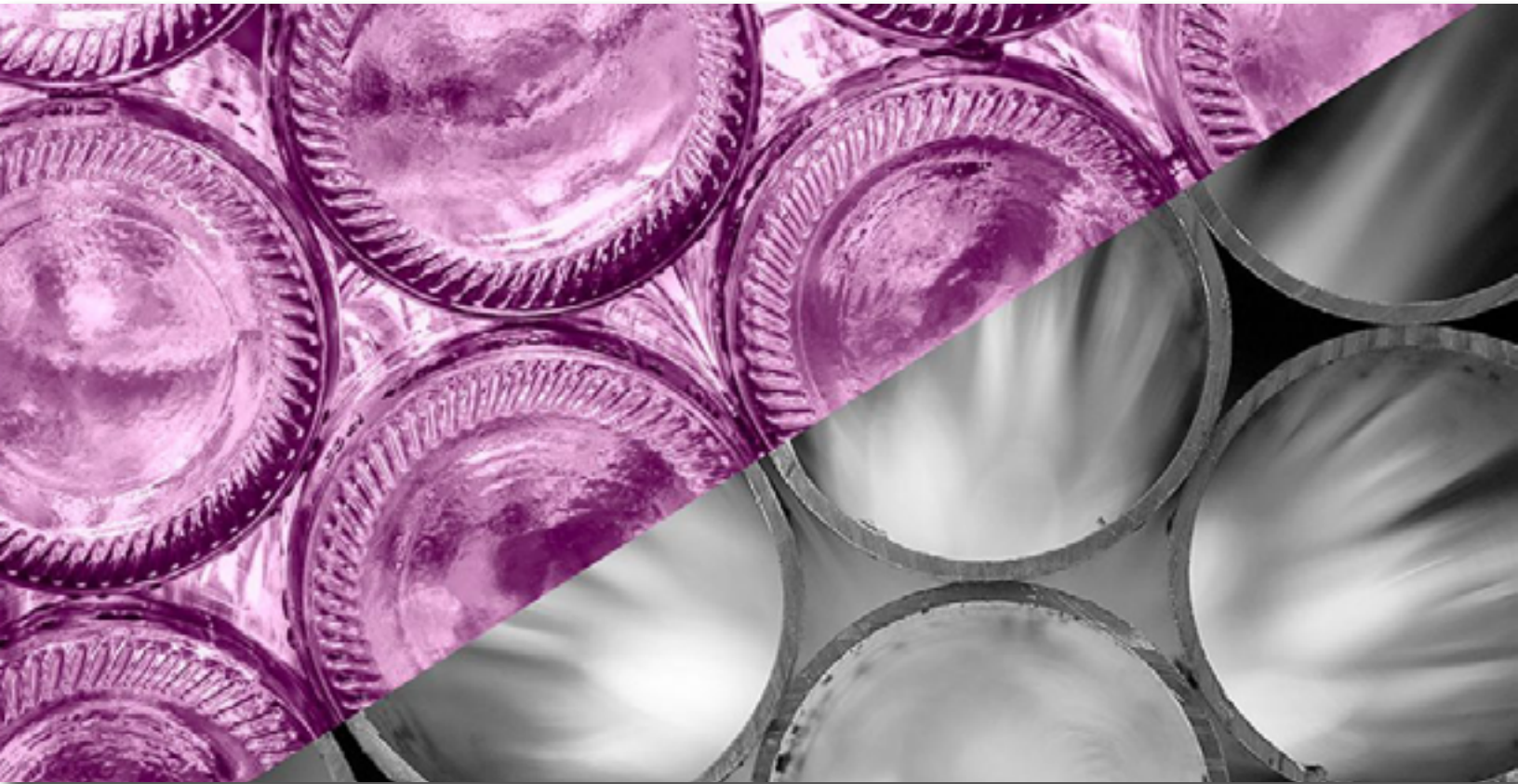


Office of Research & Engagement
University of Tennessee
3rd Quarterly Research Report
for FY 2017

Cumulative for
July 1, 2016 – March 31, 2017



Takeshi Egami, UT-ORNL Distinguished Scientist and professor of materials science and engineering, is working to combine the best characteristics of metals and glasses into one super-strong yet easily malleable material.



