UNIVERSITY OF TENNESSEE AT CHATTANOOGA

SPONSORED PROGRAM ACTIVITY

QUARTERLY REPORT



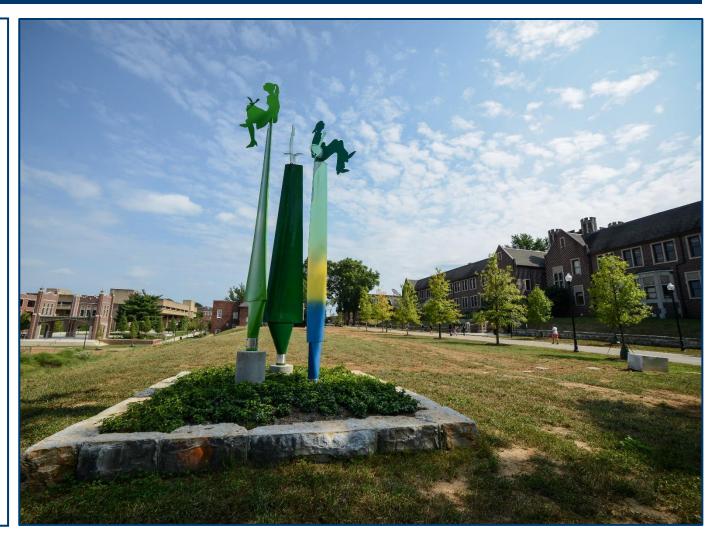
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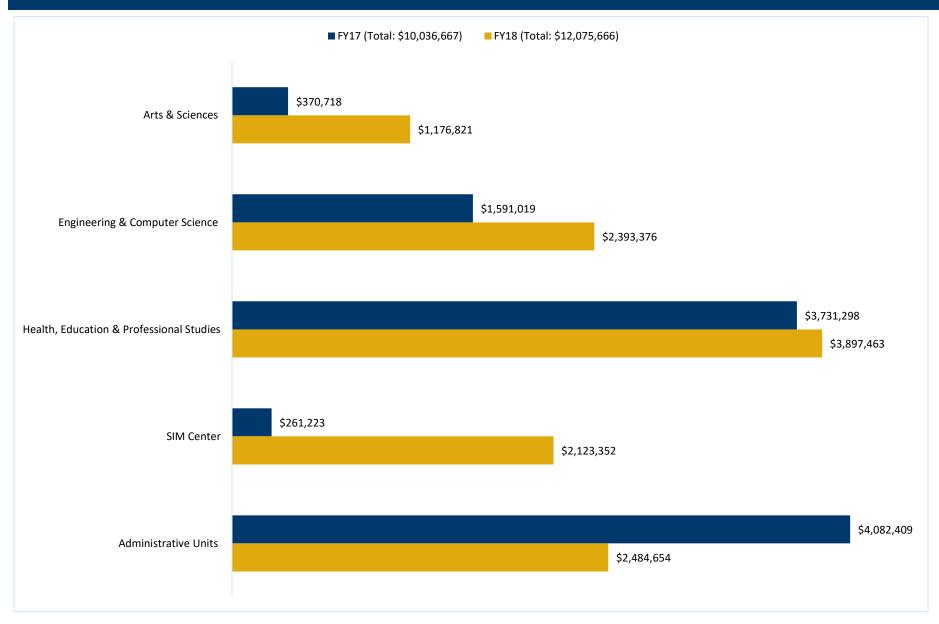
INTRODUCTION

FOURTH QUARTER: JULY 1, 2017 - JUNE 30, 2018

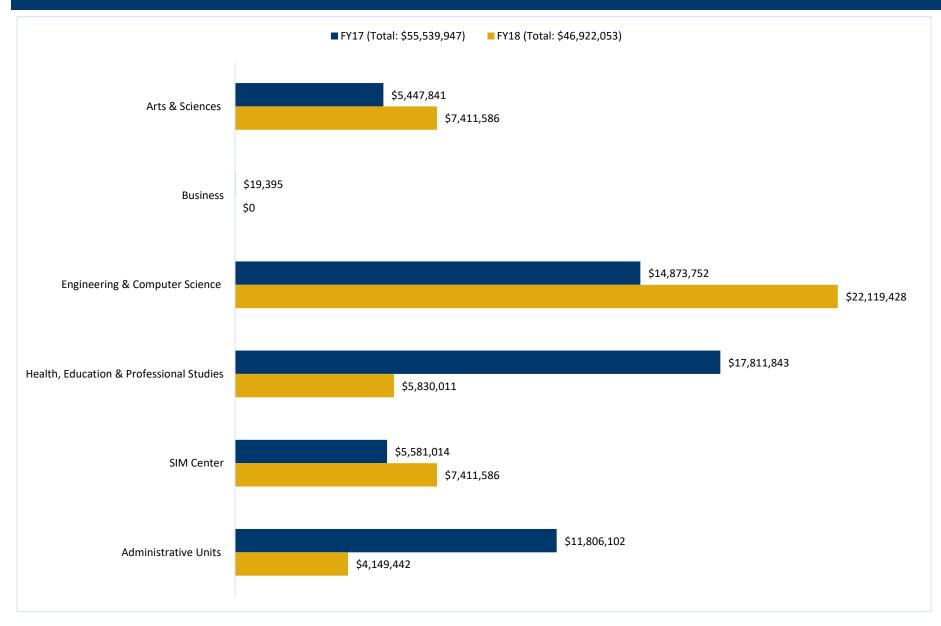
The information contained in this report is drawn from the Cayuse database and provides comparisons of the amounts of external funding for the fourth quarters of FY 17 and FY 18. This report includes all proposals and awards that were reported and approved by June 30, 2018. Proposals submitted for internal routing but not yet approved and awards not fully processed as of that date will be included in future quarterly reports. If any of the information in this report does not correspond to your records or you have general questions, please notify orsp@utc.edu.



