



UNIVERSITY OF  
CENTRAL FLORIDA

## Monthly New Awards - July 2018

### **Awad, Dr. Amro J.**

CSR:Small: Rethinking Filesystem Encryption and Auditing in the Era of Byte-Addressable Non-Volatile Memories (ID: 1063774)

National Science Foundation (NSF)

\$303,801

College of Engineering and Computer Science (CECS) - Department of Electrical and Computer Engineering

### **Awad, Dr. Amro J.**

Enabling Deterministic Behavior in Virtualized Multi-Core Environments (ID: 1063975)

Naval Surface Warfare Center

\$413,729

College of Engineering and Computer Science (CECS) - Department of Electrical and Computer Engineering

### **BHATTACHARYA, SAMIK / Kauffman, Dr. Jeffrey**

The fluid-structure interactions in high-stiffness aviation equipped with modular morphing capabilities (ID: 1066075)

Office of Naval Research

\$249,900

College of Engineering and Computer Science (CECS) - Mechanical and Aerospace Engineering /  
College of Engineering and Computer Science (CECS) - Mechanical and Aerospace Engineering

### **Bridge, Candice M.**

Public Service to the Federal Public Defender's Office (ID: 1065534)

Federal Public Defender

\$523

College of Sciences - Chemistry / College of Sciences - National Center for Forensic Science

### **Brunell, Mrs. Mary Lou F.**

RF: Healthcare Workforce Research Initiative (ID: 1066284)

Various

\$500

College of Health Professions and Sciences (CHPS) - CHPS Dean's Office

### **Brunell, Mrs. Mary Lou F.**

RF: HWRI Governance and Policy Workgroup and Summit (ID: 1066281)

CareerSource Florida

\$25,000

College of Health Professions and Sciences (CHPS) - CHPS Dean's Office

**Carnaby, Giselle / Crary, Michael**

RF: Swallowing Function in the Community Dwelling (ID: 1066265)

Learning Institute for Elders at UCF

\$6,900

College of Health Professions and Sciences (CHPS) - Communication Sciences and Disorders / College of Health Professions and Sciences (CHPS) - Communication Sciences and Disorders

**Chumbimuni Torres, Dr. Karin Yanet**

Internationalization Program for STEM-Students through Learning and Research Experiences (ID: 1063554)

100,000 Strong in the Americas Innovation Fund

\$14,500

College of Sciences - Chemistry

**Chumbimuni Torres, Dr. Karin Yanet**

Internationalization Program for STEM-Students through learning and research Experiences (ID: 1066260)

Partners of the Americas

\$10,500

College of Sciences - Chemistry

**Coffey, Dr. Kevin R. / Jiang, Tengfei / Kaden, William Edward / Mucciolo, Dr. Eduardo R / Schelling, Dr. Patrick K.**

E2CDA: Collaborative Research: Type I: Interconnects Beyond Cu (ID: 1063140)

Semiconductor Research Corporation

\$36,675

Advanced Materials Processing and Analysis Center (AMPAC) - Advanced Materials Processing and Analysis Center (AMPAC) / Advanced Materials Processing and Analysis Center (AMPAC) - Advanced Materials Processing and Analysis Center (AMPAC) / College of Sciences - Physics

**Copik, Dr. Alicja**

Research collaboration with CytoSen - Task Order #2 (ID: 1065885)

Cyto-Sen Therapeutics, Inc.

\$45,068

College of Medicine - School of Biomedical Science - Director Office

**DeMara, Dr. Ronald F.**

Probabilistic Spin Logic for Low-Energy Boolean and Non-Boolean Computing (ID: 1066172)

Purdue University

\$31,750

College of Engineering and Computer Science (CECS) - Department of Electrical and Computer Engineering

**Duranceau, Dr. Steven J.**

Northeast Regional Utility Service Area (NERUSA) Water Quality & Treatment Plan (ID: 1066034)  
Polk County  
\$25,617  
College of Engineering and Computer Science (CECS) - Civil, Environmental, and Construction Engineering