THE UNIVERSITY OF
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OFFICE OF RESEARCH &
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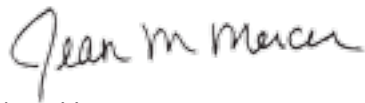
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A Message from the AVCR

During the third quarter of FY17, in addition to the funding of projects from the federal government, we saw increases of awards from non-profit, for-profit, and foreign organizations to support our research enterprise. This is encouraging as we continue our momentum towards the Top 25.

One particular project of interest during this quarter was awarded to Uma Rao, Betsey R. Bush Endowed Professor of Behavioral Health and director of UT's Center for Behavioral Health Research. Rao submitted a proposal to the National Institute on Minority Health and Health Disparities to investigate the "Ethnic Influences on Stress, Energy Balance and Obesity in Adolescents." This research will be beneficial in developing future programs to assist individuals with weight control interventions and obesity prevention.

The Office of Research and Engagement is continually looking for ways to foster and support research activities. I encourage you to reach out to me or other members of the ORE staff (research.utk.edu/staff) with questions or concerns.



Jean Mercer
Assistant Vice Chancellor for Research
Director of Sponsored Programs



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Proposals, Awards, and Expenditures

College/Center/ Institute	Proposals Submitted				Awards Received				Estimated Total Research Expenditures (HERD ¹)	
	No.	% No. Incr. Over FY 16	Amount Requested	% \$ Incr. Over FY 16	No. ³	% No. Incr. Over FY 16	Amount Received	% \$ Incr. Over FY 16	Amount Expended	% \$ Incr. Over FY 16
College of Architecture and Design	3	0.0%	\$250,578	163.9%	4	-20.0%	\$224,627	-6.0%	\$304,212	-32.5%
College of Arts and Sciences	425	20.7%	\$116,255,726	9.1%	306	6.6%	\$29,023,035	20.7%	\$28,990,366	11.9%
Haslam College of Business	29	45.0%	\$5,553,721	-26.5%	23	9.5%	\$2,334,126	-26.4%	\$5,388,652	-8.2%
College of Communication and Information	17	30.8%	\$2,257,549	-63.0%	8	-11.1%	\$1,271,722	39.9%	\$1,308,113	-7.8%
College of Education, Health, and Human Sciences	78	-2.5%	\$43,150,091	21.6%	26	-35.0%	\$7,413,890	-28.5%	\$2,339,747	-32.6%
Tickle College of Engineering	509	-2.1%	\$176,148,827	2.2%	441	-6.0%	\$47,219,180	0.3%	\$52,280,076	1.3%
College of Law	1	0.0%	\$12,802	-89.0%	0	-100.0%	\$0	-100.0%	\$14,024	98.4%
College of Nursing	13	-7.1%	\$5,293,616	-7.0%	6	50.0%	\$43,841	-76.3%	\$218,844	-61.2%
College of Social Work	34	25.9%	\$13,520,631	-41.7%	28	55.6%	\$3,648,728	128.1%	\$622,317	6.3%
Research Centers and Institutes	210	40.0%	\$54,284,886	56.5%	249	16.4%	\$14,425,816	5.4%	\$24,462,270	7.3%
UT Space Institute	47	4.4%	\$7,928,572	3.6%	28	21.7%	\$2,030,453	24.5%	\$2,863,414	2.9%
Other ²	16	60.0%	\$7,091,397	752.9%	37	68.2%	\$15,440,482	24.5%	\$3,416,822	13.0%
Total	1,382	11.9%	\$431,748,396	7.8%	1,156	3.9%	\$123,075,900	6.7%	\$122,208,857	3.1%

Notes

1. HERD - Higher Education Research and Development Survey, the successor to the Survey of Research and Development Expenditures at Universities and Colleges.
2. Other Colleges, Centers or Institutes - This field captures any research proposal, award, and expenditure not included in the categories above. Not all research expenditures in this category have a corresponding proposal/award.
3. The Number of Awards Received represents the cumulative number of funding award increments. One project may receive multiple funding awards.

