



UNIVERSITY OF
CENTRAL FLORIDA

Monthly New Awards - April 2018

Abdel-Aty, Dr. Mohamed A. / Hasan, Samiul

Pre-Deployment Study for the Connecting the East Orlando Communities Project (ID: 1065567)

Florida Department of Transportation (FDOT)

\$100,000

College of Engineering and Computer Science (CECS) - Civil, Environmental, and Construction Engineering / College of Engineering and Computer Science (CECS) - Civil, Environmental, and Construction Engineering

Branting, Scott / Lehner, Joseph William

Kerkenes Project 2018 (ID: 1063987)

The Merops Foundation

\$38,500

College of Sciences - Anthropology / College of Sciences - Anthropology

Bryer, Dr. Thomas

Analysis and Executive Reporting of Children's Needs Assessments in Orange County, Florida (ID: 1065500)

Winter Park Health Foundation

\$5,000

College of Health and Public Affairs (COHPA) - Public Administration

Burns, Dr. Teresa

2018 PEPASA (ID: 1065300)

University of South Florida

\$16,600

College of Health and Public Affairs (COHPA) - COHPA Dean's Office

Choi, Mrs. Eun M.

SBDC Lake County (ID: 1063963)

Lake County

\$150,000

Office of Research and Commercialization - Small Business Development Center (SBDC)

Christodoulides, Dr. Demetrios N.

Parity-Time Symmetric and Non-Hermitian Photonic Structures (ID: 1064055)

Office of Naval Research

\$300,000

College of Optics and Photonics - CREOL

Crabbs, Mr. Robert F.

Testing Support for Next Gen MILES (ID: 1063626)

Inertial Labs, Inc

\$297,600

College of Optics and Photonics - CREOL

Divliansky, Dr. Ivan / Glebov, Dr. Leonid B.

Spectral Beam Combining of Multi-Kilowatt Class Lasers by Volume Bragg Gratings (ID: 1065086)

IPG Photonics

\$290,000

College of Optics and Photonics - CREOL / College of Optics and Photonics - CREOL

Dogariu, Dr. Aristide

Stochastic Electromagnetics for Active Sensing (ID: 1063941)

Office of Naval Research

\$601,608

College of Optics and Photonics - CREOL

Duranceau, Dr. Steven J. / Sadmani, A H M Anwar

Drinking Water Quality, Treatment and Distribution System Operations Research and Environmental Engineering Studies (ID: 1061491)

City of Sarasota

\$197,264

College of Engineering and Computer Science (CECS) - Civil, Environmental, and Construction Engineering / College of Engineering and Computer Science (CECS) - Civil, Environmental, and Construction Engineering

Fernandez-Valle, Dr. Cristina M. / Soulakova, Julia N.

Co-targeting FAK and PI3K for NF2 Schwannomas (ID: 1062751)

National Institutes of Health (NIH)

\$462,161

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

Forlaw, Dr. Loretta

ABC, What can I eat? Using the Virtual Reality Grocery with Parents of Preschoolers (ID: 1063930)

Healthy Central Florida

\$1,649

College of Nursing - Nursing

Georgiopoulos, Dr. Michael

FLIT-YES: ACT-Chargers (ID: 1062862)

Advanced Charging Technologies, Inc.

\$10,000

College of Engineering and Computer Science (CECS) - CECS Deans Office

Hamann, Dr. Kerstin

Getting to Know Europe (ID: 1065525)

Florida International University

\$3,000

College of Sciences - Political Science

Hawthorne, Timothy Lee

RF: Diocese of Orlando Boundary Mapping Project- Phase II (ID: 1065742)

Diocese of Orlando

\$1,500

College of Sciences - Sociology

Kapat, Dr. Jayanta S. / Ghosh, Ranajay / Gou, Dr. Jihua / Raghavan, Dr. Seetha

SEC Project: Material Selection and Characterization for Vacuum Pressure Impregnation of Consolidated Coils (ID: 1065229)

Siemens Energy, Inc.

