

# Sponsored Program Activity Quarterly Report

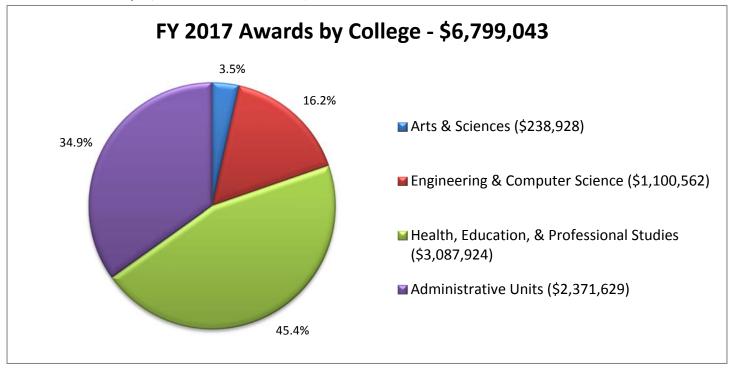
#### Office of Research & Sponsored Programs

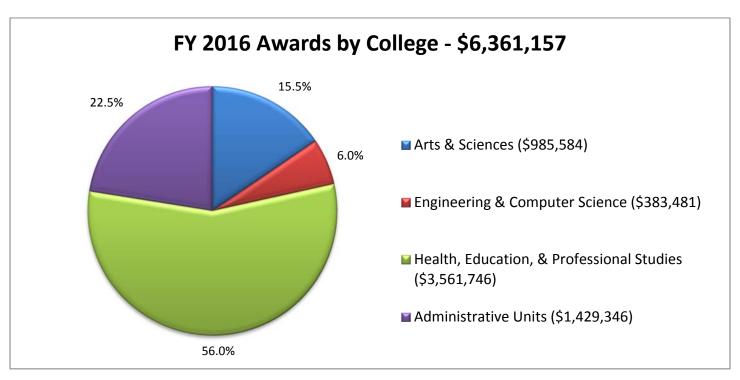
The information contained in this report is drawn from the Evisions database and provides comparisons of the amounts of external funding for the first and second quarters of FY 16 and FY 17. This report includes all proposals that completed internal routing and were marked as fully "approved" and all awards that were processed and entered into the system as of December 31, 2016. 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.

Only units with sponsored program activity during one or both of these periods are represented in this report. For the purposes of this report, proposals and awards are listed under the administrative unit listed in Evisions. Many proposals include interdisciplinary collaborations that are not captured in this report. Following the charts are lists of grants awarded and submitted year-to-date in FY 17. If any of the information in this report does not correspond to your records, please notify orsp@utc.edu.

#### **UTC Grant Awards**

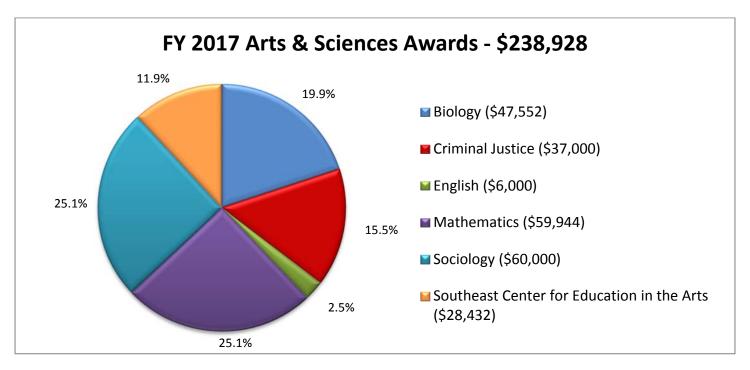
Year-to-date: July 1, 2016- December 31, 2016

