

ECE RESEARCH EXPENDITURES AND FUNDING

	Summary of ECE Research Funding	
Academic Year	New	Expenditures
2015-16	\$6,417,905	\$4,482,442
2014-15	\$4,485, 689	\$4,609,599
2013-14	\$5,812, 129	\$4,075,433
2012-13	\$3,794,065	\$2,959,504
2011-12	\$3,020,782	\$2,458,601

(Source: Aurora)

ECE Research Awards 2015-16			
PI	Title	Agency Name	Total Awards
Abdolvand, Dr. Reza	FHTC: Engineered Dielectric Layers for Enhanced Temperature Coefficient of Stiffness(ID: 1060152)	UCF/I-4	\$12,636
Atia, Dr. George K	Exploiting Multidimensional Classical Optical Entanglement for Enhanced Spatial Scene Recognition(ID: 1056623)	University of Rochester	\$58,800
	I/UCRC Multi-functional Integrated System Technology (MIST)(ID: 1057009)	National Science Foundation (NSF)	\$1,300
	CIF: Small: Advanced Ion Channel Models for Neurological Signal Processing -Theory and Application to Brain-Computer Interfacing(ID: 1058266)	National Science Foundation (NSF)	\$74,000
	CAREER: Inference-Driven Data Processing and Acquisition: Scalability, Robustness and Control(ID: 1059110)	National Science Foundation (NSF)	\$205,461
	UNCOVER: Unconstrained Natural-light Coherency Vector-field-imaging by Exploiting Randomness(ID: 1059180)	Defense Advanced Research Projects Agency (DARPA)/DoD	\$146,716
Batarseh, Dr. Issa E	OSD/NAVY SBIR Phase II - High-Density Soft-Switching Multi-Port Photovoltaic Power Manager(ID: 1057690)	Advanced Power Electronics Corporation (APECOR)	\$74,854
Behal, Dr. Aman	CHS: SMALL: EMPOWERMENT OF DISABLED INDIVIDUALS VIA AN ADAPTIVE FRAMEWORK FOR INDIRECT HUMAN ROBOT INTERACTION (ID: 1058430)	National Science Foundation (NSF)	\$315,616
DeMara, Dr. Ronald F	Trusted IoT using Cross-layer Leveraging of Reconfigurable Device Signatures(ID: 1060115)	University of South Florida	\$25,000
Fan, Dr. Deliang	Self-sustained Spin-transfer Torque Devices based Brain-inspired Processor Powered by Energy Harvesting Technologies for Internet of Things Applications(ID: 1060721)	Office of Research & Commercialization	\$7,500
Georgiopoulos, Dr. Michael	Central Florida - STEM Training Consortium (CF-STEM) - SightPlan(ID: 1058908)	SightPlan Inc.	\$4,500
	Central Florida - STEM Training Consortium (CF-STEM) Internship Funding - Design Launchers LLC(ID: 1059298)	Design Launchers LLC	\$2,250
	Central Florida - STEM Training Consortium (CF-STEM) Internship Funding - DATANAUTIX, INC.(ID: 1057171)	Datanautix, Inc.	\$6,328
	Central Florida - STEM Training Consortium (CF-STEM) Internship Funding - BBA Aviation, Inc.(ID: 1057285)	BBA Aviation USA Inc.	\$2,500
	Central Florida - STEM Training Consortium (CF-STEM) Internship Funding - Stratex Partners(ID: 1059261)	Stratex Partners	\$2,250
	Central Florida - STEM Training Consortium (CF-STEM) Internship Funding - Progress Orthopedic(ID: 1059262)	Progress Orthopedic Company LLC	\$2,250