**Emrich, Christopher**

RF: Disaster Solutions Postdoc (ID: 1066242)  
Horne, LLP  
\$44,410  
College of Community Innovation and Education (CCIE) - Public Administration / Faculty Cluster Initiative - Sustainable Coastal Systems

**Fan, Deliang**

E2CDA: Type II: Non-Volatile In-Memory Processing Unit: Memory, In-Memory Logic and Deep Neural Network (ID: 1063238)  
Semiconductor Research Corporation  
\$92,235  
College of Engineering and Computer Science (CECS) - Department of Electrical and Computer Engineering

**Gazzillo, Dr. Paul**

SHF: Small: Collaborative Research: Static Analysis Infrastructure for Variability-Aware Bug Detection and Translation of Highly-Configurable Software Systems (ID: 1066004)  
National Science Foundation (NSF)  
\$229,087  
College of Engineering and Computer Science (CECS) - Department of Computer Science

**Gordon, Dr. Ali P.**

PSM: Development of Streamlined Parameter Estimation Methods and Application of Viscoplasticity Models to Components (Phase VI) (ID: 1063072)  
Power Systems Manufacturing, LLC  
\$30,000  
College of Engineering and Computer Science (CECS) - Mechanical and Aerospace Engineering

**Han, Dr. Kyu Young / Khjavikhan, Dr. Mercedeh**

High-speed and minimally photo-damaging STED microscopy using nanolaser arrays (ID: 1063636)  
National Science Foundation (NSF)  
\$300,000  
College of Optics and Photonics - CREOL / College of Optics and Photonics - CREOL

**Hardy, Duncan**

Cambridge Title A Fellowship (ID: 1066234)  
Trinity College Cambridge  
\$30,000  
College of Arts and Humanities - History

**Harris, Shana**

McKnight Junior Faculty Development Fellowship (ID: 1065137)

Florida Education Fund

\$15,000

College of Sciences - Anthropology

**Hickman, Dr. James Joseph**

Human on a chip systems to investigate disease comorbidities common in the aged population (ID: 1063356)

Hesperos, Inc

\$70,000

NanoScience Technology Center - NanoScience Technology Center

**Hoffman, Dr. Eric**

Evaluating Mole Skink and Salt Marsh Snake Sub-Specific Taxonomy in Florida Using Genomics (ID: 1065652)

Florida Fish and Wildlife Conservation Commission

\$14,250

College of Sciences - Biology

**Jha, Dr Sumit K.**

SPX: Collaborative Research: Automated Synthesis of Extreme-Scale Computing Systems Using Non-volatile Memory (ID: 1065085)

National Science Foundation (NSF)

\$500,000

College of Engineering and Computer Science (CECS) - Department of Computer Science

**Kassab, Dr. Alain J.**

RF: CML Project Support- 2018 cluster upgrade (ID: 1066291)

Orlando Health Foundation

\$12,000

College of Engineering and Computer Science (CECS) - Mechanical and Aerospace Engineering

**Dieker, Dr. Lisa A.**

IRIS Center and Technology Innovation Post Doctoral Scholar (ID: 1065421)

Vanderbilt University

\$49,680

College of Community Innovation and Education (CCIE) - Counseling Education

**Leavens, Dr. Gary T.**

SHF: ESEC/FSE 2018 Doctoral Consortium, Mentorship, and Conference Travel Support (ID: 1065780)

National Science Foundation (NSF)

\$33,952

College of Engineering and Computer Science (CECS) - Department of Computer Science / Faculty Cluster Initiative - Cyber Security and Privacy

**Martin, Mr. Eric D. / Fenaughty, Karen F. / McIlvaine, Mrs. Janet R. / Parker, Mr. Danny S.**

3rd Party Cash for 20126142: Using Supplemental Mini-Split Heat Pumps to Improve Comfort and Efficiency in Low-Load Existing Homes (ID: 1066290)

Mitsubishi Electric Cooling & Heating

\$1,285

Florida Solar Energy Center (FSEC) - FSEC / Florida Solar Energy Center (FSEC) – FSEC

**O'Neal, Dr. Thomas P.**

RF: Veterans Florida Entrepreneurship Program 2018-2019 (ID: 1065854)

