



OFFICE OF PARTNERSHIPS & SPONSORED PROGRAMS
FY 2013 ANNUAL REPORT



THE UNIVERSITY of TENNESSEE 
CHATTANOOGA

In Memoriam

Dr. Barbara Cofey Medley

September 4, 1949 – July 29, 2013



Dr. Barbara Medley exemplified UTC's metropolitan mission of engagement, teaching, and scholarship. She joined the UTC faculty in 2000 and joyfully assumed the Directorship of the Community Outreach Partnership Center, a HUD-funded initiative that mobilized a diverse array of resources to build capacity within the Martin Luther King, Jr. neighborhood. Dr. Medley invested the same energy and passion into her role as Director of the Center for Applied Social Research, attracting more than \$800,000 in external funding to support applied scholarship, outreach, and engagement. Her efforts brought tremendous learning opportunities for UTC students and empowered countless individuals through advocacy and programmatic initiatives.

Dr. Medley made a difference through her relentless dedication to serving students, mentoring other faculty, bolstering UTC's orientation to community service, and advocating policies and programs to improve the lives of people in our region. Her kindness and compassion touched everyone with whom she interacted. Though she will be greatly missed by the campus community, her good works and many accomplishments will remain a lasting tribute to our dear friend and colleague, Barbara Medley.

UTC SPONSORED PROGRAM ACTIVITY



It is my distinct privilege to present the 2013 Office of Partnerships and Sponsored Programs (OPSP) Annual Report summarizing the successful efforts of the University of Tennessee at Chattanooga (UTC) faculty and staff to attract

resources that support excellence in research, engagement, and learning. This past year UTC has continued to have a major impact both regionally and nationally in the areas of educational innovation, research, and the creative arts. OPSP has enthusiastically supported faculty and staff in achieving this success and celebrates the achievements of our campus community.

This Annual Report is a reflection of the diversity found among our faculty and their disciplines as well as their commitment to excellence. The amount of extramural funding our faculty and staff applied for this past year reached almost \$26 million, and UTC garnered awards totaling more than \$10 million. OPSP would like to acknowledge and celebrate the success of UTC's exemplary faculty and staff. The projects highlighted in this report represent a panorama of regional, national, and international research, creative endeavors, educational service, and technological advances, all of which exemplify the UTC motto, "We Shall Achieve!"

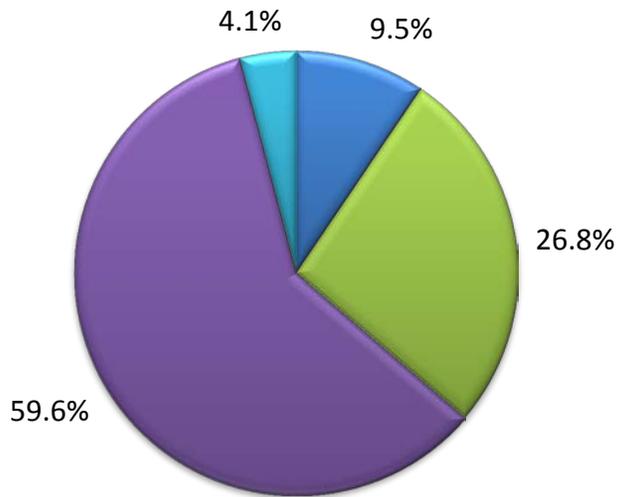
- Dr. Gregory Heath,
Assistant Provost for Research & Engagement

TABLE OF CONTENTS

UTC Sponsored Program Activity	2
Total External Awards/Submissions.....	3
Awards/Submissions by Functional Area.....	4
Ten-Year Funding Trends by College	5
Sponsored Activity by College	6
Arts & Sciences	6
Business	17
Engineering & Computer Science	19
Health, Education & Professional Studies.....	29
Administrative Units	39
About OPSP	47

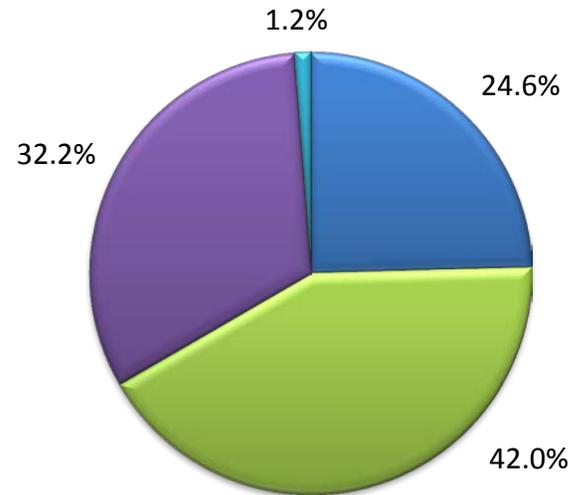
UTC SPONSORED PROGRAM AWARDS & SUBMISSIONS FY 2013

**Total UTC External Funding:
\$10,174,862**



- Arts & Sciences (\$964,040)
- Business Administration (\$0)
- Engineering & Computer Science (\$2,727,528)
- Health, Education & Professional Studies (\$6,065,969)
- Administrative Units (\$417,325)

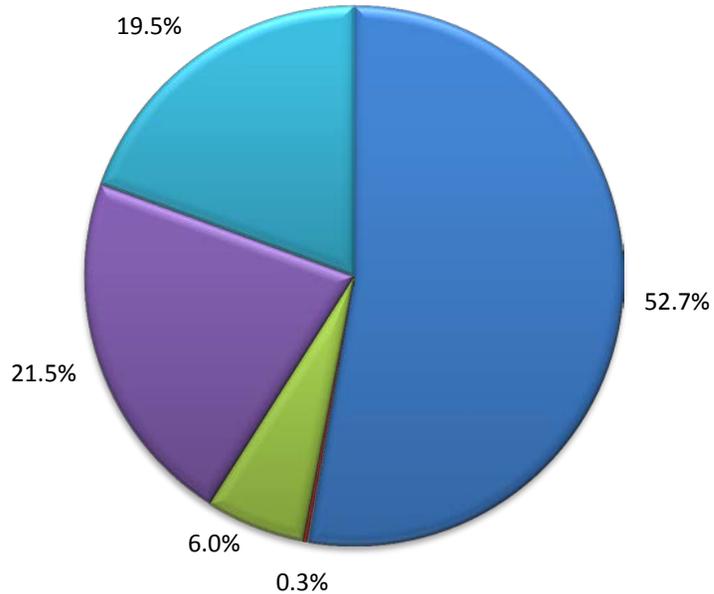
**Total External Funds Requested:
\$25,940,100**



- Arts & Sciences (\$6,376,755)
- Business Administration (\$0)
- Engineering & Computer Science (\$10,901,241)
- Health, Education & Professional Studies (\$8,343,265)
- Administrative Units (\$318,839)

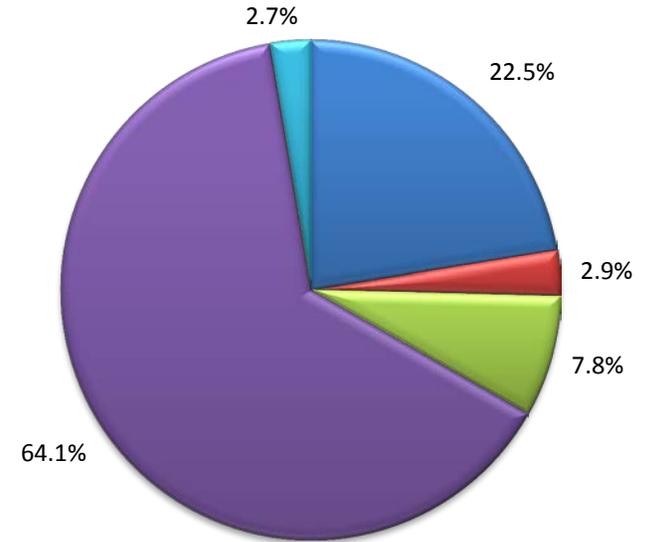
UTC SPONSORED PROGRAMS BY FUNCTIONAL AREA*

FY 2013 Awards by Functional Area



- Academic Services (\$5,363,793)
- Institutional Support (\$30,868)
- Public Service (\$609,798)
- Research (\$2,191,379)
- Scholarships or Fellowships (\$1,979,024)

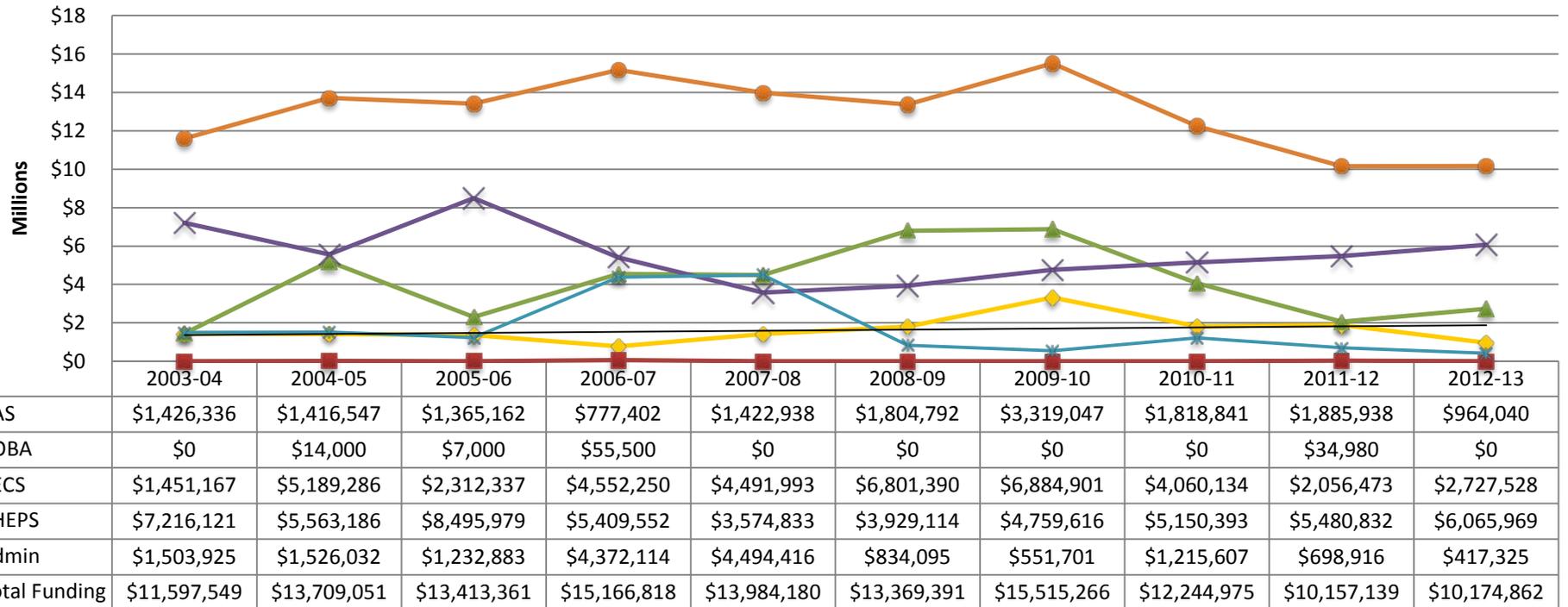
FY 2013 Submissions by Functional Area



- Academic Services (\$5,826,739)
- Institutional Support (\$763,133)
- Public Service (\$2,031,403)
- Research (\$16,630,518)
- Scholarships or Fellowships (\$688,307)

*For Functional Area definitions, see <http://www.utc.edu/partnerships-sponsored-programs/pdfs/tera-functionalarea-definitions.pdf>.

TEN-YEAR FUNDING TRENDS BY COLLEGE, FISCAL YEARS 2004 - 2013



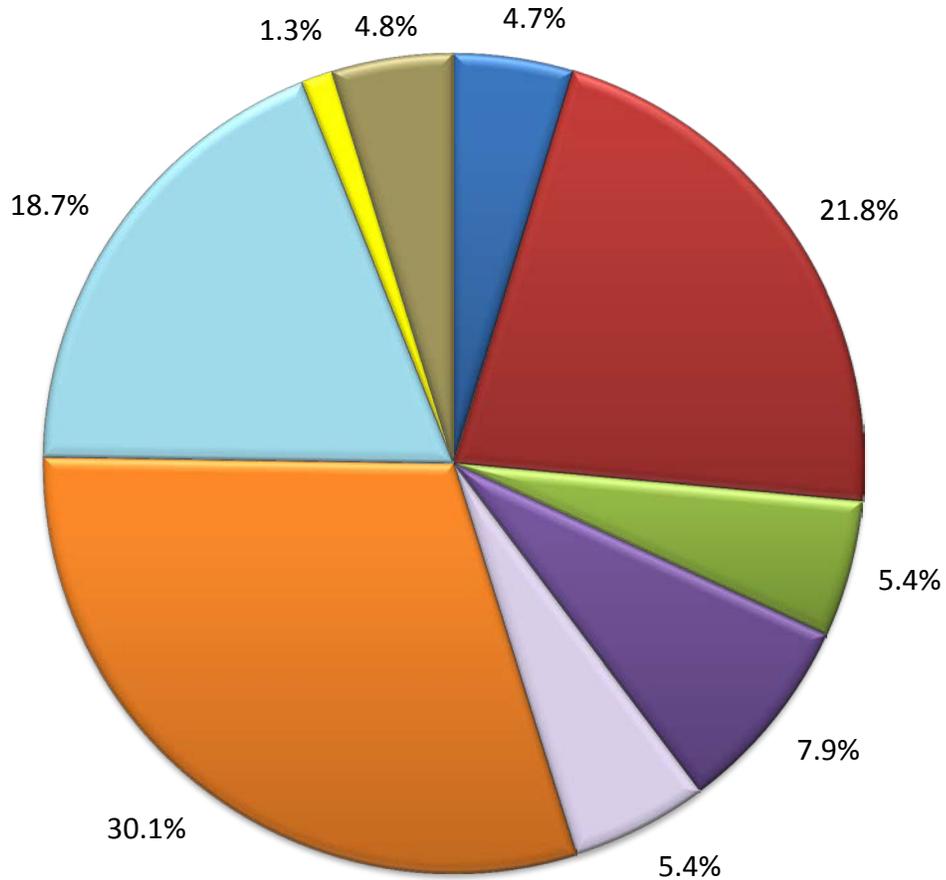
Notes:

CAS = College of Arts & Sciences; COBA = College of Business Administration; CECS = College of Engineering & Computer Science; CHEPS = College of Health, Education, and Professional Studies; Admin = Administrative/Other Units.



