Monthly New Awards - September 2017

Ahmed, Kareem A. / Blair, Richard George / Kapat, Jayanta S. / Vasu Sumathi, Subith  
Multitude Characterization and Prediction of DOE Advanced Biofuels Properties  
U.S. Department of Energy  
$894,336  
College of Engineering and Computer Science - Center for Advanced Turbomachinery and Energy Research / Mechanical and Aerospace Engineering / Florida Space Institute

Almagro-Moreno, Salvador  
Genomic Adaptations of Vibrio Vulnificus Allowing Host Microbiome Invasion During Pathogenic Infection  
United States-Israel Binational Science Foundation  
$30,000  
College of Medicine - School of Biomedical Science

Amezcua Correa, Rodrigo / Schulzgen, Axel  
Antiresonant Hollow Core Fibers for Extreme Light Propagation  
U.S. Army Research Office  
$389,600  
College of Optics and Photonics - CREOL

Bass, Michael  
Modeling Studies of Yb-Doped Slab Amplifiers to Determine Spatially Resolved Inversion and Spatially Resolved Gain Profile, Deriving Influence on Amplified Beam Profile as well as Deriving Origins  
TRUMPF, Inc.  
$49,449  
College of Optics and Photonics - CREOL

Blair, Richard George  
Technology Translation: Demonstration and Validation of a Novel Field Drug Test System for Law Enforcement  
National Science Foundation  
$200,000  
College of Sciences - Physics / Faculty Cluster Initiative - Energy Conversion and Propulsion

Burke, Shawn  
JJHWS Behavior Change App Evaluation  
Merging Traffic  
$25,000  
Institute for Simulation and Training – Dept. of Human Systems Integration Research
Chambers, Lisa
Marsh to Mangrove Habitat Switching: Increasing the Coastal Carbon Sink?
University of South Florida
$245,394
College of Sciences - Biology

Christodoulides, Demetrios N. / Khajavikhan, Mercedeh
Supersymmetry in Optics & Photonics
U.S. Army Research Office
$300,000
College of Optics and Photonics - CREOL

Coffey, Kevin R. / Jiang, Tengfei / Kaden, William Edward / Mucciolo, Eduardo R. / Schelling, Patrick K.
Collaborative Research: Type I: Interconnects Beyond Cu
National Science Foundation
$75,499
Advanced Materials Processing and Analysis Center / College of Sciences - Physics

Crabbs, Robert F.
Laser Testing Support
U.S. Air Force
$80,656
College of Optics and Photonics - CREOL

Ellis, Amy Beth
Center for Community Schools
Florida Department of Education
$46,250
College of Health and Public Affairs

Fiore, Stephen M.
Team Science Training for Virginia Marine Science Graduate Student Education
Virginia Institute of Marine Science
$67,227
College of Arts and Humanities - Philosophy / Institute for Simulation and Training

Giroux, Amy L.
IPA Agreement for Amy Giroux
U.S. Department of Veterans Affairs
$25,493
College of Arts and Humanities - Arts Dean's Office

Hamilton, Angela Catherine
JJHWS Behavior Change App Development and Testing
Merging Traffic
$30,000
Institute for Simulation and Training - Mixed Emerging Technology Integration Lab
Huang, Helen J / Huang, Hsin-Hsiung / Thiamwong, Ladda
Adaptation of Brain and Body Responses to Perturbations During Gait in Young and Older Adults
National Institutes of Health
$1,494,714
College of Engineering and Computer Science - Mechanical and Aerospace Engineering / College of Nursing - Nursing / College of Sciences - Statistics and Actuarial Science

Jin, Yier / Zhang, Teng
Security Certification of Autonomous CyberPhysical Systems
National Science Foundation
$830,649
College of Engineering and Computer Science - Department of Electrical and Computer Engineering / College of Sciences - Mathematics

Katsevich, Alexander I
Development of Novel CT Data Imaging Algorithms
 iTomography Corp.
$85,168
College of Sciences - Mathematics

Kent-Walsh, Jennifer E.
FAAST Atlantic Regional Demonstration Center Project 2017-2018
Florida Alliance for Assistive Services and Technology, Inc.
$18,375
College of Health and Public Affairs - Communication Sciences and Disorders

Khajavikhan, Mercedeh
EAGER: Fundamental Considerations in Using Non-Hermitian Microscale Resonant Optical Structures for Rotation Sensing
National Science Foundation
$200,000
College of Optics and Photonics - CREOL