	Central Florida - STEM Training Consortium (CF-STEM) Internship Funding--Qpn Inc(ID: 1059303)	QPN, Inc.	\$2,250
	Central Florida - STEM Training Consortium (CF-STEM) Internship Funding - Epic Engineering & Consulting Group(ID: 1059446)	EPIC Engineering & Consulting Group, LLC	\$2,250
	Central Florida - STEM Training Consortium (CF-STEM) Internship Funding - Agilesrc, LLC(ID: 1057270)	AgileSrc, LLC.	\$298
	Central Florida - STEM Training Consortium (CF-STEM) Internship Funding - Cubic Simulation Systems, Inc.(ID: 1057419)	Cubic Simulation Systems, Inc.	\$183
Gong, Dr. Xun	Customizable Antenna Array Using Pixelated and Reconfigurable Slot-Ring Antennas(ID: 1057312)	Defense Advanced Research Projects Agency (DARPA)/DoD	\$209,809
	DURIP: Equipment to Characterize Microwave Components and Antennas above 110 GHz(ID: 1058074)	Office of Naval Research/DoD	\$400,000
	RF - International Workshop on Antenna Technology(ID: 1059868)	Various	\$13,206
Jin, Dr. Yier	TWC: Small: Collaborative: Toward Trusted 3rd-Party Microprocessor Cores: A Proof Carrying Code Approach(ID: 1055053)	National Science Foundation (NSF)	\$16,000
	Bridging the Hardware-Software Gap: A Proof-Carrying Approach for Computer Systems Trust Evaluation (5.3.5)(ID: 1057824)	US Army Research Office/DoD	\$80,000
	Avalanche Effect in Cyber-Physical Systems Security Under Large-Scale Cyberattacks on Smart Devices(ID: 1058625)	Southeastern Center for Electrical Engineering Education	\$16,000
	REU Site: Research Experiences in the Internet of Things (IoT)(ID: 1059195)	National Science Foundation (NSF)	\$71,982
	Renewal: Smart Grid Security Protection through Cross-Layer Approaches(ID: 1060138)	University of South Florida	\$15,000
	Verification of IP Security and Trust(ID: 1060834)	University of Florida	\$86,000
Jones, Dr. W Linwood	Observations of Ocean Surface Wind Speed and Rain Rate with the Hurricane Imaging Radiometer (HIRAD)(ID: 1049397)	NASA Marshall Space Flight Center/NASA	\$99,840
	GOLD SALMON project(ID: 1052541)	NASA Shared Services Center (NSSC)/NASA	\$146,119
	Aquarius Investigation to Quantify Effects of Rainfall on Near-Surface Ocean Salinity Profiles(ID: 1055947)	National Aeronautics and Space Administration (NASA)	\$196,127
	Inter-satellite Radiometric Calibration (XCAL) for GPM Constellation(ID: 1058925)	NASA Shared Services Center (NSSC)/NASA	\$140,000
Lin, Dr. Mingjie	I/UCRC Multi-functional Integrated System Technology (MIST)(ID: 1057009)	National Science Foundation (NSF)	\$1,300
	CAREER: iIMPACT: Metaphysical and Probabilistic-Based Computing Transformation with Emerging Spin-Transfer Torque Device Technology(ID: 1058977)	National Science Foundation (NSF)	\$211,100
	REU Site: Research Experiences in the Internet of Things (IoT)(ID: 1059195)	National Science Foundation (NSF)	\$17,996
Liou, Dr. Juin J	RF: Design and Characterization of Electromagnetic Compatibility (EMC) for Integrated Circuits(ID: 1058405)	Siruiqi Information Industry Corporation	\$52,000
Malocha, Dr. Donald C	Wireless Surface Acoustic Wave Sensor System for SHM(ID: 1058244)	Albido Corporation	\$426,126
	TTO: Malocha Auxiliary Balance Account(ID: 1059660)	Langley Research Center/NASA	\$19,702
	Passive Surface Acoustic Wave Detector(ID: 1057583)	Defense Intelligence Agency/DoD	\$495,001
Qu, Dr. Zhihua	Electric Vehicle Transportation Center (EVTC)(ID: 1055483)	US Department of Transportation	\$99,992
	Foundations for Engineering Education for Distributed Energy Resources (FEEDER)(ID: 1055621)	US Department of Energy	\$438,474
	Novel Guidance and Control Algorithms for Missile Defense Systems(ID: 1055654)	Coleman Aerospace	\$80,000
	FEEDER: Strategic Expansion to Achieve GEARED Goals (STEP) (ID: 1059230)	US Department of Energy	\$222,852
	An Intelligent Medical Robotic Device(ID: 1060156)	AVRA Medical Robotics, Inc.	\$163,307
	FHTC: Novel Guidance and Control Algorithms for Missile Defense Systems(ID: 1055539)	UCF/I-4	\$80,000