ARTS & SCIENCES

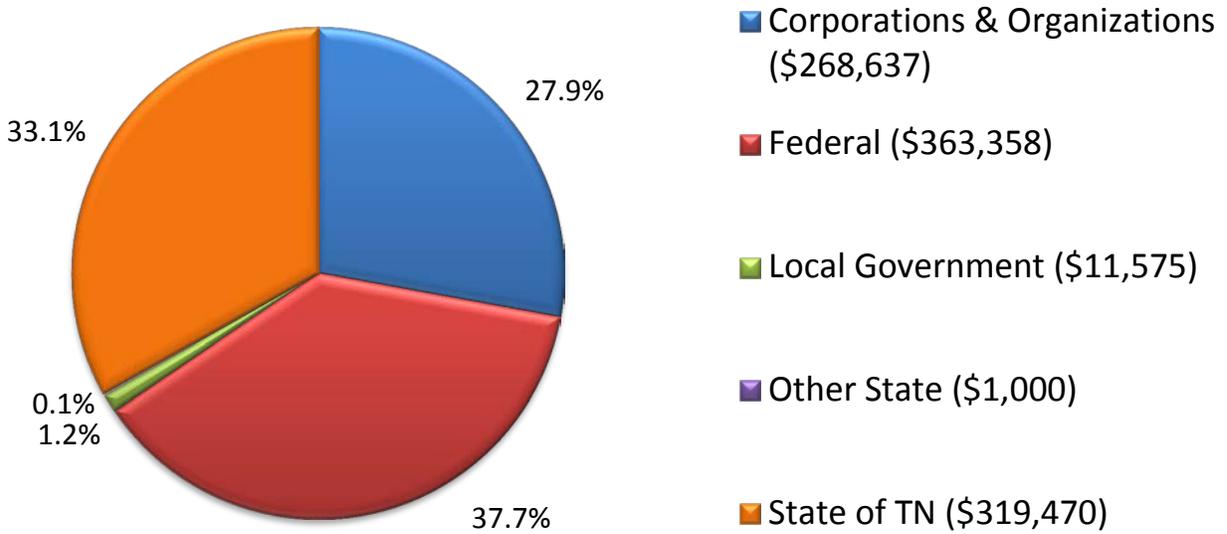
Total CAS External Funding: \$964,040



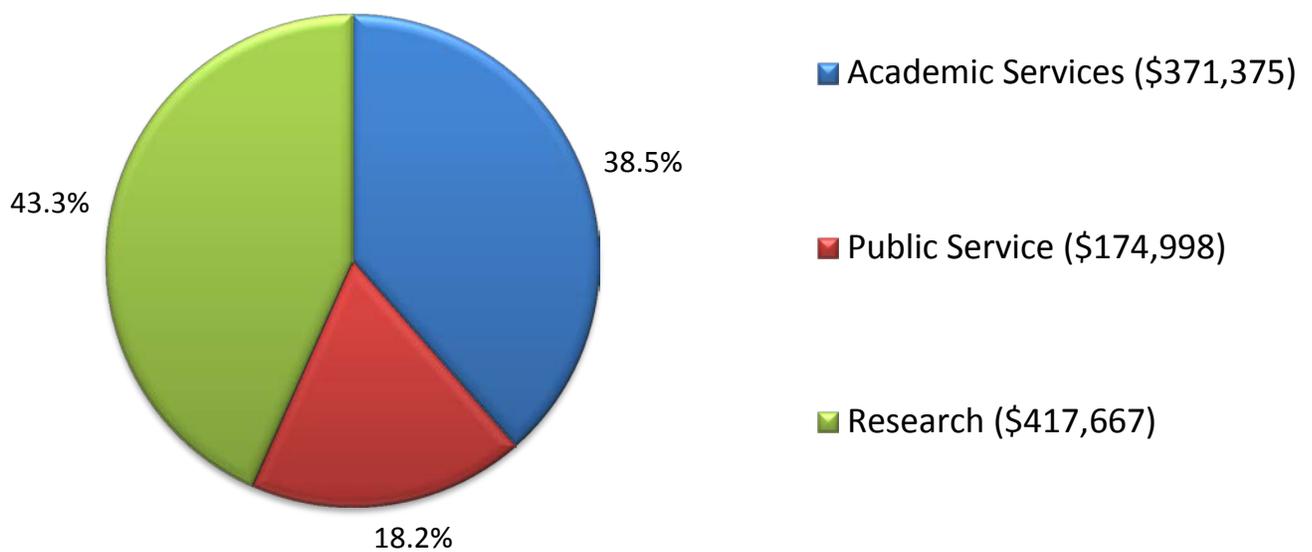
- Art (\$45,345)
- Biological & Environmental Science (\$209,886)
- Chemistry (\$51,965)
- English (\$76,158)
- Humanities (\$52,000)
- Mathematics (\$290,000)
- Psychology (\$180,611)
- Sociology, Anthropology & Geography (\$12,100)
- Southeast Center for Education in the Arts (\$45,975)

ARTS & SCIENCES

Awards by Source



Awards by Functional Area



ARTS & SCIENCES

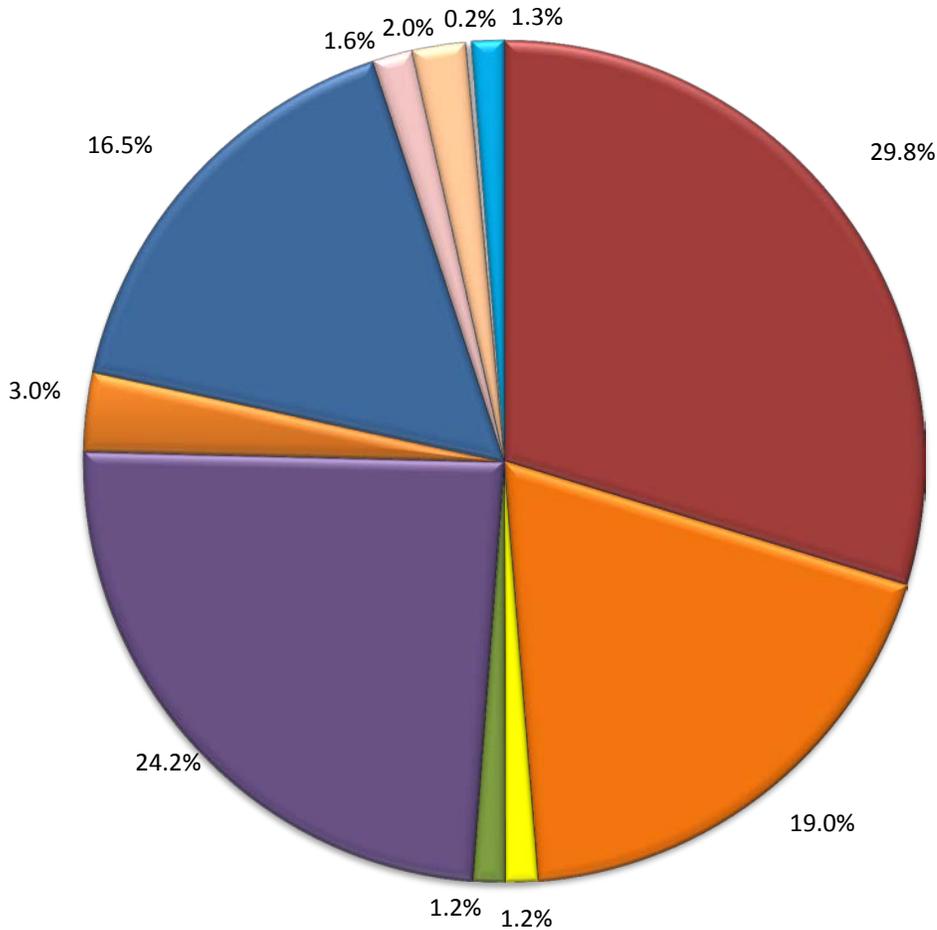
Awards by Department				
Lead PI/PD	Funder	Title	Amount	FA*
Art				
Matt Greenwell	Hunter Museum	Services of Contemporary Curator at Hunter Museum 2012-13	\$45,345	PS
Biological & Environmental Sciences				
David Aborn	TN Dept of Environment & Conservation	Population Biology of Northern Saw-whet Owls in South Cherokee National Forest Year 1	\$3,500	R
Jennifer Boyd	TN Army National Guard	Invasive Species Survey and Disturbance and Rare Species Impact Assessments in the Tennessee Army National Guard Volunteer Training Sites	\$89,000	R
		Monitoring of the large-flowered skullcap (<i>Scutellaria montana</i>) on Tennessee Army National Guard Volunteer Training Site (VTS) in Catoosa County, GA	\$18,926	R
	U.S. Dept of Interior – Fish & Wildlife Service	How Do Light and Soil Moisture Availability Affect <i>Platanthera integrilabia</i> Growth and Reproduction?	\$7,398	R
Loren Hayes	Univ. of Louisiana at Monroe	U.S. Chile IRES: Intraspecific variation in the social behavior of Chilean Rodents - ecology, mechanism, and fitness	\$50,280	R
	Community Foundation of Greater Chattanooga	The Chile-Chattanooga Connection: Improving STEM Education for K-12 and University Students	\$15,000	R
Peggy Kovach	UT Health Science Center – CTSI/DOD	Nanofiber-based Bone Repair Device Year 2	\$25,102	R
Joey Shaw	U.S. Dept of Interior - Fish & Wildlife Service	The Influence of Light and Soil Moisture Availability on the Flowering of <i>Platanthera integrilabia</i>	\$680	R
Chemistry				
Jisook Kim	American Chemical Society	Chemistry in the Underprivileged Regions of Chattanooga	\$400	AS
Steven Symes	UT Health Science Center – CTSI/DOD	Nanofiber-based Bone Repair Device Year 2	\$51,565	R
English				
Lauren Ingraham	THEC	Building "Friendly Conspiracies": Using Reading and Writing to Reinforce the Common Core State Standards in 9 - 12 Math and English Classes	\$74,958	PS
Richard Jackson	Chattanooga State Community College	Meacham Writers' Workshops 2012-13	\$1,200	PS
Humanities				
Bill McClay	Earhart Foundation	Citizenship, Economic Literacy, and the History Classroom	\$25,000	AS
	Jack Miller Center	2012 Constitution Day Lecture	\$2,000	PS

Awards by Department				
Lead PI/PD	Funder	Title	Amount	FA*
Bill McClay	Apgar Foundation	Religion and the Making of American Citizens: Past, Present, and Future	\$25,000	AS
Mathematics				
John Graef	NSF	REU SITE: Differential/Difference Equation Models and Number Theory	\$290,000	AS
Psychology				
Brenda McDaniel	Wake Forest University/NSF	Structure and Consistency of Character	\$84,297	NA
Nicky Ozbek	UT Health Science Center – CTSI/Dialysis Clinic, Inc.	A Randomized, Prospective, Double Blind Trial, Placebo-Controlled Trial of Two Different Doses of Melatonin on Sleep Latency and Duration of REM Sleep in Patients with Uremia-Associated Sleep Disorders	\$50,319	R
Amye Warren	United Way of Greater Chattanooga	Amendment 8 to Project Ready for School	\$45,995	PS
Sociology, Anthropology & Geography				
Nick Honerkamp	GA Dept of Natural Resources	Archaeological Survey on Ossabaw and Sapelo Islands, GA	\$1,000	R
	St. Simons Land Trust	A Proposal for Archaeological Survey and Testing at Cannon's Point, St. Simons Island, Georgia	\$600	R
Barbara Medley	Community Foundation of Greater Chattanooga	Chattanooga Gang Study: School Assessment	\$5,000	R
	City of Chattanooga	Proposal for Implementation Planning Services	\$5,500	PS
Southeast Center for Education in the Arts				
Joel Baxley	Hamilton Co. Dept of Education	2012 Art Mini-Installations Residency with Second Grade Students at Battle Academy	\$1,200	AS
		2013 Bookmaking Residency with Third Grade Students at Battle Academy	\$1,200	AS
		2013 Sandcasting Residency	\$675	AS
	NEA	Arts Education in the South: Phase II Profiles in Quality	\$15,000	R
Susanne Burgess	Hamilton Co. Dept of Education	Music Residency with Kindergarten Students at Battle Academy	\$600	AS
Mary LaBianca	Hamilton Co. Dept of Education	2012-2013 Dance Residency at Battle Academy	\$2,400	AS
	Orange Grove Center	2012-13 SCEA Dance Partnership with Orange Grove Center	\$3,800	AS
Kim Wheatley	TN Arts Commission	2013 National Arts and Education Forum	\$2,900	AS
	Syracuse Arts Academy	External Needs Assessment for Syracuse Arts Academy	\$18,200	NA
Arts & Sciences Total Awards			\$964,040	

*Functional Areas: AS = Academic Services; R = Research; IS = Institutional Support; PS = Public Service; SF = Scholarships or Fellowships. Awards are listed alphabetically by department then by PI, but many awards represent partnerships across academic units.

ARTS & SCIENCES

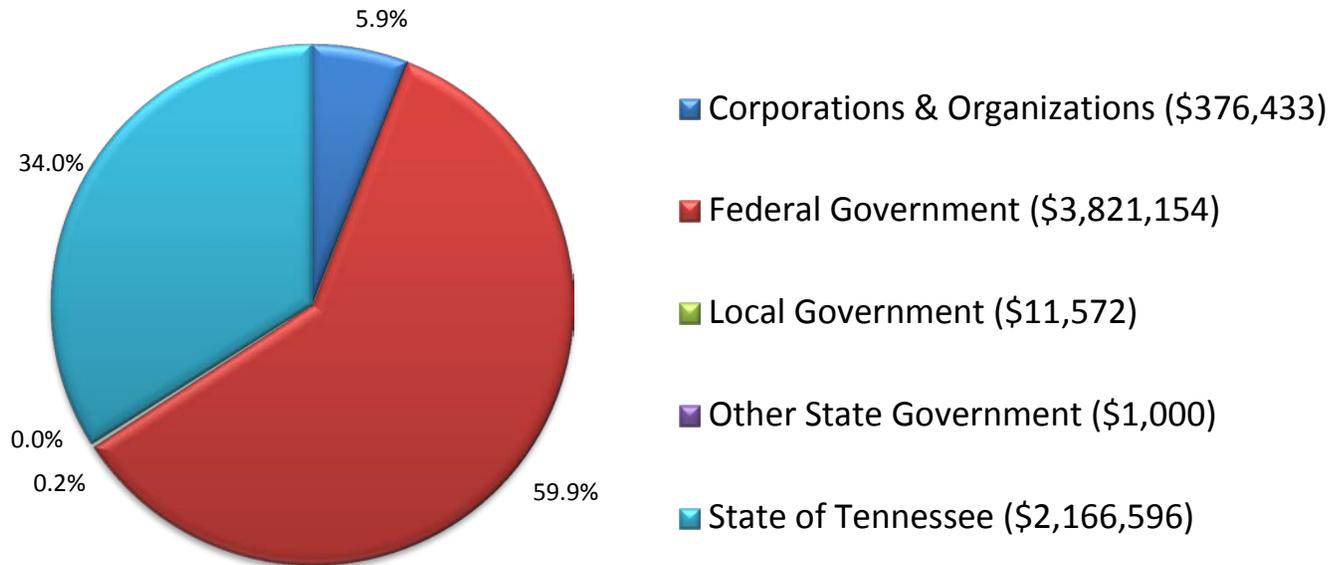
Total CAS Funds Requested: \$6,376,755



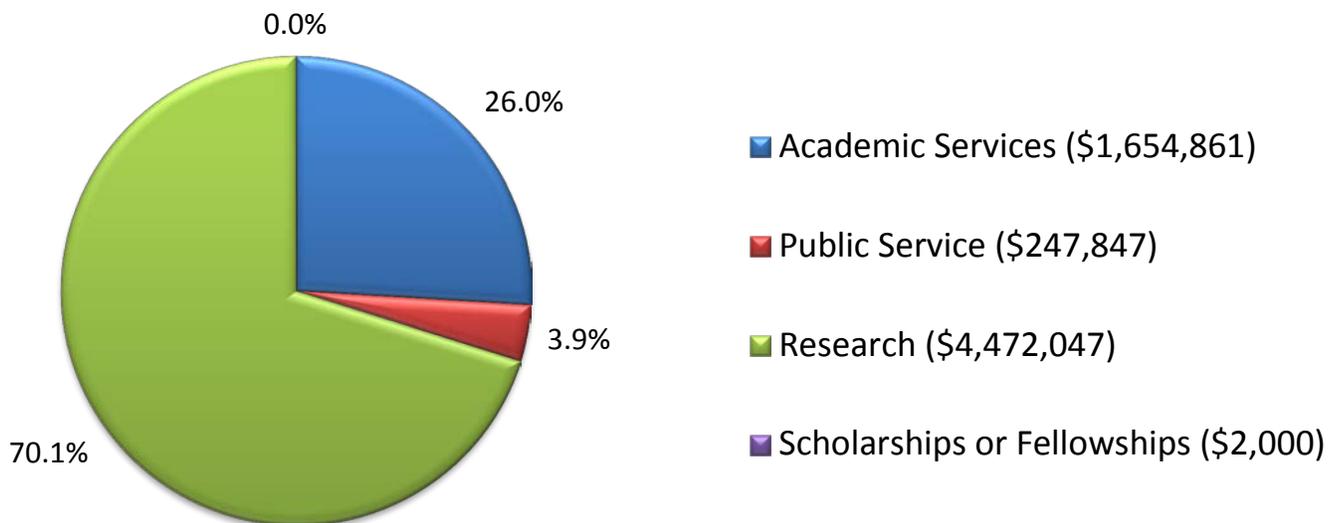
- Biological & Environmental Sciences (\$1,897,696)
- Chemistry (\$1,209,266)
- English (\$79,278)
- Humanities (\$79,000)
- Mathematics (\$1,541,723)
- Philosophy & Religion (\$193,592)
- Physics, Geology & Astronomy (\$1,053,833)
- Political Science, Public Admin & Nonprofit Mgmt (\$99,490)
- Psychology (\$130,292)
- Sociology, Anthropology & Geography (\$12,086)
- Southeast Center for Education in the Arts (\$80,499)