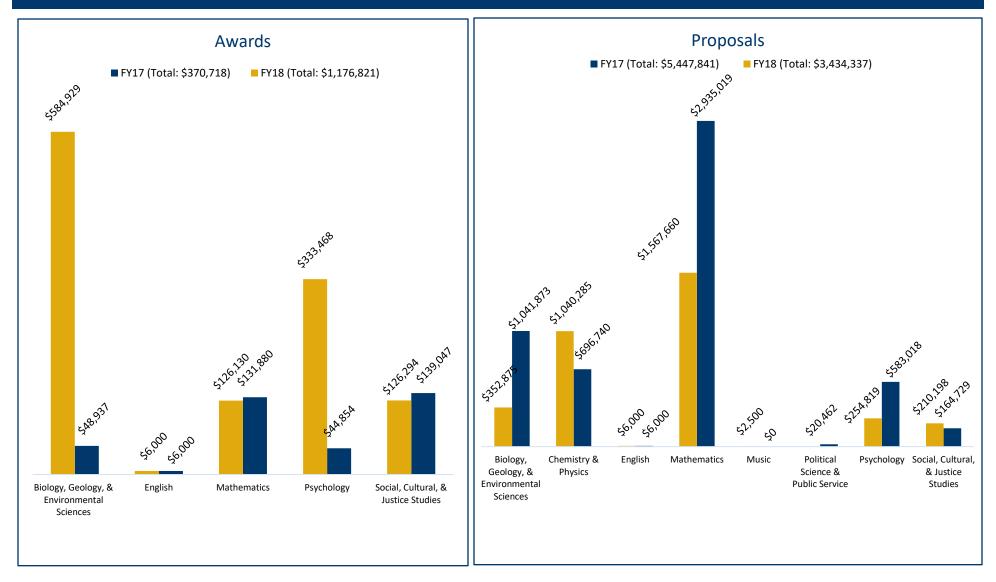
UTC SPONSORED PROGRAMS – AWARDS FY17/FY18 COMPARISON



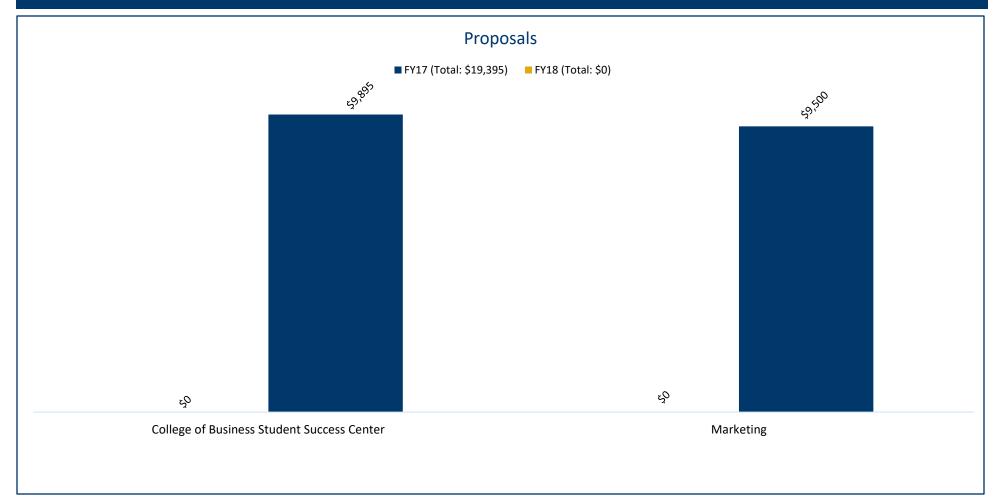
UTC SPONSORED PROGRAMS – PROPOSALS FY17/FY18 COMPARISON



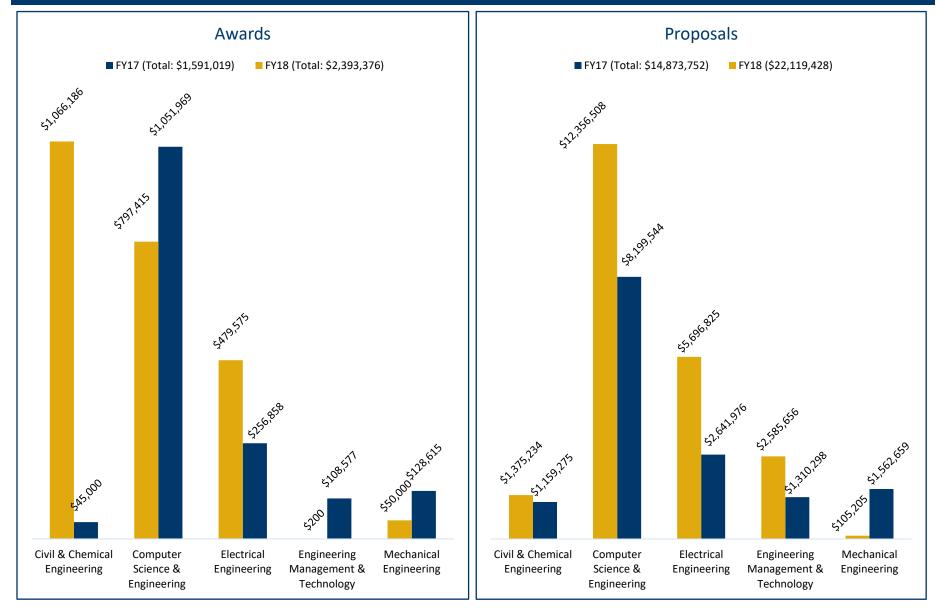
COLLEGE OF ARTS & SCIENCES – AWARDS & PROPOSALS FY17/FY18 COMPARISON



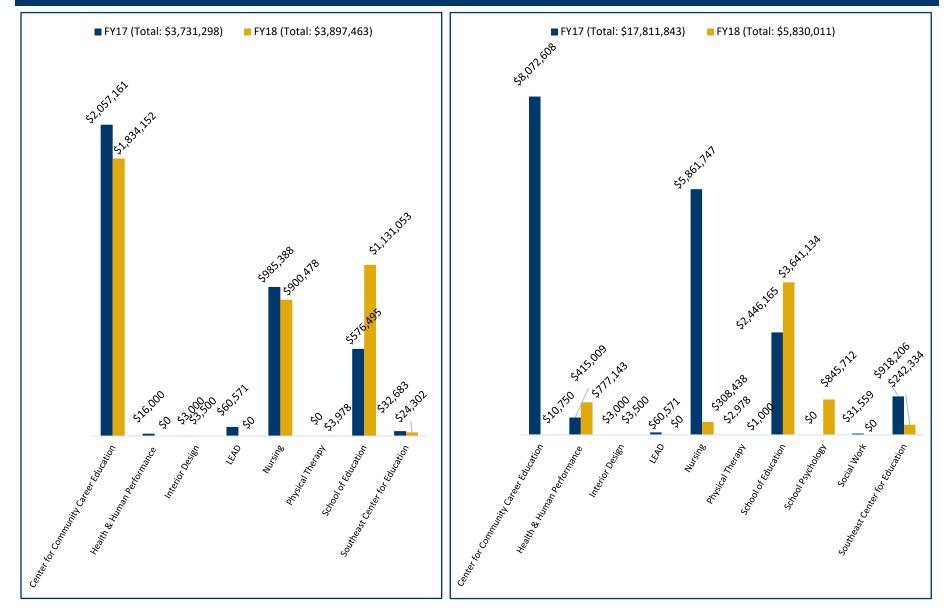
COLLEGE OF BUSINESS – PROPOSALS FY17/FY18 COMPARISON



