Florida International University researchers were awarded $12,170,270 in September 2015. Listed below is a summary of awards received for the month of September.

**PI:** Arvind Agarwal  
**MECHANICAL AND MATERIALS ENGINEERING**  
**Award Action Type:** Initial  
**AWARDING SPONSOR:** U.S. Department of Defense  
**TITLE:** 3D Graphene Foam Reinforced Flexible and Multifunctional Polymer Composites  
**AWARD:** $581,577

**PI:** Priyanka Alluri  
**CIVIL AND ENVIRONMENTAL ENGINEERING**  
**Award Action Type:** Initial  
**AWARDING SPONSOR:** Florida Department of Transportation  
**TITLE:** Statewide Analysis of Bicycle Crashes  
**AWARD:** $150,000

**PI:** Atorod Azizinamini  
**CIVIL AND ENVIRONMENTAL ENGINEERING**  
**Award Action Type:** Initial  
**AWARDING SPONSOR:** AECOM  
**TITLE:** Professional Services to the Illinois State Highway and Toll Authority through AECOM  
**AWARD:** $32,000

**PI:** Ou Bai  
**ELECTRICAL AND COMPUTER ENGINEERING**  
**Award Action Type:** Initial  
**AWARDING SPONSOR:** National Science Foundation  
**TITLE:** CPS: Synergy: Sensor Network-based Lower-Limb Prosthetic Optimization and Control: Sensor Network-b  
**AWARD:** $885,925

**PI:** Ou Bai  
**ELECTRICAL AND COMPUTER ENGINEERING**  
**Award Action Type:** Initial  
**AWARDING SPONSOR:** National Science Foundation  
**TITLE:** CPS: Synergy: Sensor Network-based Lower-Limb Prosthetic Optimization and Control: Sensor Network-b: Participant Support  
**AWARD:** $16,000

**PI:** Patricia Barbetta  
**COE TEACHING AND LEARNING**  
**Award Action Type:** Initial  
**AWARDING SPONSOR:** Florida Department of Education  
**TITLE:** Exceptional Student Education (ESE Tuition Support Program)  
**AWARD:** $325,000
PI: Shekhar Bhansali  
**OFFICE OF RSCH AND ECO DEVELOP**  
**Award Action Type:** Increase  
**AWARDING SPONSOR:** FIU Division of Research  
**TITLE:** DOR Support for the Bridge to Doctorate  
**AWARD:** $24,716

PI: Mahadev G Bhat  
**EARTH AND ENVIRONMENT**  
**Award Action Type:** Initial  
**AWARDING SPONSOR:** U.S. Department of Agriculture  
**TITLE:** Veterans and Small Farmers Outreach Program in South Florida  
**AWARD:** $174,759

PI: Eric Bishop-Von Wettberg  
**INT’L CTR FOR TROPICAL BOTANY**  
**Award Action Type:** Initial  
**AWARDING SPONSOR:** Bok Tower Gardens  
**TITLE:** Conservation genetics of Ocala Vetch, Vicia ocalensis  
**AWARD:** $4,000

PI: Benjamin Boesl  
**MECHANICAL AND MAT ENGINEERING**  
**Award Action Type:** Initial  
**AWARDING SPONSOR:** Army Research Laboratory  
**TITLE:** Advanced Materials Response and Design through an Understanding of Manufacturing Science  
**AWARD:** $48,847

PI: Kevin Mershon 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:** $108,480

PI: David C Chatfield  
**CHEMISTRY**  
**Award Action Type:** Initial  
**AWARDING SPONSOR:** U.S. Nuclear Regulatory Commission  
**TITLE:** Faculty Development for Radiochemistry Ph.D. Program at FIU  
**AWARD:** $450,000

PI: Elizabeth Cramer  
**COE TEACHING AND LEARNING**  
**Award Action Type:** Continuation  
**AWARDING SPONSOR:** U.S. Department of Education  
**TITLE:** Project PREPARE: Preparing Rigorous and Effective Professionals as Autism Researchers and Educators.Focus area D  
**AWARD:** $72,832
PI: Elizabeth Cramer  
COE Teaching and Learning  
Award Action Type: Continuation  
AWARDING SPONSOR: U.S. Department of Education  
TITLE: Project PREPARE: Preparing Rigorous and Effective Professionals as Autism Researchers and Educators. Focus area D: Student Support Proj  
AWARD: $177,127

PI: Todd Crowl  
Southeast Env Research Ctr  
Award Action Type: Initial  
AWARDING SPONSOR: University of New Hampshire  
TITLE: Luquillo CZO: the role of hot spots and hot moments in tropical landscape evolution  
AWARD: $3,930