ARTS & SCIENCES

Submissions by Source



Submissions by Functional Area



ARTS & SCIENCES

Submissions by Department				
Lead PI/PD	Funder	Title	Amount	FA*
Biological & Environmental Sciences				
David Aborn	TN Dept of Environment & Conservation	Population Biology of Northern Saw-whet Owls in South Cherokee National Forest	\$7,000	R
Jennifer Boyd	U.S. Dept of Interior - Fish and Wildlife Service	How Do Light and Soil Moisture Availability Affect Platanthera integrilabia Growth and Reproduction?	\$7,398	R
	NSF	MRI: Acquisition of Growth Chambers for Global Change Biology Research and Research Training at the University of Tennessee at Chattanooga	\$342,945	R
	TN Army National Guard	Monitoring of the large-flowered skullcap (Scutellaria montana) on Tennessee Army National Guard Volunteer Training Site (VTS) in Catoosa County, GA	\$18,926	R
Stylios Chatzimanolis	NSF	CAREER: ARTS: Systematics of Xanthopygine Rove Beetles: Elucidating Neotropical Rove Beetle Megadiversity	\$772,517	R
Katherine Harrell	Community Foundation of Greater Chattanooga	PRELIMINARY - UTC Functional Human Anatomy Lab Upgrade	--	AS
Loren Hayes	NSF	Living in Groups - Why Breeding Females with Low Reproductive Success Remain Social and Communally Breed Offspring	\$479,283	R
		U.S.-Chile IRES: Intraspecific Variation and Genetic Mechanisms of Animal Sociality	\$249,800	R
	Community Foundation of Greater Chattanooga	PRELIMINARY: The Chile-Chattanooga Connection: Improving STEM Education for K-12 and University Students	--	R
		The Chile-Chattanooga Connection: Improving STEM Education for K-12 and University Students	\$19,827	R
Chemistry				
Jisook Kim	American Chemical Society	Chemistry in the Underprivileged Regions of Chattanooga	\$500	AS
	NSF	Lysozyme Modifications Induced by Substituted Benzoquinones	\$223,102	R
John Lee	Research Corporation	Acrylic Acid from CO2 and Ethylene Catalyzed by Cyclopentadienyl-Co(III) with Bidentate N-Heterocyclic Carbene Ligands that Contain a Bridging Amine	\$35,000	R

Submissions by Department				
Lead PI/PD	Funder	Title	Amount	FA*
John Lee	American Chemical Society	Synthesis, Characterization, and Reactivity of Ruthenium(II) Complexes Supported by an Electron-Rich p-cymene Ligand for C-H Activation and Catalysis	\$50,000	R
Gretchen Potts	NIH	In-Depth Analysis of E-Cigarette Filling Solutions and their Biological Implications	\$261,033	R
Manuel Santiago	NSF	Research Experiences for Undergraduate Site - Collaborative Interdisciplinary Research Program	\$358,559	R
Steven Symes	Univ. of New Mexico/NASA	Center for the Analysis of Planetary Samples (CAPS)	\$281,072	R
English				
Lauren Ingraham	THEC	Building "Friendly Conspiracies": Using Reading and Writing to Reinforce the Common Core State Standards in 9 - 12 Math and English Classes	\$74,958	PS
Joe Wilferth	Community Foundation of Greater Chattanooga	PRELIMINARY: English Visiting Scholar and Take Five Series	--	AS
		English Visiting Scholar and Outreach	\$4,320	AS
Humanities				
Lucien Ellington	Jack Miller Center	2013 Constitution Day Lecture	\$2,000	PS
Wilfred McClay	Jack Miller Center	2012 Constitution Day Lecture	\$2,000	PS
	Earhart Foundation	Citizenship, Economic Literacy, and the History Classroom	--	AS
	Apgar Foundation	Religion and the Making of American Citizens: Past, Present, and Future	\$25,000	AS
Wilfred McClay & Lucien Ellington	Lynde and Harry Bradley Foundation	The Center for Reflective Citizenship Teacher Institutes	\$50,000	AS
Mathematics				
Sergei Avdonin	NSF	Inverse Problems for Differential Equations on Graphs and their Applications	\$228,302	R
Cuilan Gao	UT Health Science Center – CTSI/NIH	Comprehensive Care Coordination for Complex Patient	\$504,008	R
		Comprehensive Care Coordination for Complex Patient (Resubmission)	\$502,872	R
John Graef	NSF	REU SITE: Differential/Difference Equation Models and Number Theory	\$296,541	AS
Roger Nichols	Oak Ridge Assoc. Univ.	Higher Order Spectral Shift Functions	\$5,000	R
Min Wang	Oak Ridge Assoc. Univ.	Fractional Boundary Value Problems with Uncertain Parameters	\$5,000	R
Philosophy & Religion				
Irv Resnick	NEA	Representations of the "Other": Jews in Medieval England	\$191,592	AS
Jonathan Yeager	American Printing History Association	Publishing Jonathan Edwards in the Eighteenth Century	\$2,000	SF

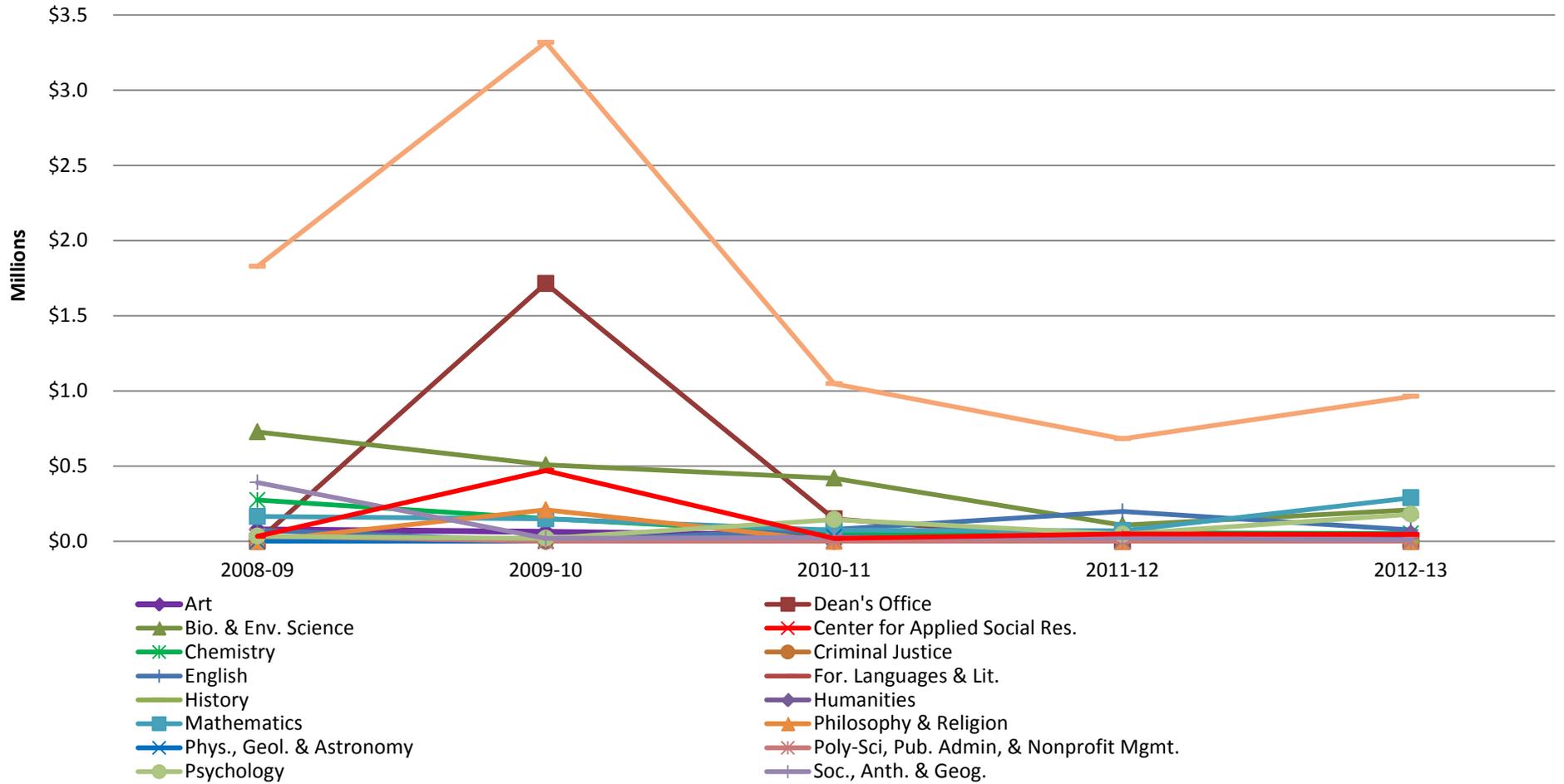
Submissions by Department				
Lead PI/PD	Funder	Title	Amount	FA*
Physics, Geology & Astronomy				
Bob Marlowe	Middle TN State University	Collaborative Redesign of Science in Tennessee	\$1,053,833	AS
Political Science, Public Administration & Nonprofit Management				
Stephanie Bellar	U.S. Dept of Agriculture	Making Do with What We Have	\$99,490	PS
Psychology				
Brenda McDaniel	Wake Forest University/NSF	Structure and Consistency of Character	\$84,297	R
Nicky Ozbek	Dana Foundation	PRELIMINARY: Retinal Imaging and b-amyloid Plaques in Humans	--	R
Amye Warren	United Way of Greater Chattanooga	Amendment 8 to Project Ready for School	\$45,995	PS
Sociology, Anthropology & Geography				
Nick Honerkamp	St. Simons Land Trust	A Proposal for Archaeological Survey and Testing at Cannon's Point, St. Simons Island, GA	\$589	R
	GA Dept of Natural Resources	Archaeological Survey on Ossabaw and Sapelo Islands, GA	\$1,000	R
	Barge Waggoner Sumner & Cannon, Inc.	Scope of Services for Archaeological Monitoring, Tennessee Riverpark Extension, St. Elmo Addition	\$4,999	R
Barbara Medley	City of Chattanooga	Proposal for Implementation Planning Services	\$5,498	PS
Southeast Center for Education in the Arts				
Joel Baxley	Hamilton Co. Dept of Education	2012 Art Mini-Installations Residency with Second Grade Students at Battle Academy	\$1,200	AS
		2013 Bookmaking Residency with Third Grade Students at Battle Academy	\$1,200	AS
		2013 Sandcasting Residency	\$675	AS
	NEA	Arts Education in the South: Phase II Profiles in Quality	\$29,518	R
Susanne Burgess	Hamilton Co. Dept of Education	Music Residency with Kindergarten Students at Battle Academy	\$600	AS
Mary LaBianca	Orange Grove Center	2012-13 SCEA Dance Partnership with Orange Grove Center	\$3,800	AS
	Hamilton Co. Dept of Education	2012-2013 Dance Residency at Battle Academy	\$2,400	AS
Laurie Melnik	Community Foundation of Greater Chattanooga	PRELIMINARY - CommuniCreate	--	PS
		CommuniCreate	\$17,906	PS
Kim Wheetley	TN Arts Commission	2014 National Arts & Education Forum	\$5,000	AS
	Syracuse Arts Academy	External Needs Assessment for Syracuse Arts Academy	\$18,200	AS
Arts & Sciences Total Dollars Requested:			\$6,376,755	

*Functional Areas: AS = Academic Services; R = Research; IS = Institutional Support; PS = Public Service; SF = Scholarships or Fellowships. Awards are listed alphabetically by department then by PI, but many awards represent partnerships across academic units.

