



Monthly New Awards - May 2019

Abdolvand, Reza

Wireless Vibration Micro-Sensors for Non-Intrusive Real Time Monitoring
Lorand Technologies Inc.
\$90,064
College of Engineering and Computer Science

Ahmed, Kareem A.

Jet Engine Passive Optical Sensor
Creare, LLC
\$75,000
College of Engineering and Computer Science

Bubriski, Anne M.

Science Leadership and Mentoring
Wells Fargo Foundation
\$5,000
College of Arts and Humanities

Chen, Bo

Molecular basis of tunable iridescence and excellent proton conductance of the reflectin assembly
National Science Foundation
\$459,145
College of Sciences

Chronister, Anthony V.

2018 Bulletproof vest partnership
Florida Department of Law Enforcement
\$7,707
Administration and Finance

Coffey, Kevin R. / Kaden, William Edward / Mucciolo, Eduardo R. / Schelling, Patrick K.

Thermoelectric phenomena in quasi 1-dimensional metals
Columbia University
\$127,583
Advanced Materials Processing and Analysis Center

Crabbs, Robert F. / Driggers, Ronald G.

SWIR Telescope System
US Air Force
\$301,212
College of Optics and Photonics

Decker, Veronica B.

Impact of Depression on Veterans Newly Diagnosed with Cancer: Understanding the Links
Among Depression, Cancer, Treatment, and Care
UCF Foundation, Inc
\$2,000
College of Nursing

Donaldson Hanna, Kerri

Investigation the Formation and Evolution of the Moon's Anorthositic Crust
NASA Shared Services Center
\$155,500
College of Sciences

Driggers, Ronald G. / Crabbs, Robert F. / Renshaw, Christopher Kyle

Multi-UAS/Multi-Sensor Scout Operations
General Technical Services
\$155,839
College of Optics and Photonics

Driggers, Ronald G. / Mahalanobis, Abhijit / Shah, Mubarak A.

Machine Learning/Artificial Intelligence for Combat Vehicle Navigation and UAV Scout
Operations
General Technical Services
\$199,794
College of Optics and Photonics

Eluru, Naveen / Abdel-Aty, Mohamed A. / Lee, JaeYoung

Development and Application of Crash Severity Models for the Highway Safety Manual
University of Connecticut
\$200,000
College of Engineering and Computer Science

Emrich, Christopher

Hurricane Michael Impacts and Unmet Needs in Bay County, FL
Hagerty Consulting, Inc.
\$6,463
College of Community Innovation and Education

Fu, Qiushi

Katy Odette Link Foundation Fellowship
Link Foundation
\$29,500
College of Engineering and Computer Science

Hagan, David J.

Non-Linear Measurements
Lawrence Livermore National Laboratory
\$25,000
College of Optics and Photonics

Hara, Tadayuki / Breiter Terry, Deborah

Research on MICE-related curriculum at Higher Educational Institutes Outside of Japan –
Related to program in the USA
Nomura Research Institute, LTD
\$13,200
Rosen College of Hospitality Management

Jha, Sumit K.

Automated Design of Adversarial Fingerprints and Robust Fingerprint Detection Algorithms:
Extensions to Facial Recognition
Royal Bank of Canada
\$55,249
College of Engineering and Computer Science

Kuebler, Stephen M.

Fundamental Study of Lens-Embedded Spatially-Variant Photonic Crystals
US Air Force Research Laboratory
\$60,192
College of Optics and Photonics

Lasrado, Vernet Michael

FloridaMakes Manufacturing Extension Partnership Cooperative Agreement
FloridaMakes, Inc
\$500,000
Office of Research and Commercialization

Lee, Woo Hyoung / Jung, YeonWoong

Phase 2: A Novel 2D MoS₂ Sponge Oil-Water Separator
US Environmental Protection Agency
\$75,000
College of Engineering and Computer Science

Li, Guifang

High-Speed Frequency-Hopping Free-Space Optical Communication
US Army Contracting Command
\$151,196
College of Optics and Photonics

Lighthall, Nichole

Improving Investment Decision Making in Older adults
Learning Institute for Elders, The
\$5,710
College of Sciences

Lighthall, Nichole

Research Network on Decision Neuroscience and Aging
Duke University
\$23,019
College of Sciences

