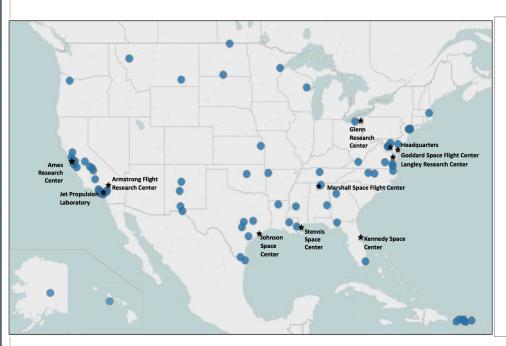


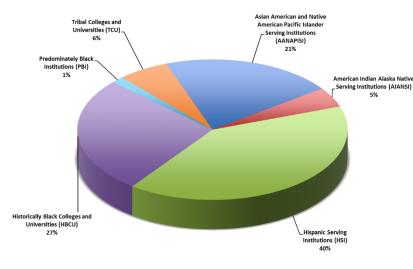
Broadening Participation in STEM Fields



FY2015 MUREP Awards by Location



MUREP FY2015 Investments by MSI Designation



**Note: Some dots may represent more than one Institution for Institutions located in the same city.

**Note: Some Institutions have dual MSI designations.



Educator Professional Development

NASA STEM Educator Professional Development Collaborative Cooperative Agreement with Texas State University



Key Goals



- Leverage NASA Innovation to:
 - Advance understanding of Earth and develop technologies to improve the quality of life on our home planet
 - Advance the nation's STEM education and workforce pipeline by working collaboratively with other agencies to engage students, teachers and faculty in NASA's missions and unique assets
 - **Improve STEM instruction** by preparing 100,000 excellent new K-12 STEM teachers by 2020 and supporting the existing STEM teacher workforce





NASA STEM Educator Professional Development **Collaborative** Cooperative Agreement with Texas State University







- Minority Teacher Education Network (Focused on faculty from participating MSIs)
 - Focus on culturally relevant STEM curriculum
 - Norfolk State University, North Carolina Central University, University of South Florida, Salish-Kootenai College, California State University, Northridge
- 2. Emerging Stars Network
 - Pipeline for MSI TEN
- Multimodal Educator Professional Development
 - Reached 9,356 Educators through face-to-face and online mediums







"Every visit, our EPDC Specialist comes with supplies, materials, games and methodologies for inspiring teachers and students. At the end of every presentation, it is the teachers who are sorry to see her go. As the administrator, I am THRILLED to see her coming, knowing that my team and I will grow. ... It is presentations such as these that allow us to take our students to the next level "

- School principal in California.

MUREP Educator Institutes (MEI)



• Summer Institutes – Planned and Completed

- 343 Students
- 66 Faculty
- Total 409 Participants
- MSI Compliment
 - *24 HSI, 19 HBCU, 12 AANAPISI, 3 AIANSI, 3 PBI, 2 TCU









* Some schools have multiple MSI Designation

I'M NASA BOUND

#NASAMEI2016



STEM Engagement

MUREP STEM Engagement (MSE)



University of New Mexico



• 12 teams for the Physical Competition and 22 teams for the Virtual Competition.







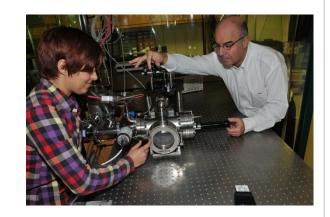


Institutional Engagement

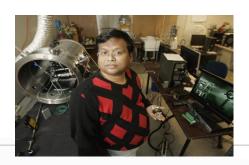
MUREP Institutional Research Opportunity (MIRO)