Khaled, Annette
Inhibiting Protein-Folding Activity for the Treatment of Metastatic Breast Cancer
Breast Cancer Research Foundation
$250,000
College of Medicine - School of Biomedical Science

Lamanna, Jacqueline M. / Conner, Norma E. / Loerzel, Victoria / Valenti, Michael T.
The Invisible Man: Lived Experiences of Older Male Caregivers
American Nurses Foundation
$5,000
College of Nursing
Nutta, Joyce W. / Johnson, Jerry / Mihai, Florin / Purmensky, Kerry
Dual Language Support through Technology Enhanced Programs and Strategies
U.S. Department of Education
$2,691,313
College of Education and Human Performance - School of Teaching, Learning and Leadership / College of Arts and Humanities - Modern Languages and Literatures

Qu, Zhihua / Dimitrovski, Aleksandar / Reedy, Robert Martin / Sun, Wei / Zhou, Qun
Scalable/Secure Cooperative Algorithms and Framework for Extremely-high Penetration Solar Integration (SolarExPert)
U.S. Department of Energy
$1,275,000
College of Engineering and Computer Science (CECS) - Department of Electrical and Computer Engineering / Faculty Cluster Initiative - Renewable Energy Systems / Florida Solar Energy Center

Raghavan, Seetha
FSGC Advanced Thermal and Environmental Barrier Coating Configurations for Durability in Reusable Systems under Extreme Environments
NASA Shared Services Center
$25,000
College of Engineering and Computer Science - Mechanical and Aerospace Engineering

Richardson, Martin C.
High Power Thulium Laser Marking System Development for Visibly Transparent Polymers
EoL Co., Ltd.
$72,000
College of Optics and Photonics - CREOL

Schleith, Susan T.
Connecting Communities with Opportunities for Success
Battelle Memorial Institute
$50,000
Florida Solar Energy Center

Seal, Sudipta / Branting, Scott / Roy, Tania / Sohn, Yongho
MRI: Acquisition of State of the Art Imaging X-Ray Photoelectron Spectroscopy: Integrating Nanotechnology, Catalysis, Physics, Manufacturing and Archaeological Research & Education
National Science Foundation
$629,650
Advanced Materials Processing and Analysis Center / NanoScience Technology Center / College of Sciences - Anthropology

Sohn, Yongho
CMAS and Heavy Fuel Oil Corrosion Resistance Test of Thermal Barrier Coatings for Gas Turbine Applications
Doosan Heavy Industries and Construction Company
$58,252
Advanced Materials Processing and Analysis Center
Sohn, Yongho / Coffey, Kevin R.
Mechanisms of Retention and Transport of Fission Products in Virgin and Irradiated Nuclear Graphite
U.S. Department of Energy
$239,281
Advanced Materials Processing and Analysis Center

Vodopyanov, Konstantin L.
Fundamental Studies of Nonlinear Optics and Laser-plasma Phenomena in Gases and Solids Using High-Power LWIR Lasers
The Regents of The University of California
$100,000
College of Optics and Photonics - CREOL

Wahl, Thomas
An Indicator for U.S. Coastal Extreme Sea Levels
National Oceanic and Atmospheric Administration (NOAA)
$266,473
College of Engineering and Computer Science - Civil, Environmental, and Construction Engineering / Faculty Cluster Initiative - Sustainable Coastal Systems

Wells, Adam J.
Effects of a Simulated Soccer Match on Neuropsychological and Cognitive Function: A Pilot Study (ID: 1062677)
American Athletic Conference Academic Consortium
$8,000
College of Education and Human Performance - Educational and Human Sciences
Abdel-Aty, Mohamed A. / Radwan, Ahmed E.
Safety Research Using Simulation (SAFER-SIM)
University of Iowa
$266,418
College of Engineering and Computer Science - Center for Advanced Transportation Systems Simulation

Aldarondo-Jeffries, Michael E.
Ronald E. McNair Postbaccalaureate Achievement Program
U.S. Department of Education
$237,544
Office of Undergraduate Studies - McNair and RAMP

Beazley, Melanie J.
Orange County Environmental Water Study 2017
Orange County Board of Commissioners
$9,100
College of Sciences – Chemistry

Beidel, Deborah Casamassa
UCF RESTORES (ID: 1063711)
Central Florida Cares Health System, Inc.
$1,000,000
College of Sciences - Psychology

