



NASA Ames Research Center's Collaborations with Minority Institutions

Brenda Collins, Higher Education Program Manager, NASA
Ames Research Center
In Silicon Valley
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University Research Centers

Center for Bio-nanotechnology and Environmental Research –Texas Southern University, PI- Dr. Olfisayo Jejelowo

- › University of Houston
- › University of California Santa Cruz
- › Norfolk State University
- › Texas A&M University
- › Jackson State University
- › Stanford University

Center for Advance Nanoscale Materials II, University of Puerto Rico, Rio Piedra Campus-PI Dr. Carlos Cabrera

- › brings together thirteen researchers from three different campuses and four different departments to work on research projects relevant to NASA in collaboration with NASA Glenn Research Center (GRC), NASA Ames Research Center (ARC), and Jet Propulsion Laboratory (JPL), in areas that correspond primarily to the Exploration Systems Mission Directorate and secondarily to the Aeronautics Research Mission Directorate.



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Center for Human Factors in Advanced Aeronautics Technology, California State University, Long Beach, PI- Dr. Strybel

–The Center for Human Factors in Advanced Aeronautics Technologies (CHAAT) at CSULB will contribute to the evaluation and design of air traffic management (ATM) concepts and technologies necessary to achieve the goals of NextGen, and will advance and expand NextGen-relevant human factors training to students from underrepresented groups in technological and aeronautics fields.



Pre-Service Teacher Collaborations

- **Pre-Service Teacher STEM Institute, California State University, Fresno, PI- Dr. Steve Price**

- Two-week program designed to stimulate the interest and knowledge of prospective elementary and middle school teachers. The goal is to boost the teachers' confidence in developing new strategies for implementing an inquiry-based STEM Curriculum, leading to systemic change and innovation.

- › California State University, Monterey Bay

- › National Hispanic University

- › California State University, Los Angeles

- **Pre-Service Teacher Researcher Cluster Project, California State University, Fresno, PI-Dr. Steve Price**

- Eight-week program provides an environment of real world scientific inquiry to pre-service teachers and engage them in inquiry-based knowledge acquisition methods as practiced by scientists in a discovery process.



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Third-Party Awards for Collaborations

- **NASA Science and Technology Institute for Minority Institutions, United Negro College Fund Special Programs Corp., PI-Michael Hester**

- The NASA Science and Technology Institute for Minority Institutions (NSTI-MI) was established in 2006 to provide leading-edge research opportunities for faculty and students from MIs that complement NASA's research programs and make original contributions to NASA in astrobiology, biotechnology, information technology, emerging technologies, energy, environment research.

- › **Information and Emerging Technologies Cluster (UNITE)** conducts research that addresses pressing challenges in the areas of Supercomputing, Networking and Intelligent Systems. This Cluster also engages in nano-scale research to support Aerospace and Thermal Protection Systems as well human exploration of space. UNITE institutions are: Tuskegee University, Southern University, CSU Fullerton, Texas Southern, and San Francisco State University



Research Grants

- **California State University, Monterey Bay, \$9.9 million Cooperative Agreement (year 2 of 3)**
 - “Remote Sensing and Ecosystem Modeling: Research, Technology Development, and Applications for Earth System Science and Education”
- **California State University, Long Beach, \$3.0 million (year 3 of 3)**
 - Metrics for Operator Situation Awareness, Workload, and Performance In Automated Separation Assurance Systems In response to NRA #NNH06ZEA001N, NASA ARMD Research Opportunities in Aeronautics (ROA)
- **Tennessee State University, \$.6 million (year 4)**
 - The Minority Institute Research Sabbatical Program for the NASA Astrobiology Institute