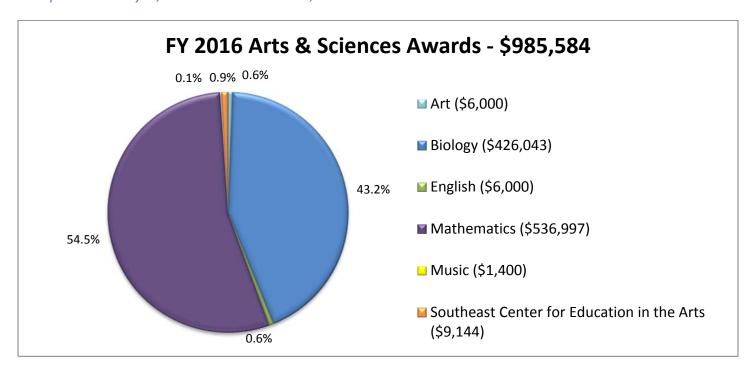




### Grant Awards: College of Arts & Sciences

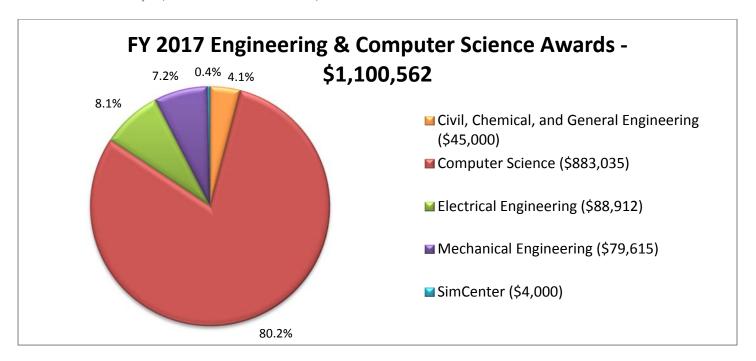
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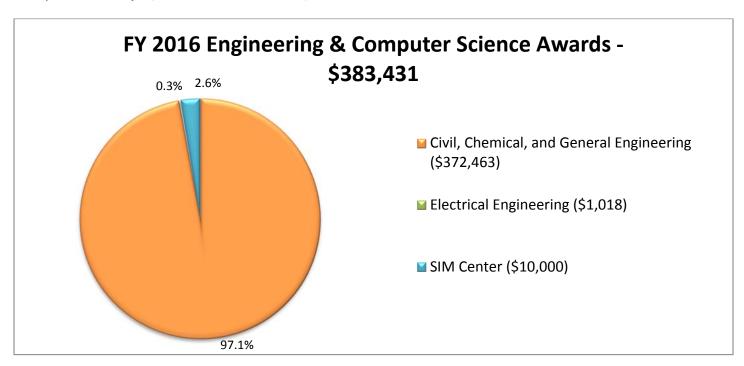




### Grant Awards: College of Engineering & Computer Science

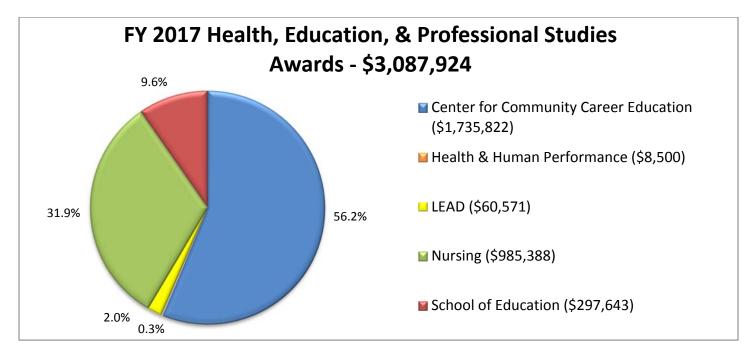
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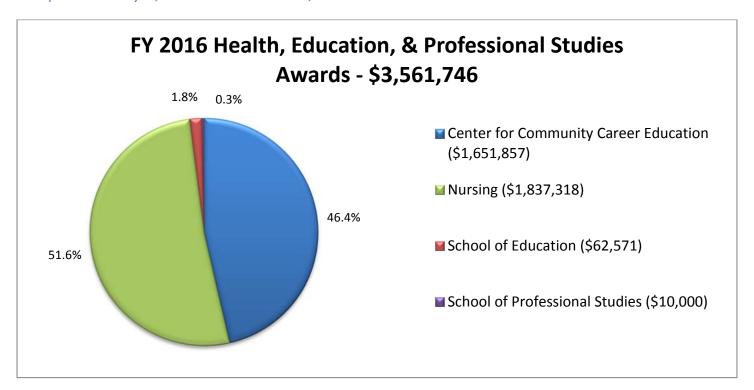




### Grant Awards: College of Health, Education, & Professional Studies

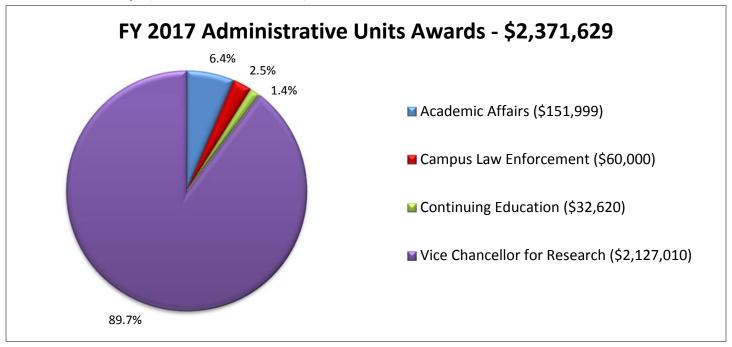
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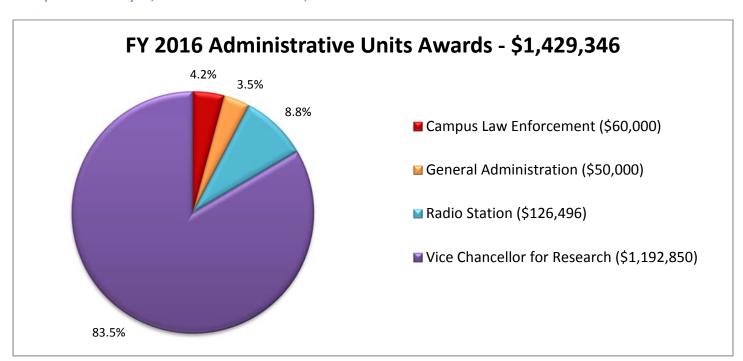