Branting, Scott / Kider Jr., Joseph Theodore / Walters, Lori C.
Documenting and Triaging Cultural Heritage (DATCH): Using Mixed Reality for Damage Assessment and Digital Preservation
National Endowment for the Humanities
$74,916
College of Sciences - Anthropology / College of Arts and Humanities - History / Institute for Simulation and Training

Bridge, Candice M.
A Novel Approach to Automotive Paint Analysis using Direct Analysis in Real Time Mass Spectrometry
The Forensic Sciences Foundation, Inc.
$4,800
College of Sciences - Chemistry / National Center for Forensic Science

Brunell, Mary Lou F.
RF: Healthcare Workforce Research Initiative (ID: 1063739)
Various
$1
College of Health and Public Affairs (COHPA) - COHPA Dean's Office
Campbell, Laurie OMalley / Lambie, Glenn William
Reading Assessment Validity, Program Fidelity and Teacher Effectiveness (ID: 1063390)
The Imagination Station
$756,251
College of Education and Human Performance - Educational and Human Sciences / College of Education and Human Performance - Child, Family and Community Sciences

Chang, Zenghu
High Power Phase-Stabilized Few-Cycle Mid-IR Laser
U.S. Air Force Research Laboratory
$426,193
College of Optics and Photonics - CREOL / College of Sciences – Physics

Chung, Wingyan / Mustaine, Elizabeth E.
SimON: Accurate and Scalable Simulation of Influence in Online Social Networks
Defense Advanced Research Projects Agency
$6,316,764
Institute for Simulation and Training / College of Sciences – Sociology

Colon, Carlos J.
Technical Assistance to Southern Research for the Demonstration of Photovoltaic Assisted Heat Pump Water Heater
Southern Research Institute
$11,598
Florida Solar Energy Center

Davis, Kristopher Olan / Guo, Siyu / Schneller, Eric
Characterization of Contact Degradation in c-Si PV Modules
U.S. Department of Energy
$809,934
Florida Solar Energy Center

Dimitrovski, Aleksandar
Dynamically Adaptive Parareal in Time Algorithm for Fast Power System Transient Simulations
UT-Battelle, LLC / Oak Ridge National Laboratory (ORNL)
$50,000
College of Engineering and Computer Science - Department of Electrical and Computer Engineering / Faculty Cluster Initiative - Renewable Energy Systems

Dobson, Doug
Social Studies Teacher-to-Teacher Collaboration
Constitutional Rights Foundation
$16,000
College of Sciences - Political Science
**Dogariu, Aristide / Han, Kyu Young**  
Electrodynamically Mediated Energy Transduction in Cytoskeleton  
Defense Advanced Research Projects Agency  
$138,873  
College of Optics and Photonics – CREOL

**Donley, Amy M.**  
Tobacco Scans 2017  
Orange County Board of Commissioners  
$3,955  
College of Sciences – Sociology

**Driggers, Ronald G.**  
IPA: Ron Driggers IMEC Support (ID: 1063286)  
IMEC  
$56,700  
College of Optics and Photonics - CREOL

**Fan, Deliang**  
Non-Volatile In-Memory Processing Unit: Memory, In-Memory Logic and Deep Neural Network  
National Science Foundation  
$184,470  
College of Engineering and Computer Science - Department of Electrical and Computer Engineering

**Glebov, Leonid B. / Divliansky, Ivan**  
Development of Photo-Thermo-Refractive Glass for High Efficiency Volume Holographic Elements  
IPG Photonics  
$280,000  
College of Optics and Photonics - CREOL

**Gong, Boqing / Shah, Mubarak A / Wang, Liqiang**  
Big Data: IA: Distributed Semi-Supervised Training of Deep Models and Its Applications in Video Understanding  
National Science Foundation  
$662,431  
Center for Research in Computer Vision / College of Engineering and Computer Science - Department of Computer Science

**Gordon, Ali P.**  
Application of Non-Interaction Approach for Temperature- Dependent, Cyclic Crystal Viscoplasticity Modeling of SX and DS Ni-base Superalloys  
Doosan Heavy Industries and Construction Company  
$175,785  
College of Engineering and Computer Science - Center for Advanced Turbomachinery and Energy Research
Gryglewicz, Kimberley Ann
Florida Implementation of the National Strategy for Suicide Prevention
Substance Abuse and Mental Health Services Administration
$942,000
College of Health and Public Affairs (COHPA) - Social Work