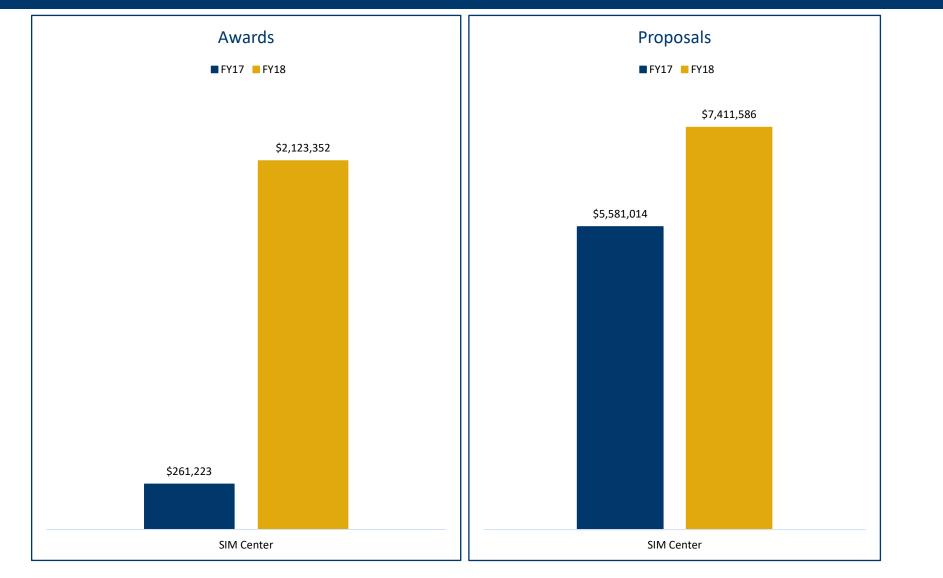
COLLEGE OF ENGINEERING & COMPUTER SCIENCE – AWARDS & PROPOSALS FY17/FY18 COMPARISON



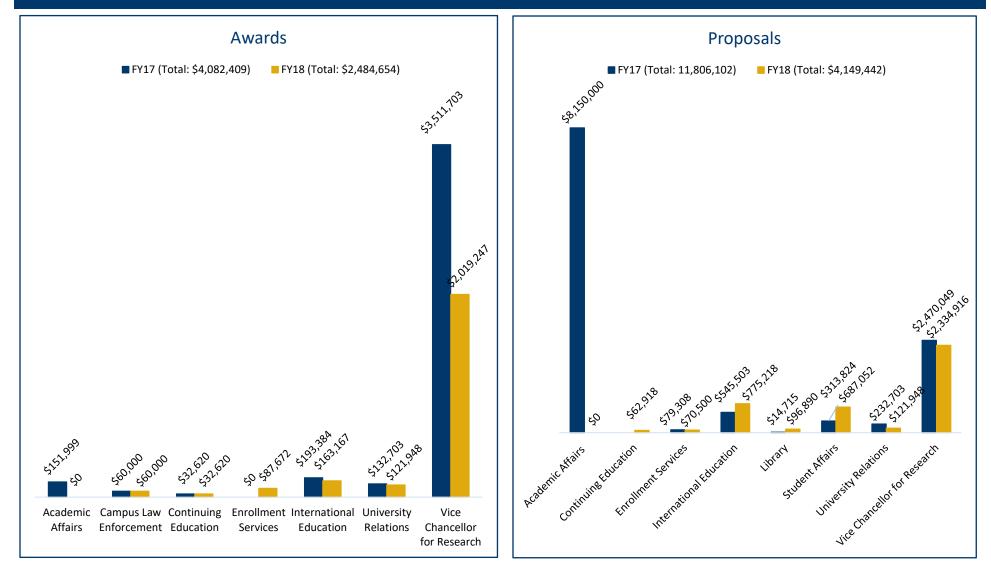
COLLEGE OF HEALTH, EDUCATION, & PROFESSIONAL STUDIES –AWARDS & PROPOSALS FY17/FY18 COMPARISON



SIM CENTER –AWARDS & PROPOSALS FY17/FY18 COMPARISON



ADMINISTRATIVE UNITS – AWARDS & PROPOSALS FY17/FY18 COMPARISON



FY18 – LISTING OF Q4 AWARDS

LEAD PI/PD	FUNDER	TITLE	AMOUNT
	CO	LLEGE OF ARTS & SCIENCES	
	BIOLOGY (GEOLOGY, & ENVIRONMENTAL SCIENCES	
		RUI: Collaborative Research: Reasons for Rarity? Exploring Acclimatory and	
Boyd, Jennifer	National Science Foundation	Adaptive Constraints to Commonness	\$519,385
Craddock, Hill	The American Chestnut Fund	Conservation and Collection of <i>Castanea dentata</i> Germplasm in the South	\$3,515
Schorr, Mark	Limestone Valley Resource Conservation and Development Council	Assessment of Nonpoint Source Water Pollution in North Georgia Streams	\$4,505
	Cumberland Trail Conference	Cumberland Trail Conference Connector Program	\$40,040
Count Hanna	Plastic Surgery Group	Triple Antibiotic Wash: Fact or Fetish? The Efficacy of Antibacterial Solution Wash During Placement of Breast Prosthesis in Bacterial Load Reduction	\$1,410
Spratt, Henry	HealthySole DETECTO	Does Ultraviolet Radiation (UV-C) Applied to the Soles of Shoes in Pediatric Intensive Care Units Decrease Bacterial Load and Healthcare Associated Infections?	\$16,074
		ENGLISH	
Noe, Marcia	Society for the Study of Midwestern Literature	Society for the Study of Midwestern Literature Journal Editing	\$6,000
		MATHEMATICS	
Bao, Feng	National Science Foundation	RUI: Efficient Adaptive Backward SDE Methods for Nonlinear Filtering Problems	\$41,111
	Oak Ridge National Laboratory	ORNL_SciDAC	\$54,862
Wang, Jin	Old Dominion Research Foundation	Mathematical Modeling Of Cholera Dynamics	\$30,157
Black, Kristen	Miller Industries	PSYCHOLOGY Miller Industries Employee Survey	\$9,935
Hood, Ralph	White moustnes	Confidential	\$323,533
			<i>4323,333</i>
	SOCI	AL, CULTURAL, & JUSTICE STUDIES	
		Service, Support & Justice: A Strategy to Enhance Law Enforcement Response to	\$23,420
Bumphus, Victor	International Association of Chiefs of Police	Victims Technical Assistance	
Bumphus, Victor Guo, Zibin	US Department of Veteran's Affairs	Victims Technical Assistance Wheelchair Tai Chi Program Expansion	\$58,000