### **Grant Awards: Administrative Units**

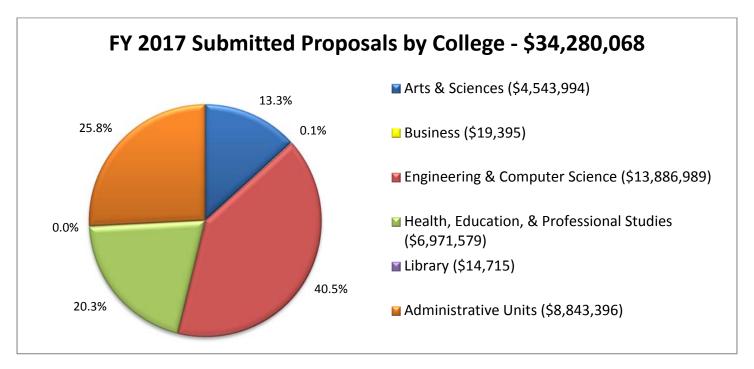
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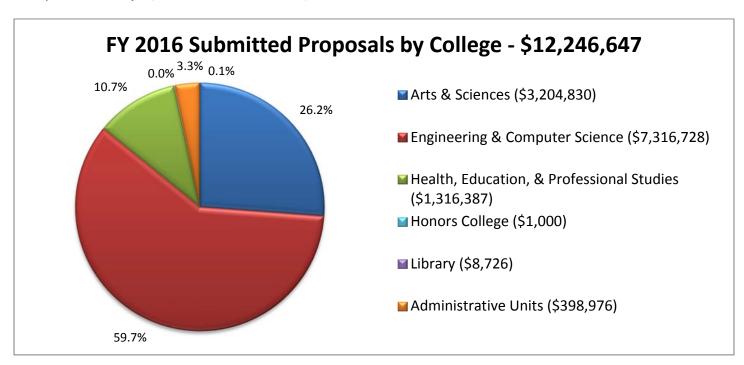




### **UTC Submitted Proposals**

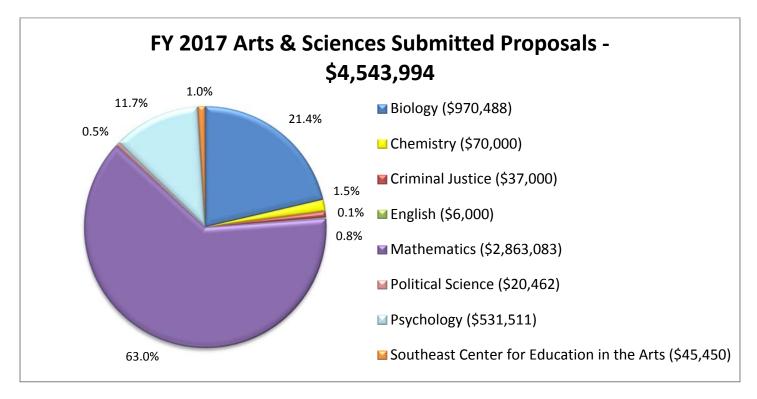
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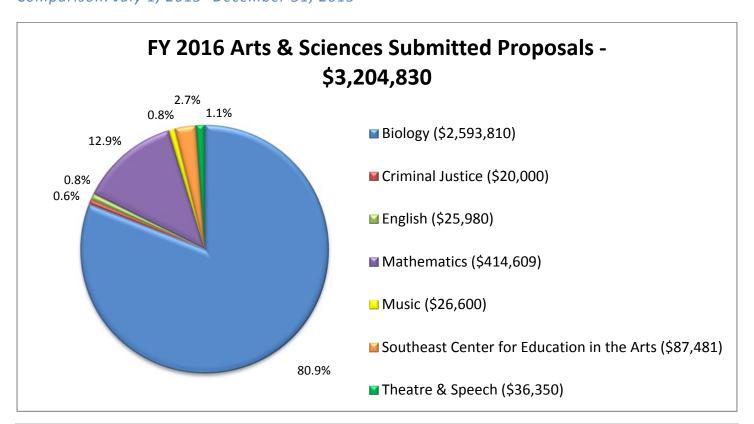




### Submitted Proposals: College of Arts & Sciences

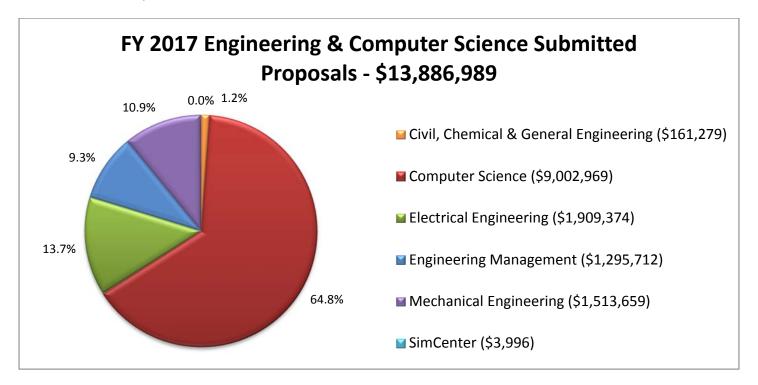
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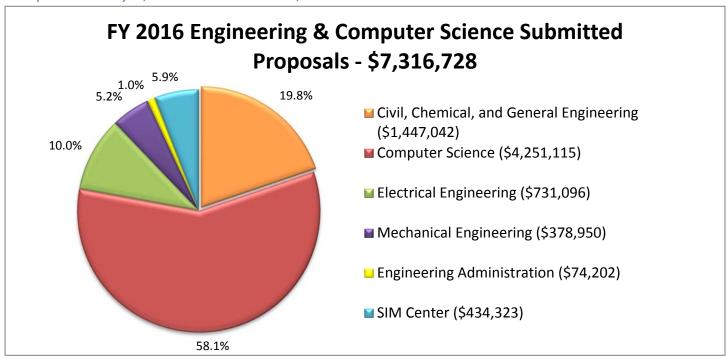