* N/C - Not Calculable

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Top 20 Awards (by dollar value)

Investigators (Primary PI First)	Award Admin Department	Project Title	Sponsor	Anticipated Amount
	PI Home Department			
Eighmy, Thomas; Penumadu, Dayakar; Babu, Sudarsanam	Research Admin	Institute for Advanced Composites Manufacturing Innovation	Collaborative Composite Solutions Corp./ Dept. of Energy	\$13,445,312
	Research Admin; CEE; MABE			
Peterson, Gregory	JICS	XSEDE 2.0: Integrating, Enabling and Enhancing National Cyberinfrastructure with Expanding Community Involvement	University of Illinois at Urbana- Champaign /NSF	\$8,961,437
	JICS			
Tomsovic, Kevin; Tolbert, Leon; Li, Fangxing; Liu, Yilu; Wang, Fei; Chen, Chien-Fei	CURENT	ERC for Ultra-Wide Area Resilient Electric Energy Transmission Network	NSF	\$5,226,647
	EECS; CURENT			
Hayward, Jason; Zhuravleva, Mariya; Hall, Howard; Lukosi, Eric; Melcher, Charles	Nuclear Engineering	Nuclear Science and Engineering Nonproliferation Research Consortium	University of California, Berkeley/ DOE - National Nuclear Security Administration	\$4,250,000
	Nuclear Engineering; MSE; Scintillation Materials Research			
Dongarra, Jack; Kurzak, Jakub; Luszczek, Piotr; Tomov, Stanimire	Innovative Computing Lab	Software for Linear Algebra Transformation at Exascale (SLATE)	DOE - Oak Ridge National Laboratory	\$3,848,101
	Innovative Computing Lab			
Rao, Uma; Raynor, Hollie	Children's Mental Health Services Research Center	Ethnic Influences on Stress, Energy Balance and Obesity in Adolescents	HHS - National Institute on Minority Health and Health Disparities	\$3,713,310
	Social Work Admin; Nutrition			
Hardin, Erin; Schussler, Elisabeth; Gibbons, Melinda; Gardner, Denise; Ezzell, Timothy; Moazen, Marisa	Psychology	Collaborative Research: ASPIRE: Appalachian Students Promoting the Integration of Research in Education	NSF	\$2,887,974
	Psychology; EEB; Educational Psychology & Couns; OIRA; Political Science; Research Admin			
Wang, Fei; Tolbert, Leon; Liu, Yilu	CURENT	A Smart and Flexible Microgrid with a Low-cost Scalable Open-source Controller	Dept. of Energy	\$2,400,000
	EECS			
Crawford, Lisa; White, Connie	CLEE	Tennessee Teachers' Professional Development Event Support	Tennessee Dept. of Education/Dept. of Education	\$2,344,000
	CLEE			
Brewer, Ernest	CAPS Outreach Center	Educational Opportunity Center	Dept. of Education	\$2,326,014
	CAPS Outreach Center			