Lindo, Jascinth Lorna Mae

Readiness for discharge among hospitalized patients diagnosed with chronic diseases in
Trinidad and Tobago and Jamaica
UCF Foundation, Inc
\$500
College of Nursing

Liu, Fudong

Property Tuning of Metal Oxides to Achieve High NO_x Removal Efficiency in NH₃-SCR
Reaction for Diesel Emission Control
BASF Corporation
\$70,000
College of Engineering and Computer Science

Lyakh, Arkadiy

Incoherent Arrays of High Power QCLs
Attollo Engineering, LLC
\$42,000
NanoScience Technology Center

McKinstry, Karl Kai

Control of CD4 T cell effector function and tissue-resident memory fate by the transcription
factor Eomes
National Institute of Allergy and Infectious Diseases
\$223,500
College of Medicine

Mohapatra, Ram N.

Investigations in Applicable Analysis
Mohapatra Family Foundation
\$160,000
College of Sciences

Moore, Sean / Andl, Claudia D.

Defining the effect of e-cigarette vape on host-microbe interaction in the oral cavity (Fellowship
for Alma-Rubi Catala-Valentin)
National Institute of Dental and Craniofacial Research
\$62,900
College of Medicine

O'Neal, Thomas P.

OUC MegaWatt Ventures 2019 Competition Sponsorship
Orlando Utilities Commission
\$50,000
College of Engineering and Computer Science

Pourmohammadi Fallah, Yaser

LTE CV2X Communication Emulator for Connected Vehicle Application Development
Ford Motor Company
\$50,000
College of Engineering and Computer Science

Rohde, Kyle

RF: Understanding WhiB7-mediated Multidrug Resistance in M. abscessus
Cystic Fibrosis Foundation
\$107,920
College of Medicine

Schulzgen, Axel

Anti-resonant Hollow Core Fiber for High Power and MWIR
Pennsylvania State University
\$23,098
College of Optics and Photonics

Seal, Sudipta

Roadside Fog Detection Sensor
Florida Department of Transportation
\$350,000
Advanced Materials Processing and Analysis Center

Seal, Sudipta

Nano-Micro technologies for Circular economy, Commercialization, and Sustainability in the East Asia Pacific
National Science Foundation
\$48,546
Advanced Materials Processing and Analysis Center

Shah, Mubarak A. / Rahnavard, Nazanin

Subcontract on Deep Intermodal Video Analytics
University of Maryland/College Park
\$357,204
Center for Research in Computer Vision

Sohn, Yongho / Zhou, Le

Wireless High Temperature Sensors for Real-Time Monitoring of Gas Turbine Engines
Sensatek Propulsion Technology, Inc
\$100,000
Advanced Materials Processing and Analysis Center

Song, Zixia

Hadwiger's Conjecture and Ramsey Related Problems
National Science Foundation
\$46,360
College of Sciences

Southwell, Amber Lee

Breeding and maintenance of Hu97/18 HD model mice
Skyhawk Therapeutics, Inc.
\$152,262
College of Medicine

Stubbs, Jack

Nemours - Task Order #1
Nemours Foundation, The
\$11,682
Institute for Simulation and Training

Vasu Sumathi, Subith

High-Fidelity Design Support Tool for Supercritical CO2 Oxy-Combustors
Combustion Research and Flow Technology, Inc.
\$55,000
College of Engineering and Computer Science

Wahl, Thomas

NSFGEO-NERC: CHANCE - Understanding compound flooding
National Science Foundation
\$252,243
College of Engineering and Computer Science

Wahl, Thomas

PREEVENTS Track 2: Collaborative Research: Geomorphic Versus Climatic Drivers of
Changing Coastal Flood Risk
National Science Foundation
\$148,603
College of Engineering and Computer Science

Walters, Joseph W.

Reliability Evaluation of Bifacial and Monofacial Glass/Glass Modules with EVA and non-EVA
Encapsulants
Arizona State University
\$135,000
Florida Solar Energy Center

Watson, Keri W. / Burrell, Jason E / Lester, Connie L. / Lindsey, Shannon Rae

Illuminating the Darkness: Our Carceral Landscape - Inside Out Art Program
National Endowment for the Arts
\$50,000
College of Arts and Humanities

Wilson, Bruce M.

Supplement: Elevating water rights to human rights: Has it strengthened marginalized peoples'
claim for water?
Chr. Michelsen Institute
\$67,180
College of Sciences