\$33,463

College of Engineering and Computer Science (CECS) - Center for Advanced Turbomachinery and Energy Research (CATER) / College of Engineering and Computer Science (CECS) - Center for Advanced Turbomachinery and Energy Research (CATER)

Kapucu, Dr. Naim

RAPID: Role of Extending, Expanding, and Emergent Groups in Relief Distribution Efforts in the Aftermath of Hurricanes Harvey, Irma, and Maria (ID: 1063737)

National Science Foundation (NSF)

\$14,999

College of Health and Public Affairs (COHPA) - Public Administration

Kauffman, Dr. Jeffrey

Dynamic Assessment of Honeycomb Wear (ID: 1065476)

Ansaldo Energia

\$25,000

College of Engineering and Computer Science (CECS) - Center for Advanced Turbomachinery and Energy Research (CATER)

Kim, Dr. Yoon-Seong

Developing aptamer-based blood-brain-barrier (BBB) penetration for the therapeutic application of neurologic conditions (ID: 1065354)

Nexmos Co., Ltd.

\$350,000

College of Medicine - School of Biomedical Science - Director Office

King, Joshua Riley

Insect services and disservices: impacts of dung beetles and fire ants on central Florida ranchlands (ID: 1062971)

US Department of Agriculture/National Institute of Food and Agriculture

\$450,000

College of Sciences - Biology

Kotnour, Dr. Timothy G.

Power Systems Manufacturing Leadership Program (ID: 1062792)

Power Systems Manufacturing, LLC

\$15,000

College of Engineering and Computer Science (CECS) - Industrial Engineering and Management Systems

Lighthall, Dr. Nichole

Research Network on Decision Neuroscience and Aging (ID: 1062694)

Duke University

\$59,185

College of Sciences - Psychology

Mansfield, Katherine / Seney, Erin E.

2018 Post-Construction South Reach Sea Turtle Nesting Surveys (ID: 1065620)

US Army Corps of Engineers

\$88,047

College of Sciences - Biology / College of Sciences - Biology

Metcalf, Dr. David S. / Eakins, Mr. Michael J. / Hamilton, Angela Catherine

2-Step Clean Application (ID: 1065294)

Systems Kinetics Integration Inc. (SYSKIN)

\$38,741

Institute for Simulation and Training (IST) - Mixed Emerging Technology Integration Lab / Institute for Simulation and Training (IST) - Mixed Emerging Technology Integration Lab

Metcalf, Dr. David S. / Eakins, Mr. Michael J. / Hamilton, Angela Catherine

RF: Apps Annual: Wearables and IoT for Healthy Aging (ID: 1065128)

Winter Park Health Foundation

\$50,000

Institute for Simulation and Training (IST) - Mixed Emerging Technology Integration Lab / Institute for Simulation and Training (IST) - Mixed Emerging Technology Integration Lab

Naser, Dr. Saleh A.

Services Agreement - Sample Analysis on MAP cnPCR-sequencing (ID: 1065167)

RedHill Biopharma LTD

\$151,060

College of Medicine - School of Biomedical Science - Director Office

Omli, Steven T. / Wan, Dr. Thomas

RF: Harmony Translation Health Study Project- HTHS (ID: 1065750)

UCF Foundation, Inc

\$0

College of Medicine - Medicine Administration and Finance / College of Health and Public Affairs (COHPA) - Health Management and Informatics

O'Neal, Dr. Thomas P.

RF: BIP Anniversary Sponsorship (ID: 1065749)

Various

\$1

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

O'Neal, Dr. Thomas P.

RF: Innovation Challenge Sponsorship 2018 (ID: 1065688)

The Cairns Foundation, Inc.

\$15,750

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

Pal, Sudeshna / Golden, Dr. Adam / Kassab, Dr. Alain J / Pabian, Patrick S. / Ross, Edward Allan / Steiner, Dr. Mark W.