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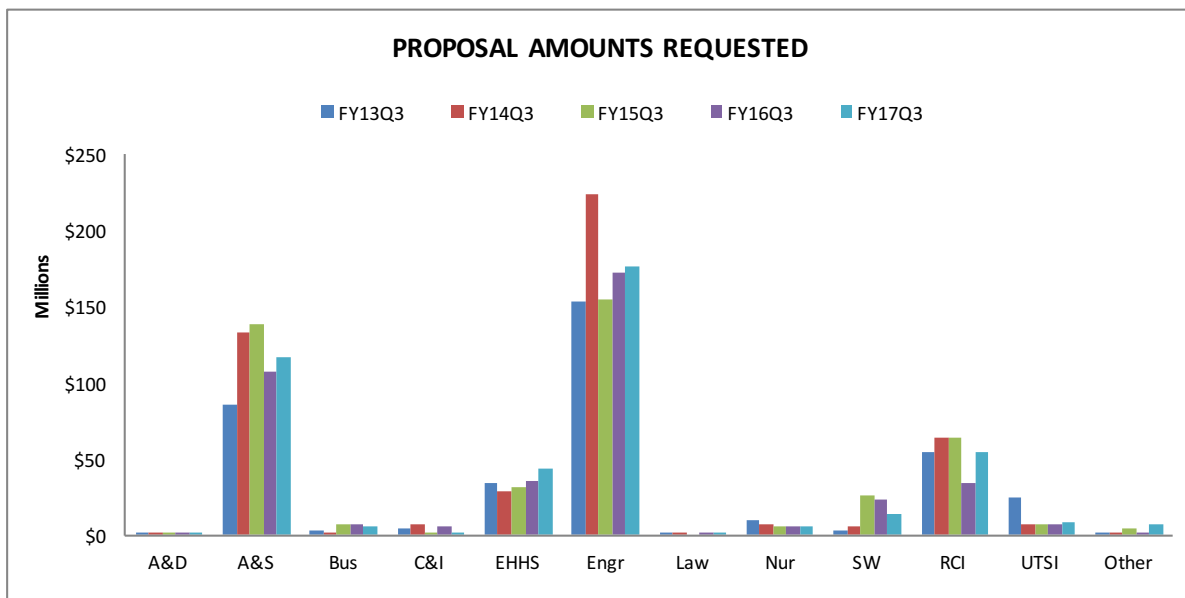
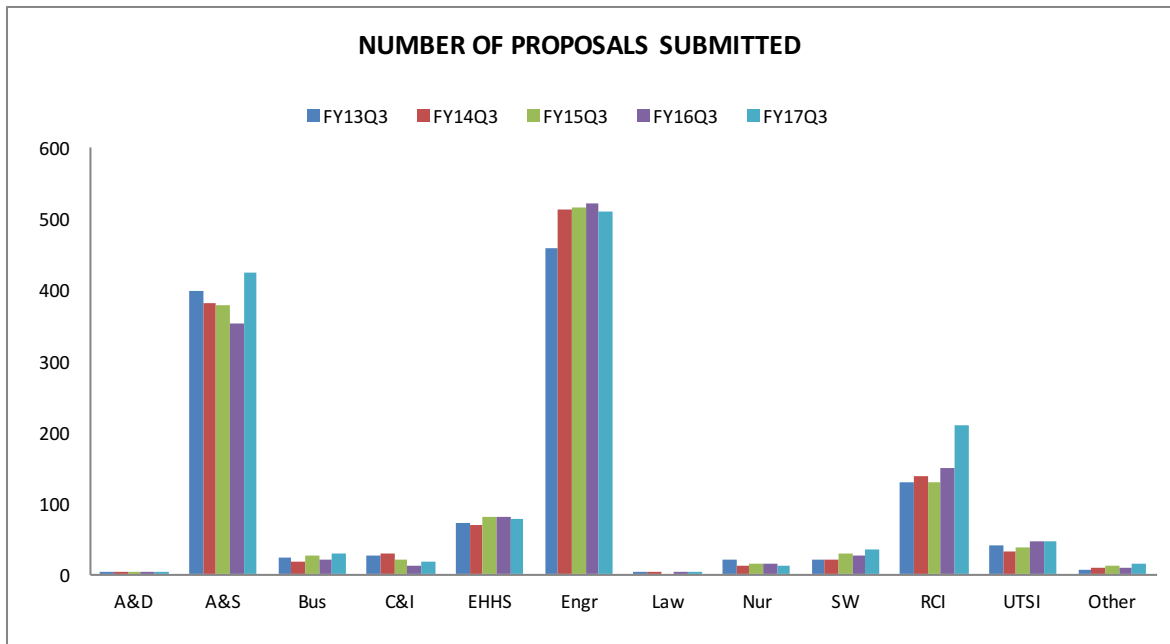
Top 20 Awards (Continued)