ARTS & SCIENCES

FIVE-YEAR FUNDING TRENDS BY DEPARTMENT

FISCAL YEARS 2009 - 2013



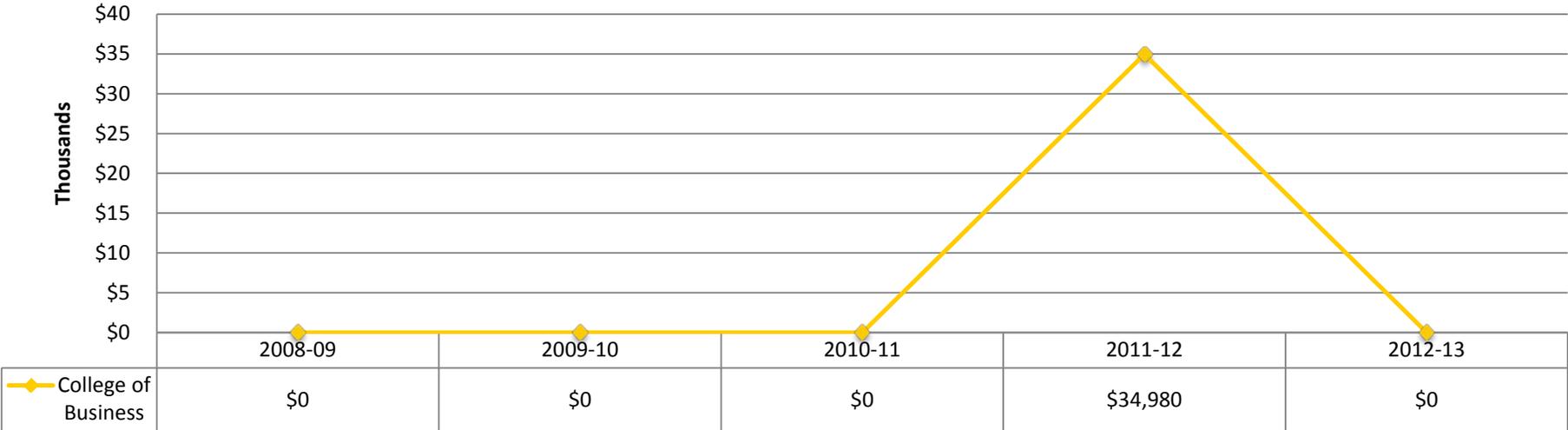


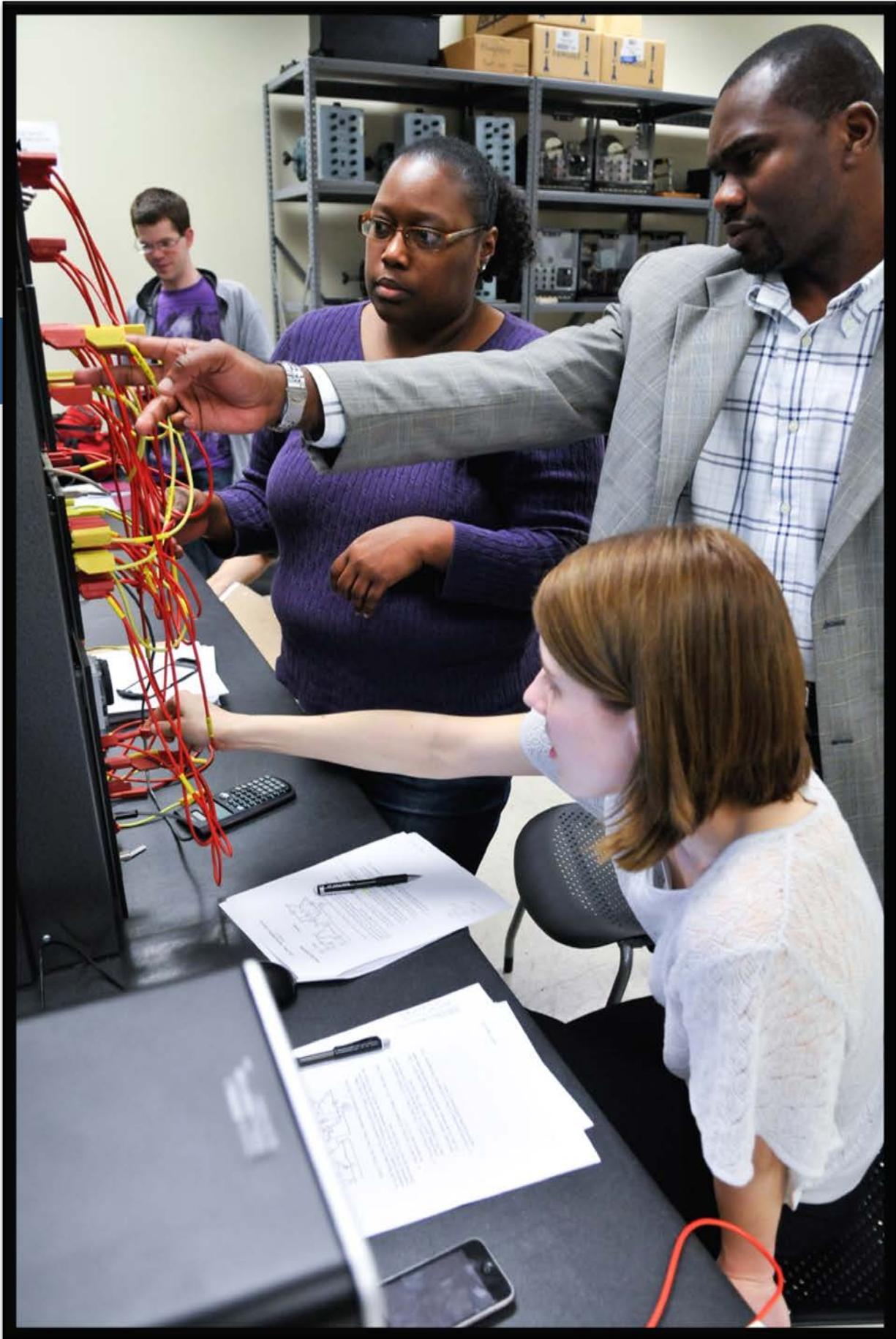
FIVE-YEAR FUNDING TRENDS

FISCAL YEAR 2009-2013

FY 2013 External Funding: \$0

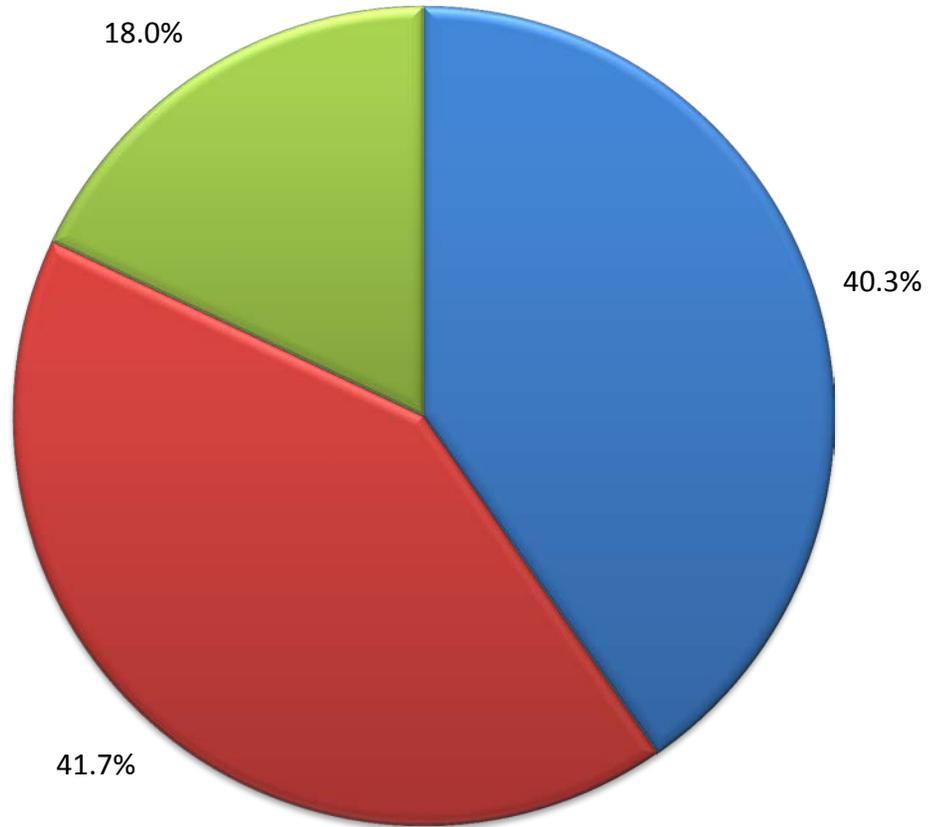
FY 2013 External Funds Requested: \$0





ENGINEERING & COMPUTER SCIENCE

Total CECS External Funding: \$2,727,528



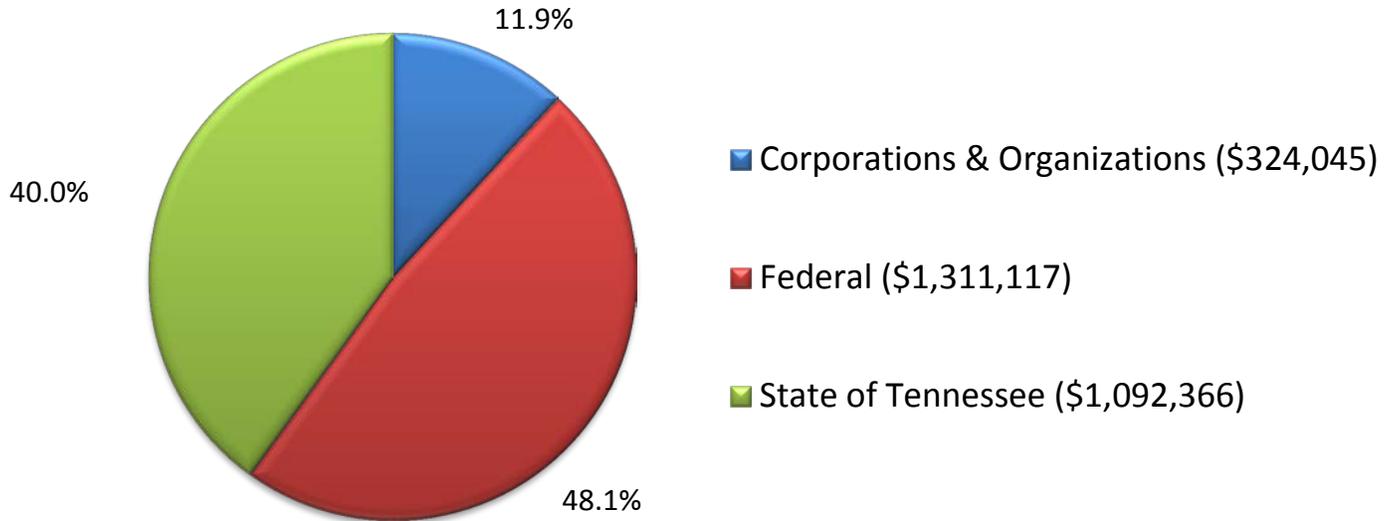
■ Computer Science (\$1,100,495)

■ Engineering (\$1,136,384)

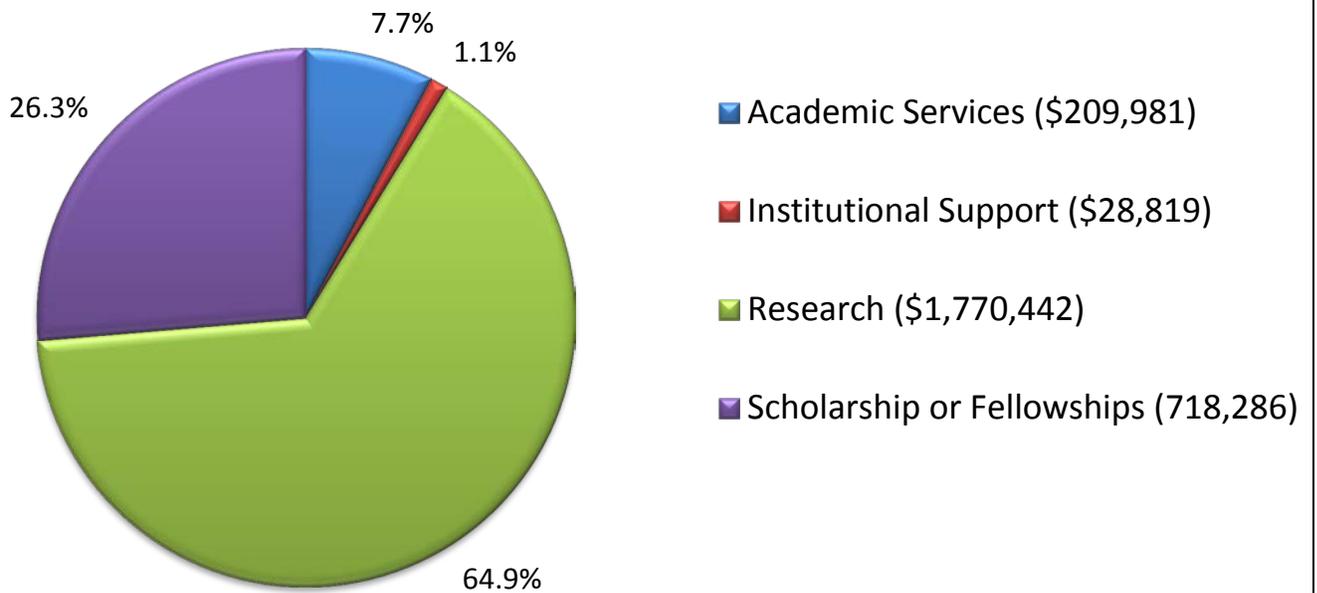
■ SimCenter (\$490,649)

ENGINEERING & COMPUTER SCIENCE

Awards by Source



Awards by Functional Area



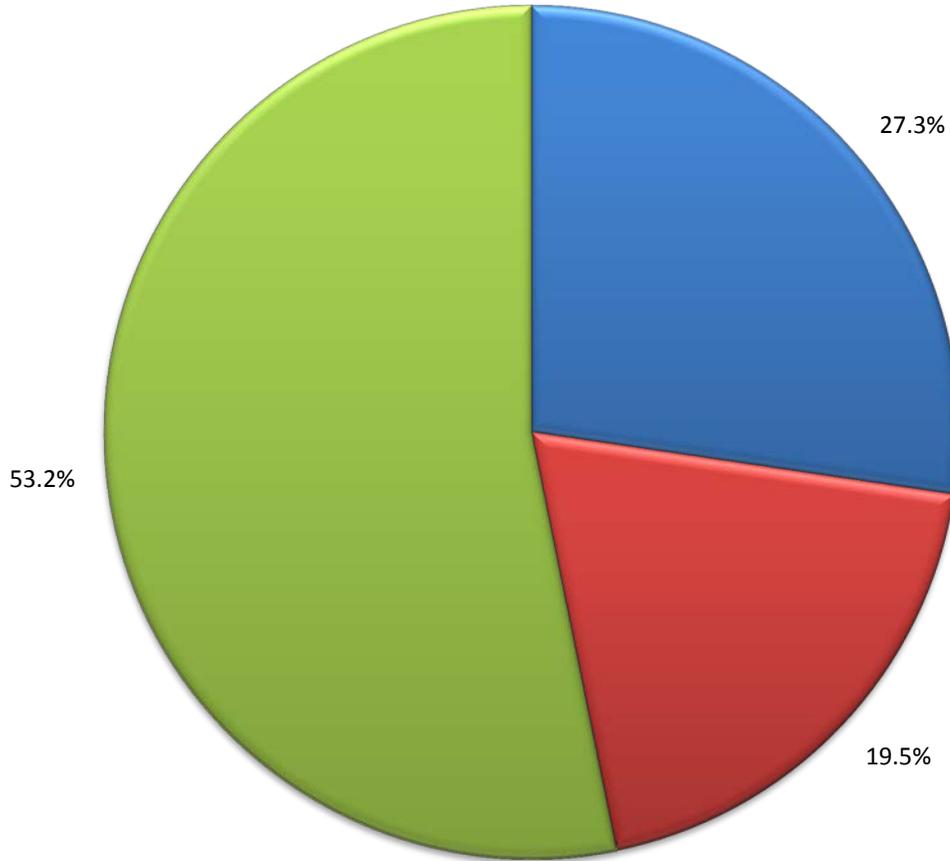
ENGINEERING & COMPUTER SCIENCE

Awards by Department				
Lead PI/PD	Funder	Title	Amount	FA*
Computer Science				
Yu Cao	NSF	MRI: Acquisition of HPC-B: A High Performance Computational Infrastructure for Biomedical Informatics Research	\$305,494	R
Li Yang	NSF	SFS: Collaborative Research: Capacity Building through Curriculum and Faculty Development on Mobile Security	\$209,981	AS
		Making Opportunities for Computer Science and Computer Engineering Students (MOCS)	\$585,020	SF
Engineering				
Ronald Bailey	TN Dept of Environment & Conservation	Demonstration of an Energy Plus Building	\$100,000	R
Ben Byard	TN Dept of Transportation	Development of TDOT Class P-SCC (Self-Consolidating Concrete) and Class A-SCC Concrete Mixtures	\$150,000	R
Frank Jones	TN-SCORE (Univ. of TN)	The Use of Nano and Micro Scale Structures to Increase the Efficiency of Biofuel Y2	\$19,018	R
Phil Kazemersky	TVA	Student Project	\$25,000	R
William Sutton	THEC	Center of Excellence in Applied Computational Science and Engineering	\$792,061	R
Cecelia Wigal	TN Bd of Arch & Engr Examiners	Tennessee Board of Architectural and Engineering Examiners Fiscal Year 2013	\$28,819	IS
	TN Dept of Education	Technology Designed to Benefit 2013-14	\$21,486	R
SimCenter				
Henry McDonald	SimCenter Enterprises	EAGER: DMS: Disaster Mitigation System	\$224,657	R
Ramesh Pankajakshan	SimCenter Enterprises	Washington DC Project	\$99,388	R
William Sutton	U.S. Dept of Education	Graduate Student Resources to Support Growth in Computational Engineering	\$133,266	SF
Lafe Taylor	TVA	Analysis of Flooding Conditions on the Tennessee and Little Tennessee Rivers	\$33,338	R
Engineering & Computer Science Total Awards			\$2,727,528	

*Functional Areas: AS = Academic Services; R = Research; IS = Institutional Support; PS = Public Service; SF = Scholarships or Fellowships. Awards are listed alphabetically by department then by PI, but many awards represent partnerships across academic units.

ENGINEERING & COMPUTER SCIENCE

**Total CECS External Funds Requested:
\$10,901,241**



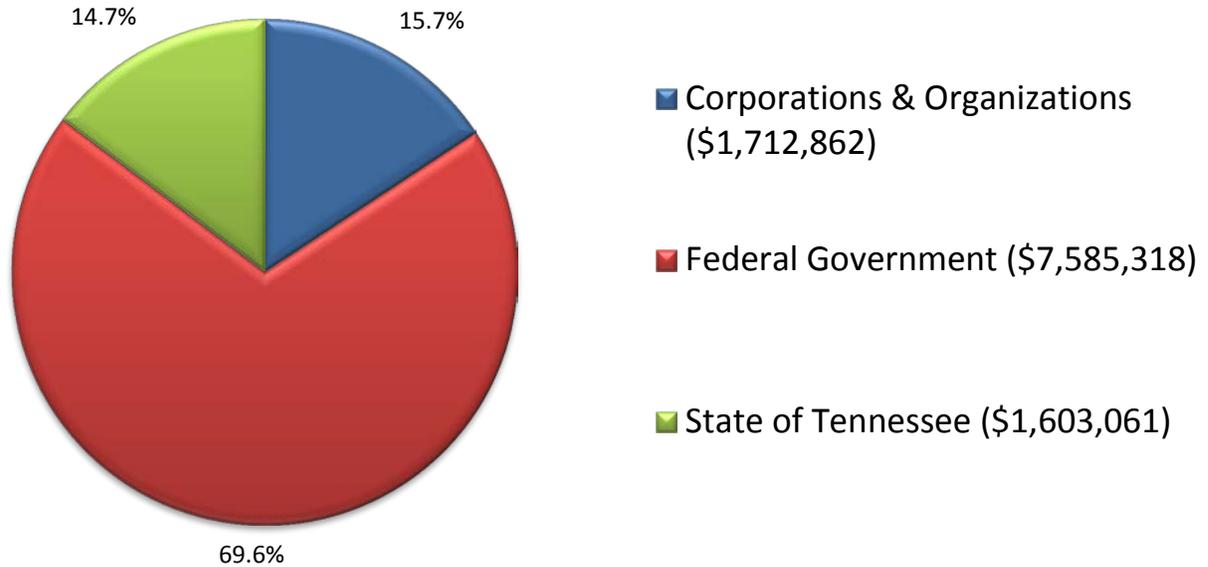
■ Computer Science (\$2,980,228)

■ Engineering (\$2,122,965)