LEAD PI/PD	FUNDER	TITLE	AMOUNT
	Georgia Department of Natural Resources	Fort Frederica Project	\$5,000
Policastro, Christina	Tennessee Coalition to End Domestic and Sexual Violence	2018 Victim Assistance Academy	\$37,725
	COLLEGE OF E	NGINEERING AND COMPUTER SCIENCE	
	CIVIL, C	CHEMICAL, & GENERAL ENGINEERING	
Fomunung, Ignatius	National Science Foundation	UTC-ASSETS: Academic Intervention Social Supports, and Scholarships for Engineering Transfer Students	\$992,996
Dwino, Joseph	Precast/Prestressed Concrete Institute	Efficient Modular Wall Systems for New Construction and Retrofit	\$45,000
Wu, Weidong	Tennessee Board of Architectural and Engineering Examiners	TBAEE Laboratory Equipment Grant for Civil Engineering	\$28,190
		MPUTER SCIENCE & ENGINEERING	
Sartipi, Mina		Confidential	\$24,500
	Prairie View A&M University	Capacity Building on Privacy Education through Curriculum Development	\$39,750
		Developing Innovative Privacy Learning Modules to Engage Students in Cybersecurity Education	\$21,598
Yang, Li	National Science Foundation	Collaborative Research: SFS Program: Strengthening the National Cyber Security Workforce	\$561,669
	National Security Agency/Central Security Service	Developing Web Security Modules with Visualization and Hands-on Labs	\$149,898
		ELECTRICAL ENGINEERING	
Eltom, Ahmed	Tennessee Valley Public Power Association	2017 Lab Demonstrations for Tennessee Valley Public Power Association	\$712
	Nu-Trek, Inc.	(1) Authorization to Proceed and (2) Period of Performance Extension for Radiation Hardened, Low Power, Variable Bandwidth/Resolution Sigma Delta Converters	\$55,000
oveless, Thomas	Vanderbilt University	Fundamental Research into Radiation Resiliency of Emerging Circuit Technologies Appropriate to the CWMD Mission	\$35,426
	National Science Foundation	REU Site: An Interdisciplinary CubeSat Research and STEM Education Platform at the University of Tennessee at Chattanooga (UTChattSat)	\$359,783
arrar, Abdelrahman		Confidential	\$24,554
Pack, Daniel		Confidential	\$4,100
		ERING MANAGEMENT & TECHNOLOGY	
	Oak Ridge Associated Universities	Travel Funds for Collaborative Research	\$200

LEAD PI/PD	FUNDER	TITLE	AMOUNT
		MECHANICAL ENGINEERING	
Elliott, Trevor	Denso North America Foundation	Investigation and Implementation of Industrial Internet of Things (IIoT) Equipment and Software for Baja SAE Capstone Project	\$50,000
	COLLEGE OF HEAL	TH, EDUCATION & PROFESSIONAL STUDIES	
	CENTER	FOR COMMUNITY CAREER EDUCATION	
Boykin, Twyler	US Department of Education	Upward Bound Math & Science	\$263,938
Brownlee, Belinda	US Department of Education	UTC Upward Bound Program	\$319,122
	Tennessee Higher Education Commission	Each One Reach One	\$99,984
Cole, Sandra	City of Chattanooga	CK, Now! Scholarships and Programming	\$10,750
Gholston, Shirl	US Department of Education	Student Support Services FY16-FY21	\$300,620
Huckabay, Hunter	US Department of Education	GEAR UP in Hamilton County, TN 2011-2018	\$308,244
Lee, Belinda	US Department of Education	UTC Upward Bound Program	\$7,783
Long, Cynthia	US Department of Education	Southern Appalachian Educational Opportunity Center	\$277,711
Vann, Karen	US Department of Education	Talent Search	\$246,000
		INTERIOR DESIGN	
Kendall, Catherine	Tennessee Board of Architectural and Engineering Examiners	Professional Student Exam Fees and Computer Grant F2017	\$3,500
		NURSING	
Hill, Linda	Health Resources and Services Administration	Nurse Anesthesia Traineeship Grant	\$21,067
Smith, Christine	Erlanger Health System	RN to BSN Gateway Program	\$190,394
Smith, Christine & Roache, Amber	Health Resources and Services Administration	FNP CANDL: Clinical-Academic Network for Developing Leaders	\$689,017
		PHYSICAL THERAPY	
Hanks, June	Tennessee Physical Therapy Association	Cross-Cultural Adaptability Study (US-DPT and Haitian PT students)	\$1,000
Levine, David	Goodhew	Effectiveness of Sockwell Compression Socks: A White Paper on Vascular Effects	\$2,978
		SCHOOL OF EDUCATION	
	Charles Koch Foundation	2017-2018 Center for Reflective Citizenship Programs	\$75,214
Ellington, Lucien	Freeman Foundation	Freeman Foundation Teacher Professional Development Programs 2018-2019	\$17,996
	Association for Asian Studies, Inc.	Education About Asia Journal 2018	\$81,192
Ellis, Jennifer	National Science Foundation	Track 1: UTChattanooga STEM Education Noyce Scholarship Program	\$860,319

LEAD PI/PD	FUNDER	TITLE	AMOUNT
McAllistor Doborob	National Aeronautics and Space Administration	GLOBE Aerosols for Elementary Pre-service Teachers	\$1,900
McAllister, Deborah	Vanderbilt University	NASA Mathematics Resources and Super Source Activities for Elementary Grades Preservice Teachers	\$33,861
Murley, Renee	Tennessee Department of Education	Governor's School 2017-18	\$60,571
	SO	UTHEAST CENTER FOR EDUCATION	
	Tennessee Arts Commission	Arts Learning Lab	\$8,000
/Ielnik, Laurie	Hunter Museum of American Art	Art of Balance and Diagnosis	\$11,000
	Shelby County Schools	Arts Integration Workshops at Sherwood Elementary School, Memphis TN	\$5,302
		SIM CENTER	
	The National Institute of Aerospace	Revolutionary Computational Aerosciences (RCA) Institute Support: Visitors and	\$14,948
Newman, James	Associates	Faculty Engagement	624.076
·	Pointwise Inc.	High Fidelity Mesh and Geometry Tools	\$24,976
	University of Dayton Research Institute	Reusable Hypersonic Vehicle Structures	\$893,239
Qin, Hong	National Science Foundation	CAREER: A Probabilistic Gene Network Model of Cellular Aging and Its Application on the Conserved Lifespan Extension Mechanisms of Dietary Restriction	\$133,543
		SHF: Small: Collaborative Research: Coupling Computation and Communication in	\$186,192
		FPGA-Enhanced Clouds and Clusters	
		REU Supplement for CICI Grant –SeSecure	\$16,000
		CICI: Data Provenance: Collaborative Research: Provenance AssuranceUsing	\$10,000
		Currency Primitives	\$211,388
		SHF: Medium: Collaborative Research: Next-Generation Message Passing for	
	National Science Foundation	Parallel Programming: Resiliency, Time-to-Solution, Performance-Portability,	\$196,860
Skjellum, Anthony		Scalability, and QoS	, ,
		SHF: Medium: Collaborative Research: Next-Generation Message Passing for	
		Parallel Programming: Resiliency, Time-to-Solution, Performance-Portability,	\$16,000
		Scalability, and QoS	
		Collaborative Research: CICI: Regional: SouthEast SciEntific Cybersecurity for	¢60.040
		University Research (SouthEast SECURE)	\$60,949
	Department of Energy	Fast Failure Recovery Methods MPI Applications	\$59,904
reenivas, Kidambi	Pointwise, Inc.	Mesh Curving for Higher Order Applications	\$99,982
Mahatan Daharit		Collaborative Research: CICI: Regional: SouthEast SciEntific Cybersecurity for University Research (SouthEast SECURE)	\$52,342
Webster, Robert	Engility Corporation	Heterogeneous HPC for High-order Stabilized Finite-elements on Moving and Deforming Domains	\$157,029