Hagedorn, W. Bryce / Joe, Jacqueline Richelle / Jones, Karyn D. / Kelchner, Viki Price
Behavioral Health Workforce Education and Training Program
Health Resources and Services Administration
$1,912,284
College of Education and Human Performance - Child, Family and Community Sciences

Hawthorne, Timothy Lee
RF: Diocese of Orlando Boundary Mapping Project (ID: 1063600)
Diocese of Orlando
$8,421
College of Sciences - Sociology

Hoffman, Phil
Ready to Learn CC-ELM Planning Grant
Corporation for Public Broadcasting
$5,000
Division of Strategy, Marketing, Communications, and Admissions

Kassab, Alain J. / Dickerson, Andrew K. / Xu, Yunjun
Aerospace & Defense Fundamental Research Project
Lockheed Martin Missiles and Fire Control
$25,000
College of Engineering and Computer Science - Mechanical and Aerospace Engineering / Faculty Cluster Initiative - Prosthetic Interface

Kinchen, Elizabeth V.
The Preservation of Holistic Nursing Values in Nurse Practitioner Care
Florida Organization of Nurse Executives
$2,000
College of Nursing

LaMee, Adam Allen
ORAU Travel grant - scientific computing opportunities for K12 (ID: 1063649)
Oak Ridge Associated Universities
$800
College of Sciences - Physics

Lee, Gene H. / Rabelo, Luis C.
Research on Implementation Issues in Multi-Resolution Combat Modeling
Real Time Visual
$200,000
College of Engineering and Computer Science - Industrial Engineering and Management Systems
Li, Guifang
Towards AO-Free FSO Communication
U.S. Army Research Office
$60,000
College of Optics and Photonics – CREOL

Li, Guifang / Amezcu Correa, Rodrigo
Beamforming Techniques for Focusing Light Through Atmospheric Turbulence
U.S. Army Research Office
$190,556
College of Optics and Photonics – CREOL

Loerzel, Victoria / Torrez Pon, Eliany Celeste
RF: Exploring what it is like to be an undocumented alien in seek of healthcare (ID: 1063694)
UCF Foundation, Inc
$250
College of Nursing - Nursing / College of Nursing – Nursing

Lyakh, Arkadiy / Vodopyanov, Konstantin L.
Rugged, chip-scale, optical frequency combs for real-world applications (ID: 1063629)
Pranalytica, Inc.
$300,000
NanoScience Technology Center - NanoScience Technology Center / College of Optics and Photonics - CREOL

Macy, Marisa Angela / Culp, Anne McDonald
TATS FY 2017-2018
Florida Department of Education
$993,750
College of Education and Human Performance - Child, Family and Community Sciences

Martin, Eric D. / Fenaughty, Karen F. / McIlvaine, Janet R. / Parker, Danny S.
Using Supplemental Mini-Split Heat Pumps to Improve Comfort and Efficiency in Low-Load Existing Homes
U.S. Department of Energy
$163,410
Florida Solar Energy Center

Martin, Eric D. / Chasar, David A. / Sonne, Jeffrey K. / Withers, Charles R.
Characterization of Indoor Air Quality in New Homes in the Southeastern United States
U.S. Department of Energy
$573,532
Florida Solar Energy Center

Meehan, Kevin V.
Fulbright Grant - Dr. Kevin Meehan (ID: 1063728)
Institute of International Education
$66,440
College of Arts and Humanities - English
Metcalf, David S.
RF: Patient and Robot Interactions in Clinical Settings - Phase 2 (ID: 1063589)
ConSystent AI, LLC
$18,000
Institute for Simulation and Training (IST) - IST

Metcalf, David S.
RF: Innovation Florida- Visioning, Strategy, and Support (ID: 1063542)
West Florida Health Network, LLC
$3,850
Institute for Simulation and Training (IST) - IST

Moreto, William De Jesus
Ranger Perception Study Student Support
World Wide Fund for Nature (Singapore) Limited
$14,936
College of Health and Public Affairs - Criminal Justice

Mouton, Christine M.
Victim of Crime Act Grant
Florida Office of the Attorney General
$101,790
Administration and Finance – Police

O'Neal, Thomas P.
NEC City of Orlando Funding 2017-2018
City of Orlando
$150,000
College of Engineering and Computer Science - Industrial Engineering and Management Systems / Office of Research and Commercialization

