Florida International University researchers were awarded $14,160,460 in August 2014. Listed below is a summary of awards received for the month of August.

**PI:** Omar I Abdul Aziz  
**INTERNATIONAL HURRICANE CENTER**  
**Award Action Type:** Supplemental  
**AWARDING SPONSOR:** Florida Office of Insurance Regulation  
**TITLE:** Florida Public Hurricane Loss Model Project Model Enhancements to Estimate Losses from Storm Surge and Flooding 2013-2014: Sub-Project for Dr. Abdul Aziz  
**AWARD:** $133,773

**PI:** Melissa Lorrain Baralt  
**MODERN LANGUAGES**  
**Award Action Type:** Initial  
**AWARDING SPONSOR:** Language Learning  
**TITLE:** The benefits of bilingualism for children born premature  
**AWARD:** $10,000

**PI:** John P Berry  
**CHEMISTRY**  
**Award Action Type:** Initial  
**AWARDING SPONSOR:** National Science Foundation  
**TITLE:** US-Netherlands/Germany Collaborative Research: Development of 13C-Based Magnetic Resonance Spectroscopy and Imaging Techniques for the Zebrafish (Danio rerio) as a Toxicological Model, and Application to Harmful Algal Bloom Toxins  
**AWARD:** $50,095

**PI:** Werner Boeglin  
**PHYSICS**  
**Award Action Type:** Pre-Award  
**AWARDING SPONSOR:** U.S. Department of Energy  
**TITLE:** A Fast Proton Diagnostic for NSTX  
**AWARD:** $23,037

**PI:** Kevin Boswell  
**BIOLOGY**  
**Award Action Type:** Initial  
**AWARDING SPONSOR:** North Pacific Research Board  
**TITLE:** Framework for mobile deployment of the ZOOplankton Visualization and Imaging System (ZOOVIS) and Dual-frequency Identification SONar system (DIDSON)  
**AWARD:** $53,830
PI: Kevin Boswell  
**BIOLOGY**  
**Award Action Type:** Initial  
**AWARDING SPONSOR:** University of Miami  
**TITLE:** Examining the status and distribution of reef fish spawning aggregations in the Southeast Florida Coral Reef Initiative (SEFCRI) Region  
**AWARD:** $24,737

PI: Eric Thomas Brewe  
**COE TEACHING AND LEARNING**  
**Award Action Type:** Increase  
**AWARDING SPONSOR:** National Science Foundation  
**TITLE:** Transforming Modeling Instruction: Developing Curriculum Materials for faculty Adoption  
**AWARD:** $17,147

PI: Kathryn Elizabeth Brogan  
**DIETETICS AND NUTRITION**  
**Award Action Type:** Initial  
**AWARDING SPONSOR:** Wayne State University  
**TITLE:** Patient-Provider Communication to Promote Health Behavior Change in African American Adolescents  
**AWARD:** $18,598

PI: Amaury Caballero  
**ELEC AND COMPUTER ENG**  
**Award Action Type:** Initial  
**AWARDING SPONSOR:** Miami-Dade County Public Schools  
**TITLE:** Electrical Wiring Program for SED Students  
**AWARD:** $77,000

PI: Yong Cai  
**SOUTHEAST ENV RESEARCH CTR**  
**Award Action Type:** Continuation  
**AWARDING SPONSOR:** National Park Service  
**TITLE:** R-EMAP IV: R-EMAP IV - Cai  
**AWARD:** $103,458

PI: Shu-Ching Chen  
**INTERNATIONAL HURRICANE CENTER**  
**Award Action Type:** Supplemental  
**AWARDING SPONSOR:** Florida Office of Insurance Regulation  
**TITLE:** FPHL Model Operation and Maintenance, and Model Upgrades: Sub-Project for Dr. Chen  
**AWARD:** $106,906

PI: Shu-Ching Chen  
**INTERNATIONAL HURRICANE CENTER**  
**Award Action Type:** Supplemental  
**AWARDING SPONSOR:** Florida Office of Insurance Regulation  
**TITLE:** Florida Public Hurricane Loss Model Project Model Enhancements to Estimate Losses from Storm Surge and Flooding 2013-2014: Sub-Project for Dr. Chen  
**AWARD:** $155,107
PI: Peter J Clarke
SOUTHEAST ENV RESEARCH CTR
AWARDING SPONSOR: National Science Foundation
TITLE: Commercial Software Testing Cyberlearning Environment (WReSTT-Com)  
AWARD: $ 50,000