Simaan, Dr. Marwan	Foundations for Engineering Education for Distributed Energy Resources (FEEDER)(ID: 1055621)	US Department of Energy	\$41,759
Sun, Dr. Wei	Collaborative Research: An Intelligent Restoration System for a Self-healing Smart Grid (IRS-SG)(ID: 1059122)	National Science Foundation (NSF)	\$197,649
	FEEDER: Strategic Expansion to Achieve GEARED Goals (STEP) (ID: 1059230)	US Department of Energy	\$44,570
	IH: Building a Self-healing Smart Grid: From Data Centers to the Bulk Power System(ID: 1060702)	Office of Research & Commercialization	\$7,500
Vosoughi, Dr. Azadeh	Foundations for Engineering Education for Distributed Energy Resources (FEEDER)(ID: 1055621)	US Department of Energy	\$83,519
	CIF: Small: Advanced Ion Channel Models for Neurological Signal Processing -- Theory and Application to Brain-Computer Interfacing(ID: 1058266)	National Science Foundation (NSF)	\$74,000
Wang, Dr. Jun	GOLD SALMON project(ID: 1052541)	NASA Shared Services Center (NSSC)	\$292,239
	SHF: Small: Multi-criteria optimization control for temperature constrained energy efficient data center using fuzzy decision making theory(ID: 1058278)	National Science Foundation (NSF)	\$369,092
	DOE Oak Ridge Lab subcontract Multi-tiered Storage and software defined networking (ID: 1060197)	Oak Ridge National Laboratory	\$58,736
Weeks, Dr. Arthur R	Wireless Surface Acoustic Wave Sensor System for SHM(ID: 1058244)	Albido Corporation	\$142,042
	Passive Surface Acoustic Wave Detector(ID: 1057583)	Defense Intelligence Agency/DoD	\$55,000
Wu, Dr. Xinzhang (Thomas)	Thermal Management of Electromechanical Actuator for Flight Control Surfaces(ID: 1057673)	North Carolina A&T State University	\$12,500
	OSD/NAVY SBIR Phase II - High-Density Soft-Switching Multi-Port Photovoltaic Power Manager(ID: 1057690)	Advanced Power Electronics Corporation (APECOR)	\$74,854
	Thermal Management of Electrical Actuation via Enhanced Air Circulation(ID: 1055596)	Rini Technologies, Inc.	\$10,000
	Three Dimensional FEA Modeling and Permanent Magnet Motor(ID: 1059826)	Calnetix, Incorporated	\$1
Yuan, Dr. Jiann-Shiun	I/UCRC Multi-functional Integrated System Technology (MIST)(ID: 1057009)	National Science Foundation (NSF)	\$32,500
	I/UCRC Multi-functional Integrated System Technology (MIST)(ID: 1057009)	Various	\$120,000
	Securing the Internet of Things (IoT) from the Hardware and Architecture Perspectives(ID: 1060140)	University of South Florida	\$12,500
Zhou, Qun	FEEDER: Strategic Expansion to Achieve GEARED Goals (STEP) (ID: 1059230)	US Department of Energy	\$44,570
Total			\$6,417,905

(Source: Aurora)