O'Neal, Thomas P.
RF: Orlando Incubator 2017-2018 (ID: 1063721)
City of Orlando
$349,456
College of Engineering and Computer Science (CECS) - Industrial Engineering and Management Systems / Office of Research and Commercialization - Office of Research and Commercialization

O'Neal, Thomas P. / Rodriguez, Juan Oscar
VentureWell Faculty Fellowship
Venture Well
$10,000
College of Engineering and Computer Science - Industrial Engineering and Management Systems

Pourmohammadi Fallah, Yaser
Vehicle-to-Vehicle Communication Research: Simulation Development for Scalability (Year 2)
Crash Avoidance Metrics Partners LLC
$128,428
College of Engineering and Computer Science - Department of Electrical and Computer Engineering
Qi, Yuanwei
Traveling Wave Solutions of Gray-Scott model-Existence and Multiplicity (ID: 1063267)
Simons Foundation
$42,000
College of Sciences - Mathematics

Raghavan, Seetha / Ghosh, Ranajay
In-Situ Optical Monitoring of Gas Turbine Blade Coatings under Operational Extreme Environments
U.S. Department of Energy/National Energy Technology Laboratory
$600,000
College of Engineering and Computer Science - Center for Advanced Turbomachinery and Energy Research - Mechanical and Aerospace Engineering

Rosenbaum, Mark Howard
Info/Cyber Security& Privacy Violations: Who Are The Computing Practitioners That Commit These Violations (ID: 1063277)
Osiason Educational Foundation
$240,000
College of Engineering and Computer Science (CECS) - Department of Computer Science

Saint Benoit, Tracy Anne
Developing Assessments & Data Collection Methodologies for Training and Education in Support of Special Operations for Social Cultural Intelligence of the Battlespace (ID: 1063346)
US Army Research Office
$195,000
College of Education and Human Performance - Education Dean's Office

Schreiber, Jeanette / Wilkes, Kathy J.
FY 2018 FLDOH State Contract - Children's Medical Services PCMH
Florida Department of Health
$255,000
College of Medicine - Medical Education / Medicine Dean's Office

Schreiber, Jeanette / Wilkes, Kathy J.
FY 2018 FLDOH State Contract - Colorectal Cancer Control Program
Florida Department of Health
$420,000
College of Medicine - Medical Education / Medicine Dean's Office

Schreiber, Jeanette / Wilkes, Kathy J.
FY 2018 FLDOH State Contract - PCMH Education and Consultation Services
Florida Department of Health
$250,000
College of Medicine - Medical Education / College of Medicine - Medicine Dean's Office
Smith, Eileen M.
Schlumberger Service Order #5: Rig VR Environments (three) from SO3 (ID: 1063322)
Schlumberger Technology Corporation
$113,985
Institute for Simulation and Training (IST) - E2i Creative Studio

Sohn, Yongho / Coffey, Kevin R. / Kumar, Ranganathan
Agile Manufacturing Science and Technology Innovation for Advanced Materials and Materials Processing
U.S. Army Research Laboratory
$3,798,361
Advanced Materials Processing and Analysis Center / College of Engineering and Computer Science - Mechanical and Aerospace Engineering

Stock, Matt S.
The time course of motor unit adaptations associated with disuse (ID: 1063328)
De Luca Foundation
$15,000
College of Health and Public Affairs (COHPA) - Health Professions

Walters, Joseph W. / Davis, Kristopher Olan
Predictive Module Degradation and Failure Identification Solution
APECOR
$48,214
Florida Solar Energy Center

Watson, Keri W.
Fulbright Grant - Dr. Keri Watson (ID: 1063726)
Institute of International Education
$48,700
College of Arts and Humanities - School of Visual Arts and Design (SVAD)

Wilson, Bruce M.
Elevating Water Rights to Human Rights: Has it Strengthened Marginalized Peoples’ Claim for Water?
Chr. Michelsen Institute
$56,355
College of Sciences - Political Science

Wu, Dazhong
Cloud-Enabled Machines with Data-Driven Intelligence
Pennsylvania State University
$150,000
College of Engineering and Computer Science - Mechanical and Aerospace Engineering

Zin, Ngwe Soe Josh / Davis, Kristopher Olan / Schoenfeld, Winston V.
Unlocking the High Efficiency Potential of Bifacial Silicon Solar Cells by Advanced but Simplified Techniques
Florida Department of Agriculture and Consumer Services
$400,000
Florida Solar Energy Center