A Biodesign Program in Rehabilitation Engineering (ID: 1062802)

National Institutes of Health (NIH)

\$42,623

College of Engineering and Computer Science (CECS) - Mechanical and Aerospace Engineering / College of
Engineering and Computer Science (CECS) - Mechanical and Aerospace Engineering / College of Health
and Public Affairs (COHPA) - Health Professions / College of Medicine - Internal Medicine

Phanstiel, Dr. Otto

Development of Spermine Pro-drugs (ID: 1065202)

The Snyder-Robinson Foundation

\$12,000

College of Medicine - Medical Education

Sonne, Mr. Jeffrey K.

Blower Door Air Leakage Testing Guide for Florida Code (ID: 1063096)

Building A Safer Florida, Inc.

\$10,000

Florida Solar Energy Center (FSEC) - FSEC

Steiner, Dr. Mark W. / Stresau, Kurt Stephen / Tian, Tian

PSM MAE Engineering Design Program Support (ID: 1062820)

Power Systems Manufacturing, LLC

\$10,000

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

Stewart, James C. / Arnold, Dr. Elizabeth M.

Evaluation of the Children's Mental Health Initiative of Orange County, FL (ID: 1063896)

Orange County Board of County Commissioners

\$99,461

College of Health and Public Affairs (COHPA) - Social Work / College of Health and Public Affairs (COHPA) -
Social Work

Teter, Dr. Kenneth R. / Chen, Dr. Bo / Tatulian, Dr. Suren A.

Protein Disulfide Isomerase Uses Conditional Disorder as a Disaggregase Mechanism to Detoxify Amyloid Beta Fibrils (ID: 1063220)

Florida Department of Health

\$200,000

College of Medicine - School of Biomedical Science - Director Office / College of Sciences - Physics

Tezcur, Gunes Murat

After the last "Firman:" Victimhood, Survival and Societal Transformation among the Yazidis (ID: 1063624)

University of Notre Dame

\$6,000

College of Sciences - Political Science

Vaidyanathan, Dr. Rajan

DOMinATE (Deployable Optical Membrane Telescope (ID: 1063383)

Northwestern University

\$76,508

Advanced Materials Processing and Analysis Center (AMPAC) - Advanced Materials Processing and Analysis Center (AMPAC)

Vasu Sumathi, Subith / Kapat, Dr. Jayanta S. / Peles, Yoav

Heat transfer mechanisms in supercritical CO₂ flows near the critical point — length scale effects (ID: 1065428)

Office of Naval Research

\$601,421

College of Engineering and Computer Science (CECS) - Center for Advanced Turbomachinery and Energy Research (CATER) / College of Engineering and Computer Science (CECS) - Center for Advanced Turbomachinery and Energy Research (CATER) / College of Engineering and Computer Science (CECS) - Mechanical and Aerospace Engineering

Vodopyanov, Dr. Konstantin L.

DURIP: Stabilized femtosecond dual-comb fiber laser system as a pump source for the mid-IR frequency-comb standoff chemical sensor (ID: 1063021)

Office of Naval Research

\$349,804

College of Optics and Photonics - CREOL

Wahid, Dr. Parveen F. / Chaudhry, Shafaq B.

RF: Central FL NCWIT Aspirations in Computing Awards (ID: 1065689)

Various

\$1

College of Engineering and Computer Science (CECS) - Department of Electrical and Computer Engineering / Office of Research and Commercialization - Office of Research and Commercialization

Weishampel, Dr. John F.

RF: Data Processing for Shoreline Characterization data in the Northern Coastal Basins (ID: 1063929)

Florida Fish and Wildlife Conservation Commission

\$19,028

College of Sciences - Biology / Graduate Studies - Graduate Studies

Zhang, Wei

CRII: III: Computational Methods to Explore the Role of Post-transcriptional Regulation in Cancer (ID: 1063204)

National Science Foundation (NSF)

\$171,021

College of Engineering and Computer Science (CECS) - Department of Computer Science / Faculty Cluster Initiative - Genomics and Bioinformatics



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Monthly New Awards - May 2018

Ahmed, Kareem A.

SEC: Supersonic Normal Shock Control (ID: 1065560)

Siemens Energy, Inc.