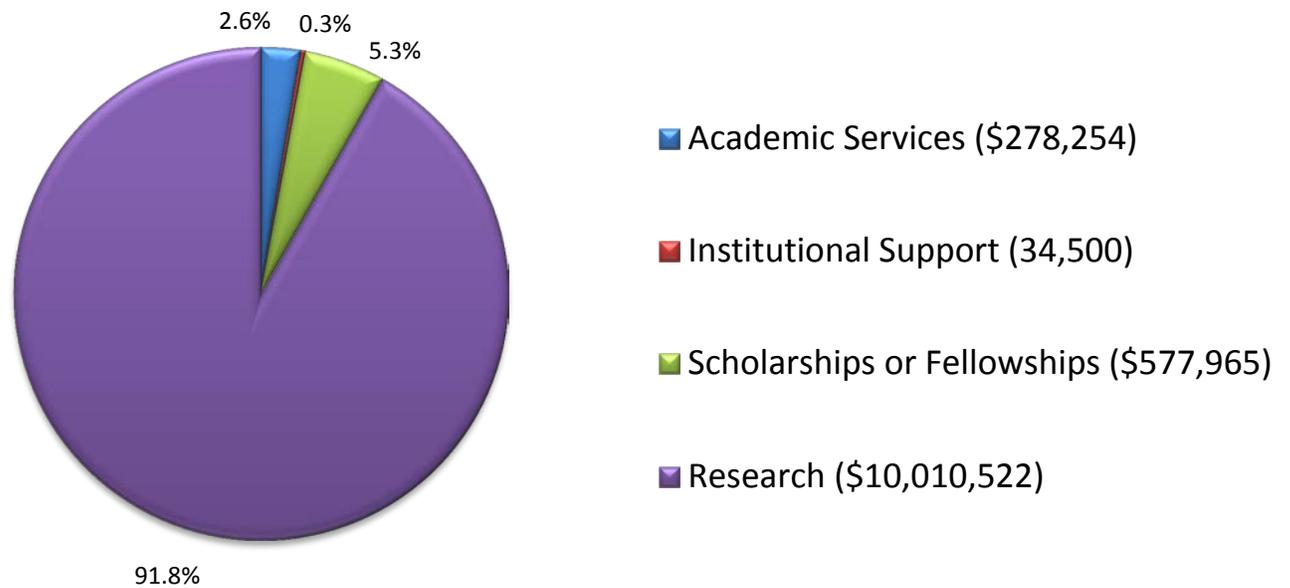
■ SimCenter (\$5,798,048)

ENGINEERING & COMPUTER SCIENCE

Submissions by Source



Submissions by Functional Area



ENGINEERING & COMPUTER SCIENCE

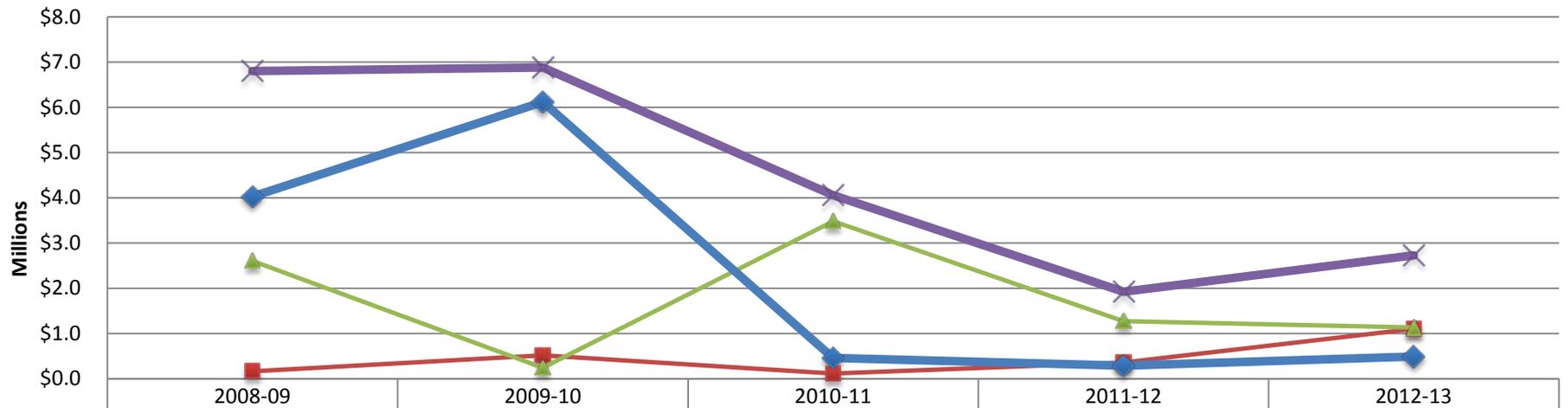
Submissions by Department				
Lead PI/PD	Funder	Title	Amount	FA*
Computer Science				
Yu Cao	NSF	CSR:Large:Collaborative Research:CARE: Cross-layer Architecture for Enhanced Sensor Data Availability	\$496,450	R
		SCH:INT:Collaborative Research: Context Aware Body Sensor Networks for Connected Health Monitoring in Community Living Centers (CARENET)	\$248,823	R
Mina Sartipi	NSF	Bandwidth Obtained for Learning Science, Technology, Engineering, and Research (BOLSTER) Project	\$397,726	R
	SimCenter Enterprises	CyberSEES: Type 2: Learning from an Operational Smart Grid	\$378,924	R
	NIH	mStroke: Mobile Technology for Post-Stroke Recurrence Prevention and Recovery	\$384,747	R
Kathy Winters	Google, Inc	Using App Development to Interest Students in Computer Science and STEM	\$21,393	AS
Li Yang	NSF	BP: Collaborative Research: Fostering Computational Thinking through Socially Relevant Projects on Big Data	\$204,577	R
		CyberCorpsSFS: Collaborative Research: Building Security Education Capacity through Interactive Visualization (InterSecVis)	\$149,756	R
		EDU:Collaborative Research: Bolstering Security Education through Transiting Research on Browser Security	\$119,867	R
		Making Opportunities for Computer Science and Computer Engineering Students (MOCS)	\$577,965	SF
Engineering				
Ben Byard	TN Dept of Transportation	Development of TDOT Class P-SCC (Self-Consolidating Concrete) and Class A-SCC Concrete Mixtures	\$150,000	R
	TN-SCORE (Univ. of TN)	Optimizing Lightweight Aggregate Content to Minimize Energy Usage in Concrete Construction in Tennessee	\$40,007	R
Phil Kazemersky	TVA	Student Project	\$25,000	R
Ed McMahon	NCIIA	Center for Social Innovation	\$24,500	R
	NSF	Interdisciplinary Design to Enhance the Lives of the Aging and Persons with Disabilities	\$70,689	R
Mbakisya Onyango	TN Dept of Transportation	Optimize Application of Open Graded Friction Courses (OGFC) in Tennessee	\$59,500	R
		Retrace Pavement Marking Retroreflectivity Levels in Tennessee Highways	\$492,000	R
Alex Brent Rollins	TN Dept of Transportation	TDOT Research	\$75,000	R
William Sutton	THEC	Center of Excellence in Applied Computational Science and Engineering	\$792,061	R
Cecilia Wigal	TN Bd of Arch & Engr Examiners	Tennessee Board of Architectural and Engineering Examiners Fiscal Year 2013	\$34,500	IS

Submissions by Department				
Lead PI/PD	Funder	Title	Amount	FA*
Raziq Yaqub	NSF	REU SITE: Research Experiences for Undergraduates (REU) Site on Smart Grid	\$359,708	R
SimCenter				
Kyle Anderson	Air Force Research Lab	AFRL/UTC SimCenter: Collaborative Center for Aeronautical Sciences	\$2,500,000	R
	NSF	High-Order Simulation and Adaptation Techniques for Turbulent Flows	\$408,187	R
	U.S. Dept of Defense	PRELIMINARY - White Paper in Response to Announcement N00178-12-Q-3905	--	R
	Optimal, LLC	PRELIMINARY: High-order Mesh Toolkit for Analysis and Design	--	R
Abdollah Arabshahi	Office of Naval Research	Physics Based Prediction of Dynamic Stability and Control Derivatives Using Sensitivity-Enhanced Reduced Order Models	\$296,727	R
		PRELIMINARY - Virtual Dynamics Interface	--	R
Lindsey Cleary	NSF	Engineering Math and Science in the GigCity	\$256,861	AS
Sagar Kapadia	TN-SCORE (Univ. of TN)	Development of a Three-Dimensional Li-Ion Battery Model	\$50,000	R
	U.S. Dept of Defence - AFOSR	High-Order Simulation and Adaptation Techniques for Turbulent Flows	\$359,524	R
Steve Karman	Office of Naval Research	PRELIMINARY - Adaptive Meshing of Ship Air-Wake Flowfields	--	R
		Adaptive Meshing of Ship Air-Wake Flowfields	\$296,317	R
Henry McDonald	SimCenter Enterprises	EAGER: DMS: Disaster Mitigation System	\$224,657	R
		Hazard SEES Type 2: Dealing with Hazardous Events in an Urban Environment	\$800,000	R
		NSF Cyber SEES Program - SimCenter	\$140,000	R
James Newman	Optimal, LLC	Adjoint-based Surface Mesh Refinement Guide Toolkit	\$24,000	R
Ramesh Pankajakshan	SimCenter Enterprises	Washington DC Project	\$99,388	R
Kidambi Sreenivas	Office of Naval Research	PRELIMINARY - A High-Fidelity Computational Simulation Approach for Coupled Aeromechanical Interaction of Ship Wakes and Rotorcraft Including Free-Surface Effects	--	R
		PRELIMINARY - A High-Fidelity Computational Simulation Approach for Dynamics of Towed Systems	--	R
		PRELIMINARY - A High-Fidelity Computational Simulation Approach for V/STOL Shipboard Operations Including Free-Surface Effects	--	R
Lafe Taylor	TVA	Analysis of Flooding Conditions on the Tennessee and Little Tennessee Rivers	\$33,338	R
		Additional Analysis of Flooding Conditions on the Tennessee and Little Tennessee Rivers	\$40,168	R
	SimCenter Enterprises	PRELIMINARY: Smart Transportation and Cleaner Air Program	--	R
Li Wang	Office of Naval Research	PRELIMINARY - High-Order Simulation and Adaptation Techniques for Computational Aeroacoustics	--	R

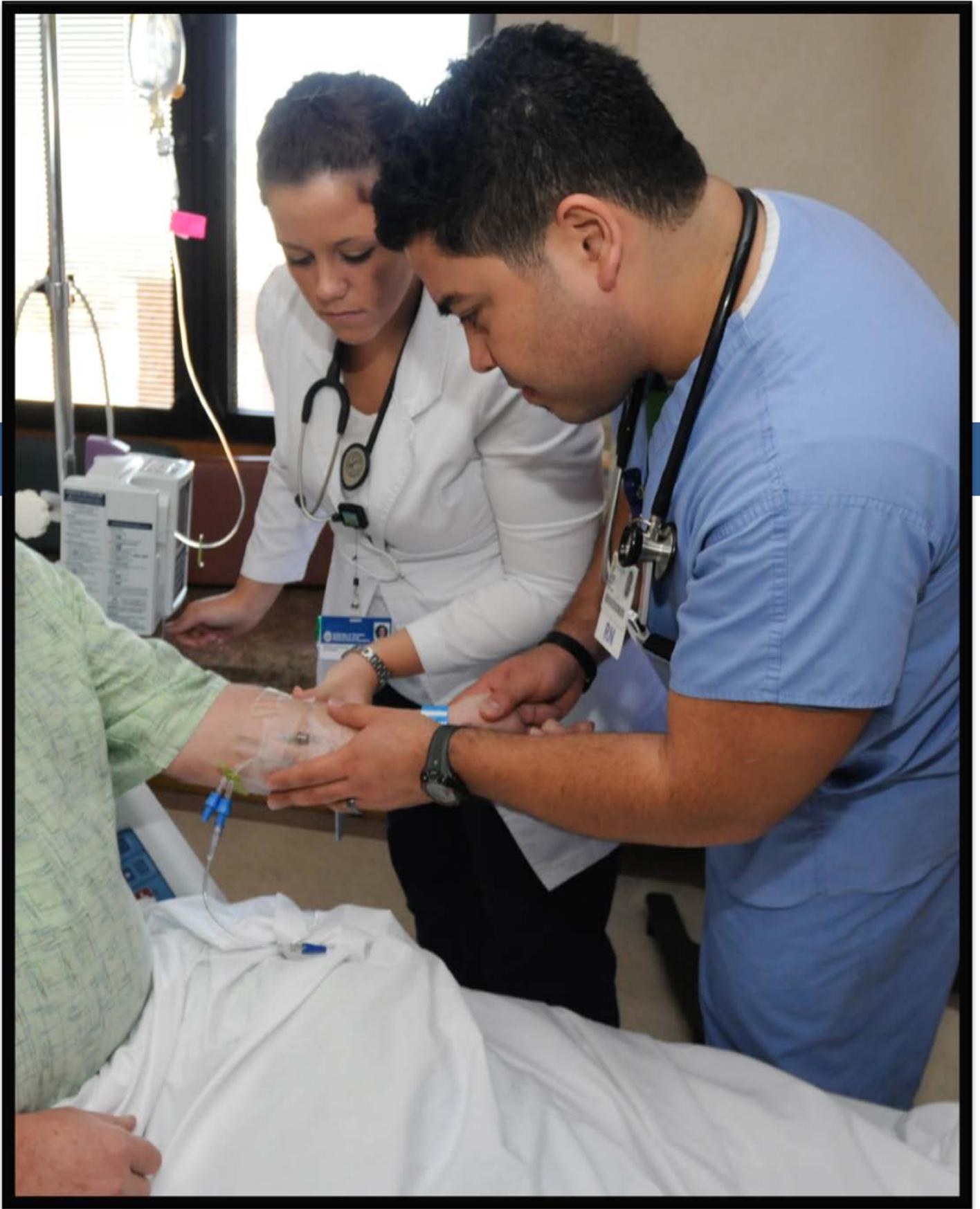
Submissions by Department				
Lead PI/PD	Funder	Title	Amount	FA*
Robert Webster	Office of Naval Research	PRELIMINARY - Computational Investigation of Propulsion System and Airframe Aerodynamics for Fixed-Wing V/STOL Aircraft	--	R
		PRELIMINARY - High-Fidelity Computational Simulations of Rotor Wake Interaction with a Non-Uniform, Non-Stationary Ground Plane	--	R
	Army Research Office	PRELIMINARY - Vorticity Confinement Method for Turbulent Massively Separated and Vortex Dominated Flows	--	R
	NSF	Propulsion-System-Related Flow Control for Next-Generation Aircraft	\$268,881	R
Robert Wilson	Office of Naval Research	PRELIMINARY - A High-Fidelity Computational Simulation Approach for Coupled Aeromechanical Interaction of Ship Wakes and Fixed Wing Aircraft Including Free-Surface Effects	--	R
Engineering & Computer Science Total Dollars Requested:			\$10,901,241	

*Functional Areas: AS = Academic Services; R = Research; IS = Institutional Support; PS = Public Service; SF = Scholarships or Fellowships. Awards are listed alphabetically by department then by PI, but many awards represent partnerships across academic units.