# Submitted Proposals: College of Engineering & Computer Science

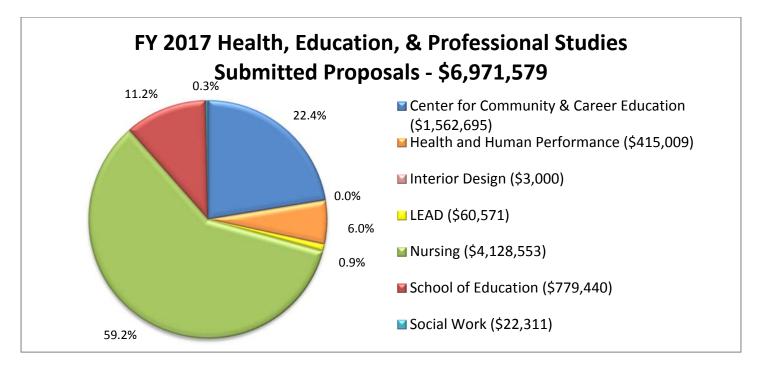
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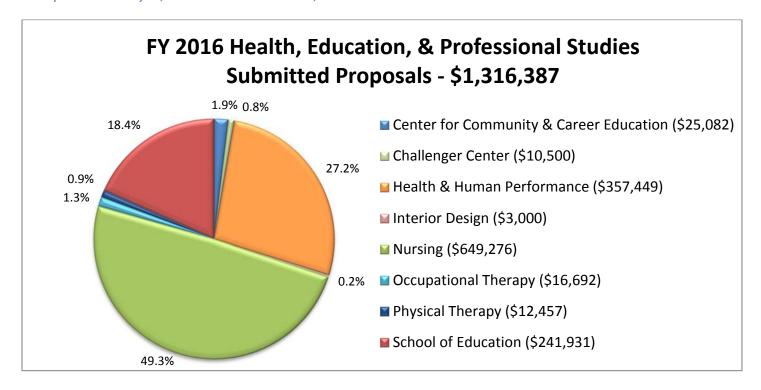




# Submitted Proposals: College of Health, Education, & Professional Studies

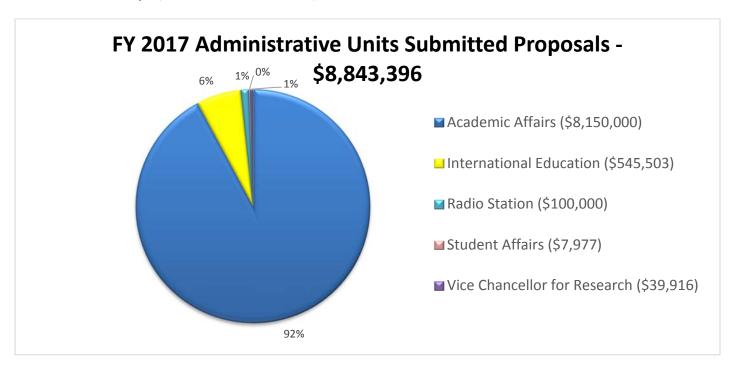
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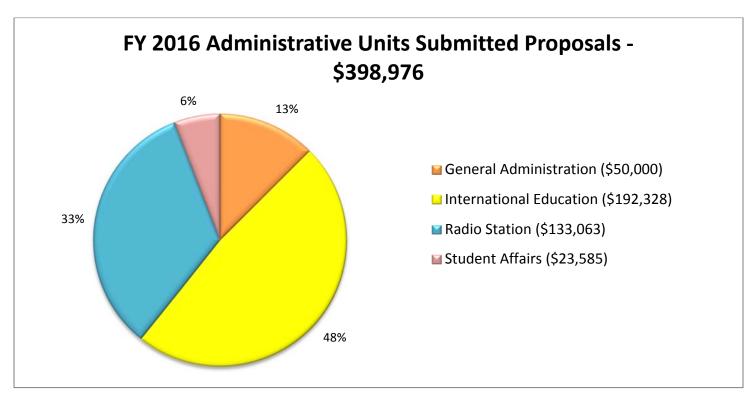




### Submitted Proposals: Administrative Units

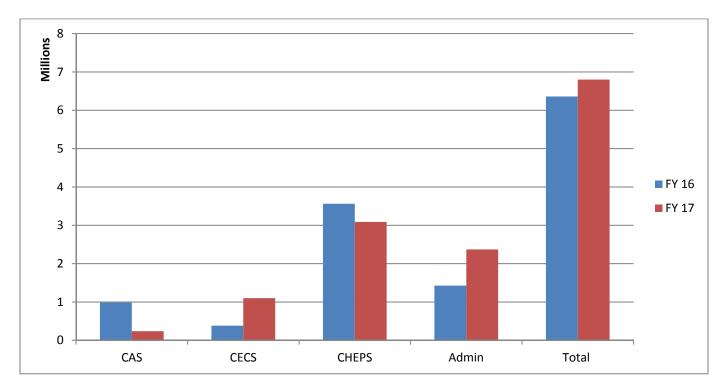
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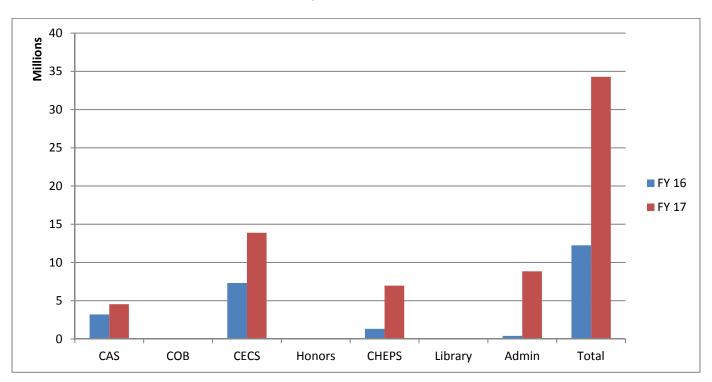


### Awards & Submitted Proposals Comparison

#### 2nd Quarter Year-to-Date Awards



#### 2nd Quarter Year-to-Date Submitted Proposals



### FY 2017 Awards

Notes: Awards are listed alphabetically by administering department and name of the lead PI, but many awards represent the collaborative efforts of multiple investigators and departments/units. Functional Areas (FA): AS= Academic Services; C/S = Conference/Seminar; IS = Institutional Support; I/T = Instruction/Training; PS = Public Service; R= Research; S/F = Scholarships/Fellowships; SS = Student Services.