LEAD PI/PD	FUNDER	TITLE	AMOUNT
		ADMINISTRATIVE UNITS	
		CAMPUS LAW ENFORCEMENT	
Hamilton, Craig	Tennessee Office of Criminal Justice Programs	Making our Campus Safer (MOCS)	\$60,000
		CONTINUING EDUCATION	
Freeze, John	University of Tennessee - Institute of Public Service	Southeastern Command and Leadership Academy (SECLA)	\$32,620
		ENROLLMENT SERVICES	1
Freeman, Yancy	Tennessee Higher Education Commission	UTC Veteran Reconnect	\$19,018
	remessee night Euleation commission	UTC Summer Bridge Experience	\$68,654
		INTERNATIONAL EDUCATION	
Suzuki, Takeo	FHI 360	Social Entrepreneurship SUSI Institute	\$163,167
		UNIVERSITY RELATIONS	
Heddleston, George	Corporation for Public Broadcasting	FY 2018 Radio Community Service Grant	\$121,948
		CE CHANCELLOR FOR RESEARCH	-
Heath, Gregory	Oak Ridge Associated Universities	Tennessee University-Business Showcase	\$4,000
fieatil, Gregory	National Institute of Health	NIH BRAD - CREATE	\$87,560
	Enterprise Center	East Lake Walk Sheds	\$250
		Spatial Analysis and Mapping of Historic Tax Data for Chattanooga, Tennessee	\$1,438
Mix, Charles	Land Between The Lakes Association Inc.	TN Valley Water Trails Data Update	\$1,799
	Mainspring Conservation Trust	Mainspring Conservation Trust – Application Development	\$22,214
	Lyndhurst Foundation	GreenSpaces Mapping Support	\$10,000
Domogni Joonno	Tennessee Higher Education Commission	Center for Excellence in Applied Computational Science & Engineering	\$1,171,986
Romagni, Joanne	UC Foundation	Academic Initiatives and Educational Excellence Projects	\$720,000
		Total Funding	\$12,075,666

FY18 - LISTING OF Q4 PROPOSALS

LEAD PI/PD	FUNDER	TITLE	AMOUNT
		COLLEGE OF ARTS & SCIENCES	
Craddock, Hill	The American Chestnut Foundation	GY, GEOLOGY, & ENVIRONMENTAL SCIENCE Conservation and Collection of <i>Castanea dentata</i> Germplasm in the South	\$3,515
· · · · · · · · · · · · · · · · · · ·	National Science Foundation	IRES Track I: Stronger Together: Exploring How Communal Care Reduces Individual Costs During Challenging Years	\$0
Hayes, Loren	University of Strasbourg Institute for Advanced Study	Understanding Intraspecific Variation in Social Organization of Mammals	\$206,435
	University of Mississippi	GRACE Water Storage Study	\$46,171
Hossain, Azad	US Geological Survey TN Water Research Center	Preliminary Proposal - Remote Sensing of Water Quality	\$0
Schorr, Mark	Limestone Valley Resource Conservation and Development Council	Assessment of Nonpoint Source Water Pollution in North Georgia Streams	\$4,505
Shaw, Joey	National Science Foundation	Repair, Digitization, and Integration of the Southern Adventist University Herbarium into the University of Tennessee at Chattanooga Herbarium	\$34,725
	Cumberland Trail Conference	Year 2: Cumberland Trail Conference Connector Program	\$40,040
Spratt, Henry	Plastic Surgery Group	Surgical Irrigation Solutions for Breast Augmentation Surgery	\$1,410
Spratt, Henry	HealthySole DETECTO	Does Ultraviolet Radiation (UV-C) Applied to the Soles of Shoes in Pediatric Intensive Care Units Decrease Bacterial Load and Healthcare Associated Infections?	\$16,074
		CHEMISTRY & PHYSICS	
Kim, Jisook	National Science Foundation	Acquisition of a High Resolution Accurate Mass QTOF LC-Mass Spectrometer	\$392,532
Park, Han Jung	Society for Analytic Chemists of Pittsburgh	Study of the Photoacoustic Effect	\$8,900
, , , , , , , , , , , , , , , , , , , ,	National Science Foundation	UTC Spain REU	\$398,853
Symes, Steven	National Science Foundation	MRI: Acquisition of ICP-MS for Use in Environmental, Geochemical, and Human Health Research at UTC	\$240,000
		ENGLISH	
Noe, Marcia	Society for the Study of Midwestern Literature	Society for the Study of Midwestern Literature Journal Editing	\$6,000
		MATHEMATICS	
Bao, Feng	Oak Ridge National Laboratory	ORNL_SciDAC	\$208,706

