Monthly New Awards - February 2020

Al-Deek, Haitham  
Wrong Way Driving  
Central Florida Expressway Authority  
$230,000  
College of Engineering and Computer Science

Catbas, Necati  
A Cost-Effective On-Board Railway Track Condition Monitoring System by Using Sensor Fusion Technology  
Transportation Technology Center, Inc.  
$38,182  
College of Engineering and Computer Science

Cho, Hyoung Jin  
Robinson Observatory Restoration Project  
NASA Shared Services Center  
$1,000  
College of Engineering and Computer Science

Chopra, Manoj  
Florida - Georgia Louis Stokes Alliance For Minority Participation  
FL A&M University  
$14,000  
College of Engineering and Computer Science

Chow, Louis  
High-Salinity Water Management Including Recovering of Lithium and Rare Metals Using Solar Energy  
Savengy Technologies, LLC  
$20,000  
College of Engineering and Computer Science

Dagley, Melissa  
2020 Florida Engineering Education Conference  
NASA Shared Services Center  
$1,995  
College of Engineering and Computer Science

Das, Tuhin  
Model-Based Systems Engineering and Control Co-Design of Floating Offshore Wind Turbines  
U.S. Department of Energy  
$771,992  
College of Engineering and Computer Science
Dickerson, Andrew
Tuning Liquid Jet and Splash Dynamics by Deformable and Heterogeneous Boundaries
National Science Foundation
$394,839
College of Engineering and Computer Science

Dove, Adrienne | Colwell, Joshua
Exploring Electrostatic Regolith Interactions in Low-Gravity
NASA Shared Services Center
$404,874
College of Sciences

Duranceau, Steven
Van Fleet and Providence Water Treatment Plant Tray Aeration Enhancements Evaluation
Polk County
$143,236
College of Engineering and Computer Science

Elgohary, Tarek
Charged Particle Dynamics in the Lunar Environment
NASA Shared Services Center
$70,000
College of Engineering and Computer Science

Emrich, Christopher
Assessing Equity in Disaster Recovery Funding
University of Iowa
$97,142
College of Community Innovation and Education

Feng, Xiaofeng
Understanding and Tuning the Electrohydrogenation Mechanisms for Ambient Nitrogen Fixation
National Science Foundation
$372,290
College of Sciences

Feng, Xiaofeng
Ambient Electrocatalytic Activation of Methane towards C2 Oxygenates
American Chemical Society
$110,000
College of Sciences

Gazzillo, Paul
Inferring and Securing Software Configurations through Automated Reasoning
National Science Foundation
$79,902
College of Engineering and Computer Science

Ghosh, Ranajay
Structure-Property on the Outside - The Extreme Mechanics of Tunable Exoskeleton Structures
National Science Foundation
$500,001
College of Engineering and Computer Science
Hines, Rebecca | Azevedo, Roger | Dieker, Lisa
Preparation Through Residencies and Enhanced Partnerships
U.S. Department of Education
$302,748
College of Community Innovation and Education

Hua, Kien
3-D Medical Image Reconstruction Software System for Time-of-Flight Positron Emission Tomography
FloridaMakes, Inc.
$60,000
College of Engineering and Computer Science

Jha, Sumit Kumar
Attributions and Learning Dynamics based Adaptive Defense and Robustness Metric
Defense Advanced Research Projects Agency
$244,000
College of Engineering and Computer Science

Kapat, Jayanta
Kapat Siemens Donation
Siemens Energy Inc.
$100,000
College of Engineering and Computer Science

Kar, Aravinda | Kumar, Ranganathan
Laser-Assisted Silica Nanoparticle Deposition for Additive Manufacturing of Advanced Optics
IRFlex
$57,965
Center for Research and Education in Optics and Lasers

Kibler, Kelly
The Influence of Turbulence to Mass Transport in Complex Aquatic Habitats
National Science Foundation
$112,213
College of Engineering and Computer Science

Labrecque, Ryan
Preparing High-Risk Inmates for Successful Reentry: Development and Evaluation of a Restrictive Housing Step Down Program in Oregon
Charles Koch Foundation
$13,319
College of Community Innovation and Education