ENGINEERING & COMPUTER SCIENCE FIVE-YEAR FUNDING TRENDS BY DEPARTMENT FISCAL YEARS 2009 - 2013

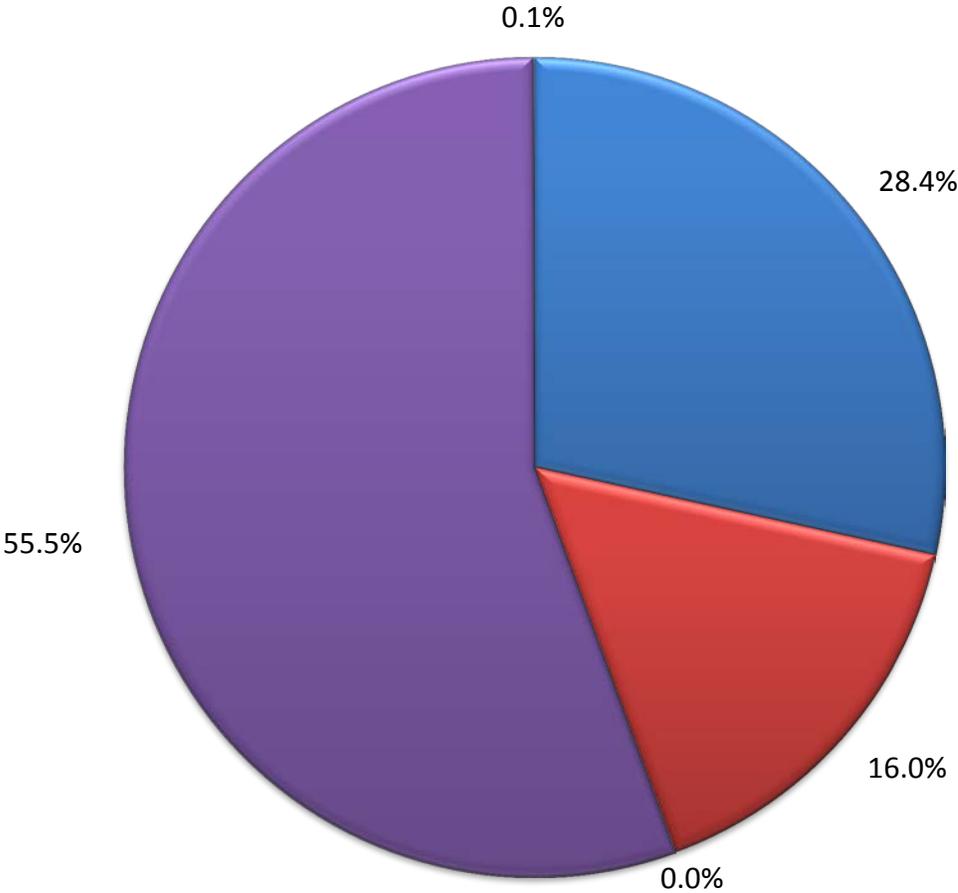


	2008-09	2009-10	2010-11	2011-12	2012-13
Computer Science	\$165,975	\$519,294	\$114,987	\$360,923	\$1,100,495
Engineering	\$2,606,587	\$245,434	\$3,485,147	\$1,276,369	\$1,136,384
SimCenter	\$4,028,828	\$6,118,823	\$460,000	\$289,159	\$490,649
Total Funding	\$6,801,390	\$6,883,551	\$4,060,134	\$1,926,451	\$2,727,528



HEALTH, EDUCATION & PROFESSIONAL STUDIES

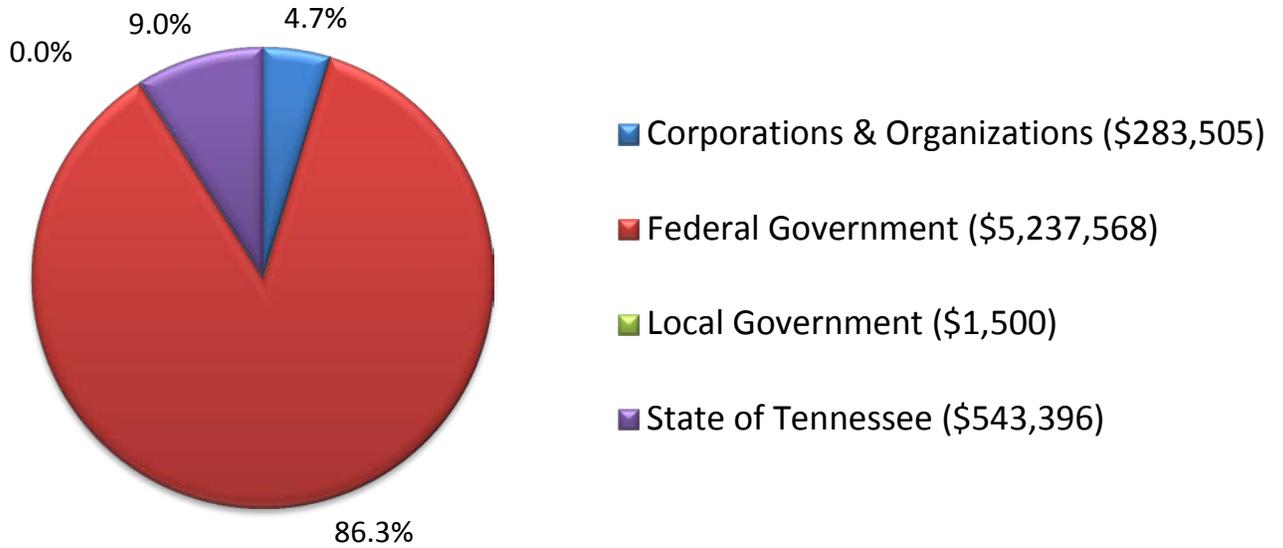
Total CHEPS External Funding: \$6,065,969



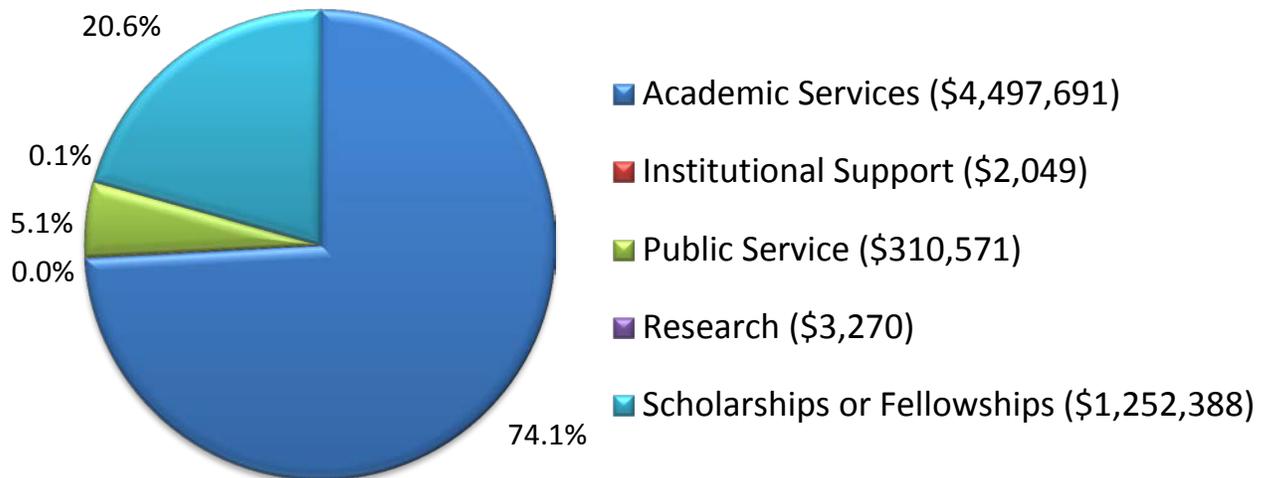
- Center for Community Career Education (\$1,725,090)
- Education (\$967,880)
- Interior Design (\$2,049)
- Nursing (\$3,367,680)
- Physical Therapy (\$3,270)

HEALTH, EDUCATION & PROFESSIONAL STUDIES

Awards by Source



Awards by Functional Area



HEALTH, EDUCATION & PROFESSIONAL STUDIES

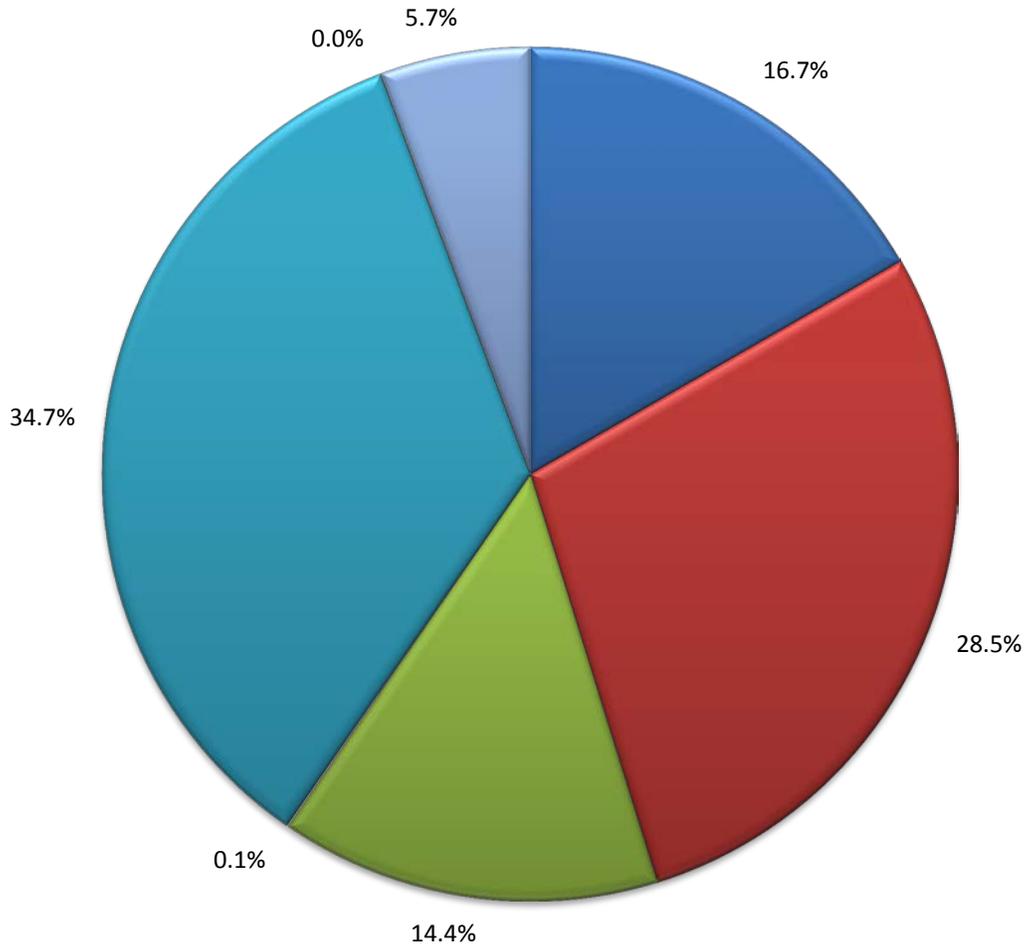
Awards by Department				
Lead PI/PD	Funder	Title	Amount	FA*
Center for Community Career Education				
Twyler Boykin	U.S. Dept of Education	Upward Bound Math and Science 2012 - 2017 Y1	\$250,000	PS
Belinda Brownlee	U.S. Dept of Education	Upward Bound at UTC 2012-2017 Year 2	\$286,462	AS
Sandy Cole	Hamilton Co. Dept of Education	PAWS Support	\$1,500	AS
	THEC	Each One Reach One 2013-15 Year 1	\$69,800	SF
Hunter Huckabay	U.S. Dept of Education	GEAR UP in Hamilton County 2011-2018 Y2	\$624,281	AS
Karen Vann	U.S. Dept of Education	Hamilton County Talent Search 2011-2016 Y2	\$230,000	AS
Cynthia Wallace Long	U.S. Dept of Education	Educational Opportunity Center 2012-2013	\$263,047	AS
School of Education				
Beth Crawford	TN Dept of Education	Governor's School for Prospective Teachers 2013	\$60,571	PS
Lucien Ellington	Association for Asian Studies	<i>Education About Asia</i> Journal 2013	\$70,728	AS
	Freeman Foundation	National Consortium for Teaching about Asia 2013	\$24,497	AS
	The Laurasian Institution	Japan Outreach Initiative at UTC	--	PS
Anne Gamble	U.S. Dept of Education	Teachers Helping English Language Proficiency (HELP) Y2	\$370,458	AS
Deborah McAllister	Vanderbilt University/TN Space Grant Consortium	Robotics for Middle Grades - Augmentation	\$17,900	AS
		NASA Mathematics Resources and Super Source Activities for Elementary Grades Preservice Teachers	\$12,750	AS
Barbara Ray	TN Dept of Education	Early Childhood Special Education Summer Institute Y2	\$12,675	SF
Barbara Ray & Carol Brand	TN Dept of Education	Special Education Summer Institute & Licensure Program Y2	\$165,345	SF
Valerie Rutledge	TN State University	Strengthening Instruction in Tennessee Elementary Schools - Focus on Mathematics (SITES-M)	\$232,956	AS
Interior Design				
Catherine Kendall	TN Bd of Arch & Engr Examiners	Tennessee Board of Architectural and Engineering Examiners Fiscal Year 2013	\$2,049	IS
School of Nursing				
Susan Davidson	U.S. Dept of HHS/HRSA	NEPR RN-BSN Gateway 2010-2013 Y3	\$291,365	AS
Cherry Guinn	U.S. Dept of HHS/HRSA	Applying Knowledge to Practice for Rural Public Health Nurses 2012-2013 Y3	\$29,437	AS

Awards by Department				
Lead PI/PD	Funder	Title	Amount	FA*
Martina Harris	U.S. Dept of HHS/HRSA	Nursing Workforce Diversity - Dreamwork 2012-13	\$380,857	AS
Joanie Jackson	U.S. Dept of HHS/HRSA	PACT 4 Interprofessional Geriatric Care Year 1	\$343,410	AS
Karen Sarnosky	U.S. Dept of HHS/HRSA	NEPR BEE a Nurse 2010-2013 Y3	\$371,490	AS
Carolyn Schreeder	U.S. Dept of HHS/HRSA	The InterProfessional Collaborative Practice Approach for Geriatric Education Strategies (IPCP-AGES) Y1	\$470,243	AS
Chris Smith	U.S. Dept of HHS/HRSA	AENT - UTC Advanced Education Nursing Traineeships 2012	\$338,558	SF
		Nurse Anesthetist Traineeship Program at UTC	\$21,010	SF
		Scholarships for Disadvantaged Nursing Students at UTC Y1	\$645,000	SF
	Erlanger	RN to BSN Gateway Program 2013-15	\$185,010	AS
Miriam Zwitter	U.S. Dept of HHS/HRSA	Get Healthy Project (GHP) Y2	\$291,300	AS
Physical Therapy				
David Levine	LiteCure Medical, LLC	Effects of Laser Therapy on Muscle Endurance	\$3,270	R
Health, Education & Professional Studies Total Awards			\$6,065,969	

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HEALTH, EDUCATION & PROFESSIONAL STUDIES

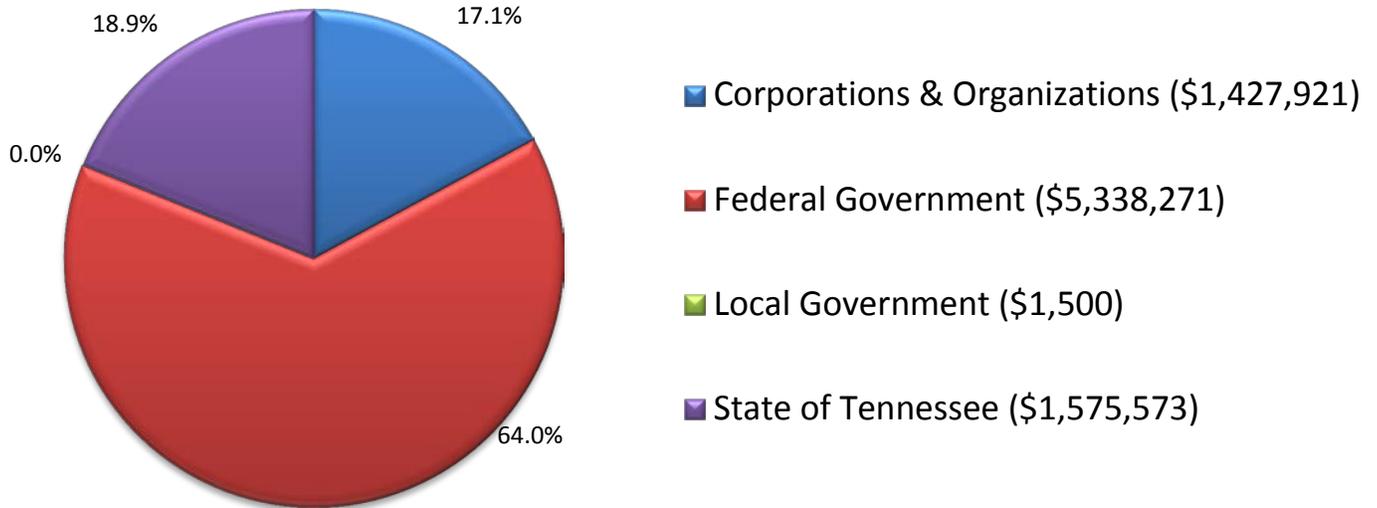
**Total CHEPS External Funds Requested:
\$8,343,265**