PI: Erika K Coles
CENTER FOR CHILDREN AND FAM
AWARDING SPONSOR: Ohio University
TITLE: Development of Strategies to Increase Teacher Integrity in a Daily Report Card Intervention for Children with or at-risk for ADHD  
AWARD: $ 220,537

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: $ 1,151,227

PI: Hai Deng
ELEC AND COMPUTER ENG
AWARDING SPONSOR: National Science Foundation
TITLE: Collaborative Research: Investigation of Spectrum Sharing Between Radar and Wireless Communications Systems  
AWARD: $ 342,087

PI: Valerie J Diaz
NURSING FEP BBC
AWARDING SPONSOR: Health Resources & Services Administrati
TITLE: VBSN Degree Program  
AWARD: $ 350,000

PI: James Fourqurean
SOUTHEAST ENV RESEARCH CTR
AWARDING SPONSOR: National Park Service
TITLE: The South Florida Caribbean Inventory and Monitoring Network Undergraduate Internship and Training Program  
AWARD: $ 100,700

PI: James Fourqurean
SOUTHEAST ENV RESEARCH CTR
AWARDING SPONSOR: National Park Service
TITLE: Submerged Aquatic Vegetation & Water Quality Monitoring  
AWARD: $ 105,000
PI: James Fourqurean  
**BIOLOGY**  
**Award Action Type:** Initial  
**AWARDING SPONSOR:** National Oceanic and Atmospheric Admin  
**TITLE:** MOU between DOC, NOAA, NOS, ONMS & FKNMS  
**AWARD:** $1,291,152

PI: James Fourqurean  
**BIOLOGY**  
**Award Action Type:** Increase  
**AWARDING SPONSOR:** National Aeronautics & Space Administrat  
**TITLE:** Aquarius Reef Base: NEEMO_18_NASA  
**AWARD:** $48,458

PI: James Fourqurean  
**BIOLOGY**  
**Award Action Type:** Initial  
**AWARDING SPONSOR:** Office of Naval Research  
**TITLE:** Deep Saturation Dive Training  
**AWARD:** $149,391

PI: Kenneth G Furton  
**INT FORENSIC RSCH INSTITUTE**  
**Award Action Type:** Increase  
**AWARDING SPONSOR:** Colgate-Palmolive Company  
**TITLE:** Determining the Underarm Malodor Profile for Different Target Populations  
**AWARD:** $22,000

PI: Cheng-Tin Gan  
**CIVIL AND ENVIRON ENGINEERING**  
**Award Action Type:** Initial  
**AWARDING SPONSOR:** Florida Department of Transportation  
**TITLE:** Technical and Research Support for ITS and Traffic Engineering Projects (LOA #5)  
**AWARD:** $300,000

PI: Daniel Gann  
**LIBRARY OPERATIONS**  
**Award Action Type:** Continuation  
**AWARDING SPONSOR:** National Park Service  
**TITLE:** R-EMAP IV: R-EMAP IV - Gann  
**AWARD:** $15,736

PI: Stavros Georgakopoulos  
**ELEC AND COMPUTER ENG**  
**Award Action Type:** Initial  
**AWARDING SPONSOR:** Northrop Grumman  
**TITLE:** Origami antenna structures for K/Ka/EHF frequency bands and associated algorithms  
**AWARD:** $35,000
|PI: Mary Helen Hayden | SCHOOL OF SOCIAL WORK | Award Action Type: Initial | AWARDING SPONSOR: University of Miami | TITLE: SBIRT Collaboration | AWARD: $ 17,000 |
|PI: Michael Heithaus | SOUTHEAST ENV RESEARCH CTR | Award Action Type: Initial | AWARDING SPONSOR: Parc National de la Guadeloupe | TITLE: Elasmobranch community composition and their spatial and temporal variations in the Grand Cul-de-sac Marin (Guadeloupe) and adjacent waters | AWARD: $ 6,750 |
|PI: Julio E Ibarra | CIARA | Award Action Type: Initial | AWARDING SPONSOR: National Science Foundation | TITLE: Identity and Access Management (IAM) Integration | AWARD: $ 300,000 |
PI: Ranu Jung
**BIOMEDICAL ENGINEERING**
**Award Action Type:** Increase
**AWARDING SPONSOR:** FIU Foundation
**TITLE:** The Norman R. Weldon Biomedical Engineering Fellowship(s)
**AWARD:** $5,000

