Florida International University researchers were awarded $11,535,201 in May 2012. Listed below is a summary of awards received for the month of May.

**PI: Malek Adjouadi**  
**ELEC AND COMPUTER ENG**  
**AWARDING SPONSOR:** University of Texas at El Paso  
**TITLE:** The Computing Alliance of Hispanic Serving Institutions  
**AWARD:** $6,400

**PI: Arvind Agarwal**  
**MECHANICAL AND MAT ENGINEERING**  
**AWARDING SPONSOR:** U.S. Air Force  
**TITLE:** Graphene Nano Platelet Reinforced Tantalum Carbide for Improved Strength and Toughness  
**AWARD:** $110,281

**PI: Hesham A Ali**  
**CIVIL AND ENVIRON ENGINEERING**  
**AWARDING SPONSOR:** Florida Department of Transportation  
**TITLE:** Long-Term Aging of Recycled Binders  
**AWARD:** $223,600

**PI: Atorod Azizinamini**  
**CIVIL AND ENVIRON ENGINEERING**  
**AWARDING SPONSOR:** Florida Department of Transportation  
**TITLE:** Development of Quality Assurance and Quality Control System for Post Tensioned Segmental Bridges in Florida: Case of Ringling Bridge  
**AWARD:** $297,564

**PI: Atorod Azizinamini**  
**CIVIL AND ENVIRON ENGINEERING**  
**AWARDING SPONSOR:** Florida Department of Transportation  
**TITLE:** Phase and Widening Construction of Steel Bridges  
**AWARD:** $106,808

**PI: Lorraine Bahrick**  
**PSYCHOLOGY**  
**AWARDING SPONSOR:** National Institutes of Health  
**TITLE:** Intersensory Perception of Social Events: Typical and Atypical Development  
**AWARD:** $134,355

**PI: Marianna Baum**  
**DIETETICS AND NUTRITION**  
**AWARDING SPONSOR:** Alcohol Abuse and Alcoholism  
**TITLE:** Alcohol & Antiretrovirals in HIV Infection, Oxidative Stress and Liver Disease  
**AWARD:** $444,941
PI: Mehmet E Bayraktar
**Construction Management**
**Awarding Sponsor:** Florida Department of Transportation
**Title:** Flume Model
**Award:** $49,998

PI: Mehmet E Bayraktar
**Construction Management**
**Awarding Sponsor:** Florida Department of Transportation
**Title:** Opportunities on the State Highway System to Generate Re
**Award:** $117,139

PI: Joseph Boyer
**Southeast Env Research Ctr**
**Awarding Sponsor:** Government of Bermuda Conservation Svcs
**Title:** Water Quality Monitoring Program for Bermuda’s Coastal Resources
**Award:** $25,000

PI: David Richard Brown
**Com Humanities Hlth and Soc**
**Awarding Sponsor:** Health Foundation of South Florida
**Title:** NeighborhoodHELP Medical Home
**Award:** $65,000

PI: Robert Joseph Burgman
**Earth and Environment**
**Awarding Sponsor:** University of Miami
**Title:** An Investigation into feedbacks between low-level cloud, atmospheric circulation and temperature on decadal timescales and in anthropogenic climate
**Award:** $30,846

PI: Robert Joseph Burgman
**Earth and Environment**
**Awarding Sponsor:** University of Miami
**Title:** Decadal Prediction over North America vs Pacific Processes
**Award:** $56,294

PI: Deron E Burkepile
**Biology**
**Awarding Sponsor:** National Science Foundation
**Title:** Cascading Interactions of Herbivore Loss and Nutrient Enrichment on Coral Reef Macroalgae, Corals and Microbial Dynamic
**Award:** $1,960

PI: Yong Cai
**Arc Applied Research Center**
**Awarding Sponsor:** Office of Environmental Management
**Title:** Florida International University's Research Support to the Department of Energy's Office of Environmental Management
**Award:** $41,029
PI: Erika K Coles
CENTER FOR CHILDREN AND FAMILY
AWARDING SPONSOR: Children’s Trust
TITLE: A Summer Program for Elementary Aged Children at Risk for Serious Behavior Problems
AWARD: $ 150,000

