

FY 2001 DoD HBCU/MI Infrastructure Support Program

Award Recipients

Institution	Proposal Title	Principal Investigator	Awarding Service	Type of Grant
Adams State College	Instrumentation for Recruitment, Retention, and Preparation of Chemistry Majors	R. Neil Rudolph	Army	Instrumentation
Alabama A&M University	Instrumentation for the Production and Enhancement of Surface Properties	Robert Zimmerman	Army	Instrumentation
Albany State University	Building Opportunities in Science and Engineering	Louise Wrensford	Air Force	Instrumentation
Alcorn State University	Enhancing Instrumental Capability in Organic, Biochemistry, and Student Research Labs	Robert E. Leard	Army	Instrumentation
Barry University	Instrumentation to Upgrade and Modernize Computer Based Laboratory	Fiona A. Redway	Air Force	Instrumentation
Baruch College of CUNY	Establishment of a UNIX-Based Computing Facility for Mathematics Department	Sherman Wong	Army	Instrumentation
Bronx Community College of CUNY	Equipping the DoD Undergraduate Mathematics and Computer Science Research and Teaching Laboratory at Bronx Community College	Anthony Weaver	Air Force	Instrumentation
California State Polytechnic University, Pomona	Visualization and Animation in Civil Engineering	Howard Turner	Air Force	Instrumentation
California State University, Long Beach	Development of Variable Temp. Scanning Laser Microscope for diagnosing Coated Conductors	Chuhee Known	Air Force	Research
California State University, Los Angeles	Multidisciplinary Analysis and Control of High Performance Air Vehicles	Majdedin Mirmirani	Air Force	Research
California State University, Los Angeles	Acquisition of a Fluorescence Microscope and Related Instruments to Set-up a Core Resource for Research and Teaching	Sonsoles de Lacalle	Air Force	Instrumentation
City College of CUNY	Acquisition of an Imaging Ellipsometer/Scanning Probe Microscope	Alexander Couzis	Army	Instrumentation
City College of CUNY	Investigation of optical limiting involving light matter interaction	Mary Potasek	Air Force	Research
City College of CUNY	Encapsulated Nanoscale Molecular Aggregates as enhanced Luminophores and Chemical Sensors	Daniel Akins	Army	Research
Clark Atlanta University	Development of Highly Sensitive Fluorescent Probes for arsenic Chemical	Xiu R. Bu	Army	Research
Clark Atlanta University	Novel Galvanic Corrosion Inhibitors: Synthesis, Characterization, Fabrication & Testing	Issifu Harruna	ONR	Research
Cochise College	Mathematics and Science Server Project	Lawrence Prevett	Army	Instrumentation
Contra Costa College	Multinuclear NMR Spectroscopy in the Lower Division Chemistry Curriculum	Leverett Smith	Army	Instrumentation
Delaware State University	Vector Multiresolution Inverse Scattering and Target Detection in Multifrequency Ground Penetrating Radar Imaging	Fengshan Liu	Army	Research
Delaware State University	Computer Classroom/Laboratory	Zhongyan Lin	Army	Instrumentation
Dillard University	NMR Spectrometer: A Tool for the Enhancement of Teaching and Research	R. Ahmed-Schofield	Army	Instrumentation
Dine' College	Instrumentation in Sophomore Level Science/Engineering at Dine' College	Steve Schultz	Air Force	Instrumentation
Elizabeth City State University	Coastal Ocean Observations: Correlation between AVHRR SST Data with the Presence of Sea Turtle	Linda Hayden	ONR	Research
Elizabeth City State University	DoD Computer Science Instrumentation Improvement at ECSU	Carolyn Mahoney	Army	Instrumentation