PI: Mario R De La Rosa  
Crusada  
Award Action Type: Increase  
AWARDING SPONSOR: Pacific Institute for Research & Evaluation  
TITLE: Drinking and Driving Among Recent Latino Immigrants  
AWARD: $50,569

PI: Timothy Dean  
College Access  
Award Action Type: Continuation  
AWARDING SPONSOR: U.S. Department of Education  
TITLE: Florida International University Upward Bound: FIU TRIO Upward Bound  
AWARD: $264,769

PI: Timothy Dean  
College Access  
Award Action Type: Continuation  
AWARDING SPONSOR: U.S. Department of Education  
TITLE: Florida International University Upward Bound: Subproject  
AWARD: $74,184

PI: Jessy G Devieux  
Health Promo and Disease Prev  
Award Action Type: Initial  
AWARDING SPONSOR: National Institute of Mental Health  
TITLE: Growing Up: Intervening with HIV positive adolescents in resource-poor settings  
AWARD: $198,991

PI: Brian Fonseca  
Arc Applied Research Center  
Award Action Type: Pre-Award  
AWARDING SPONSOR: CACI International Inc  
TITLE: CERDEC Flight Activity (CFA) System Engineering Support  
AWARD: $39,200
PI: Brian Fonseca
**LATIN AMERICAN AND CARIB CTR**
**Award Action Type:** Pre-Award  
**AWARDING SPONSOR:** CACI International Inc  
**TITLE:** CERDEC Flight Activity (CFA) System Engineering Support: Sub-Project-LACC  
**AWARD:** $10,800

PI: James Fourqurean  
**BIOLOGY**  
**Award Action Type:** Supplemental  
**AWARDING SPONSOR:** National Aeronautics & Space Administrat  
**TITLE:** Aquarius Reef Base: NEEMO_XX_NASA  
**AWARD:** $42,132

PI: Stacy Lynn Frazier  
**CENTER FOR CHILDREN AND FAM**  
**Award Action Type:** Initial  
**AWARDING SPONSOR:** National Institute of Mental Health  
**TITLE:** Emotion Regulation for Urban Youth: Minimizing Risk for Anxiety and Depression  
**AWARD:** $34,034

PI: Evelyn Gaiser  
**SOUTHEAST ENV RESEARCH CTR**  
**Award Action Type:** Continuation  
**AWARDING SPONSOR:** National Park Service  
**TITLE:** Assessing Near-Field and Landscape Scale Ecological Effects of the Modified Water Deliveries and Comprehensive Everglades Restoration Plan Projects in Northeast Shark River Slough, Everglades National Park: Gaiser Subproject  
**AWARD:** $24,702

PI: Evelyn Gaiser  
**SOUTHEAST ENV RESEARCH CTR**  
**Award Action Type:** Initial  
**AWARDING SPONSOR:** Arizona State University  
**TITLE:** Urban resilience to climate change-driven extreme events  
**AWARD:** $74,006

PI: Arindam Gan Chowdhury  
**INTERNATIONAL HURRICANE CENTER**  
**Award Action Type:** Initial  
**AWARDING SPONSOR:** National Science Foundation  
**TITLE:** NHERI Experimental Facility 2015-2019: FIU Experimental Facility  
**AWARD:** $842,695

PI: Arindam Gan Chowdhury  
**INTERNATIONAL HURRICANE CENTER**  
**Award Action Type:** Initial  
**AWARDING SPONSOR:** National Science Foundation  
**TITLE:** NHERI Experimental Facility 2015-2019: Participant Support Costs  
**AWARD:** $21,140
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: Task Work Order # 662-10  
**AWARD:** $ 125,000

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: Task Work Order # 662-11  
**AWARD:** $ 75,000

PI: Cheng-Tin Gan  
**CIVIL AND ENVIRON ENGINEERING**  
**Award Action Type:** Initial  
**AWARDING SPONSOR:** Florida Department of Transportation  
**TITLE:** District Four ITS Research and Technical Support: Task Work Order # 463-05  
**AWARD:** $ 150,000

PI: Piero R Giaardini  
**SOUTHEAST ENV RESEARCH CTR**  
**Award Action Type:** Initial  
**AWARDING SPONSOR:** BP Exploration & Production Inc.  
**TITLE:** Analysis of Deep Sea Basins Biodegradation Samples for Extended PAHs and Related Compounds and Saturated Hydrocarbons by FIU in Support of The Ecological Signatures of Oil Biodegradation in the Global Ocean Project: Analytical chemistry scope of work.  
**AWARD:** $ 36,121

