

FLORIDA INTERNATIONAL UNIVERSITY DIVISION OF RESEARCH
OFFICE OF SPONSORED RESEARCH
APRIL AWARDS OVERVIEW

Florida International University researchers were awarded **\$4,050,362** in April 2009. Listed below is a summary of awards received for \$20,000 or more during the month of April.

PI: Malek Adjouadi Electrical and Computer Engineering AWARDING SPONSOR: National Science Foundation TITLE: <i>Subproject: CREST: Center for Innovative Information Systems Engineering</i>	AWARD: \$ 330,000
PI: Armando Barreto Electrical and Computer Engineering AWARDING SPONSOR: National Science Foundation TITLE: <i>Subproject: CREST: Center for Innovative Information Systems Engineering</i>	AWARD: \$ 330,000
PI: Fenfei Leng Chemistry AWARDING SPONSOR: National Institutes of Health TITLE: <i>Mechanisms of Transcription-Coupled DNA Supercoiling</i>	AWARD: \$ 225,262
PI: Barry, Rosen Medicine Dean's Office AWARDING SPONSOR: National Institute of General Medical Sciences TITLE: <i>Mechanisms of Arsenical Transport</i>	AWARD: \$ 221,908
PI: Evangelos Christidis School of Computing and Information Sciences AWARDING SPONSOR: Department of Homeland Security TITLE: <i>Information Delivery and Knowledge Discovery for Hurricane Disaster Management</i>	AWARD: \$ 199,999
PI: Rita Mukhopadhyay Medicine Dean's Office AWARDING SPONSOR: National Institute of Allergy and Infectious Diseases TITLE: <i>Metalloid Transport and Drug Resistance Leishmania</i>	AWARD: \$ 194,938
PI: Michael Ross Southeast Environmental Research Center AWARDING SPONSOR: United States Army Corp of Engineers TITLE: <i>Cape Sable Seaside Sparrow Monitoring and Assessment Plan 2008-2012</i>	AWARD: \$ 192,162

PI: James Heffernan
Southeast Environmental Research Center
AWARDING SPONSOR: South Florida Water Management District
TITLE: *The Monitoring and Assessment Plan (MAP) Greater Everglades Wetlands Module-Landscape Pattern-Ridge, Slough, and Tree Island Mosaics* **AWARD:** \$ 191,355

PI: Kathryn Anderson
School of Nursing
AWARDING SPONSOR: National Center on Minority Health and Health Disparities
TITLE: *Training in Chronic Illness Research in Florida and Europe* **AWARD:** \$ 171,560

PI: Malek Adjouadi
Electrical and Computer Engineering
AWARDING SPONSOR: University of Texas at El Paso
TITLE: *The Computing Alliance of Hispanic Serving Institutions* **AWARD:** \$ 162,303

PI: Lorraine Bahrack
Psychology
AWARDING SPONSOR: Autism Speaks
TITLE: *Attention to Social and Nonsocial Events in Children with Autism* **AWARD:** \$ 131,823

PI: Wendy Silverman
Psychology
AWARDING SPONSOR: National Institute of Mental Health
TITLE: *Psychosocial Mediation Trials and Minority Trainees* **AWARD:** \$ 120,045

PI: Arvind Agarwal
Mechanical and Materials Engineering
AWARDING SPONSOR: Air Force Office of Scientific Research
TITLE: *Multi-Scale Microstructure and Mechanical Properties of High Carbon Eutectic Tantalum Carbide Reinforced with Carbon Nanotubes* **AWARD:** \$ 118,113

PI: Margaret Maisel
Clinical Programs
AWARDING SPONSOR: Florida Bar Foundation
TITLE: *Children's Education Advocacy Clinic* **AWARD:** \$ 113,300

PI: David Chatfield
Chemistry
AWARDING SPONSOR: National Institute of General Medical Sciences
TITLE: *Chloroperoxidase Catalytic Mechanisms* **AWARD:** \$ 105,000

PI: Mercedes Ponce
College of Continuing and Professional Studies
AWARDING SPONSOR: The Bernard Osher Foundation
TITLE: *Osher Lifelong Learning Institute* **AWARD:** \$ 100,000

PI: Fabian Cevallos Civil and Environmental Engineering AWARDING SPONSOR: Miami-Dade County Transit Authority TITLE: <i>Technical Assistance for Miami-Dade Transit</i>	AWARD: \$ 95,000
PI: Julian Edward Mathematics AWARDING SPONSOR: National Science Foundation TITLE: <i>Subproject: Get Educators in Mathematics and Science (GEMS)</i>	AWARD: \$ 75,400
PI: Malek Adjouadi Biomedical Engineering AWARDING SPONSOR: University of Texas El Paso TITLE: <i>Subproject: The Computing Alliance of Hispanic Serving Institutions</i>	AWARD: \$ 69,000
PI: James Fourqurean Southeast Environmental Research Center AWARDING SPONSOR: National Park Service TITLE: <i>The South Florida Caribbean Inventory and Monitoring Network Undergraduate Internship and Training Program</i>	AWARD: \$ 59,180
PI: George Dulikravich Mechanical and Materials Engineering AWARDING SPONSOR: Army Research Office TITLE: <i>Multi-Objective Optimization of Bulk Metallic Glasses</i>	AWARD: \$ 57,878
PI: James Fourqurean Biological Sciences AWARDING SPONSOR: National Institute of environmental Health Sciences TITLE: <i>Subproject: Advance Research Cooperation in Environmental Health (ARCH) – Pilot I</i>	AWARD: \$ 48,646
PI: W. Kinzy Jones Mechanical and Materials Engineering AWARDING SPONSOR: Northrop Grumman Corporation TITLE: <i>Subproject: Northrop Grumman Corporation - CME</i>	AWARD: \$ 47,267
PI: Jennifer Rehire Southeast Environmental Research Center AWARDING SPONSOR: United States Geological Survey TITLE: <i>Spatiotemporal Dynamics in the Fish Community of Emotional Mangrove Creeks in Everglades National Park</i>	AWARD: \$ 41,737
PI: Bruce Nissan Center for Labor Research and Studies AWARDING SPONSOR: Unitarian Universalist Veatch Program at Shelter Rock TITLE: <i>Research on Issue of Social and Economic Policy</i>	AWARD: \$ 40,000