\$40,017

College of Engineering and Computer Science (CECS) - Center for Advanced Turbomachinery and Energy Research (CATER) / College of Engineering and Computer Science (CECS) - Mechanical and Aerospace Engineering

Bryer, Dr. Thomas / Hu, Qian

Analysis of Data, Service Needs, and Service Availability Related to Puerto Rican Evacuees in Orange, Osceola, and Seminole Counties, Florida (ID: 1065574)

Heart of Florida United Way

\$34,999

College of Health and Public Affairs (COHPA) - Public Administration / College of Health and Public Affairs (COHPA) - Public Administration

Burns, Dr. Teresa

2017 CARD DVR Project (ID: 1062563)

Florida Department of Education

\$4,352

College of Health and Public Affairs (COHPA) - COHPA Dean's Office

Chasar, Mr. David A.

Energy Analysis and Performance Testing of Multifamily Dwellings (ID: 1063994)

Atlantic Housing Partners

\$35,000

Florida Solar Energy Center (FSEC) - FSEC

Chow, Dr. Louis C.

Thermal Management of Electromechanical Actuators (ID: 1062005)

North Carolina A&T State University

\$51,000

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

Christodoulides, Dr. Demetrios N.

Generating optical pulses with time-varying polarization states (ID: 1063984)

US Air Force Research Laboratory (AFRL)

\$50,000

College of Optics and Photonics - CREOL

Chumbimuni Torres, Dr. Karin Yanet

REU supplemental to RID 1061656 (ID: 1065477)

National Science Foundation (NSF)

\$9,130

College of Sciences - Chemistry

Colwell, Dr. Joshua E.

Microgravity Experiments on Digging and Anchoring Strategies for Missions to Rubble Pile Asteroids (ID: 1062852)

North Carolina State University

\$12,334

College of Sciences - Physics / Florida Space Institute - Florida Space Institute

Garibay, Dr. Ivan I.

Deep Cyber: Using Big Data Distributed Machine Learning for Fraud Detection and Risk Assessment in Large Financial Institutions (ID: 1063520)

Royal Bank of Canada

\$102,890

College of Engineering and Computer Science (CECS) - Industrial Engineering and Management Systems

Gu, Dr. Lixing / Raustad, Mr. Richard A.

EnergyPlus Whole-Building Modeling and Simulation Software Development: RFP NO. KAGN-4-42501-09 (ID: 1065636)

National Renewable Energy Laboratory (NREL)

\$113,000

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

Hoffman, Phil

THE GREAT AMERICAN READ (ID: 1065492)

Public Broadcasting Service (PBS)

\$6,500

Division of Strategy, Marketing, Communications, and Admissions - WUCF

Hoffman, Phil

WUCF: CPB Community Service Grant- Radio- FY 18-19 (ID: 1065703)

Corporation for Public Broadcasting

\$98,611

Division of Strategy, Marketing, Communications, and Admissions - WUCF

Jha, Dr Sumit K.

Automated Design of Adversarial Fingerprints and Robust Fingerprint Detection Algorithms (ID: 1063996)

Royal Bank of Canada

\$49,657

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

Kent-Walsh, Dr. Jennifer E.

RF: iCommunicate @ UCF: Measures of Change (ID: 1065800)

Chesley G. Magruder Foundation

\$10,000

College of Health and Public Affairs (COHPA) - Communication Sciences and Disorders

Kuebler, Dr. Stephen M. / Fathpour, Dr. Sasan

REU Supplement to NSF Award #1711356 (ID: 1065540)

National Science Foundation (NSF)

\$16,000

College of Optics and Photonics - CREOL / College of Sciences - Chemistry / College of Optics and Photonics - CREOL

Lee, Dr. Woo Hyung

Surface Investigation of Silicate Corrosion Control Mechanisms and Impact on Lead Corrosion using Microelectrodes (ID: 1065551)

PQ Corporation

\$21,215

College of Engineering and Computer Science (CECS) - Civil, Environmental, and Construction Engineering

Li, Dr. Guifang

RF: Fujitsu gift for research in the area of few mode fiber amplifier and related optical communications technology (ID: 1065920)

Fujitsu Laboratories America, Inc.