Veterans Florida

\$75,000

College of Engineering and Computer Science (CECS) - Industrial Engineering and Management Systems / Office of Research and Commercialization - Office of Research and Commercialization

**Pasarica, Magdalena**

Obesity management training program for health professionals: using active learning techniques to improve patient outcome (ID: 1065693)

MetaboLogix, LLC

\$3,500

College of Medicine - Medical Education

**Raghavan, Dr. Seetha**

Non-destructive technique design survey and development for aerospace corrosion detection (ID: 1065665)

Textron Systems Corporation

\$50,000

College of Engineering and Computer Science (CECS) - Mechanical and Aerospace Engineering

**Reinerman, Dr. Lauren / Barber, Dr. Daniel J.**

Physiological Response During Fuel Rod Transfer Training (ID: 1065619)

Westinghouse Electric Company, LCC

\$25,000

Institute for Simulation and Training (IST) - Prodigy Lab / Institute for Simulation and Training (IST) - Prodigy Lab

**Santra, Dr. Swadeshmukul**

NANO/MISA - UCF Foundation Gifts (ID: 1066154)

UCF Foundation, Inc

\$5,000

NanoScience Technology Center - NanoScience Technology Center

**Santra, Dr. Swadeshmukul**

Nano-Zinc coated urea: an innovative approach to systemic delivery of Zn micronutrient (ID: 1065946)

IFDC

\$52,500

College of Sciences - Chemistry / NanoScience Technology Center - NanoScience Technology Center

**Southwell, Amber Lee**

Investigating a connection between age and paternal germline repeat instability of the Huntington disease gene via progerin-induced aging of iPSC-derived sperm cells (Fellowship for Jacob Friedman) (ID: 1065687)

Huntington's Disease Society of America

\$4,500

College of Medicine - School of Biomedical Science - Director Office

**Phanstiel, Dr. Otto / Altomare, Dr. Deborah A.**

Developing Polyamine Transport Inhibitors for the Treatment of Human Cancers (ID: 1063219)

Florida Department of Health

\$815,284

College of Medicine - Medical Education / College of Medicine - School of Biomedical Science - Director Office

**Uitti, Andrea Uitti / Brunell, Mrs. Mary Lou F.**

Lupus Project Evaluation (ID: 1065122)

Big Bend Rural Health Network

\$5,000

College of Health Professions and Sciences (CHPS) - CHPS Dean's Office / College of Health Professions and Sciences (CHPS) - CHPS Dean's Office

**Vanryckeghem, Dr. Martine**

RF: Stuttering Research (ID: 1066287)

Frederick P Murray

\$10,000

College of Health Professions and Sciences (CHPS) - Communication Sciences and Disorders

**Wahl, Dr. Thomas**

Modelling global storm surges in the past, present, and future and the associated socio-economic impacts (ID: 1063289)

NASA Shared Services Center (NSSC)

\$18,043

College of Engineering and Computer Science (CECS) - Civil, Environmental, and Construction Engineering / Faculty Cluster Initiative - Sustainable Coastal Systems

**Wisniewski, Dr. Pamela**

A Community-based Approach to Co-Managing Privacy and Security for Mozilla's Web of Things (ID: 1065761)

Mozilla

\$45,000

College of Engineering and Computer Science (CECS) - Department of Computer Science

**Wisniewski, Dr. Pamela**

Reducing Digital Inequality by Empowering At-Risk Youth to be Resilient against Online Sexual Predation Risks (ID: 1063027)

William T. Grant Foundation

\$350,000

College of Engineering and Computer Science (CECS) - Department of Computer Science

**Xia, Dr Xiaohu**

CAREER: Engineering Bimetallic Nanostructures as Peroxidase Mimics for Diagnostic Applications (ID: 1065607)

National Science Foundation (NSF)

\$426,706

College of Sciences – Chemistry

**Xia, Dr. Xiaohu**

Collaborative Research: An Enzyme-free Amplification Technique for Ultrasensitive ELISA of Disease Biomarkers (ID: 1065709)

National Science Foundation (NSF)

\$212,425

College of Sciences - Chemistry