FY08 DoD Program for HBCU/MI
AWARD RECIPIENTS

Institution	State	Principal Investigator	Proposal Title	Selecting Agency
Albany State University	GA	Seong Seo	Portable Sensor for Chemical Nerve Agents and Organophosphorus Compounds	ARO
California State University-Los Angeles	CA	Frank Gomez	Separation and Detection of Toxic Chemical Warfare Agents Using Surface Plasmon Resonance and Microfluidic Devices	ARO
Clark Atlanta University	GA	Alfred Msezane	Simulation Of Quantum Phenomena In Nanoscale Biosensors -- Bio-Inspired Sciences	AFOSR
CUNY-City College	NY	Sergey Vitkalov	Transport Properties of Two-Dimensional Electrons in Oxide Heterostructures.	ARO
CUNY-City College	NY	Charles Maldarelli	Hypersonic Transition Along Curved Surfaces in the Presence of Vortices and Their Control by Surface Passivation Using Bio-inspired Microtextures	AFOSR
Delaware State University	DE	Fengshan Liu	Biometric Signatures for Ultra-Wideband Radar	ARO
Dillard University	LA	Abdalla Darwish	Laser Ablation of Hard Materials	AFOSR
Fisk University	TN	Richard Mu	Development of Multifunctional ZnO Nanostructures for Efficient Energy and Power Management	ARO
Florida International University	FL	Cesar Levy	Investigation of Multi-functional Ferroelectric Nanorod/carbon Nanotube/polymer Composites and Shape Memory Alloy Treatment for Vibration Control of Fire Control System to Improve Firing Accuracy	ARO
Florida International University	FL	Stavros Georgakopoulos	Wireless Integrated Networks with Autonomous Reconfigurable Sensors (WIN-WARS);Research Areas from US ARO BAA W911NF-07-R-0003-02: Section 5.1 (Mobile, Wireless,...) & Section 4.5 (Electromagnetics..)	ARO
Howard University	DC	Dharmaraj Raghavan	Development and Testing of Nanocomposites for Environmentally Friendly Power Sources with Aerospace Applications	AFOSR
Inter American University of Puerto Rico-Bayamon	PR	Brett Isham	Full-Wave Radio Characterization of Ionospheric Modification by HAARP and Arecibo	AFOSR
Inter American University of Puerto Rico-Bayamon	PR	Edgardo Oliveros	Studying the Transition Region of the Middle Latitude Ionosphere Using Radio Techniques	AFOSR
Jackson State University	MS	Kamal Ali	A Hills System for the Simulation of MAV FLIGHT	ARO
Johnson C. Smith University	NC	Ying Bai	Develop a Performance-Based Laser Tracking System for Accurate Target Tracking and Localization	ARO
Lincoln University	PA	Derrick Swinton	An Investigation Into the Adsorption-Induced Conformational Dynamics of Amyloidogenic Proteins at Chemical Interfaces Using Time-Resolved Spectroscopy	ARO
New Mexico State University	NM	Eric Butcher	An Integrated Framework for Order Reduction, Robust Control and RealTime Dynamic Substructuring of Nonlinear Multi-Scale Hybrid Aerospace Systems	AFOSR
New Mexico State University	NM	Vladimir Ostashev	Environmental Sciences/Atmospheric Sciences: Acoustic Tomography of the Atmospheric Surface Layer	ARO
Norfolk State University	VA	Aswini Pradhan	Research and Education in Development of Multifunctional Sensors and MEMS Devices	ARO
North Carolina A&T State University	NC	Christopher Doss	A Framework for the Design and Implementation of Software Defined Radios	ARO

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Paine College	GA	William Lawless	Conservation of Information for Intelligent Systems: A New Approach to Systems of Human-machine-robotic Agents Operating Under Uncertainty (ARO/ARL 4.3 Intelligent Systems)	ARO
Polytechnic University of Puerto Rico	PR	Alfredo Cruz	Enhancing Research in Networking & Systems Security, and Forensics in Puerto Rico	ARO
Prairie View A&M University	TX	Lijun Qian	Secure and Efficient Collaboration in Heterogeneous Wireless Networks	AFOSR
Savannah State College	GA	Babajide Familoni	Remote Identification and Classification of Targets by Terahertz Radar	AFOSR
Southern University and A&M College	LA	Guang-Lin Zhao	Nanostructured Thermoelectric Materials for Thermal Energy Management	AFOSR
Southern University and A&M College	LA	Hak-Chul Shin	Development of Sustainable Fortified CMU Walls Under Explosive Loading	ARO
Tennessee State University	TN	Mohan Malkani	Heterogenous VM Replication: A New Approach to Intrusion, Detection, Active Response, and Recovery in Data Centers	AFOSR
Tuskegee University	AL	Kyung Kwon	Catalytic Deoxygenation of Liquid Biomass for Hydrocarbon Fuels	AFOSR
University of Maryland Eastern Shore	MD	Payam Matin	Multi-Scale Computational Model for Material Failure of Severely-loaded Military Structures	ARO
University of Puerto Rico-Mayaguez	PR	David Suleiman	Supercritical CO2-Assisted Fluoroelastomeric Nanostructured Membranes for Fuel Cells and Sensor Applications	AFOSR
University of Puerto Rico-Mayaguez	PR	Samuel Hernandez	Laser Enhanced Detection of Weapons of Mass Destruction	ARO
University of Texas-El Paso	TX	Ricardo von Borries	Compressive Sensing for Tomographic Imaging of Improved Explosive Devices	ARO
University of Texas-San Antonio	TX	Chonglin Chen	Interface Engineered Metamaterials and Anomalous Physical Phenomena	ARO
University of Texas-Brownsville/Texas Southmost College	TX	Mario Diaz	Adaptive Laser Control of High-reflectivity Mirrors with Dieletric Coatings and Investigation of Interaction of Light in Modern Micro-mechanical Devices	AFOSR
University of Texas-Pan American	TX	Alley Butler	Evaluating the Effectiveness of Immersive Interfaces for Combat Training	ARO
University of Texas-Pan American	TX	Dorina Chipara	Bio-Inspired Self-Healing of Polymers and Composites	ARO
Winston-Salem State University	NC	Johanna Kelley	The Role of Adaptor Protein Complex 3 in the Morphological Transformation of Leishmania	ARO