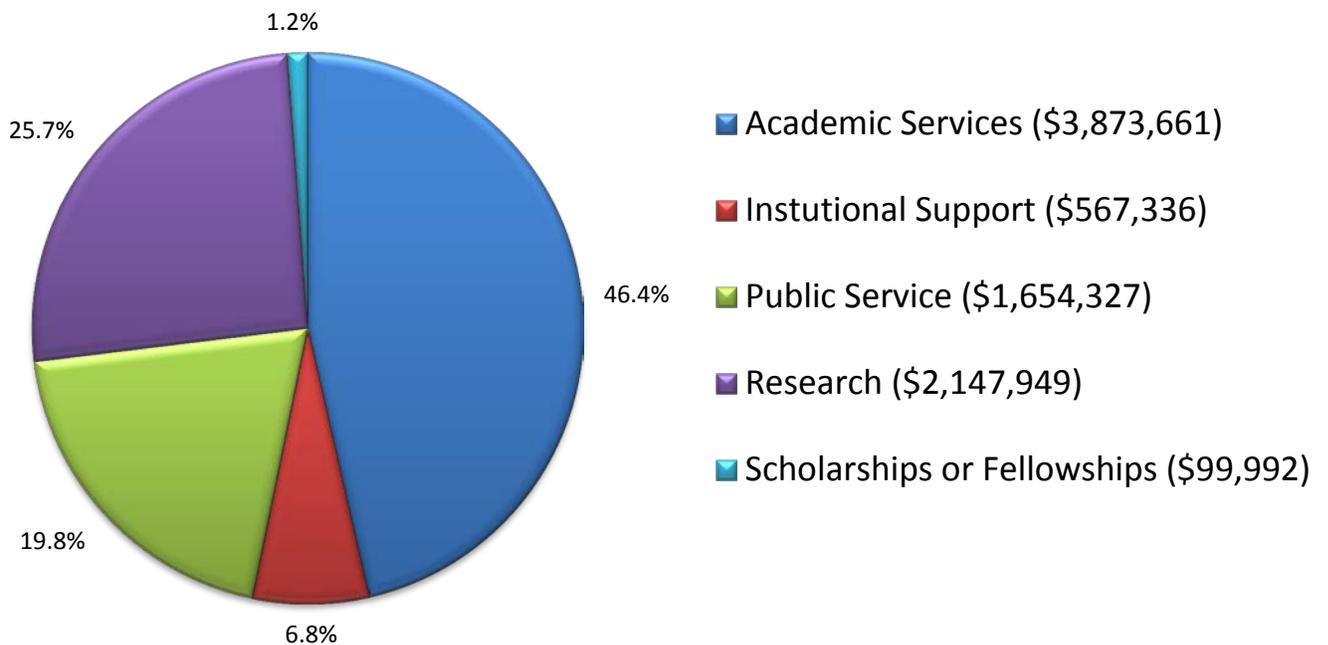
- Center for Community Career Education (\$1,391,492)
- Education (\$2,379,345)
- Health & Human Performance (\$1,200,278)
- Interior Design (\$4,997)
- Nursing (\$2,891,782)
- Physical Therapy (\$3,270)
- Social Work (\$472,101)

HEALTH, EDUCATION & PROFESSIONAL STUDIES

Submissions by Source



Submissions by Functional Area



HEALTH, EDUCATION & PROFESSIONAL STUDIES

Submissions by Department				
Lead PI/PD	Funder	Title	Amount	FA*
Center for Community Career Education				
Twyler Boykin	U.S. Dept of Education	Upward Bound Math and Science 2012 - 2017	\$1,250,000	PS
Sandy Cole	THEC	Each One Reach One 2013-15	\$99,992	SF
	Hamilton Co. Dept of Education	PAWS Support	\$1,500	AS
Cynthia Wallace Long	Community Foundation of Greater Chattanooga	PRELIMINARY: Educational Opportunity Center	--	PS
	TN College Access and Success Network	TCASN Educational Opportunity Center Model Program Grant	\$40,000	PS
School of Education				
Pamela Carter	TN Dept of Education	TN LEAD at UTC	\$265,592	AS
Beth Crawford	TN Dept of Education	Governor's School for Prospective Teachers 2013	\$60,571	PS
Lucien Ellington	Association for Asian Studies	Education About Asia Journal 2013	\$70,728	AS
	The Laurasian Institution	Japan Outreach Initiative at UTC	--	PS
	Freeman Foundation	National Consortium for Teaching about Asia 2013	\$24,497	AS
Jennifer Ellis	NSF	Creating a Pipeline of Future Computer Scientists Through the Introduction of Computing Concepts Using App Development	\$599,614	R
Linda Johnston	TN State University	Strengthening Instruction in Tennessee Elementary Schools - Focus on Math (SITES-M) 2013-14	\$232,956	AS
Deborah McAllister	NASA	Aligning Middle Grades STEM Education with Standards and Activities	\$432,204	AS
	THEC	Geometry in the Common Core	\$67,874	PS
Robin McWilliam	NIH	Efficacy of the Routines-Based Interview for Children with Disabilities and Their Families	\$392,353	R
Valerie Rutledge	TN State University	Strengthening Instruction in Tennessee Elementary Schools - Focus on Mathematics (SITES-M)	\$232,956	AS
Health & Human Performance				
Greg Heath	Johns Hopkins Global Ctr on Childhood Obesity	Extension of the Chattanooga Downtown Riverwalk Trail: Baseline Measures of Physical Activity and Trail-Use Preferences Among Inner City Children	\$27,304	R

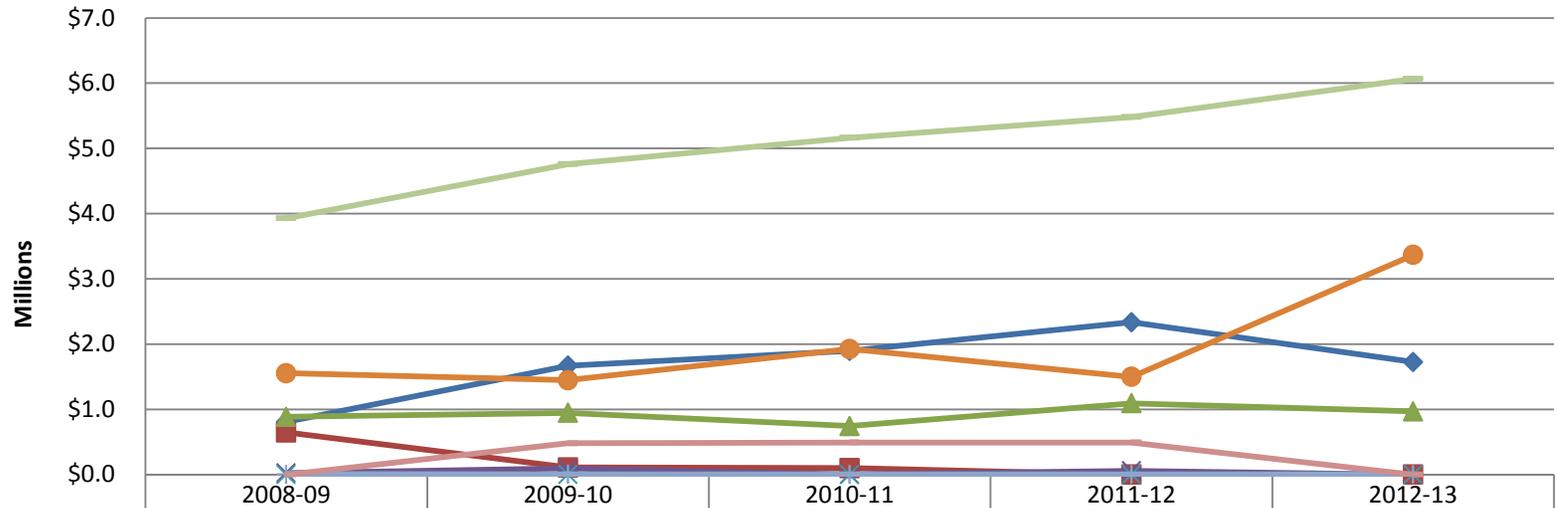
Submissions by Department				
Lead PI/PD	Funder	Title	Amount	FA*
Greg Heath	UT Health Science Center – CTSI/NIH	R18 Diabetes Prevention: Linking Physician Training with Community Health Workers	\$503,014	R
		R34 Improving Children's Cardio-Metabolic Health: Linking Primary Care to Community	\$107,621	R
Gary Liguori	NATA Research & Education Fdn	JAT Editorial Office	\$562,339	IS
Interior Design				
Catherine Kendall	TN Bd of Arch & Engr Examiners	Tennessee Board of Architectural and Engineering Examiners Fiscal Year 2013	\$4,997	IS
School of Nursing				
Cherry Guinn	U.S. Dept of HHS/HRSA	Incorporating Knowledge into Practice for Rural Public Health Nurses	\$235,882	PS
Martina Harris	UT Health Science Center – CTSI/NIH	Chattanooga Obesity Prevention Partnership through Education and Research (COPPER)	--	PS
Linda Hill	U.S. Dept of HHS/HRSA	Nurse Anesthetists Traineeships at UTC	--	AS
Chris Smith	U.S. Dept of HHS/HRSA	CRNAs in 3D: Increasing Diversity, Reducing Disparities, & Understanding the Social Determinants of Health	\$1,048,469	AS
		Interprofessional Collaborative - Homeless Health, Education, Learning, and Practice	\$1,379,749	AS
	Boston University/NIH	Improving Regular Mammography Screening in Women with Intellectual Disabilities	\$42,672	R
	Erlanger	RN to BSN Gateway Program 2013-15	\$185,010	AS
Physical Therapy				
David Levine	LiteCure Medical, LLC	Effects of Laser Therapy on Muscle Endurance	\$3,270	R
Social Work				
Cathy Scott	Louisville Institute	Grandparent Caregiver Empowerment Interventions: The Central Focus of a Local Church	\$24,417	R
Michael Sherr	On Point	Bridging Science and Service	\$447,684	R
			\$8,343,265	

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HEALTH, EDUCATION AND PROFESSIONAL STUDIES

FIVE-YEAR FUNDING TRENDS BY DEPARTMENT

FISCAL YEARS 2009 - 2013

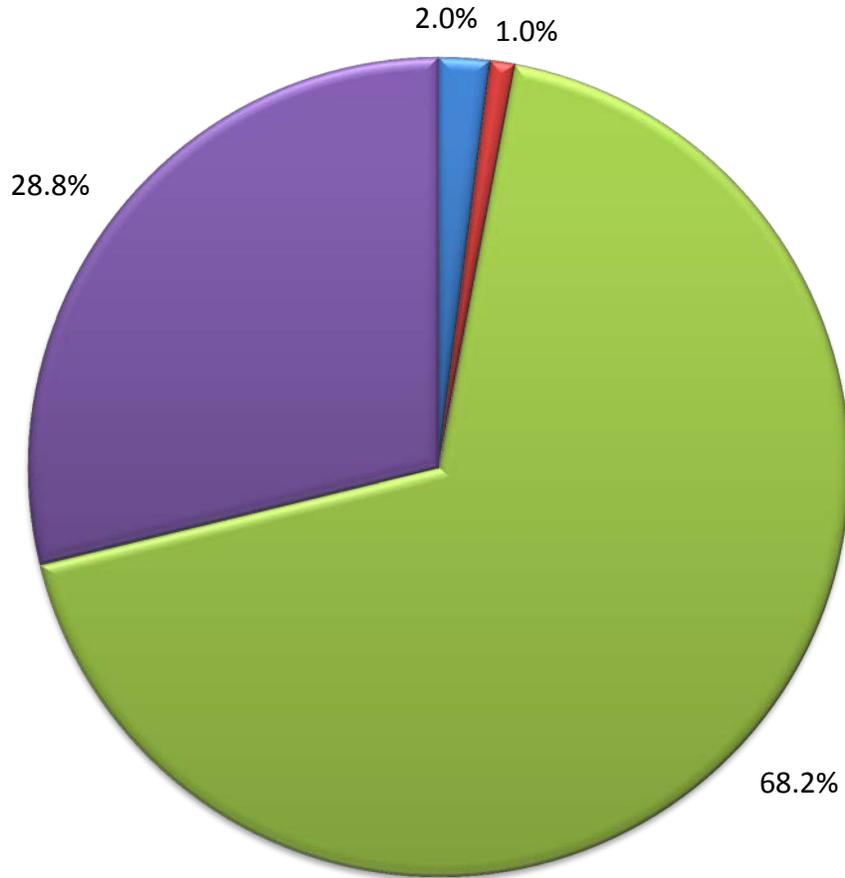


	2008-09	2009-10	2010-11	2011-12	2012-13
CCCE	\$808,474	\$1,668,068	\$1,894,876	\$2,335,655	\$1,725,090
Dean's Office	\$646,682	\$110,110	\$98,788	\$0	\$0
Education	\$885,621	\$947,793	\$743,246	\$1,092,123	\$967,880
Health & Human Performance	\$23,435	\$97,525	\$1,250	\$58,079	\$0
Interior Design	\$2,447	\$2,817	\$3,334	\$2,113	\$2,049
Nursing	\$1,554,288	\$1,447,929	\$1,924,532	\$1,498,316	\$3,367,680
Physical Therapy	\$8,167	\$4,870	\$4,887	\$1,066	\$3,270
Social Work	\$0	\$480,504	\$493,480	\$493,480	\$0
Total Funding	\$3,929,114	\$4,759,616	\$5,164,393	\$5,480,832	\$6,065,969



ADMINISTRATIVE UNITS

Total Admin External Funding: \$417,325



■ Financial Aid (\$8,350)

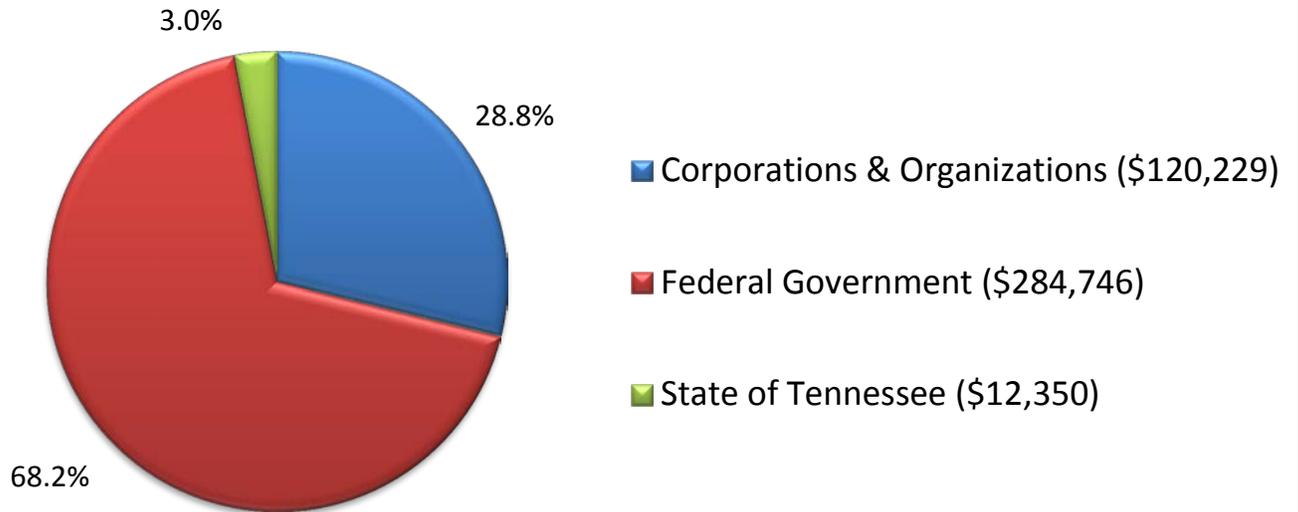
■ Fine Arts Center (\$4,000)

■ Student Support Services (\$284,746)