PI: Stavros Georgakopoulos  
**ELEC AND COMPUTER ENG**  
**Award Action Type:** Increase  
**AWARDING SPONSOR:** Georgia Institute of Technology  
**TITLE:** EFRI-ODISSEI: Novel Perpetual Reconfigurable & Multi-Band "Origami Folding/Unfolding" Electromagnetic Systems for Cognitive Intelligence Applications  
**AWARD:** $ 12,000

PI: Raul Gonzalez Jr  
**CENTER FOR CHILDREN AND FAM**  
**Award Action Type:** Initial  
**AWARDING SPONSOR:** National Institute on Drug Abuse  
**TITLE:** FIU-ABCD: Pathways and Mechanisms to Addiction in the Latino Youth of South Florida  
**AWARD:** $ 1,063,094
PI: Sandra A Gracia Jones  
**NURSING UNDERGRADUATE**  
**Award Action Type:** Initial  
**AWARDING SPONSOR:** Substance Abuse & Mental Health Services  
**TITLE:** Partnerships with Community-Based Organizations (CBOs) MSI/CBO  
**AWARD:** $300,000

PI: Mohammed A Hadi  
**CIVIL AND ENVIRON ENGINEERING**  
**Award Action Type:** Initial  
**AWARDING SPONSOR:** National Academy of Sciences  
**TITLE:** Framework to Support Transportation Agency ITS Infrastructure and ITS Legacy Decisions with Consideration of Connected Vehicle Deployment and Autonomous Vehicle and Automated Vehicle Initiatives  
**AWARD:** $99,000

PI: Steven Heine  
**ASIAN STUDIES PROGRAM**  
**Award Action Type:** Initial  
**AWARDING SPONSOR:** National Endowment for the Humanities  
**TITLE:** Tokyo: High City and Low City  
**AWARD:** $141,123

PI: Steven Heine  
**ASIAN STUDIES PROGRAM**  
**Award Action Type:** Initial  
**AWARDING SPONSOR:** Japan Foundation  
**TITLE:** Japan Foundation Grant - Institutional Support  
**AWARD:** $90,043

PI: Julio E Ibarra  
**CIARA**  
**Award Action Type:** Increase  
**AWARDING SPONSOR:** National Science Foundation  
**TITLE:** IRNC Backbone - AmLight Express and Protect (ExP)  
**AWARD:** $1,000,000

PI: Julio E Ibarra  
**CIARA**  
**Award Action Type:** Continuation  
**AWARDING SPONSOR:** Assoc of Univs for Rsrch in Astronomy  
**TITLE:** Large Synoptic Survey Telescope (LSST)  
**AWARD:** $305,000

PI: Sundararaj Sitharama Iyengar  
**COMPUTER INFO SCIENCES**  
**Award Action Type:** Initial  
**AWARDING SPONSOR:** Army Research Office  
**TITLE:** A game theoretic approach to self-configuring, non-cooperative mobile sensors' for monitoring moving targets  
**AWARD:** $186,778
PI: Sakhrat Khizroev  
**ELEC AND COMPUTER ENG**  
Award Action Type: Supplemental  
AWARDING SPONSOR: University of California Berkeley  
TITLE: Physics of Spin Switching in Sub-10-nm Spin-transfer-torque Magnetic Tunneling Junctions  
AWARD: $75,000

PI: Laird H Kramer  
**STEM INSTITUTE**  
Award Action Type: Initial  
AWARDING SPONSOR: Hispanic Association of Colleges & Univ.  
TITLE: HACU YLDF  
AWARD: $22,000

PI: Leonel E Lagos  
**ARC APPLIED RESEARCH CENTER**  
Award Action Type: Increase  
AWARDING SPONSOR: General Infomatics Inc.  
TITLE: Cyber Space Technology Research and STEM Development for Department of Defense - Test Resource Management Center (TRMC) Phase III  
AWARD: $72,000

PI: Chengxian Lin  
**MECHANICAL AND MAT ENGINEERING**  
Award Action Type: Initial  
AWARDING SPONSOR: Gas Technology Institute  
TITLE: Flue Gas Water Vapor Latent Heat Recovery for Pressurized Oxy-Combustion  
AWARD: $90,000

PI: Purnima Madhivanan  
**EPIDEMIOLOGY**  
Award Action Type: Continuation  
AWARDING SPONSOR: University of California Berkeley  
TITLE: Global Health Fellows and Scholars Program  
AWARD: $179,561