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Fayetteville State University	Modern Instrumentation for Teaching and Research Chemistry, Biology and Physics	I. Daniel Shin	Army	Instrumentation
Fisk University	Bulk Growth & Characterization of Quarternary I-II-VI Chalcopyritea	Arnold Burger	Air Force	Research
Fisk University	Upgrade Computer Facilities for Education and Research	Warren Collins	Air Force	Instrumentation
Florida A&M University	The Role of Various Components of Jet Fuel on Skin Absorption, Irritation and Neuropeptide Release	Mandip Sachdev	Air Force	Research
Florida A&M University	Texturing of Materials at High Temperature and High Fields	Hamid Garmestani	Army	Research
Florida A&M University	Photonics Laboratory at Florida A&M University	Reginald Perry	Air Force	Instrumentation
Florida International University	Reaction Ion Etcher for MEMS Microfabrication	William K. Jones	Air Force	Instrumentation
Fort Belknap College	Geographic Information Systems Enhancement Project	Annette Vander Ven	Air Force	Instrumentation
Grambling State University	Acquisition of High Sensitivity MPMS for Magnetic Thin Films and MEMS Research	J. P. Liu	Army	Instrumentation
Hampton University	High Resolution Laser Spectroscopy of Novel Photonic Materials	Uwe Hommerich	Air Force	Instrumentation
Hartnell College	Engineering/Physics Laboratory Equipment Upgrade Project	Jesse Cude	Air Force	Instrumentation
Howard University	External Photoemissive Detector for Sensing in the 8-14 Micron Wavelength Range	Clayton Bates, Jr.	Army	Research
Hunter College CUNY	Instrumentation for Structural Determination Using X-ray Scattering and Absorption	Marten denBoer	Army	Instrumentation
Jackson State University	Polycyclic Aromatic Hydrocarbons: A Study of Toxicity Mechanisms, Intermediates Identification and Biomediation Application	Huey-Min Huang	Army	Research
Jackson State University	Robotics Laboratory Project	Idehen Omoregie	ONR	Instrumentation
Johnson C. Smith University	Technology Infrastructure Upgrade - Installation of Electronic and Multi-Media Classrooms for Interactive Teaching and Research	Magdy Attia	Air Force	Instrumentation
Laredo Community College	Providing Resources and Opportunities in Science and Engineering	Nora Garza	Air Force	Instrumentation
Malcolm X College	Acquiring Needed Instruments to Improve Instruction in Physical Science for Minority Students	Boniface Ekpenyong	Air Force	Instrumentation
Miami-Dade Community College - InterAmerican Campus	Outfitting an Engineering Laboratory in a Minority Community College	Sergio Garcia	Army	Instrumentation
Morehouse College	Enhancement of Instruction through Technology	Robert Dixon	Air Force	Instrumentation
Morgan State University	Wireless Analysis and Synthesis Capability	Richard Dean	Army	Instrumentation
Morris Brown College	Integrating Atomic Absorption Spectrometry (AAS), High Performance Liquid Chromatography, and Ultraviolet Visible Spectrophotometry Into the Chemistry	Gloria Anderson	Army	Instrumentation
New Jersey City University	Hands-on Fourier Transform Infrared and Raman Spectroscopy throughout the Chemistry Curriculum	Kenneth Yamaguchi	Army	Instrumentation
Norfolk State University	A Center for Organic Photonic Materials Research	Sam Sun	Air Force	Research