LEAD PI/PD	FUNDER	TITLE	AMOUNT
Kong, Lingju	National Science Foundation	Degenerate Elliptic Problems with Variable Exponents	\$415,522
Ledoan, Andrew	National Science Foundation	REU Site: Number Theory, Dynamical Systems and Applications	\$283,831
	Old Dominion University	Mathematical Modeling of Cholera Dynamics	\$40,480
Wang, Jin	National Science Foundation	Mathematical Modeling of Waterborne Infections	\$298,018
	National Institute of Health	Cholera Modeling and Simulation	\$321,103
		MUSIC	T
Tejero, Nikolasa	Tennessee Arts Commission	Celebrating African American History Month Through Music and Literature: An	\$2,500
rejero, Nikolasa	Tennessee Arts commission	Interdisciplinary Concert	<i>\$2,500</i>
		PSYCHOLOGY	Τ.
Black, Kristen	Miller Industries	Miller Industries Employee Survey	\$30,008
Ferrier, David	Foundation for Child Development	In Loco Parentis: The Impact of Teachers and School Contexts in Socializing Social-	\$224,811
,	· ·	Emotional Competence and Self-Regulatory Abilities in Early Childhood	. ,
		SOCIAL, CULTURAL & JUSTICE STUDIES	
Bumphus, Victor	International Association of Chiefs of	Service, Support & Justice: A Strategy to Enhance Law Enforcement Response to	\$23,420
	Police	Victims Technical Assistance	
Guo, Zibin	Department of Veteran's Affairs	Wheelchair Tai Chi Chuan as an Adaptive Sport for Veterans with Ambulatory	\$114,148
	Plantation Point Homeowners	Disability - Further Program Expansion and Promotion	
	Association	Archaeology at Hampton Point Plantation	\$27,756
	Georgia Department of Natural		+
Honerkamp, Nicholas	Resources	Fort Frederica Project	\$5,000
		Proposed Archaeological Bounding of a Historic Component at Indian Field,	
	St. Simons Land Trust	Cannon's Point Preserve, St. Simons Island, Georgia	\$2,149
Dellisester Christi	Tennessee Coalition to End Domestic		627 725
Policastro, Christina	and Sexual Violence	2018 Victim Assistance Academy	\$37,725
	COLLEGE O	F ENGINEERING AND COMPUTER SCIENCE	
	CIV	IL, CHEMICAL & GENERAL ENGINEERING	
Bathi, Jejal Reddy	University of Tennessee Knoxville	Three-Dimensional Modeling of River Flows Under Extreme Weather Scenarios	\$19,998
Fomunung, Ignatius	Tennessee Highway Safety Office	Effectiveness of HOV Lanes as a Congestion Relief and Air Quality Reduction Tool	\$199,939
		The Impact of the Marine-to-host Environmental Transition on Fatty Acid-induced	
Harris, Bradley	National Institutes of Health	Changes in Persistence and Pathogenicity in Vibrio cholerae	\$136,000
	Tennessee Department of	Friction Course Pavements – RNS (27)	\$99,997
Onyango, Mbakisya	Transportation	Concrete Bridge Deck Deterioration Assessment Using Ground Penetrating Radar	\$150,000

LEAD PI/PD	FUNDER	TITLE	AMOUNT
		Development of a Balanced Mix Design (BMD) Procedure for Tennessee Mixtures	\$180,000
		100% Recycled Mixtures Using Cold In-place Recycling (CIR), Hot In-place Recycling (HIR) and Cold Central Plant Recycling (CCPR) –RNS (3)	\$180,000
Owino, Joseph	Precast/Prestressed Concrete Institute	Next Generation of Precast Insulated Walls	\$45,000
Palchoudhury, Soubantika	Oak Ridge Associated Universities	A New Class of Penternary Chalcogenide Nanocrystals and Thin Films for Solar Energy Conversion Applications	\$5,000
	Tennessee Board of Architectural and Engineering Examiners	TBAEE Laboratory Equipment Grant for Civil Engineering	\$28,863
Wu, Weidong	Structural Engineers Foundation	Developing Matlab Apps for Interactively Teaching and Learning Design of Reinforced Concrete Structure	\$2,500
	Tennessee Department of	TDOT Bicycle & Pedestrian Counting: Best Methodologies Assessment – RNS (15)	\$147,999
	Transportation	Work Zone Alert Systems – RNS (1)	\$174,938
Yang, Sungwoo	Oak Ridge Associated Universities	Water Harvesting from Air Powered by Natural Sunlight	\$5,000
	C	OMPUTER SCIENCE AND ENGINEERING	
Kandah, Farah	National Science Foundation	SaTC: CORE: Small: RUI: vMAP: Mapping Autonomous Vehicle Authentication/Trust Building in Real-time over a Dynamic Adaptive Network	\$491,866
	National Science Foundation	RET Site in Computer Science and Engineering: Cybersecurity Education for All - Developing a Broad-based Cyber Defense Workforce for the 21st Century	\$595,267
Kizza, Joseph		CyberTraining - CIU: Enhancing Cybersecurity and Data Science Skills in Multidisciplinary Research and Workforce Development	\$496,162
	National Science Foundation	SCH: INT: RUI: Collaborative Research: ACTIVE - Aging and Chronic Disease Management with Tai-Chi in an Individualized Virtual Environment	\$903,276
Liang, Yu		SCC: Smart Neighborhood Watch	\$398,700
	Tennessee Department of Transportation	Deep Learning-Enabled Evaluation of Bridge Deck Using GPR – RNS (19)	\$126,767
McCullough, Claire	National Science Foundation	STEM Inspire, Communicate, Educate (ICE)	\$356,567
Qin, Hong	National Science Foundation	REU Site: ICompBio - Engaging Undergraduates in Interdisciplinary Computing for Biological Research	\$359,484
-	Norfolk State University	Stress and Filamentous Yeast	\$92,604
	Sony USA Foundation Inc.	Millimeter Wave Communications for Enhanced Vehicle Connectivity	\$145,155
		Planning Grant: Engineering Research Center for Enhancing Livability in Urban Communities for the 21st Century (LUC21)	\$22,713
Sartipi, Mina	National Science Foundation	SCC: Collaborative: Health-Centric Urban Mobility	\$2,749,675
., .		NRT-HDR: Data in GigCity: A Unified and Comprehensive Platform for Education and Research on Data Science and Engineering to Improve Accessibility in an Urban Environment	\$2,791,695

LEAD PI/PD	FUNDER	TITLE	AMOUNT
	Tennessee Valley Authority	Phase 2 TVA Power Billing Dashboard for Error Detection and Correction Project	\$49,995
	University of Tennessee Knoxville	Research on Connected and Automated Vehicles Investment and Smart Infrastructure in Tennessee	\$60,000
	Tennessee Department of Transportation	TDoT - Waze	\$150,000
Wu, Dalei	University of Vermont	Self-Cleaning City Infrastructure for Prosperity and Health	\$490,568
	National Security Agency Central Security Service	Developing Web Security Modules with Visualization and Hands-on Labs	\$149,898
Yang, Li	University of Vermont	A Fast, Reliable and Secure User Interface to Train and Equip Firefighters with Augmented Reality	\$526,260
-	Hamilton County Government	FUSE-data	\$480,898
	Department of Defense	Developing Advanced Data science curriculum in cybersecurity	\$246,885
	Department of Defense	DoD IASP	\$122,188
		ELECTRICAL ENGINEERING	-
Ahmed, Raga	Department of Energy	Preliminary Proposal - Standardization Testbed for Additively-Manufactured Energy-Infrastructure Devices and Component Parts: Mapping Material Composition, Printer Technology and Control Settings into Electromechanical Energy Conversion Parameters and Figures of Merit	\$0
Eltom, Ahmed	Tennessee Valley Public Power Association	2017 Lab Demonstrations for Tennessee Valley Public Power Association	\$711
Karrar, Abderlrahman	National Science Foundation	Improving the Performance and Implementation of the P-Index voltage Stability Indicator	\$302,984
·	Tennessee Valley Authority	Validation of Transmission System Model for Local Oscillations and PSS Design	\$24,554
	National Science Foundation	CAREER: Maximizing Performance and Reliability of Advanced Electronics Technologies through Stochastic Modeling	\$500,000
Loveless, Thomas	National Science Foundation	REU Site: An Interdisciplinary CubeSat Research and STEM Education Platform at the University of Tennessee at Chattanooga (UTChattSat)	\$359,783
	Vanderbilt University	Amend. No. 1 to Fundamental Research into Radiation Resiliency of Emerging Circuit Technologies Appropriate to CWMD Mission	\$35,426
Pack, Daniel		Confidential	\$4,100
Rasouli Disfani, Vahid		Preliminary Proposal: Grid Integration of Solar Photovoltaic Systems through Modular Multilevel Converters with Cell Level Power Electronics Submodules	\$0
	Department of Energy	High-Efficiency, High-Reliability Grid Integration of Solar Photovoltaic Systems via Bidirectional Modular Multilevel Converters with Simultaneous Maximum Power Point Tracking and Power Flow Control Capabilities	\$1,681,637
Reising, Donald	Defense Advanced Research Project Agency	Radio Identification from Unbiased Deep Learning Models (RIFUDLM)	\$2,762,747