PI: Mario R De La Rosa
CRUSADA
AWARDING SPONSOR: National Institutes of Health
TITLE: Center for Substance Use and AIDS Research on Latinos in the United States
AWARD: $ 1,184,597

PI: Maria Donoso
EARTH AND ENVIRONMENT
AWARDING SPONSOR: US Agency for International Development
TITLE: Tanzania Leadership Initiative
AWARD: $ 12,919

PI: Maria Donoso
EARTH AND ENVIRONMENT
AWARDING SPONSOR: US Agency for International Development
TITLE: Tanzania Leadership Initiative
AWARD: $ 11,919

PI: Kenneth G Furton
INT FORENSIC RSCH INSTITUTE
AWARDING SPONSOR: Navy Systems Management Agency
TITLE: Evaluation of the Scent Collection System for Use in Canine Training
AWARD: $ 411,030

PI: Kenneth G Furton
INT FORENSIC RSCH INSTITUTE
AWARDING SPONSOR: Colgate-Palmolive Company
TITLE: Determining the Underarm Malodor Profile for Different Target Populations
AWARD: $ 200,000

PI: Evelyn E Gaiser
SOUTHEAST ENV RESEARCH CTR
AWARDING SPONSOR: National Science Foundation
TITLE: FCE LTER II: Coastal oligotrophic ecosystems research
AWARD: $ 40,000

PI: Cheng-Tin Gan
CIVIL AND ENVIRON ENGINEERING
AWARDING SPONSOR: Florida Department of Transportation
TITLE: Development of Florida Transit Information System (FTIS) 2013
AWARD: $ 38,436

PI: Cheng-Tin Gan
CIVIL AND ENVIRON ENGINEERING
AWARDING SPONSOR: Florida Department of Transportation
TITLE: A Comprehensive Study to Reduce Pedestrian Crashes in Florida
AWARD: $ 150,000
PI: Cheng-Tin Gan  
**CIVIL AND ENVIRON ENGINEERING**  
**AWARDING SPONSOR:** Florida Department of Transportation  
**TITLE:** Synthesis of the Advance in and Application of Fractal Characteristics of Traffic Flow  
**AWARD:** $40,000

PI: Paulo Andrade Graziano  
**CENTER FOR CHILDREN AND FAM**  
**AWARDING SPONSOR:** Institute of Education Sciences  
**TITLE:** Development of a Kindergarten Transitional Program for Preschool Students Identified as Being at High-Risk for Behavioral Disorders  
**AWARD:** $331,270

PI: Paulo Andrade Graziano  
**CENTER FOR CHILDREN AND FAM**  
**AWARDING SPONSOR:** Children’s Trust  
**TITLE:** Promoting Successful Transition to Kindergarten: A Summary Readiness Program for Preschoolers Identified as Being at High-Risk for Behavioral Disorders  
**AWARD:** $100,000

PI: Jeffrey A Groom  
**NURSING UNDERGRADUATE**  
**AWARDING SPONSOR:** Miami Beach Anesthesiology Associates  
**TITLE:** Miami Beach Anesthesiology Associates Faculty Support Agreement  
**AWARD:** $223,759

PI: Jeffrey A Groom  
**NURSING UNDERGRADUATE**  
**AWARDING SPONSOR:** Sheridan HealthCorp Inc.  
**TITLE:** Sheridan HealthCorp Faculty Support Agreement  
**AWARD:** $74,755

PI: Lei Guo  
**PHYSICS**  
**AWARDING SPONSOR:** Jefferson Lab  
**TITLE:** Hadron Spectroscopy at Jefferson Lab  
**AWARD:** $31,662

PI: Mohammed Hadi  
**CIVIL AND ENVIRON ENGINEERING**  
**AWARDING SPONSOR:** Florida Department of Transportation  
**TITLE:** Application of Dynamic Traffic  
**AWARD:** $281,547