	Awards by College								
PI	Sponsor	Department	Title	Amount	FA				
	Arts & Sciences								
Boyd, Jennifer	US Fish and Wildlife Service	Biology	Assessing and enhancing the success of transplantation to support Platanthera integrilabia conservation	\$22,354	R				
Shaw, Joey	Tennessee Native Plant Society	Biology	A Modern, Online Tennessee Plant Atlas	\$18,500	R				
Spratt, Henry	Richmar Medical Devices	Biology	Development of a Protocol to Disinfect GelShot Ultrasound Retaining Clips	\$6,698	R				
Bumphus, Victor	International Association of Chiefs of Police (IACP)	Criminal Justice	Service, Support & Justice: A Strategy to Enhance Law Enforcement Response to Victims Technical Assistance	\$37,000	R				
Noe, Marcia	Society for the Study of Midwestern Literature	English	Society for the Study of Midwestern Literature Journal Editing	\$6,000	IS				
Bao, Feng	Oak Ridge National Laboratory	Mathematics	Scattering Research	\$59,944	R				
Guo, Zibin	US Dept. of Veteran's Affairs	Sociology	Wheelchair Tai Chi Chuan as an Adaptive Sport for Veterans with Ambulatory Disability	\$60,000	PS				
Melnik, Laurie	Hunter Museum of American Art	Southeast Center for Education	STEEEP to STEEEPER Medical Student Training	\$11,000	I/T				
	Tennessee Arts Commission	Southeast Center for Education	The 10th Annual Arts & Education Forum Series	\$7,000	I/T				

	Shelby County Schools	Southeast Center for Education	Arts Integration Workshops at Sherwood Elementary School, Memphis TN	\$10,432	I/T
		Engineering & Co	omputer Science		
Sartipi, Mina	National Science Foundation	Computer Science	US Ignite: Collaborative Research: Focus Area 1: Fleet Management of Large-Scale Connected Autonomous Vehicles	\$298,325	R
	National Science Foundation	Computer Science	Collaborative Research: Robust Asset-and-User-Aware Power Grid Dispatch during Extreme Temperatures	\$119,829	R
Wu, Dalei	National Science Foundation	Computer Science	US Ignite: Collaborative Research: Focus Area 1: Fiber Network for Smart Mapping, Monitoring and Managing Underground Urban Infrastructure	\$299,884	R
Yang, Li	National Science Foundation	Computer Science	CyberCorps: Collaborative Research: Building Security Education Capacity through POGIL	\$164,997	R
Rollins, Alex	Precast/Prestressed Concrete Institute	Engineering Chemical	Efficient Modular Wall Systems for New Construction and Retrofit	\$45,000	R
Pack, Daniel	University of Texas - San Antonio	Engineering Electrical	Cognition and Neuroergonomics Collaborative Technology Alliance Technology Transition Subcontract for Mutually Adaptive Systems	\$88,912	R
Elliott, Louie	Gestamp	Engineering Mechanical	On the Simulation and Modeling of Sheet Metal Forming for Gestamp Chattanooga	\$79,615	R
Sreenivas, Kidambi	Oak Ridge National Laboratory	Engineering-SIM Center	Simulation of Pelton Turbine	\$4,000	R
		Health, Education, &	Professional Studies		
Boykin, Twyler	US Dept. of Education	Center for Community & Career Education	Upward Bound Math and Science	\$257,500	PS

Cole, Sandra	Tennessee Higher Education Commission	Center for Community & Career Education	Each One Reach One (EORO)	\$49,992	SS
Gholston, Shirl	US Dept. of Education	Center for Community & Career Education	Student Support Services FY16-FY21	\$293,288	SS
Huckabay, Hunter	US Dept. of Education	Center for Community & Career Education	GEAR UP in Hamilton County, TN 2011-2018	\$624,104	AS
Long, Cynthia	US Dept. of Education	Center for Community & Career Education	Southern Appalachian Educational Opportunity Center	\$270,938	AS
Vann, Karen	US Dept. of Education	Center for Community & Career Education	Talent Search	\$240,000	PS
Howard- Baptiste, Shewanee	Community Foundation of Greater Chattanooga	Health & Human Performance	D.A.N.C.E Determining Adolescents' Needs for Culturally- Appropriate Exercises: Investigating the Barriers to Physical Activity for Minority Female Adolescents	\$8,500	R
Crawford, Elizabeth	Tennessee Department of Education	LEAD	Governor's School for Prospective Teachers 2017	\$60,571	I/T
Hill, Linda	Health Resources and Services Administration	Nursing	CRNAs in 3D: Increasing Diversity, Reducing Disparities, & Understanding the Social Determinants of Health	\$343,633	AS
Smith, Christine	Health Resources and Services Administration	Nursing	COMPASS Project 2014-2017	\$299,401	AS