PI: Kalai Mathee-Narasimhan  
**COM HUMAN AND MOL GENETICS**  
Award Action Type: Initial  
AWARDING SPONSOR: National Institutes of Health  
TITLE: Decoding P. aeruginosa RIP cascade and discovering its inhibitors as therapeutics  
AWARD: $421,190

PI: Maria Jose Miguez Perez  
**SISH**  
Award Action Type: Initial  
AWARDING SPONSOR: University of Miami  
TITLE: PROMOTE AND COORDINATE HIGH-IMPACT HIV/AIDS RESEARCH IN SOUTH FLORIDA  
AWARD: $25,000
PI: Maria Jose Miguez Perez
SISH
Award Action Type: Initial
AWARDING SPONSOR: Brown University
TITLE: Alcohol and HIV: Biobehavioral Interactions and Intervention – Research Component 2, Behavioral interventions to reduce heavy drinking among MSM in HIV primary care
AWARD: $13,338

PI: Norman D Munroe
ENGINEERING DEANS OFFICE
Award Action Type: Initial
AWARDING SPONSOR: Miami-Dade County Cultural Affairs
TITLE: MiamiPrep Summer Camp
AWARD: $30,000

PI: Erica D Musser
CENTER FOR CHILDREN AND FAM
Award Action Type: Initial
AWARDING SPONSOR: American Psychological Foundation
TITLE: Emotional Reactivity, Regulation, and Reward in Child ADHD and Obesity
AWARD: $1,000

PI: Adly Norelus
STUDENT AFFAIRS VICE PRES OFF
Award Action Type: Increase
AWARDING SPONSOR: Florida Department of Agriculture and Co
TITLE: Summer Food Service Program
AWARD: $39,540

PI: Fernando Noriega
BIOMOLECULAR SCIENCE INSTITUTE
Award Action Type: Increase
AWARDING SPONSOR: National Institutes of Health
TITLE: Regulation of juvenile hormone titers in mosquitoes
AWARD: $104,361

PI: William E Pelham Jr
CENTER FOR CHILDREN AND FAM
Award Action Type: Pre-Award
AWARDING SPONSOR: University of Pittsburgh
TITLE: The Development of Alcohol Use and Abuse in ADHD Adolescents
AWARD: $41,206

PI: Jeremy W Pettit
CENTER FOR CHILDREN AND FAM
Award Action Type: Initial
AWARDING SPONSOR: National Institute of Mental Health
TITLE: Attention Bias Modification Training in Youth with Subthreshold Impairing Anxiety
AWARD: $142,629
PI: Sean Antonio Prospect  
**COE COMMUNITY ENGAGEMENT**  
**Award Action Type:** Initial  
**AWARDING SPONSOR:** Florida Department of Education  
**TITLE:** Project CLAW (FIU After School All-Stars) 2015-2016  
**AWARD:** $270,661

PI: Gang Quan  
**ELEC AND COMPUTER ENG**  
**Award Action Type:** Initial  
**AWARDING SPONSOR:** University of California Riverside  
**TITLE:** CSR: Small: Collaborative Research: Making Virtualized Data Center Less "Thirsty" via Online Thermal-Aware Resource Management and Pricing-based Incentives  
**AWARD:** $16,212

PI: Naphtali D Rishe  
**COMPUTER INFO SCIENCES**  
**Award Action Type:** Increase  
**AWARDING SPONSOR:** National Science Foundation  
**TITLE:** I/UCRC Phase II: Center for Advanced Knowledge Enablement  
**AWARD:** $20,000

PI: Tonette S Rocco  
**COE LEADERSHIP AND PROF STU**  
**Award Action Type:** Increase  
**AWARDING SPONSOR:** National Academic Advising Association  
**TITLE:** Leaders’ Perception of the Professionalization of Academic Advising  
**AWARD:** $400

PI: Suzanna Rose  
**WOMENS STUDIES CENTER**  
**Award Action Type:** Initial  
**AWARDING SPONSOR:** Children’s Trust  
**TITLE:** TripleP4YOU  
**AWARD:** $153,238

PI: Suzanna Rose  
**WOMENS STUDIES CENTER**  
**Award Action Type:** Initial  
**AWARDING SPONSOR:** Children’s Trust  
**TITLE:** PAT4YOU  
**AWARD:** $234,148

PI: Jay Sah  
**SOUTHEAST ENV RESEARCH CTR**  
**Award Action Type:** Increase  
**AWARDING SPONSOR:** U.S. Army Corps of Engineers  
**TITLE:** Monitoring of Tree Island Condition in the Southern Everglades  
**AWARD:** $92,667
PI: Jay Sah
SOUTHEAST ENV RESEARCH CTR
Award Action Type: Increase
AWARDING SPONSOR: U.S. Army Corps of Engineers
TITLE: Landscape pattern - Marl Prairie/Slough Gradients
AWARD: $ 116,281

