



Monthly New Awards – July 2018

Awad, Amro J

CSR: Small: Rethinking Filesystem Encryption and Auditing in the Era of Byte-Addressable Non-Volatile Memories
National Science Foundation
\$303,801
College of Engineering and Computer Science

Awad, Amro J

Enabling Deterministic Behavior in Virtualized Multi-Core Environments
Naval Surface Warfare Center
\$413,729
College of Engineering and Computer Science

Bhattacharya, Samik/ Kauffman, Jeffrey

The fluid-structure interactions in high-stiffness aviation equipped with modular morphing capabilities
Office of Naval Research
\$249,900
College of Engineering and Computer Science

Bridge, Candice M

Public Service to the Federal Public Defender's Office
Federal Public Defender
\$523
College of Sciences

Brunell, Mary Lou F

RF: Healthcare Workforce Research Initiative
Various
\$500
College of Health Professions and Sciences

Brunell, Mary Lou F

RF: HWRI Governance and Policy Workgroup and Summit
CareerSource Florida
\$25,000
College of Health Professions and Sciences

Carnaby, Giselle / Crary, Michael

RF: Swallowing Function in the Community Dwelling
Learning Institute for Elders at UCF

\$6,900

College of Health Professions and Sciences

Chumbimuni Torres, Karin Yanet

Internationalization Program for STEM -Students through Learning and Research Experiences

100,000 Strong in the Americas Innovation Fund

\$14,500

College of Sciences

Chumbimuni Torres, Karin Yanet

Internationalization Program for STEM-Students through learning and research Experiences

Partners of the Americas

\$10,500

College of Sciences

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

E2CDA: Collaborative Research: Type I: Interconnects Beyond Cu

Semiconductor Research Corporation

\$36,675

Advanced Materials Processing and Analysis Center

Copik, Alicja

Research collaboration with CytoSen -Task Order #2

Cyto-Sen Therapeutics, Inc.

\$45,068

College of Medicine

DeMara, Ronald F

Probabilistic Spin Logic for Low-Energy Boolean and Non-Boolean Computing

Purdue University

\$31,750

College of Engineering and Computer Science

Duranceau, Steven J

Northeast Regional Utility Service Area (NERUSA) Water Quality & Treatment Plan Polk County

\$25,617

College of Engineering and Computer Science

Emrich, Christopher

RF: Disaster Solutions Postdoc

Horne, LLP

\$44,410

College of Community Innovation and Education

Fan, Deliang

E2CDA: Type II: Non-Volatile In-Memory Processing Unit: Memory, In-

Memory Logic and Deep Neural Network

Semiconductor Research Corporation

\$92,235

College of Engineering and Computer Science

Gazzillo, Paul

SHF: Small: Collaborative Research: Static Analysis Infrastructure for Variability-Aware Bug Detection and Translation of Highly-Configurable Software Systems

National Science Foundation

\$229,087

College of Engineering and Computer Science

Gordon, Ali P

PSM: Development of Streamlined Parameter Estimation Methods and Application of Viscoplasticity Models to Components (Phase VI)

Power Systems Manufacturing, LLC

\$30,000

College of Engineering and Computer Science

Han, Kyu Young / Khajavikhan, Mercedeh

High-speed and minimally photo-damaging STED microscopy using nanolaser arrays

National Science Foundation

\$300,000

College of Optics and Photonics

Hardy, Duncan

Cambridge Title A Fellowship

Trinity College Cambridge

\$30,000

College of Arts and Humanities

Harris, Shana

McKnight Junior Faculty Development Fellowship

Florida Education Fund

\$15,000

College of Sciences

Hickman, James Joseph

Human on a chip systems to investigate disease comorbidities common in the aged population

Hesperos, Inc

\$70,000

NanoScience Technology Center

Hoffman, Eric

Evaluating Mole Skink and Salt Marsh Snake Sub Specific Taxonomy in Florida Using Genomics

Florida Fish and Wildlife Conservation Commission

\$14,250

College of Sciences

Jha, Sumit K

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

National Science Foundation

\$500,000

College of Engineering and Computer Science

Kassab, Alain J

RF: CML Project Support-2018 cluster upgrade
Orlando Health Foundation
\$12,000
College of Engineering and Computer Science

Dieker, Lisa A

IRIS Center and Technology Innovation Post Doctoral Scholar
Vanderbilt University
\$49,680
College of Community Innovation and Education

Leavens, Gary T

SHF: ESEC/FSE 2018 Doctoral Consortium, Mentorship, and Conference Travel Support
National Science Foundation
\$33,952
College of Engineering and Computer Science

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
Mitsubishi Electric Cooling & Heating
\$1,285
Florida Solar Energy Center

O'Neal, Thomas P

RF: Veterans Florida Entrepreneurship Program 2018-2019
Veterans Florida
\$75,000
College of Engineering and Computer Science

Pasarica, Magdalena

Obesity management training program for health professionals: using active learning techniques
to improve patient outcome
MetaboLogix, LLC
\$3,500
College of Medicine

Raghavan, Seetha

Non-destructive technique design survey and development for aerospace corrosion detection
Textron Systems Corporation
\$50,000
College of Engineering and Computer Science

Reinerman, Lauren / Barber, Daniel J

Physiological Response During Fuel Rod Transfer Training Westinghouse Electric Company,
LCC
\$25,000
Institute for Simulation and Training

Santra, Swadeshmukul

NANO/MISA -UCF Foundation Gifts
UCF Foundation, Inc
\$5,000
NanoScience Technology Center

Santra, Swadeshmukul

Nano-Zinc coated urea: an innovative approach to systemic delivery of Znmicronutrient
IFDC
\$52,500
College of Sciences

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
Huntington's Disease Society of America
\$4,500
College of Medicine

Phanstiel, Otto / Altomare, Deborah A

Developing Polyamine Transport Inhibitors for the Treatment of Human Cancers
Florida Department of Health
\$815,284
College of Medicine

Uitti, Andrea Uitti / Brunell, Mary Lou F

Lupus Project Evaluation Big Bend Rural Health Network
\$5,000
College of Health Professions and Sciences

Vanryckeghem, Martine

RF: Stuttering Research
Frederick P Murray
\$10,000
College of Health Professions and Sciences

Wahl, Thomas

Modelling global storm surges in the past, present, and future and the associated socio-
economic Impacts
NASA Shared Services Center
\$18,043
College of Engineering and Computer Science

Wisniewski, Pamela

A Community-based Approach to Co-Managing Privacy and Security for Mozilla's Web of
Things
Mozilla
\$45,000
College of Engineering and Computer Science

Wisniewski, Pamela

Reducing Digital Inequality by Empowering At-Risk Youth to be Resilient against Online Sexual Predation Risks

William T. Grant Foundation

\$350,000

College of Engineering and Computer Science

Xia, Xiaohu

CAREER: Engineering Bimetallic Nanostructures as Peroxidase Mimics for Diagnostic Applications

National Science Foundation

\$426,706

Xia, Xiaohu

Collaborative Research: An Enzyme-free Amplification Technique for Ultrasensitive ELISA of Disease Biomarkers

National Science Foundation

\$212,425

College of Sciences