Lugo, Ramon
High resolution imaging of radio emissions stimulated by the Arecibo heating facility
Universidad Interamericana de PR, Inc.
$46,750
Florida Space Institute
Moreto, William
2019-2020 UCF Student Support for the Orange County Sheriff's Office
Orange County Sheriff's Office
$72,925
College of Community Innovation and Education

Nobles, Matt
A Multilevel Analysis of Hate Crime Commission Using NCVS and UCR Data
University of Alabama at Tuscaloosa
$17,735
College of Community Innovation and Education

Peppler, Richard
2019 Culinary Medicine Course Support
Florida Beef Council
$31,123
College of Medicine

Qi, Junjian
Deciphering Large-Scale Real Outage Data for Cascading Failure Analysis, Prevention, and Intervention
National Science Foundation
$394,319
College of Engineering and Computer Science

Qu, Zhihua | Zhou, Qun
Unifying Optimization and Control: Data-Driven Adaptive Learning and Real-Time Decision Making
FloridaMakes, Inc.
$141,666
College of Engineering and Computer Science

Rabelo, Luis
Smart and Holistic Agent Management System
National Science Foundation
$50,000
College of Engineering and Computer Science

Renk, Kimberly
Central Florida Foundation - 100 Women Strong
Early Learning Coalition of Orange County
$50,000
College of Sciences

Richardson, Martin | Bernath, Robert
Booz Allen Hamilton Testing
Booz Allen Hamilton, Inc.
$114,503
Center for Research and Education in Optics and Lasers
Rohde, Kyle | Gerasimova, Yulia | Kim, Brian
Point-of-Care Detection of TB and NTM Pathogens with Fluorescent Deoxyribozyme Sensors and 3D-Printed, Battery Powered Device
National Institute of Allergy and Infectious Diseases
$145,321
College of Medicine

Sadmani, A. H. M. Anwar
Removing Per- and Polyfluoroalkyl Substances Using Biosorption Activated Media
Environmental Conservation Solutions, LLC
$23,967
College of Engineering and Computer Science

Santra, Swadeshmukul
Nano-Zinc Coated Urea: An Innovative Approach to Systemic Delivery of Zn-Micronutrient
International Fertilizer Development Center
$30,000
NanoScience Technology Center

Sawyer, Ben D.
Sawyer Monotype Donation
Monotype Imaging, Inc.
$3,157
College of Engineering and Computer Science

Schoenfeld, Winston
TEL Technologies Internship
TEL Technology Center, America, LLC
$72,830
Center for Research and Education in Optics and Lasers

Schrimshaw, Eric
Exchange Sex and HIV Risk Among MSM Online
The Trustees of Columbia University
$65,908
College of Medicine

Seigneur, Hubert
Technical Assistance Statement of Work to Ultrasonic
Ultrasonic Technologies, Inc.
$14,913
Florida Solar Energy Center

Solihin, Yan
Persistent Memory Object Security
Office of Naval Research
$228,850
College of Engineering and Computer Science
Stresau, Kurt
2019-2020 Florida Space Grant Consortium Hybrid Rocket Student Competition
Florida Space Grant Consortium
$1,470
College of Engineering and Computer Science

Vaida, Mihai
Ultrafast Electron and Molecular Dynamics Investigations On 2D Nanostructured Photocatalytic Materials for the Generation of Fuels from Renewable Sources
National Science Foundation
$317,671
College of Sciences

Vela, Adan
Forecasting and Estimating the Impact of Severe Weather on Power Distribution Systems
Oak Ridge Associated Universities
$50,000
College of Engineering and Computer Science

Walters, Joseph
PV Module Testing for Degradation
Florida Power & Light Company
$80,841
Florida Solar Energy Center

Winston, Haley
Volunteer Florida Agreement
Volunteer Florida
$17,582
Student Development and Enrollment Services

Xu, Yunjun
Distributed Co-Robots for Strawberry Harvesting
National Science Foundation
$8,000
College of Engineering and Computer Science

Zhou, Qun
Solar Power Forecasting and NanoGrid Management System
Orlando Utilities Commission
$74,500
College of Engineering and Computer Science