\$50,000

College of Optics and Photonics - CREOL

McIlvaine, Mrs. Janet R. / Nigusse, Dr. Bereket A. / Withers, Mr. Charles R.

Developing Energy & Resiliency Baselines (ID: 1065363)

Florida Natural Gas Association

\$25,000

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

Metcalf, Dr. David S. / Hamilton, Angela Catherine / Truman, Dr. Barbara E.

Deployed Medicine Roadmap Phase 1 (ID: 1065616)

Allogy Interactive, LLC.

\$50,000

Institute for Simulation and Training (IST) - Mixed Emerging Technology Integration Lab / Institute for Simulation and Training (IST) - IST / Institute for Simulation and Training (IST) - Mixed Emerging Technology Integration Lab

Metcalf, Dr. David S.

RF: Cade Museum Self- Driving Simulator Exhibit (ID: 1065806)

Cade Museum Foundation, Inc

\$12,000

Institute for Simulation and Training (IST) - IST

Mucciolo, Dr. Eduardo R.

RF: Improving plan quality in spot scanning proton therapy using enhanced spot placement techniques (ID: 1065773)

Orlando Health Foundation

\$7,645

College of Sciences - Physics

Naser, Dr. Saleh A.

Student Support - Harini Krishnapura (ID: 1063174)

The Nemours Foundation

\$25,560

College of Medicine - School of Biomedical Science - Director Office

Omli, Steven T. / Wan, Dr. Thomas

RF: Harmony Translation Health Study Project- HTHS (ID: 1065772)

Harmony Foundation Inc.

\$75,250

College of Medicine - Medicine Administration and Finance / College of Health and Public Affairs (COHPA) - Health Management and Informatics

Phanstiel, Dr. Otto

Development of Spermine Pro-drugs (ID: 1065201)

Greenwood Genetic Center

\$10,000

College of Medicine - Medical Education

Qi, Dr. Yuanwei / Nevai, A. / Shuai, Zhisheng

Frontier of Mathematical Biology: Modeling, Computation and Analysis (ID: 1063704)

National Science Foundation (NSF)

\$38,980

College of Sciences - Mathematics / College of Sciences - Mathematics

Rajaraman, Dr. Swaminathan

Development of Pheromone Sensors (ID: 1065604)

BRIDG

\$47,500

NanoScience Technology Center - NanoScience Technology Center

Richardson, Dr. Martin C.

Workshop on Plasma Optics (ID: 1063998)

US Army Research Office

\$20,000

College of Optics and Photonics – CREOL

Sarid, Gal

Early Evolution and Survivability of Amorphous Water Ice Within Small Icy Bodies (ID: 1062812)

Planetary Science Institute

\$22,289

Florida Space Institute - Florida Space Institute

Schultz, Dr. John J.

RF- Consultation of Forensic Anthropology Technical Expertise 2017-2018 (ID: 1063848)

Orange County Board of County Commissioners

\$6,000

College of Sciences - Anthropology

Sharanowski, Barbara

Field work to identify natural enemies of *Paropsisterna variicollis* (Chrysomelinae) Eucalyptus

Variiegated Beetle, in Australia (ID: 1065788)

Scion

\$11,073

College of Sciences - Biology

Song, Dr. Sang-Eun

Safety system development using UV Flame Detector (ID: 1065524)

INTECH Co., LTD

\$9,999

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

Wahid, Dr. Parveen F./ Chaudhry, Shafaq B.

RF: NCWIT Central Florida Aspirations and Computing (ID: 1065848)

National Center for Women & Information Technology (NCWIT)

\$3,300

College of Engineering and Computer Science (CECS) - Department of Electrical and Computer Engineering / Office of Research and Commercialization - Office of Research and Commercialization

Zhang, Dr. Shaojie

Identification, Discovery, and Public Archiving of RNA Structural Motifs (ID: 1062970)

National Institute of General Medical Sciences (NIGMS)

\$699,301

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