PI: David Kadko
**ARC APPLIED RESEARCH CENTER**
**Award Action Type:** Initial
**AWARDING SPONSOR:** National Science Foundation
**TITLE:** GEOTRACES Arctic Section: Determining the pathways, fate, and flux of atmospherically derived trace elements to the ocean/ice system of the Arctic utilizing the 7Be tracer.
**AWARD:** $128,693

PI: David Kadko
**ARC APPLIED RESEARCH CENTER**
**Award Action Type:** Initial
**AWARDING SPONSOR:** National Science Foundation
**TITLE:** GEOTRACES Peru-Tahiti section: Measurement of 7Be as a Tracer of Upper Ocean Processes
**AWARD:** $256,233

PI: Konstantinos Kavallieratos
**CHEMISTRY**
**Award Action Type:** Initial
**AWARDING SPONSOR:** U.S. Nuclear Regulatory Commission
**TITLE:** FIU Nuclear Fellowship Program
**AWARD:** $399,978

PI: Laird H Kramer
**STEM INSTITUTE**
**Award Action Type:** Initial
**AWARDING SPONSOR:** Howard Hughes Medical Institute
**TITLE:** Collaborative for Institutionalizing Scientific Learning at FIU
**AWARD:** $300,000

PI: Angela Marie Richmond Laird
**PHYSICS**
**Award Action Type:** Initial
**AWARDING SPONSOR:** National Science Foundation
**TITLE:** Exploring the Neural Mechanisms of Physics Learning
**AWARD:** $179,538

PI: Fenfei Leng
**CHEMISTRY**
**Award Action Type:** Initial
**AWARDING SPONSOR:** National Institutes of Health
**TITLE:** Transcription-coupled DNA Supercoiling
**AWARD:** $317,194
PI: Robert Lickliter  
**DOR - DIVISION OF RESEARCH**  
**Award Action Type:** Increase  
**AWARDING SPONSOR:** General Medical Sciences  
**TITLE:** MBRS Research Initiative for Scientific Enhancement: FIU MBRS RISE - Administrative  
**AWARD:** $144,162

PI: Robert Lickliter  
**DOR - DIVISION OF RESEARCH**  
**Award Action Type:** Increase  
**AWARDING SPONSOR:** General Medical Sciences  
**TITLE:** MBRS Research Initiative for Scientific Enhancement: FIU MBRS RISE - Trainee  
**AWARD:** $824,437

PI: Kenneth Lipartito  
**HISTORY**  
**Award Action Type:** Initial  
**AWARDING SPONSOR:** City of Miami Beach  
**TITLE:** Miami Beach Archives Digitalization Project  
**AWARD:** $132,899

PI: Dwayne McDaniel  
**ARC APPLIED RESEARCH CENTER**  
**Award Action Type:** Continuation  
**AWARDING SPONSOR:** Federal Aviation Administration  
**TITLE:** Effect of Surface Contamination on Composite Bond Integrity and Durability  
**AWARD:** $75,000

PI: Alexander Mebel  
**CHEMISTRY**  
**Award Action Type:** Increase  
**AWARDING SPONSOR:** U.S. Department of Energy  
**TITLE:** Theoretical Studies of chemical reactions related to the formation and growth of polycyclic aromatic hydrocarbons and molecular properties of their key intermed  
**AWARD:** $154,261

PI: Amir Mirmiran  
**CIVIL AND ENVIRON ENGINEERING**  
**Award Action Type:** Increase  
**AWARDING SPONSOR:** Florida Department of Transportation  
**TITLE:** Use of Fiber Reinforced Polymer Composite Cable for Post-Tensioning Applications  
**AWARD:** $5,209

PI: Osama A Mohammed  
**ELEC AND COMPUTER ENG**  
**Award Action Type:** Initial  
**AWARDING SPONSOR:** Office of Naval Research  
**TITLE:** Optimal DC Distribution Architectures for Ship Power Systems Based on Pareto Optimality  
**AWARD:** $200,000
PI: Norman D Munroe  
MECHANICAL AND MAT ENGINEERING  
Award Action Type: Supplemental  
AWARDING SPONSOR: Technology Student Association  
TITLE: 2014-2015 UNITE  
AWARD: $ 10,578

PI: Nezih Pala  
ELEC AND COMPUTER ENG  
Award Action Type: Initial  
AWARDING SPONSOR: National Science Foundation  
TITLE: NeTS:SMALL: Collaborative Research: Multi-Element Illumination for Mobile Free-Space-Optical Networks  
AWARD: $ 250,000

