pedagogy and curricular innovation](#)- Riverside Community College District/Riverside City College
- [Creating Pathways to Increase Retention and Transfer Rates of STEM Majors at Two Los Angeles-Based Hispanic Serving Institutions](#)- Los Angeles Valley College
- [HSI Implementation and Evaluation Project: Advancing the Reach and Scope of Supplemental Instruction](#)- North Park University
- [HSI Implementation and Evaluation Project: Western MA Engineering Pathways Program](#)- Holyoke Community College

Track 3: Institutional Transformation (ITP)

- [Achieving Equitable Persistence in STEM with a Data-informed Student-centered Transformation of the First-year College Experience](#)- CUNY Hunter College
- [Institutional Transformation through Large-Scale Implementation of Departmental Action Teams](#)- University of Illinois at Chicago
- [A Knowledge-Based Framework for Creating and Sustaining Transformational Change for Latinx Student Success in STEM](#)- University of Texas at El Paso
- [STEM by Design: Increasing the Competitiveness of the Nation's Technical Workforce through Institutional Change Using Human-Centered Design](#)- Mount Mary University, Inc.
- [Improving STEM Degree Completion with Professional Development to Support Inclusive and Equitable Classroom Practices](#)- University of California-Irvine
- [HSI Institutional Transformation Project: Unified Community of Support - Building Capacity for STEM Transfer Students' Success \(UCS-STSS\)](#)- Galveston College
- [HSI Institutional Transformation Project: Improving Undergraduate STEM Education Through Family-Centered Pedagogy](#)- The University of Texas Rio Grande Valley
- [HSI Institutional Transformation Project: Cal Poly Pomona INTentional Venture Engaging STEM Students \(CPP INVESTS\)](#)- Cal Poly Pomona Foundation, Inc.

Conference Grants

- [Collaborative Research: HSI Conference: Exploring the Realities of Contingent Latinx Faculty in STEM](#)- University of Florida
- [Collaborative Research: HSI Conference: Exploring the Realities of Contingent Latinx Faculty in STEM](#)- University Enterprises Corporation at CSU-San Bernadino
- [Conference: Measuring the Success of Institutional Efforts at Hispanic-Serving Institutions](#)- University of Arizona

DCL Supplemental Funding for Postdoctoral Researchers to Mitigate COVID-19 Impacts on Research Career Progression

- [Testing the Impact of Culturally Responsive Pedagogy and Streamline Transfer Support on STEM Success for Underrepresented Students](#)- CUNY Guttman Community College
- [Building Capacity: Undergraduate STEM Transitions, Experiences, and Mobility](#)- San Diego State University – San Diego State University
- [Building Capacity: Transforming STEM Undergraduate Education through Academic Literacy, Mentoring and Professional Development](#) – University of Texas San Antonio
- [RAPID: Building Research Capabilities of Academically Talented Undergraduate Students from Hispanic-Serving Institutions through Virtual Research Experiences](#) – University of Texas El Paso

Source: National Science Foundation