PI: Jay Sah
SOUTHEAST ENV RESEARCH CTR
Award Action Type: Initial
AWARDING SPONSOR: U.S. Army Corps of Engineers
TITLE: Landscape Pattern- Ridge, Slough, and Tree Island Mosaics
AWARD: $ 91,000

PI: Leonard Scinto
SOUTHEAST ENV RESEARCH CTR
Award Action Type: Continuation
AWARDING SPONSOR: National Park Service
TITLE: Assessing Near-Field and Landscape Scale Ecological Effects of the Modified Water Deliveries and Comprehensive Everglades Restoration Plan Projects in Northeast Shark River Slough, Everglades National Park
AWARD: $ 9,481

PI: Leonard Scinto
SOUTHEAST ENV RESEARCH CTR
Award Action Type: Continuation
AWARDING SPONSOR: National Park Service
AWARD: $ 39,282

PI: Leonard Scinto
LIBRARY OPERATIONS
Award Action Type: Continuation
AWARDING SPONSOR: National Park Service
TITLE: Assessing Near-Field and Landscape Scale Ecological Effects of the Modified Water Deliveries and Comprehensive Everglades Restoration Plan Projects in Northeast Shark River Slough, Everglades National Park: Gann Subproject
AWARD: $ 54,220

PI: Ernest Simms
STUDENT ACCESS AND SUCCESS
Award Action Type: Initial
AWARDING SPONSOR: Florida Education Fund
TITLE: FIU Center of Excellence (COE) Program 2015-2016
AWARD: $ 26,000

PI: Sharon R Simon
NURSING UNDERGRADUATE
Award Action Type: Initial
AWARDING SPONSOR: Health Resources & Services Administrati
TITLE: Veterans to BSN Program
AWARD: $ 335,420
PI: Lester Standiford  
**ENGLISH**  
**Award Action Type:** Initial  
**AWARDING SPONSOR:** Eckerd College  
**TITLE:** Peter Meinke Endowed Visiting Professorship in Creative Writing  
**AWARD:** $52,000

PI: Joel Trexler  
**SOUTHEAST ENV RESEARCH CTR**  
**Award Action Type:** Continuation  
**AWARDING SPONSOR:** National Park Service  
**TITLE:** Assessing Near-Field and Landscape Scale Ecological Effects of the Modified Water Deliveries and Comprehensive Everglades Restoration Plan Projects in Northeast Shark River Slough, Everglades National Park: Trexler Subproject  
**AWARD:** $22,314

PI: Joel Trexler  
**SOUTHEAST ENV RESEARCH CTR**  
**Award Action Type:** Initial  
**AWARDING SPONSOR:** U.S. Geological Survey  
**TITLE:** Response of Fish to the DECOMP Physical Model  
**AWARD:** $129,000

PI: Tiffany Troxler  
**SOUTHEAST ENV RESEARCH CTR**  
**Award Action Type:** Initial  
**AWARDING SPONSOR:** Restore America's Estuaries  
**TITLE:** Blue Carbon Baseline Assessment  
**AWARD:** $8,000

PI: Shahin Vassigh  
**INST OF WATER AND ENVIRONMENT**  
**Award Action Type:** Initial  
**AWARDING SPONSOR:** National Science Foundation  
**TITLE:** Collaborative Research: Strategies for Learning: Augmented Reality and Collaborative Problem-Solving for Building Sciences  
**AWARD:** $201,449

PI: Eric Wagner  
**FIU BRIDGE**  
**Award Action Type:** Initial  
**AWARDING SPONSOR:** Substance Abuse & Mental Health Services  
**TITLE:** FIU-MDCPS Partnership for Preventing Health among Youth  
**AWARD:** $283,875

PI: Eric Wagner  
**SCHOOL OF SOCIAL WORK**  
**Award Action Type:** Continuation  
**AWARDING SPONSOR:** University of California San Diego  
**TITLE:** Facilitating Self-Change for Adolescent Alcohol Problems  
**AWARD:** $104,982
PI: Yi Xiao

BIOMOLECULAR SCIENCE INSTITUTE

Award Action Type: Initial

AWARDING SPONSOR: National Institutes of Health

TITLE: Aptamer-Based, Exonuclease-Amplified, Colorimetric, Onsite Screening of Methylene dioxy pyrovalerone (MDPV) and Mephedrone in Oral Fluid

AWARD: $ 337,240