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Norfolk State University	Instrumentation/Equipment for Materials Testing Laboratory	Ted A. Akinyanju	Air Force	Instrumentation
North Carolina A&T State University	Structural Performance of Affordable Composites for Stealthy Naval Ships	K. Shivakumar	ONR	Research
North Carolina Central University	Optical and Electron Beam Material Processing and Characterization	B. Vlahovic	Army	Research
Pontifical Catholic University of Puerto Rico	Enhancement Chemistry and Environmental Science Laboratory Curricula	Gabriel Infante	Army	Instrumentation
Prairie View A&M University	Multiwavelets and Multiresolution Analysis of NURBS Curves and Surfaces	Jian-AoLian	Army	Research
Regents Univ. of Calif.	Gyrotropic Photonic Crystals	Alexander Figotin	Air Force	Research
Rio Hondo College	The Acquisition and Development of Instrumentation in the Mathematics and Sciences Curriculum	Gisela Spieler-Persad	Air Force	Instrumentation
Sacramento City College	Enhancement of Science Curriculum Through Expanded Instrumentation	Alice Murillo	ONR	Instrumentation
Seward County Community College	Mathematics Instructional Laboratory	Todd L. Carter	Air Force	Instrumentation
Southern University and A&M College	Novel Cathodes and Cathodic Catalysts for Solid State Power Sources: SUBR-U.S. Army TACOM Collaborative Project	Rambabu Bobba	Army	Research
Southwest Texas Junior College	Mathematics/Science Enrichment Laboratory	Margaret Messinger	Army	Instrumentation
Stone Child College	Stone Child College Science Enhancement Project	Douglas L. Crebs	Army	Instrumentation
Tennessee State University	Stochastic Control Problems and Applications	S. Sathananthan	Army	Research
Tennessee State University	Biomedical Engineering Laboratory	M. Bodruzzaman	Air Force	Instrumentation
Texas A&M University-Corpus Christi	Instrumentation for a Computer Science and Engineering Technology Laboratory	Rafic Bachnak	Air Force	Instrumentation
Trinity College	Closing the Gap: Strengthening Mathematics and Science Education Through Technology	Brunella Bowditch	ONR	Instrumentation
Turabo University	Laboratory Equipment for Machinery Condition Monitoring and Diagnostics	V. Sundararajan	Air Force	Instrumentation
Tuskegee University	Innovative Materials and Processes for Next Generation Weapons Systems	Derrick Dean	Army	Research
Tuskegee University	Acquisition of a High Speed Imaging System for Dynamic Characterization of Advanced Materials	Anwarul Haque	ONR	Instrumentation
University of Arkansas at Pine Bluff	Incorporation of GC-MS and AA Instrumentation into Undergraduate Research and Curriculum	Vincent Litman	Air Force	Instrumentation
University of Guam	Development of Molecular Biology Capability for the Teaching Laboratory at the College of Agriculture and Life Sciences	George C. Wall	Air Force	Instrumentation
University of Hawaii at Manoa	Acquisition of a Nuclear Magnetic Resonance Spectrometer	Thomas Hemscheidt	Air Force	Instrumentation
University of Puerto Rico at Arecibo	Acquisition of Instrumentation for the Infrastructure Enhancement of the Environmental and Industrial Processes Programs	Maiella Ramos	ONR	Instrumentation
University of Puerto Rico-Mayaguez	Organic Glasses and Crystals for Miniature Electronic Optic Devices: Synthesis, Characterization, and Applications	Alexander Leyderman	Air Force	Research

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University of Texas, El Paso	On the Development of a Newton Interior-Point Trust-Region Method for Large-Scale Nonlinear Programs	Maria C. Villalobos	Army	Research
University of the Virgin Islands	Observatory Instrumentation Enhancement for Minority Student Science and Research	Donald Drost	Army	Instrumentation
Victoria College	Request for Funding to Strengthen the Victoria College Science Program	William Coons	Army	Instrumentation
Virginia State University	Center for Interactive Micromagnetics	Carey Stronach	Air Force	Research
Wilberforce University	Physics Enhancement Program	Delbert Buffinger	Army	Instrumentation
Wiley College	Improving Research Capacity Infrastructure via Instrumentation for Sciences and Mathematics	John G. Stuart	Army	Instrumentation
Xavier University of Louisiana	Furthering Research at Xavier by Enhancing Micro-Analysis Capabilities	Elia Eschenazi	Army	Instrumentation
York College of CUNY	Physiology Software, Peripheral Devices and Computers for New Upper Division Course in Animal Physiology	Margaret MacNeil	Air Force	Instrumentation