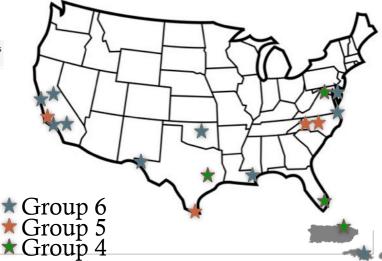






Group 6 Location and MSI Designation







NASA Internships, Fellowships, and Scholarship

Interns at Work









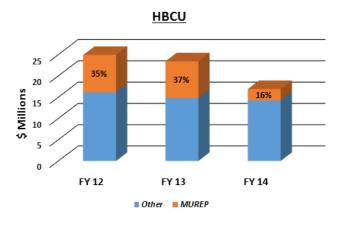


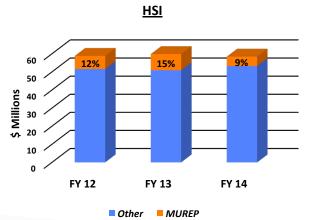
Changing the Landscape

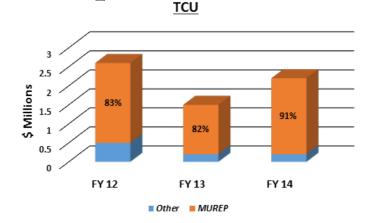
Where does it count?

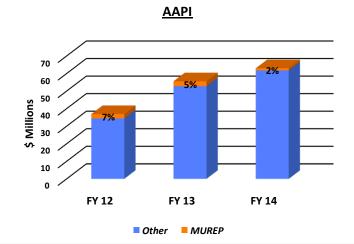


MUREP Data on the White House Report









MUREP Strategic Focuses



MSI Goals

- Predominantly Black Institutions FY14 0%
 - Get on the board
- HBCU Reach 36% contribution
- TCU Maintain 85% to 90% contribution
- Develop strategies to reach HSIs and AANAPISIs
 - JPL Lead

MUREP Report Card Sample



MUREP Education Performance Assessment

ED 14 – 1 : Higher Education Students

Performance Goal	Annual Performance Indicator
2.4.1: Assure that students participating in NASA higher education projects are representative of the diversity of the Nation.	ED-14-1: Provide significant, direct student awards in higher education to (1) students across all institutional categories and levels (as defined by the U.S. Department of Education); (2) racially or ethnically underrepresented students, (3) women, and (4) persons with disabilities at percentages that meet or exceed the national percentages for these populations, as determined by the most recent, publicly available data from the U.S. Department of Education's National Center for Education Statistics for a minimum of two of the four categories.

OEPM DATA POINT

Total #of NASA student participants that received significant direct awards.

Activity Nam	Faculty Projects	FE	HE	In-Service Teacher Projects	Internship	Other	Pre-Service Teacher Projects	Research Infrastructure	Scholarship	Travel Award	Tota
Reduced Gravity Student Flight Opportunities	0	4	151	0	1	0	0	3	4	0	163
Harriett G. Jenkins Graduate Fellowship Program (JGFP)	0	30	0	0	0	0	0	1	0	0	31
NASA Harriett G. Jenkins Pre- Doctoral Program (JPFP)	0	33	0	0	0	0	0	1	0	0	34
NASA Science and Technology Institute for Minority Institutions (NSTI)	0	0	58	0	44	0	1	1	0	0	104
Tribal Colleges & Universities Project (TCUP)	0	0	28	0	0	0	0	0	0	0	28
University Research Centers (URC)	22	139	6	0	37	15	0	27	80	23	349
Motivating Undergraduates in Science and Technology (MUST)	0	2	3	0	1	0	0	0	1	0	7
Minorities in Science and Engineering	0	0	0	0	14	0	0	0	1	8	23
MUREP Scholarship Program	0	0	0	0	1	0	0	0	9	1	11
	22	208	246	0	98	15	1	33	95	32	750

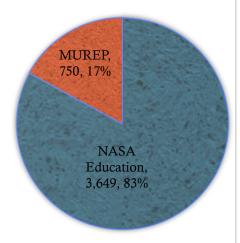


Figure 1. MUREP's contribution to NASA Education total for Significant Awards in Higher education.



Minority University Research and Education Project

National Aeronal Space Administration of the National Aeronal Aeronal

National Aeronautics and Space Administration