	Health Resources and Services Administration	Nursing	2016 UTC School of Nursing Advanced Education Nurse Traineeships (2016 AENT)	\$342,354	S/F
Ellington, Lucien	Charles Koch Foundation	School of Education	Center for Reflective Citizenship Teaching Fellows Program	\$24,844	C/S
Gamble, Ethel	US Dept. of Education	School of Education	Teachers Helping English Language Proficiency (HELP)	\$272,799	AS
		Administra	ntive Units		
Benkert, Stuart	Tennessee Higher Education Commission	Academic Affairs	The Summer Success Experience: Supporting the Progression of Low- Income Students	\$151,999	SS
Carroll, Andrew	Benwood Foundation	Vice Chancellor for Research	Support of Geographic Information System (GIS) services by Center for Academic and Innovative Technologies (CAIT)	\$15,000	R
Carver, Ethan	National Science Foundation	Vice Chancellor for Research	ASPIRE: Appalachian Students Promoting the Integration of Research in Educations	\$2,112,010	S/F
Hamilton, Craig	Tennessee Office of Criminal Justice Programs	Campus Law Enforcement	Making our Campus Safer (MOCS)	\$60,000	IS
Freeze, John	Institute of Public Service	Continuing Education	Southeastern Command and Leadership Academy (SECLA)	\$11,500	I/T
Reese, Virginia	Institute of Public Service	Continuing Education	Southeastern Command and Leadership Academy (SECLA)	\$21,120	I/T

### FY 2017 Submitted Proposals

Notes: Proposals are listed alphabetically by administering department and name of the lead PI, but many awards represent the collaborative efforts of multiple investigators and departments/units. Functional Areas (FA): AS= Academic Services; C/S = Conference/Seminar; IS = Institutional Support; I/T = Instruction/Training; PS = Public Service; R= Research; S/F = Scholarships/Fellowships; SS = Student Services.

		Submissio	ns by College		
Lead PI	Sponsor	Department	Title	Amount	FA
		Arts &	Sciences	T	T
Boyd, Jennifer	US Fish and Wildlife Service	Biology	Assessing and enhancing the success of transplantation to support  Platanthera integrilabia conservation	\$22,354	R
	National Science Foundation	Biology	RUI: Collaborative Research: Reasons for Rarity? Exploring Acclimatory and Adaptive Constraints to Commonness	\$356,009	R
Giles, David	Cystic Fibrosis Foundation	Biology	qPCR and Structural Analyses of <i>P. aeruginosa</i> Following Fatty Acid Exposure	\$106,619	R
	The Hearst Foundation, Inc.	Biology	Minority Women in Science Endeavor (M-WISE)	\$210,230	S/F
Hayes, Loren	Alliance of Women Philanthropists - Giving Circle	Biology	M-WiSE: Minority Women in Science Endeavor	\$24,825	I/T
Hossain, A.K.M.	University of Mississippi (UM)	Biology	Monitoring groundwater storage changes in the Mississippi Delta using downscaled GRACE data to support sustainable agricultural water management	\$231,951	R
Shaw, Joey	Tennessee Native Plant Society	Biology	A Modern, Online Tennessee Plant Atlas	\$18,500	R
Lee, John	American Chemical Society Petroleum Research Fund	Chemistry	Using Earth Abundant Cobalt to Explore Precious Metal Homogeneous Catalysis Involving Inert Chemical Bonds	\$70,000	R
Bumphus, Victor	International Association of	Criminal Justice	Service, Support & Justice: A Strategy to Enhance Law Enforcement	\$37,000	R

	Chiefs of Police (IACP)		Response to Victims Technical Assistance		
Noe, Marcia	Society for the Study of Midwestern Literature	English	Society for the Study of Midwestern Literature Journal Editing	\$6,000	IS
Bao, Feng	Oak Ridge National Laboratory	Mathematics	Scattering Research	\$59,945	R
	National Science Foundation	Mathematics	RUI: Efficient Adaptive Backward SDE Methods for Nonlinear Filtering Problems	\$133,512	R
Barioli, Francesco	Tennessee Higher Education Commission	Mathematics	Algebra and Pre-Algebra Applications for Learning and College Readiness Assessment Exam (ACT) Preparation	\$74,854	I/T
Jackson, Billy	National Science Foundation	Mathematics	Preparing the University of Tennessee Chattanooga for STEM Teacher Leadership	\$48,204	R
	Tennessee Higher Education Commission	Mathematics	Putting STEM Into STEM	\$71,263	I/T
Ledoan,	University of Tennessee - Chattanooga	Mathematics	REU Site: Number Theory, Probability Theory, and Dynamical Systems	\$274,727	R
Andrew	American Mathematical Society	Mathematics	Chattanooga Math Circle Summer Camp	\$13,245	C/S
Wang, Jin	National Institutes of Health	Mathematics	Mathematical and Computational Modeling of Waterborne Diseases	\$1,165,172	R
	National Science Foundation	Mathematics	Investigating the Pathogen Evolution in Waterborne Enteric Infections	\$1,022,161	R
Mauldin, Marcus	UT Alliance of Women Philanthropists	Political science	Remedying Chattanooga Food Deserts Through Understanding, Awareness, Education and Advocacy	\$20,462	R
Shelton, Jill	National Science Foundation	Psychology	NSF CAREER - Revealing the Dynamic Nature of Prospective Memory	\$531,511	R