LEAD PI/PD	FUNDER	TITLE	AMOUNT
	Southeastern Center for Electrical Engineering Education	RF-DNA Fingerprinting: Assessing the Impact of Extrinsic Sources on Waveform Coloration	\$24,883
		Preliminary Proposal: Smart Building through Smarter Models	\$0
	Department of Energy	Preliminary Proposal: Making the Smart Grid Smarter through Electrical Disturbance Identification	\$0
	ENGI	INEERING MANAGEMENT & TECHNOLOGY	
Abrha, Wolday	Tennessee Department of Transportation	Best Strategies for Hiring, Retaining, and Utilizing Minorities and Women	\$69,605
		Real-world Additive Manufacturing Projects for Underrepresented Participants (RAMP UP)	\$1,005,619
Alp, Neslihan	National Science Foundation	2+2 MET: Developing an Industry-Responsive Mechatronics AAS to BAS Pipeline for Engineering Technicians	\$586,997
Malaan Alda	Tennessee Department of	Autonomous Truck Mounted Attenuator (TMA) Pilot – RNS (17)	\$109,146
McLean, Aldo	Transportation	Truck Parking Needs in TN – RNS (18)	\$134,215
Sokolov, Alexandr	Tennessee Department of Transportation	Roadside Pollinator Habitat – RNS (9)	\$148,084
	Oak Ridge Associated Universities	Travel Funds for Collaborative Research	\$200
	National Association of Home Builders	Preliminary Proposal: Homebuilding Education Leadership Program	\$99,373
Wang, Endong	Tennessee Department of Transportation	Rating and Inventory of TDOT Retaining Walls	\$149,857
	National Science Foundation	A Novel Core-factor-structure Based Object-oriented Hierarchical Benchmarking Method for Deep Commercial Building Energy Retrofitting	\$282,560
		MECHANICAL ENGINEERING	
Elliott, Trevor	Denso North America Foundation	Investigation and Implementation of Industrial Internet of Things (IIoT) Equipment and Software for Baja SAE Capstone Project	\$100,000
Sreenivas, Kidambi	SmartTruck Systems, LLC	CFD Study of the Impact of 2016 Truck/Trailer Combination on Drag Reduction Devices	\$5,205
	COLLEGE OI	F ENGINEERING AND COMPUTER SCIENCE	
······	CENT	ER FOR COMMUNITY CAREER EDUCATION	
Cole, Sandra	City of Chattanooga	CK, Now! Scholarships and Programming	\$10,750
·		HEALTH AND HUMAN PERFORMANCE	
Howard-Baptiste, Shewanee	Tennessee Department of Health	Preliminary Proposal - D.A.N.C.E.	\$79,111

LEAD PI/PD	FUNDER	TITLE	AMOUNT
	National Institutes of Health	A New Paradigm for Sport Injury Prevention and Reduction of Risk for Disability	\$417,798
Wilkerson, Gary	Department of Defense	Preliminary Proposal: Optimization of Neuromechanical Responsiveness	\$0
	International Olympic Committee Medical and Scientific Commission	Neuromechanical Responsiveness Testing and Training	\$99,546
	University of Arizona	Head Trauma: Measuring the Relation Between Cognitive Processes and Neuromechanical Function after Sports-Related Concussion	\$180,688
		INTERIOR DESIGN	
Kendall, Catherine	Tennessee Board of Architectural and Engineering Examiners	Professional Student Exam Fees and Computer Grant F2017	\$3,500
		NURSING	
	Health Resources and Services		
Hill, Linda	Administration	UTC 2018 NAT	\$0
Kemplin, Katharine	Department of Defense	Dramatic Subcutaneous Impedance Reduction: Ultra-Miniature External Defibrillator (UMED)	\$118,044
Smith, Christine	Erlanger Health System	Increasing the RN to BSN Enrollment in the Gateway Program 2017-19	\$190,394
		PHYSICAL THERAPY	-
Hanks, June	Tennessee Physical Therapy Association	Cross-Cultural Adaptability Study (US-DPT and Haitian PT students)	\$1,000
		SCHOOL OF EDUCATION	
Cowan, Kay	Tennessee Higher Education Commission	American and World History: Critical Turning Points	\$74,994
	Freeman Foundation	Freeman Foundation Teacher Professional Development Programs 2018-2019	\$17,996
Ellington, Lucien	Association for Asian Studies, Inc.	Education About Asia Journal 2018	\$81,192
		Track 1: UTChattanooga STEM Education Noyce Scholarship Program	\$1,447,293
Ellis, Jennifer	National Science Foundation	Gig City CS4All: Creating an Inclusive 21st Century Gig-Enabled Teaching and Learning Community	\$281,003
		STEM-powering State of Tennessee Education Majors (STEM2) Open Collaboratory	\$49,855
(amrath, Barry	Hilda and Preston Davis Foundation	Bullying and Female Adolescent Eating Disorders: Attitudes and Perceptions	\$98,789
	Vanderbilt University	Elementary and Middle Grades STEM	\$33,861
McAllister, Deborah	Tennessee Higher Education Commission	Using Technology to Support Geography Content and Social Studies Practices	\$74,994
Murlay Dorse		Tennessee Innovation in Preparation Grant	\$47,214
Murley, Renee	Tennessee Department of Education	Governor's School 2017-18	\$60,571