<p>PI: Hong Liu Environmental Studies AWARDING SPONSOR: Fairchild Tropical Botanic Garden TITLE: <i>Population Dynamics, Breeding System and Pollination of Geodorum Eulophiodes, a Narrowly Endemic and Rare Orchid in Southeastern China</i></p>	<p>AWARD: \$ 39,417</p>
<p>PI: Bradford Clement Earth Sciences AWARDING SPONSOR: United States Geological Survey TITLE: <i>Laboratory and Post-doctoral Support for core and Seismic Reflection Analyses and Magnetostratigraphy</i></p>	<p>AWARD: \$ 34,684</p>
<p>PI: Richard Burton Applied Research Center AWARDING SPONSOR: Science Applications International Corporation TITLE: <i>SAIC Support to KSC Interns Houston</i></p>	<p>AWARD: \$ 33,221</p>
<p>PI: Shahid Hamid International Hurricane Research Center AWARDING SPONSOR: State board of Administration of Florida TITLE: <i>Florida Catastrophe Fund Hurricane Loss</i></p>	<p>AWARD: \$ 32,700</p>
<p>PI: Michelle Mason Law Dean's Office AWARDING SPONSOR: Florida Bar Foundation TITLE: <i>Public Service Fellows Program</i></p>	<p>AWARD: \$ 32,000</p>
<p>PI: Laurel Collins Earth Sciences AWARDING SPONSOR: National Science Foundation TITLE: <i>Subproject: Legacy Database of the Panama Paleontology Project</i></p>	<p>AWARD: \$ 31,665</p>
<p>PI: Malek Adjouadi Electrical and Computer Engineering AWARDING SPONSOR: FIU Foundation TITLE: <i>The Ware Foundation Research Endowment</i></p>	<p>AWARD: \$ 30,000</p>
<p>PI: Mario De La Rosa Center for Research on US Latino AIDS/HIV/Drug Abuse AWARDING SPONSOR: National Institutes of Health TITLE: <i>Living Positive: Life in Community among Puerto Rican Men Living With HIV/AIDS</i></p>	<p>AWARD: \$ 29,209</p>

<p>PI: Rene Herrera Minority Biomedical Research Support Program AWARDING SPONSOR: National Institutes of Health TITLE: <i>Tissue Specific and Development Expression of snRNA Variants in the Silk Moth</i></p>	<p>AWARD: \$ 28,000</p>
<p>PI: Kathleen Rein Chemistry AWARDING SPONSOR: National Institute of Environmental Health Sciences TITLE: <i>Subproject: Advance Research Cooperation in Environmental Health (ARCH) – Pilot V</i></p>	<p>AWARD: \$ 26,880</p>
<p>PI: Naphtali D. Rishe School of Computing and Information Sciences AWARDING SPONSOR: National Science Foundation TITLE: <i>REU Supplement to I/UCRC: Center for Advanced Knowledge Enablement</i></p>	<p>AWARD: \$ 24,000</p>
<p>PI: Gail Clement University Libraries AWARDING SPONSOR: City of Coral Gables TITLE: <i>Digitization of Historic Photographs for Coral Gables Memory Collection</i></p>	<p>AWARD: \$ 24,000</p>
<p>PI: Shaoming Cheng Department of Public Administration AWARDING SPONSOR: West Virginia University TITLE: <i>Performance Measurement and Asset Mapping of Regional Innovation Systems in the United States</i></p>	<p>AWARD: \$ 23,957</p>
<p>PI: Craig Layman Biological Sciences AWARDING SPONSOR: National Science Foundation TITLE: <i>Subproject: CAREER: Assessing Effect of Ecosystem Fragmentation Using Novel Metrics of Trophic Structure as Part of a Broad Educational Outreach Program</i></p>	<p>AWARD: \$ 22,156</p>
<p>PI: Steven Oberbauer Biological Sciences AWARDING SPONSOR: San Diego State University TITLE: <i>Biocomplexity Associated with the Response of Arctic Tundra Carbon Balance to Warming and Drying Across Multiple Spatial and Temporal Scales</i></p>	<p>AWARD: \$ 22,000</p>
<p>PI: Fenfei Leng Chemistry AWARDING SPONSOR: National Institutes of Health TITLE: <i>Mechanisms of Transcription-Coupled DNA Supercoiling</i></p>	<p>AWARD: \$ 21,788</p>

PI: Chenzhong Li

Biomedical Engineering

AWARDING SPONSOR: Everglades Foundation

TITLE: *In-Field Portable Sensing Monitor for Highly Sensitive Detection of Phosphorous and Heavy Metals in Everglades Water Systems*

AWARD: \$ 20,000