Guo, Zibin	US Dept. of Veteran's Affairs	Sociology	Wheelchair Tai Chi Chuan for Veterans	\$0	PS
Baxley, Joel	National Endowment for the Arts	Southeast Center for Education	Chattanooga Area Arts Education Needs Assessment	\$13,939	R
Melnik, Laurie	National Endowment for the Arts	Southeast Center for Education	I Come From a Place: A cross- generational, multidisciplinary in- school residency.	\$20,511	I/T
	Hunter Museum of American Art	Southeast Center for Education	STEEEP to STEEEPER Medical Student Training	\$11,000	I/T
		Bus	siness		
Culpepper, Sue	UT Alliance of Women Philanthropists	College of Business Administration	UTC College of Business Student Career Closet Renovation	\$9,895	SS
Jain, Hemant	Georgia Tech Research Corporation	College of Business Administration	Big Data Infrastructure for Smart City Preproposal	\$0	R
Gupta, Ashish	National Science Foundation	Management	BD Hubs: Collaborative Proposal: SOUTH: A Big Data Innovation Hub for the South Region	\$0	R
Brockman, Beverly	UT Alliance of Women Philanthropists	Marketing	Southeast Entrepreneurship Conference Proposal	\$9,500	C/S
		Engineering & (	Computer Science		
Rollins, Alex	Precast/Prestressed Concrete Institute	Civil, Chemical, & General Engineering	Efficient Modular Wall Systems for New Construction and Retrofit	\$45,000	R
	Pincelli and Associates, Inc.	Civil, Chemical, & General Engineering	Applied Research in Materials Testing	\$116,279	R
Kandah, Farah	National Science Foundation	Computer Science	CAREER: Adopted Networking Design to Improve the Network Performance in Crowded and Critical Situations	\$536,368	R
	National Science Foundation	Computer Science	CC* Networking Infrastructure: Bandwidth Obtained for Learning	\$492,885	R

			Science, Technology, Engineering, and Research (BOLSTER)		
	Office of Science	Computer Science	PRELIM Proposal: Software Defined Network Utilization to Improve the Network Performance in Collaborative Virtual Labs	\$0	R
	US Dept. of Energy	Computer Science	Software Defined Network Utilization to Improve the Network Performance in Collaborative Virtual Labs	\$806,400	R
McCullough,	National Science Foundation	Computer Science	One Small STEP (STEM Enhancement Program) to Mars	\$296,965	R
Claire	Alliance of Women Philanthropists - Giving Circle	Computer Science	Plugging the Leaky Pipeline: Increasing Women's Participation in Computer Science	\$16,722	PS
Qin, Hong	National Science Foundation	Computer Science	REU Site: IComputeB2 - Engaging Undergraduates in Interdisciplinary Computing for Biological and Biomedical Research	\$321,489	R
	National Institute on Aging	Computer Science	Connecting the emergent aspects of gene networks to cellular aging	\$3,362,336	R
Sartipi, Mina	National Science Foundation	Computer Science	SCH: INT: RUI: Collaborative Research: Improving Post-stroke Management Efficiency and Patient Outcomes through Analytics	\$869,784	R
Wu, Weidong	National Science Foundation	Computer Science	CAREER: Small Scale Lab Experiments and Computer Methods for Levee and Dam Rapid Repair Technologies	\$547,414	R
	National Institute of Standards and Technology	Computer Science	RAMPS: Building a Regional Partnership to Increase Cybersecurity Workforce project.	\$136,840	I/T
Yang, Li	National Science Foundation	Computer Science	Collaborative Research: SFS Program: Strengthening the National Cyber Security Workforce	\$1,540,766	S/F
	Prairie View A and M University (PVAMU)	Computer Science	Developing Innovative Privacy Learning Modules to Engage Students in Cybersecurity Education	\$75,000	R

Pack, Daniel	University of Texas - San Antonio (UTSA)	Electrical Engineering	Cognition and Neuroergonomics Collaborative Technology Alliance Technology Transition Subcontract for Mutually Adaptive Systems	\$88,912	R
Ahmed, Raga	Tennessee Higher Education Commission	Electrical Engineering	ASTUTE Teachers and Students: Applying STEM-Theme Unified Teaching to Empower Teachers and Students	\$68,821	I/T
, 0	Tennessee Board of Architectural and Engineering Examiners	Electrical Engineering	Board of Architectural and Engineering Examiners Grant Equipment, Library and Fees	\$29,645	IS
	National Science Foundation	Electrical Engineering	CAREER: Maximizing Computational Performance and Reliability in State- of-the-Art Near-Threshold Computing Technologies through Stochastic Modeling	\$500,000	R
Loveless, Thomas	National Reconnaissance Office	Electrical Engineering	Preliminary Proposal: Development of a Stochastic-Based Reliability Modeling Tool for Emerging IC Technologies	\$254,355	R
	National Science Foundation	Electrical Engineering	REU Site: An Interdisciplinary CubeSat Research and STEM Education Platform at the University of Tennessee at Chattanooga (UTChattSat)	\$322,155	R
	National Reconnaissance Office	Electrical Engineering	Preliminary Proposal - Wireless Device ID Using Compressive Sensing	\$181,916	R
Reising, Donald	National Science Foundation	Electrical Engineering	GOALI - Making the Smart Grid "Smarter" Through Real-Time Electrical Disturbance Identification	\$336,321	R
	University of Illinois at Urbana- Champaign (UIUC)	Electrical Engineering	Critical Infrastructure Resiliency Through RF-DNA Fingerprints	\$127,249	R