PI: Samantha Christine Paustian Underdahl  
DEPT OF MGMT AND INTL BUSINESS  
Award Action Type: Initial  
AWARDING SPONSOR: Kennesaw State University  
TITLE: Investigating Pregnancy Disclosure at Work  
AWARD: $ 1,230

PI: Rene Price  
SOUTHEAST ENV RESEARCH CTR  
Award Action Type: Increase  
AWARDING SPONSOR: South Florida Water Management District  
TITLE: Hydrological Conditions of Mangrove Lakes Region of Everglades National Park  
AWARD: $ 12,000

PI: Sean Prospect  
COE DEANS OFFICE  
Award Action Type: Initial  
AWARDING SPONSOR: Children's Trust  
TITLE: The Children's Trust (FIU After-School All-Stars)  
AWARD: $ 77,855

PI: Jessica Ramella Roman  
BIOMEDICAL ENGINEERING  
Award Action Type: Increase  
AWARDING SPONSOR: National Institutes of Health  
TITLE: Creation of a Novel Imaging System to Objectively Assess the Natural History of Treated and Unt  
AWARD: $ 2,285

PI: Raphael Raptis  
CHEMISTRY  
Award Action Type: Increase  
AWARDING SPONSOR: National Science Foundation  
TITLE: Copper-Based Water-Oxidation Electrocatalysts; Design, Synthesis and Characterization  
AWARD: $ 20,000
PI: Lakshmi Narayana Reddi
UGS UNIVERSITY GRAD SCHOOL
Award Action Type: Initial
AWARDING SPONSOR: National Science Foundation
TITLE: A New Collaborative Effort for Biomimetic-Based Research on Thermal Behavior of Geomaterials
AWARD: $ 38,533

PI: Jennifer Rehage
SOUTHEAST ENV RESEARCH CTR
Award Action Type: Increase
AWARDING SPONSOR: Bonefish & Tarpon Unilimited
TITLE: Bonefish declines in Florida Bay: an integrative geospatial retrospective analysis of patterns & drivers
AWARD: $ 54,614

PI: Shaolei Ren
COMPUTER INFO SCIENCES
Award Action Type: Initial
AWARDING SPONSOR: National Science Foundation
TITLE: CSR: Small: Improving Data Center Water Efficiency via Online Resource Management
AWARD: $ 333,495

PI: Jennifer Richards
SOUTHEAST ENV RESEARCH CTR
Award Action Type: Continuation
AWARDING SPONSOR: National Park Service
TITLE: R-EMAP IV: R-EMAP IV - Richards
AWARD: $ 14,339

PI: Jennifer Richards
BIOLOGY
Award Action Type: Increase
AWARDING SPONSOR: Fairchild Tropical Botanic Garden
TITLE: Fairchild Tropical Botanic Garden supports research and education in tropical botany. As a tangible expression of this support, they provide graduate student support for individuals working for higher degrees in areas of tropical plant science.
AWARD: $ 24,241

PI: Naphtali Rishe
COMPUTER INFO SCIENCES
Award Action Type: Increase
AWARDING SPONSOR: National Science Foundation
TITLE: I/UCRC Phase II: Center for Advanced Knowledge Enablement: I/UCRC Phase II: Center for Ad
AWARD: $ 81,750

PI: Naphtali Rishe
COMPUTER INFO SCIENCES
Award Action Type: Increase
AWARDING SPONSOR: National Science Foundation
TITLE: I/UCRC Phase II: Center for Advanced Knowledge Enablement: MD for I/UCRC Phase II: CAKE
AWARD: $ 200,000
PI: Naphtali Rishe  
**Computer Info Sciences**  
**Award Action Type:** Increase  
**Awarding Sponsor:** National Science Foundation  
**Title:** I/UCRC Phase II: Center for Advanced Knowledge Enablement: CORBI: Spatio-temporal Big Data  
**Award:** $50,000

PI: Douglas Lee Robertson  
**Undergraduate Education**  
**Award Action Type:** Increase  
**Awarding Sponsor:** Association of Public & Land-Grant Univ  
**Title:** Transformational Planning Grant: University Transformation through Teaching (UT)  
**Award:** $180,013

PI: Camilo Rosales  
**Architecture**  
**Award Action Type:** Increase  
**Awarding Sponsor:** U.S. Department of State  
**Title:** Energy and Climate Partnership of the Americas (ECPA) grant  
**Award:** $42,400

PI: Suzanna Rose  
**Women's Studies Center**  
**Award Action Type:** Initial  
**Awarding Sponsor:** Children's Trust  
**Title:** TRIPLEP4YOU  
**Award:** $149,821