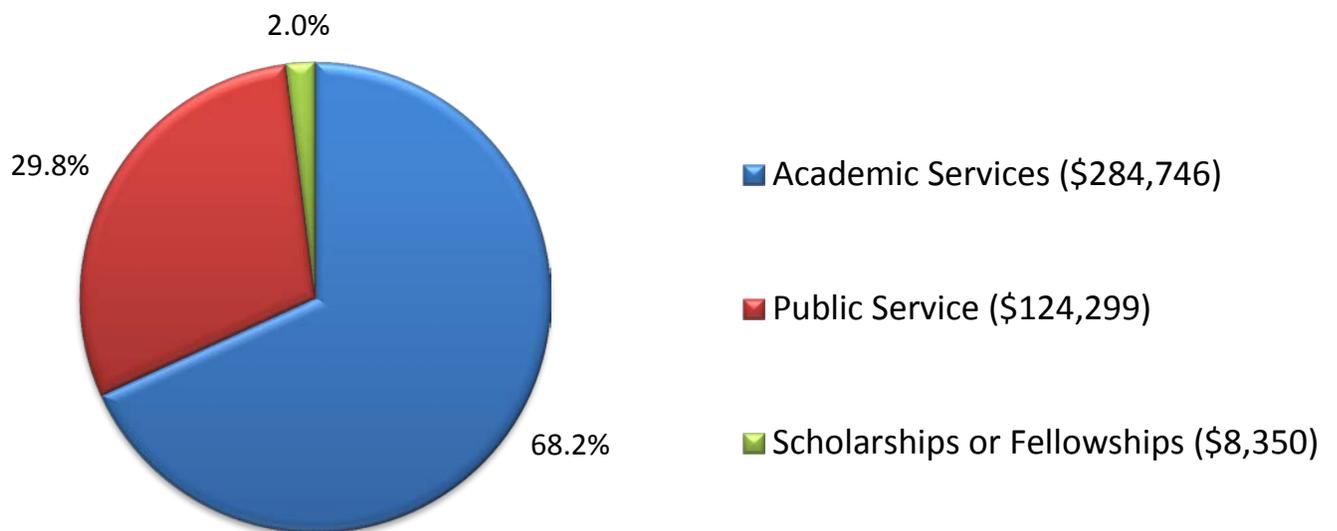
■ WUTC - FM (\$120,229)

ADMINISTRATIVE UNITS

Awards by Source



Awards by Functional Area



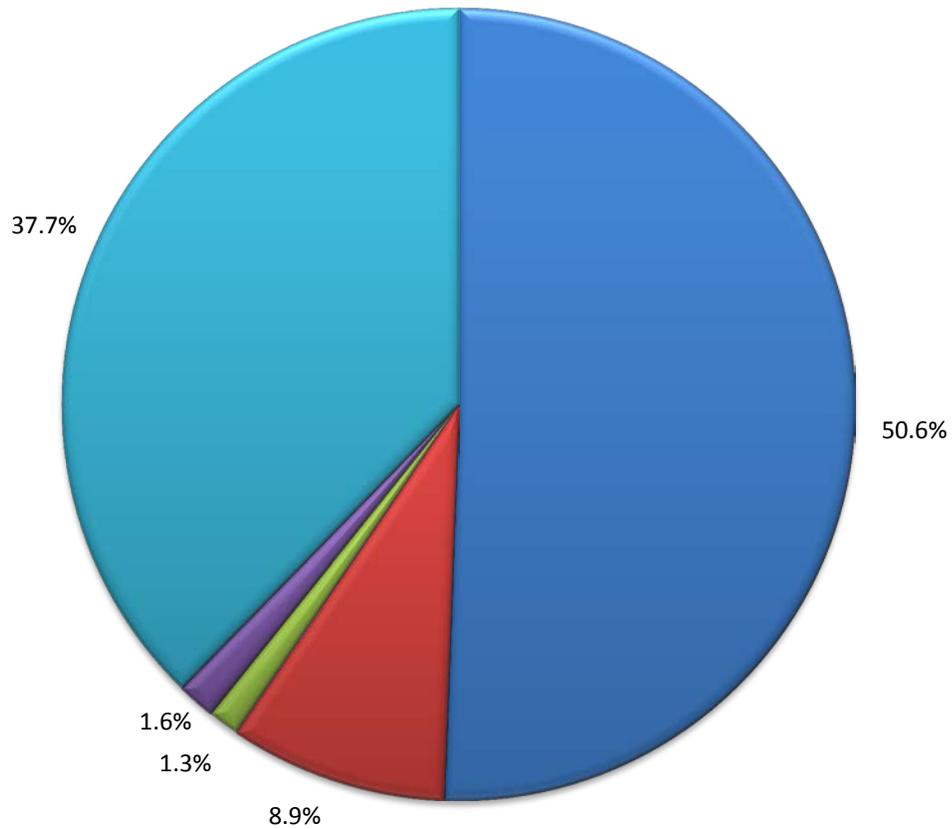
ADMINISTRATIVE UNITS

Awards by Department				
Lead PI/PD	Funder	Title	Amount	FA*
Financial Aid				
Dianne Cox	TN Student Assistance Corp	TN Rural Health Loan Forgiveness Scholarships 2012-13	\$8,350	SF
Fine Arts Center				
Bob Boyer	TN Arts Commission	Bill T. Jones/Arnie Zane Dance Company Performance Support	\$4,000	PS
Student Support Services				
Shirl Gholston	U.S. Dept of Education	Student Support Services 2012-2013	\$284,746	AS
WUTC-FM				
John McCormack	Corp for Public Broadcasting	Radio Community Service Grant 2013	\$120,229	PS
Administrative Units Total Awards			\$417,325	

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ADMINISTRATIVE UNITS

**Total Admin External Funds Requested:
\$318,839**



■ Assistant Vice Chancellor for Plant Operations (\$161,297)

■ Financial Aid (\$28,313)

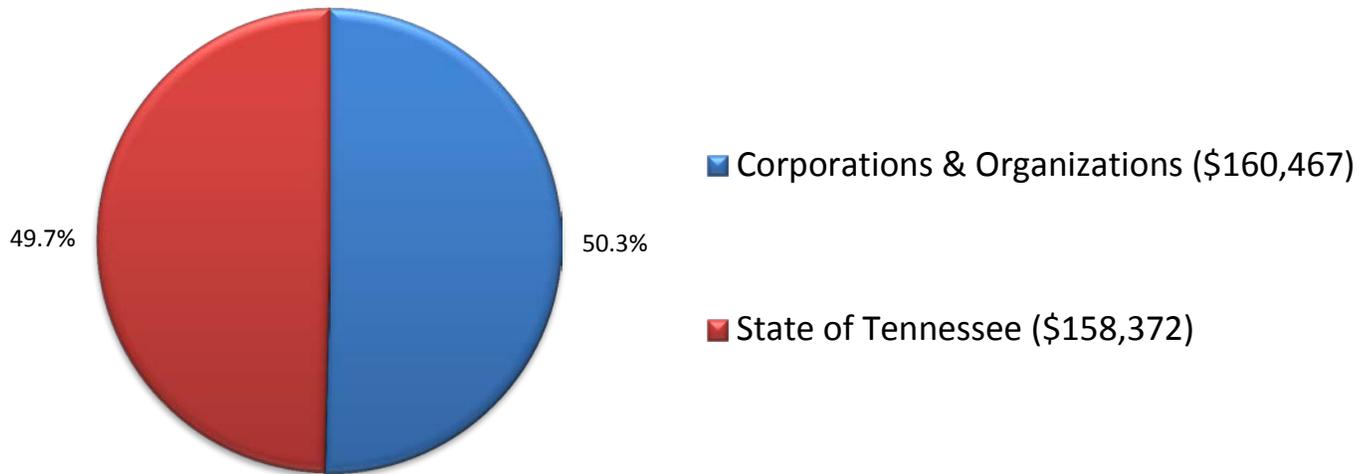
■ Fine Arts Center (\$4,000)

■ Student Development (\$5,000)

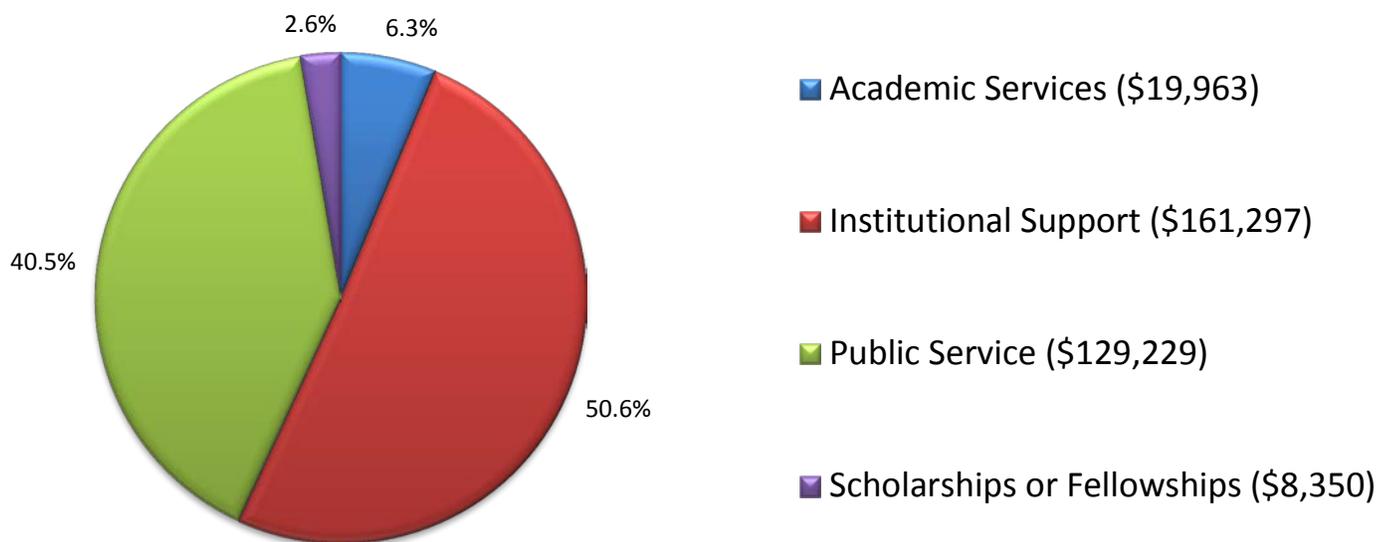
■ WUTC - FM (\$120,229)

ADMINISTRATIVE UNITS

Submissions by Source



Submissions by Functional Area



ADMINISTRATIVE UNITS

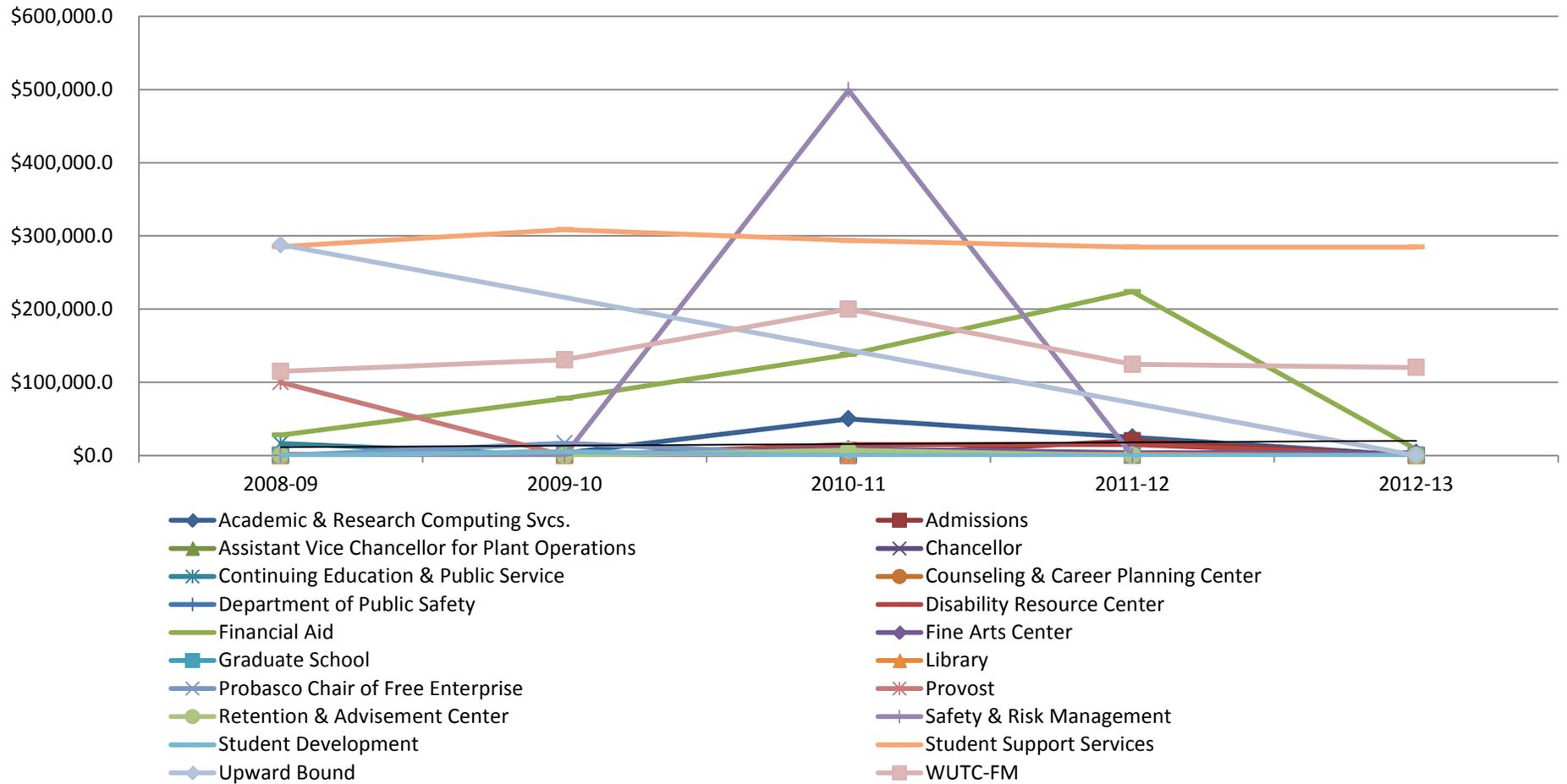
Submissions by Department				
Lead PI/PD	Funder	Title	Amount	FA*
Assistant Vice Chancellor for Plant Operations				
Lisa Darger	TN Dept of Environment & Conservation	Administrative Services Building Chiller Replacement	\$146,022	IS
	Benwood Foundation	Benwood Auditorium Lighting Upgrades	\$15,000	IS
	RecycleMania	RecycleMania Tournament 2013	\$275	IS
Financial Aid				
Dianne Cox	TN Student Assistance Corp	TN Rural Health Loan Forgiveness Scholarships 2012-13	\$8,350	SF
Jeff Rector	Community Foundation of Greater Chattanooga	PRELIMINARY: Financial Literacy Education Program	--	AS
		Financial Literacy Education Program	\$19,963	AS
Fine Arts Center				
Bob Boyer	TN Arts Commission	Bill T. Jones/Arnie Zane Dance Company Performance Support	\$4,000	PS
Student Development				
Sara Peters	AVON Foundation	Avon Foundation for Woman Health Relationship College Program	\$5,000	PS
WUTC-OFM				
John McCormack	Corp for Public Broadcasting	Radio Community Service Grant 2013	\$120,229	PS
			\$318,839	

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ADMINISTRATIVE UNITS

FIVE-YEAR FUNDING TRENDS BY DEPARTMENT

FISCAL YEARS 2009 - 2013



UTC OFFICE OF PARTNERSHIPS & SPONSORED PROGRAMS

The Office of Partnerships and Sponsored Programs seeks to promote academic scholarship and engagement by working with faculty and staff to foster the development of competitive grant proposals and sponsored programs contracts.

We applaud the UTC community of scholars and experts for the activities documented in this report. Our university, community, and world are a better place because of your efforts!

The office performs the following services:

- identifies funding opportunities;
- disseminates grant related information to faculty and administrators;
- supports the development of grant proposals and budgets;
- facilitates grant writing workshops to assist faculty in developing competitive proposals;
- reviews and approves proposals before submission to ensure compliance with both UTC standards and sponsor requirements;
- administers the TERA-PAMS enterprise system on the UTC campus;
- assists faculty in submission of timely, accurate, performance reports;
- assists with research and statistics needed for proposal development;
- obtains internal approvals for grant submissions; and
- reviews and processes contracts and sub-contracts awarded to the university.



Left to Right: (back) Todd Doman, Angie Johnson, Greg Heath; (front) Baley Whary, Meredith Perry, Maria Derrick.

Contact us!

Office of Partnerships & Sponsored Programs

University of Tennessee at Chattanooga

Dept 4905

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