	National Science Foundation	Engineering Management Technology	EXCEL: EXploring Clean Energy through hands-on Learning	\$1,192,081	AS
	Tennessee Higher Education Commission	Engineering Management Technology	EXCEL: EXploring Clean Energy through hands-on Learning	\$73,991	I/T
Alp, Neslihan	Tennessee Board of Architectural and Engineering Examiners	Engineering Management Technology	Low-Income Community Design Studio	\$20,000	R
	UT Alliance of Women Philanthropists	Engineering Management Technology	Project-Based Learning (PBL) STEM Immersion	\$9,640	AS
Elliott, Louie	Gestamp	Mechanical Engineering	On the Simulation and Modeling of Sheet Metal Forming for Gestamp Chattanooga	\$79,615	R
	The PT Solution, LLC	Mechanical Engineering	PT Ribbon Rail Applied Research Proposal	\$259,877	R
Goulet, Ronald	Missile Defense Agency	Mechanical Engineering	Optimizing Flowability & Related  Material Properties of Thermal Battery  Powders	\$31,360	R
Margraves, Charles	National Science Foundation	Mechanical Engineering	Using a Zero+ Energy Building as a Pathway to STEM Careers	\$1,142,807	R
Sreenivas, Kidambi	Oak Ridge National Laboratory	SIM Center	Simulation of Pelton Turbine	\$3,996	R
		Health, Education, 8	& Professional Studies		
Brownlee, Belinda	US Dept. of Education	Center for Community & Career Education	UTC Upward Bound Program	\$1,556,695	SS
Cole, Sandra	Alliance of Women Philanthropists - Giving Circle	Center for Community & Career Education	CK, Now!	\$6,000	PS

Hamilton, Kara	Playcore	Health & Human Performance	Evaluating Impact of Adult Fitness Zones in Local Parks	\$0	R
Hathaway, Elizabeth	Benwood Foundation	Health & Human Performance	Start-Up Funds for Healthy Living Partnership in Collaboration with Governor's HealthierTN Initiative	\$7,500	PS
Howard- Baptiste, Shewanee	Community Foundation of Greater Chattanooga	Health & Human Performance	D.A.N.C.E Determining Adolescents' Needs for Culturally-Appropriate Exercises: Investigating the Barriers to Physical Activity for Minority Female Adolescents	\$16,091	R
Wilkerson, Gary	National Institutes of Health	Health & Human Performance	A New Paradigm for Sport Injury Prevention and Reduction of Risk for Disability	\$391,418	R
Kendall, Catherine	Tennessee Board of Architectural and Engineering Examiners	Interior Design	TBAEE Grant for Instructional Equipment UTC Interior Design F16	\$3,000	І/Т
Crawford, Elizabeth	Tennessee Department of Education	LEAD	Governor's School for Prospective Teachers 2017	\$60,571	I/T
Hill, Linda	Health Resources and Services Administration	Nursing	CRNA3D MAPS to Success - Mentorships, Admissions, Partnerships & Student Support	\$1,999,690	AS
Kemplin,	Department of Defense	Nursing	Prolonged & Extended Care Military Medics Evaluative Diagnostic (PECMMED): Training & Performance Assessment Model	\$1,169,414	R
Katharine	Department of Defense	Nursing	Military Medics Evaluative Diagnostic In Clinical Simulation (MMEDICS) Predictive Performance Assessment Model	\$959,449	R
Cowan, Kay	Tennessee Higher Education Commission	School of Education	Using Apps to Support Disciplinary Literacy and STEM Learning	\$74,906	I/T
Ellington, Lucien	Charles Koch Foundation	School of Education	Center for Reflective Citizenship Teaching Fellows Program	\$0	C/S

	National Science Foundation	School of Education	UT Chattanooga STEM Education Noyce Scholarship Program	\$0	S/F
Ellis, Jennifer	National Science Foundation	School of Education	Collaborative Research: STEM-MS Chattanooga: Transforming Middle Grades Education Through a STEM- Infused Learning Model	\$629,534	R
McAllister, Deborah	Tennessee Higher Education Commission	School of Education	Leveraging GLOBE Resources to Implement Middle Grades Science and Mathematics Standards	\$75,000	I/T
Cooley, Morgan	Community Foundation of Greater Chattanooga Incorporated	Social Work	Expanding Mental Health First Aid Chattanooga	\$9,248	PS
	Alliance of Women Philanthropists - Giving Circle	Social Work	Mental Health First Aid Training for College Students	\$13,063	PS
		Lit	prary		
Runyon, Carolyn	UT Alliance of Women Philanthropists	Library	Voices of African American Women Oral History Project	\$14,715	R
		Administ	rative Units		
Benker, Stuart	Tennessee Higher Education Commission	Academic Affairs	Maclellan Student Success Center: A Major Renovation of Maclellan Gymnasium	\$8,150,000	IS
	FHI 360	International Education	Young Transatlantic Leader Exchange: Entrepreneurship and Innovation	\$49,089	SS
Suzuki, Takeo	FHI 360	International Education	NEA/AC Student Leaders Program	\$297,986	I/T
	FHI 360	International Education	Social Entrepreneurship SUSI Institute	\$198,428	SS
Miller, Michael	Public Radio Exchange	Radio Station	Muslims in the Bible Belt Podcast	\$100,000	PS
Henkle, Jennifer	UT Alliance of Women Philanthropists	Student Affairs	UTC Food Pantry	\$7,977	SS

Carrol, Andrew	North Carolina Wildlife Resources Commission	Vice Chancellor for Research	Conservation Web Map for the Little Tennessee River Native Fish Conservation Area Partnership (NFCA)	\$39,916	R
Romagni, Joanne	Howard Hughes Medical Institute	Vice Chancellor for Research	Preliminary Proposal - Pathways to Advance Science Success (PASSport)	\$0	IS