PI: Michael S Ross  
**Southeast Env Research Ctr**  
**Award Action Type:** Continuation  
**Awarding Sponsor:** U.S. Army  
**Title:** Landscape Pattern-Ridge, Slough & Tree Island Mosaics  
**Award:** $91,718

PI: Sofia Santiesteban  
**College Access**  
**Award Action Type:** Continuation  
**Awarding Sponsor:** U.S. Department of Education  
**Title:** Florida International University Upward Bound  
**Award:** $338,943

PI: Sofia Santiesteban  
**College Access**  
**Award Action Type:** Initial  
**Awarding Sponsor:** Florida Education Fund  
**Title:** South Florida Center of Excellence 2014-2015  
**Award:** $26,000
PI: Arif Islam Sarwat
**ELEC AND COMPUTER ENG**
**Award Action Type:** Initial
**AWARDING SPONSOR:** National Science Foundation
**TITLE:** Collaborative Research: RIPS Type 2: Vulnerability Assessment and Resilient Design of Interdependent Infrastructures

AWARD: $237,222

PI: Leonard Scinto
**SOUTHEAST ENV RESEARCH CTR**
**Award Action Type:** Continuation
**AWARDING SPONSOR:** National Park Service
**TITLE:** R-EMAP IV: R-EMAP IV - Scinto

AWARD: $49,467

PI: Ernest G Simms
**STUDENT AFFAIRS VICE PRES OFF**
**Award Action Type:** Continuation
**AWARDING SPONSOR:** U.S. Department of Education
**TITLE:** Upward Bound Math-Science 12-17

AWARD: $193,786

PI: Ernest G Simms
**STUDENT AFFAIRS VICE PRES OFF**
**Award Action Type:** Continuation
**AWARDING SPONSOR:** U.S. Department of Education
**TITLE:** Subproject: Upward Bound Math-Science 12-17

AWARD: $56,177

PI: Sharon R Simon
**NURSING UNDERGRADUATE**
**Award Action Type:** Continuation
**AWARDING SPONSOR:** Health Resources & Services Administration
**TITLE:** Veterans to BSN Program

AWARD: $335,420

PI: Oren B Stier
**RELIGIOUS STUDIES**
**Award Action Type:** Initial
**AWARDING SPONSOR:** Robert Russell Memorial Foundation
**TITLE:** Developing an Online Holocaust Studies Certificate

AWARD: $3,000

PI: Tiffany Troxler
**SOUTHEAST ENV RESEARCH CTR**
**Award Action Type:** Continuation
**AWARDING SPONSOR:** National Park Service
**TITLE:** Ecological Assessment of Florida Bay and adjacent Mangrove Wetlands

AWARD: $148,000

PI: Yukching Tse Dinh
**CHEMISTRY**
**Award Action Type:** Increase
**AWARDING SPONSOR:** National Institutes of Health
**TITLE:** Bacterial cell killing by topoisomerase I mediated DNA lesion

AWARD: $357,721
PI: Anna H Wachnicka Kosiorek  
**Southeast Env Research Ctr**  
*Award Action Type*: Increase  
**AWARDING SPONSOR**: U.S. Geological Survey  
**TITLE**: A multi-proxy study of environmental change and ecological regime shift detection in Florida Bay and Biscayne Bay, Florida (USA) over the last ~100-1000 years  
**AWARD**: $25,992

PI: Wei Wang  
**Math and Statistical Sciences**  
*Award Action Type*: Continuation  
**AWARDING SPONSOR**: Brown University  
**TITLE**: High order discontinuous Galerkin and weighted essentially non-oscillatory algorithms for compressible turbulence simulations  
**AWARD**: $35,862

PI: Oren Dale Williams  
**Biostatistics**  
*Award Action Type*: Continuation  
**AWARDING SPONSOR**: National Institutes of Health  
**TITLE**: Strengthening Indian NCD Clinical Research and Training Capacity  
**AWARD**: $217,877

PI: Ning Xie  
**Computer Info Sciences**  
*Award Action Type*: Initial  
**AWARDING SPONSOR**: National Science Foundation  
**TITLE**: CCF: Small: Local Computation Algorithms - New Directions and Techniques  
**AWARD**: $229,142

PI: Juan Carlos Zevallos  
**Com Academic Affairs**  
*Award Action Type*: Initial  
**AWARDING SPONSOR**: Metro Santurce Inc.  
**TITLE**: Puerto Rico Infarction National Collaborative Experience (PRINCE)  
**AWARD**: $89,496