PI: Shahid Hamid  
**INTERNATIONAL HURRICANE CENTER**  
**AWARDING SPONSOR:** Citizens Property Insurance Corporation  
**TITLE:** Agreement among Citizens Property Insurance Corporation, The Florida International University Research Foundation, and The Florida International University Board of Trustees on behalf of Florida International University (re: Project: Hurricane Loss Estima  
**AWARD:** $18,007
PI: Michael R Heithaus  
**BIOLOGY**  
**AWARDING SPONSOR:** National Science Foundation  
**TITLE:** Collaborative Research: Does Anti-predator Behavior Modify Indirect Effects of Top Predators  
**AWARD:** $35,000

PI: Michael R Heithaus  
**SOUTHEAST ENV RESEARCH CTR**  
**AWARDING SPONSOR:** PADI Foundation  
**TITLE:** Niche width expansion of juvenile bull sharks in a coastal nursery  
**AWARD:** $5,295

PI: Miroslav T Iotov  
**MATH AND STATISTICAL SCIENCES**  
**AWARDING SPONSOR:** Mathematical Association of America  
**TITLE:** Graphs, Lie Algebras & Differential Geometry  
**AWARD:** $27,500

PI: Sundararaj Sitharama Iyengar  
**COMPUTER INFO SCIENCES**  
**AWARDING SPONSOR:** National Science Foundation  
**TITLE:** NeTS: Medium: Collaborative Research: Building an Intelligent, Uncertainty-Resilient Detection and Tracking Sensor Network  
**AWARD:** $89,999

PI: Haiyan Jiang  
**EARTH AND ENVIRONMENT**  
**AWARDING SPONSOR:** National Oceanic and Atmospheric Admin  
**TITLE:** Enhancement for SHIPS Rapid Intensification (RI) Index Using Satellite 37 GHz Microwave Ring Pattern  
**AWARD:** $70,210

PI: Xia Jin  
**CIVIL AND ENVIRON ENGINEERING**  
**AWARDING SPONSOR:** AECOM Technical Services  
**TITLE:** Ramp Metering Feasibility Study on I-95 for South Florida  
**AWARD:** $53,138

PI: Sakhrat Khizroev  
**ELEC AND COMPUTER ENG**  
**AWARDING SPONSOR:** University of California  
**TITLE:** GOALI: Three-dimensional Magnetic Recording At Areal Densities Above 1 Terabit-per-square-inch  
**AWARD:** $121,619

PI: Leonel E Lagos  
**ARC APPLIED RESEARCH CENTER**  
**AWARDING SPONSOR:** Office of Environmental Management  
**TITLE:** Florida International University's Research Support to the Department of Energy's Office of Environmental Management  
**AWARD:** $2,208,763

PI: Craig Layman  
**BIOLOGY**  
**AWARDING SPONSOR:** Environmental Protection Agency  
**TITLE:** EPA Fellowship - Elizabeth Stoner  
**AWARD:** $940
PI: Yuan Liu
CHEMISTRY
AWARDING SPONSOR: Environmental Health Sciences
TITLE: Mechanisms of Trinucleotide Repeat Expansion Via Oxidative DNA Damage Repair
AWARD: $249,000

PI: Robert M Malow
HEALTH PROMO AND DISEASE PREV
AWARDING SPONSOR: Alcohol Abuse and Alcoholism
TITLE: Intervening with HIV+ Alcohol Abusers: Influence of Neuro-Behavioral Factors
AWARD: $576,054

PI: Robert M Malow
HEALTH PROMO AND DISEASE PREV
AWARDING SPONSOR: Alcohol Abuse and Alcoholism
TITLE: Intervening with Haitian HIV+ Alcohol Users: An Environmental Psychosocial Framework
AWARD: $409,181

PI: Wasim Maziak
EPIDEMIOLOGY
AWARDING SPONSOR: Tulane University
TITLE: HIV Prevention Research and Infrastructure Development in Syria and Middle East
AWARD: $97,963

PI: Anthony McGoron
BIOMEDICAL ENGINEERING
AWARDING SPONSOR: National Institutes of Health
TITLE: Imaging for Y90 Microsphere SIRT planning
AWARD: $185,375

PI: Maria Jose Miguez Perez
SISH
AWARDING SPONSOR: Florida Department of Health
TITLE: Cytokines an Underlying Cause of Health Disparities in Tobacco Related Disease
AWARD: $20,000