LEAD PI/PD	FUNDER	TITLE	AMOUNT
	Community Foundation of Greater	Chattanooga Teaching Fellows Program	\$615,000
	Chattanooga Incorporated		οτ <u>ο</u> ,000
	Lyndhurst Foundation	Residency Model	\$150,000
Pratt, Allen	Mississippi State University	National Research and Development Center - Improving Rural Education in the Deep South, Appalachia, and the Montana Frontier	\$608,372
		SCHOOL PSYCHOLOGY	
Guess, Pamela	Tennessee Department of Education	School Psychology Intern Program	\$845,712
		SOUTHEAST CENTER FOR EDUCATION	
	Shelby County Schools	2017 Arts Integration Workshops at Sherwood Elementary School, Memphis TN	\$5,302
	Hunter Museum of American Art	Art of Balance and Diagnosis	\$11,000
	Tennessee Arts Commission	Arts Learning Lab	\$10,000
Melnik, Laurie	Caplan Foundation for Early Childhood	Preliminary Proposal - MOCS BLOCS	\$99,614
	Marion County	Literacy and the Arts: Increasing Access Across the Classroom, Curriculum and Community	\$26,594
	Lyndhurst Foundation	Arts Pathways Plan	\$89,824
		SIM CENTER	
Qin, Hong	National Science Foundation	Spokes: MEDIUM: SOUTH: Collaborative: Integrating Biological Big Data Research into Student Training and Education	\$549,885
Sartipi, Mina	National Science Foundation	CI-New: Collaborative Research: A Sandbox for Fostering Smart City Development	\$1,839,569
Skjellum, Anthony	National Science Foundation	SHF: Small: Collaborative Research: Coupling Computation and Communication in FPGA-Enhanced Clouds and Clusters	\$186,192
		REU Supplement for SHF: Small: Collaborative Research: Coupling Computation and Communication in FPGA-Enhanced Clouds and Cluster	\$16,000
		Collaborative Research: CICI: Regional: SouthEast SciEntific Cybersecurity for University Research (SouthEast SECURE)	\$60,949
		SHF-Small: Collaborative Research: In-Situ Analytics for Petascale and Exascale Applications	\$227,432
		CICI: Data Provenance: Collaborative Research: Provenance Assurance Using Currency Primitives	\$195,388
		Supplement for CICI: Data Provenance: Collaborative Research: Provenance Assurance Using Currency Primitives	\$39,078
		SHF-Small: Collaborative Research: Transforming MPI Applications for Scalability	\$235,432

LEAD PI/PD	FUNDER	TITLE	AMOUNT
		SaTC: CORE: Small: Collaborative: Compiler-Assisted Secure Sensor Networks	\$173,966
		REU Supplement for CICI Grant –SeSecure	\$16,000
		Practical Community Prototyping for MPI-Next: Functionality and Performance, Best Practices and Rapid Adoption	\$1,910,712
		CPS: Medium: Collaborative Research: RUI: Identity, Trust, and Resilient Architecture for IoT/CPS at Scale	\$489,663
		CPS: Medium: Collaborative Research: Power-Consumption-based Detection & Analysis of Sabotage Attacks in Additive Manufacturing (PowerDetect)	\$328,534
		CRI Preliminary: CI-P: Building a Federated IBM Power-based Cloud and Community for Heterogeneous HPC and Data Science	\$1
		SHF: Medium: Collaborative Research: Next-Generation Message Passing for Parallel Programming: Resiliency, Time-to-Solution, Performance-Portability, Scalability, and QoS	\$539,740
		REU Supplement for CICI Grant –Blockchain	\$16,000
		SaTC: CORE: Small: Collaborative: An Holistic Framework for Securing CPS/IoT Infrastructure	\$186,662
	Lawrence Livermore National Laboratory	Fast Failure Recovery Methods MPI Applications	\$59,816
	Clemson University	CICI: RDP: Collaborative Research: Contracts and Distributed Data Ledgers to Enforce Science Data Conformance	\$479,803
	Pointwise, Inc.	Mesh curving for higher order applications	\$99,982
Sreenivas, Kidambi	Auburn University	Robust Scale Resolving Turbulence Models for Higher-Order Streamlined Upwind Petrov-Galerkin Finite-Element Methods	\$310,667
		ADMINISTRATIVE UNITS	
		CONTINUING EDUCATION	
Freeze, John	Tennessee Office of Criminal Justice Programs	Crucial Conversations in a Law Enforcement setting with a Domestic Violence focus	\$62,918
		ENROLLMENT SERVICES	
Freeman, Yancy	Tennessee Higher Education Commission	UTC Summer Bridge Experience	\$70,500
·		INTERNATIONAL EDUCATION	
		Social Entrepreneurship SUSI Institute	\$195,399
Suzuki, Takeo	FHI 360	2018 Study of the U.S. Institutes for Student Leaders on Women's Leadership	\$199,858
Suzuki, Lakeo			

LEAD PI/PD	FUNDER	TITLE	AMOUNT
		LIBRARY	
Runyon, Carolyn	National Historical Publications and Records Commission	Opening Access: Building Finding Aids for the Chattanooga History Collections	\$96,890
		STUDENT AFFAIRS	
	HHS Substance Abuse and Mental		¢201.625
Henderson, Tricia	Health Services	UTC GLS Suicide Prevention Project	\$301,625 \$373,427
Oglesby, Carol	American Cancer Society	Chattanooga Mental Health Partnership Project SmokeFree UTC	\$12,000
Jglesby, Carol	American cancer society		\$12,000
		UNIVERSITY RELATIONS	
Heddleston, George	Corporation for Public Broadcasting	FY 2018 Radio Community Service Grant	\$121,948
		VICE CHANCELLOR FOR RESEARCH	
Carroll, Andrew	Mainspring Conservation Trust	Mainspring Conservation Trust - Application Development	\$22,214
	Lyndhurst Foundation	GreenSpaces Mapping Support	\$10,000
Heath, Gregory	University of California, San Diego	Learning from the Lancet - ODV+	\$0
	Oak Ridge Associated Universities	Tennessee University-Business Showcase	\$4,000
	Enterprise Center	East Lake Walk Sheds	\$250
		Spatial Analysis and Mapping of Historic Tax Data for Chattanooga, Tennessee	\$1,438
Mix, Charles	Land Between The Lakes Association Inc.	TN Valley Water Trails Data Update	\$1,799
	American Rivers	Tuckasegee River Trail Map Design	\$3,229
Romagni, Joanne	Tennessee Higher Education	Center for Excellence in Applied Computational Science & Engineering	\$1,171,986
	Commission		
	UC Foundation	Academic Initiatives and Educational Excellence Projects	\$1,120,000
		Total Proposed Funding	\$42,944,804

UTC OFFICE OF RESEARCH & SPONSORED PROGRAMS



109 RACE HALL (423) 425-4431 WWW.UTC.EDU/ORSP

Meredith Perry Executive Director (423) 425-2232 meredith-perry@utc.edu

Angie Johnson Assistant Director (423) 425-5399 angie-johnson@utc.edu

Todd Doman Grant Specialist (423) 425-5868 todd-doman@utc.edu

Sam Stanley Grant Specialist (423) 425-4168 sam-stanley@utc.edu

Tracey Woodbury Contract Specialist (423) 425-5968 Tracey-Woodbury@utc.edu

Terri Bearbower Research Office Manager (423)425-1743 terri-bearbower@utc.edu