PI: Jaroslava Miksovska
CHEMISTRY
AWARDING SPONSOR: National Science Foundation
TITLE: Conformational Dynamics Associated with Ca2+ Binding to DREAM Protein
AWARD: $174,375

PI: Madhavan Nair
COM IMMUNOLOGY
AWARDING SPONSOR: National Institute on Drug Abuse
TITLE: Polydrug Nanocarrier to Treat Opiate Addiction and HIV Disease
AWARD: $712,729
<table>
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<tr>
<th>Title</th>
<th>Awarding Sponsor</th>
<th>Award</th>
<th>PI</th>
<th>Institution</th>
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<tr>
<td>Mechanisms of Neuro-AIDS by HIV1B and C Clades</td>
<td>National Institute of Mental Health</td>
<td>$331,860</td>
<td>Madhavan Nair</td>
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<td>Lattice Gauge Theory and Hadronic Physics</td>
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<td>Improving Parenting Capacity to Promote Safe Driving for Adolescents with ADHD-HD058588</td>
<td>University at Buffalo SUNY</td>
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<td>Impact of Evidence-Based Treatment Workshops on Community Practice</td>
<td>American Psychological Association</td>
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<td>Student Travel Support</td>
<td>Rutgers The State University</td>
<td>$1,000</td>
<td>Stephen Ferreira Pires</td>
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<td>Hydrodynamic testing of a novel tri-leaflet silicone valve at four anatomically-relevant locations</td>
<td>FIU Foundation</td>
<td>$9,700</td>
<td>Sharan Ramaswamy</td>
<td>Florida International University</td>
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<td>Quark Net 2012</td>
<td>University of Notre Dame</td>
<td>$5,000</td>
<td>Jorge L Rodriguez</td>
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<td>Mapping Ridge and Slough Vegetation at the LILA Site</td>
<td>South Florida Water Management District</td>
<td>$6,080</td>
<td>Michael S Ross</td>
<td>Florida International University</td>
</tr>
</tbody>
</table>
PI: Sofia Santiesteban  
**STUDENT AFFAIRS VICE PRES OFF**  
**AWARDING SPONSOR:** U.S. Department of Education  
**TITLE:** Florida International University Upward Bound  
**AWARD:** $338,943

PI: Surendra K Saxena  
**MECHANICAL AND MAT ENGINEERING**  
**AWARDING SPONSOR:** FIU Foundation  
**TITLE:** Latitude Cement  
**AWARD:** $2,427

PI: Surendra K Saxena  
**MECHANICAL AND MAT ENGINEERING**  
**AWARDING SPONSOR:** Carnegie Institute of Washington  
**TITLE:** High Pressure Geophysics & Materials - CDAC Year 7  
**AWARD:** $32,442

PI: Nakin Suksawang  
**CIVIL AND ENVIRON ENGINEERING**  
**AWARDING SPONSOR:** Florida Department of Transportation  
**TITLE:** Develop Epoxy Grout Pourback Guidance and Test Methods  
**AWARD:** $148,698

PI: Nakin Suksawang  
**CIVIL AND ENVIRON ENGINEERING**  
**AWARDING SPONSOR:** Florida Department of Transportation  
**TITLE:** Use of Fiber Reinforced Concrete for Concrete Pavement Slab Replacement  
**AWARD:** $200,000

PI: Joel C Trexler  
**SOUTHEAST ENV RESEARCH CTR**  
**AWARDING SPONSOR:** U.S. Geological Survey  
**TITLE:** Response to Fish to the DECOMP Physical Model  
**AWARD:** $86,439

PI: Tiffany Grace Troxler  
**SOUTHEAST ENV RESEARCH CTR**  
**AWARDING SPONSOR:** National Park Service  
**TITLE:** Monitoring for Potential Water Quality Impacts along the Eastern Boundary of Everglades National Park, Including Taylor Slough  
**AWARD:** $109,200

PI: Jinpeng Wei  
**COMPUTER INFO SCIENCES**  
**AWARDING SPONSOR:** Georgia Institute of Technology  
**TITLE:** Malware Persistence in OS Kernels  
**AWARD:** $68,056