Investigators (Primary PI First)	Award Admin Department	Project Title	Sponsor	Anticipated Amount
	PI Home Department			
Dongarra, Jack; Bosilca, George; Bouteiller, Aurelien; Herault, Thomas	Innovative Computing Lab	Distributed Tasking for Exascale	DOE - Oak Ridge National Laboratory	\$1,840,582
	Innovative Computing Lab			
Dongarra, Jack; Jagode, Heike; Danalis, Antonios	Innovative Computing Lab	EXA-PAPI: The Exascale Performance Programming Interface	DOE - Oak Ridge National Laboratory	\$1,839,183
	Innovative Computing Lab			
Barrera Olivares, Francisco; Morrell-Falvey, Jennifer	BCMB	Transmembrane peptides for targeting acidosis	HHS - National Institute of General Medical Sciences	\$1,644,667
	BCMB			
Ganusov, Vitaly; Gregor, Jens; Berry, Michael	Microbiology	Mathematical modeling of immune response to malaria	HHS - National Institute of General Medical Sciences	\$1,535,422
	Microbiology; EECS			
Cormier, Thomas; Read, Kenneth; Sorensen, Soren	Physics	ALICE Barrel Tracking Upgrade	Dept. of Energy	\$1,400,000
	Physics			
Mockus, Audris; Bradley, Randy; Bichescu, Bogdan; Zaretski, Russell	EECS	BIGDATA: Collaborative Research: IA: OSCAR - Open Source Supply Chains and Avoidance of Risk: An evidence based approach to improve FLOSS supply chains	NSF	\$1,300,000
	EECS; Marketing & Supply Chain Manag; Statistics, Operations & Mgmt			
Wirth, Brian; Zinkle, Steven	Nuclear engineering	Control of the Plasma-Material Interface for Long Pulse Optimization in EAST and KSTAR	DOE - Fusion Energy Sciences	\$1,050,000
	Nuclear engineering			
Hillyer, Sarah; Huffman, Ashleigh	Center for Sports, Peace, & Society	Better World: Empowering Global Change Agents through Sports	Dept. of State	\$1,030,000
	EHHS Admin			
DeSmidt, Hans; Glasby, Ryan; Coder, James	MABE	VLRCOE Task 1.1, Task 1.2, Task 6.2 & Task 6.3	Pennsylvania State University/DOD - Dept. of the Army	\$1,020,079
	MABE; JICS			
Shefner, Jon	Sociology	Host SSSP Administrative Office	Society for the Study of Social Problems	\$924,398
	Sociology			

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Proposal Calculations

Please note that we have implemented two changes in the proposal count and amount calculations:

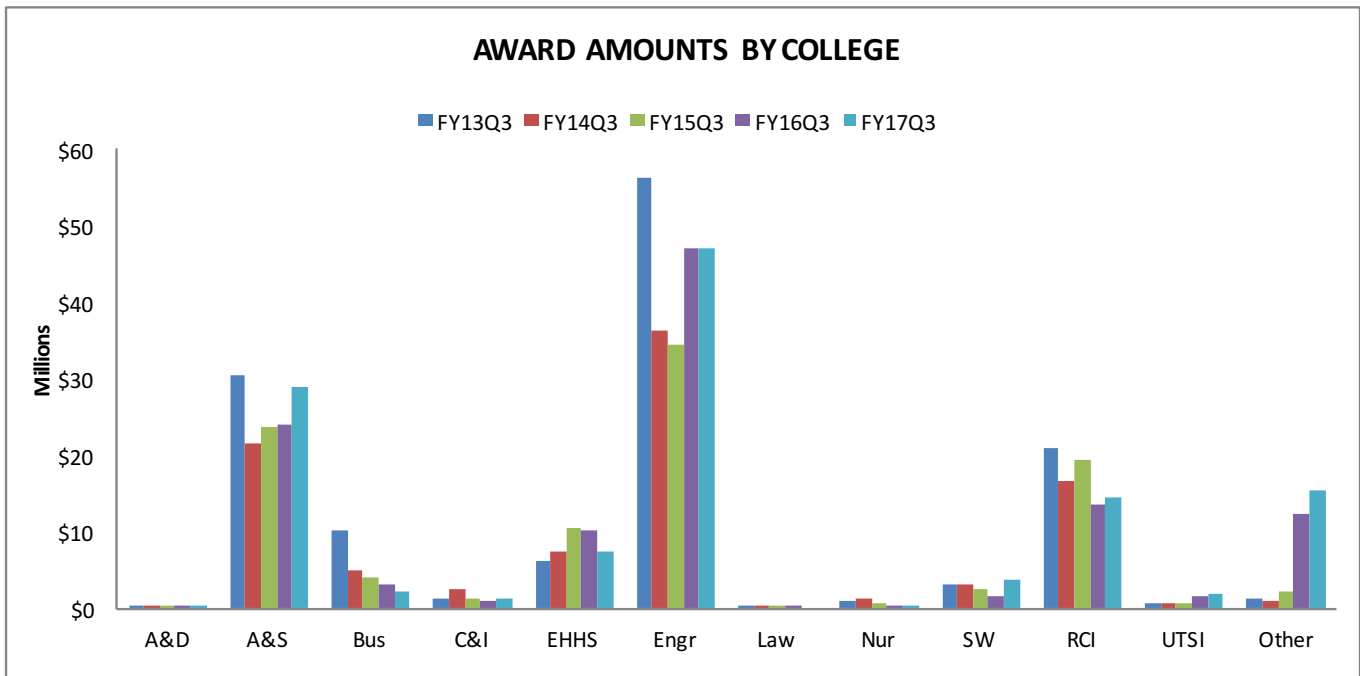
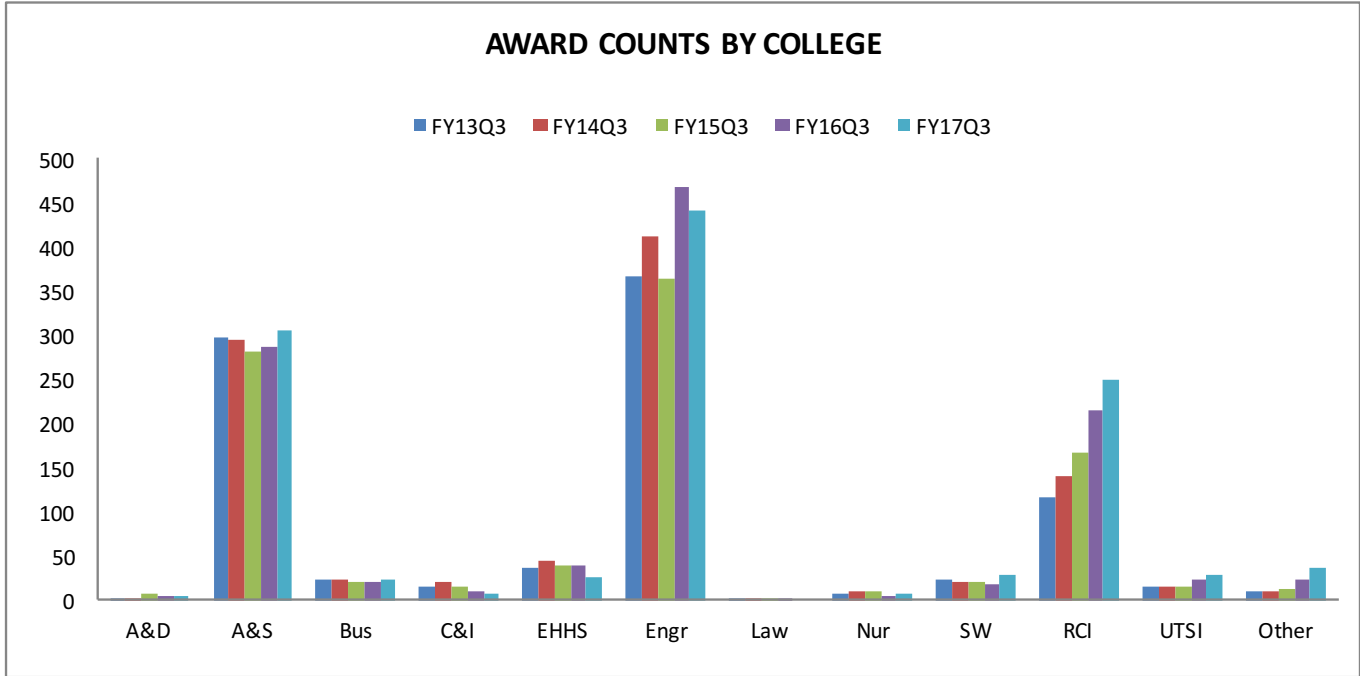
- We are no longer including Letters of Intent (preliminary proposals) in the proposal count/amount calculations.
- We are now including proposals with a status of 'Withdrawn'. These are actual proposals that were withdrawn after submission.

The changes will be implemented for all standard reports FY17 forward. Data for previous years will also be reported according to the changes described. If you have any questions about the differences between previous reports and reports going forward, please contact Anna Banks or Allison Heming with the ORE Research Informatics.

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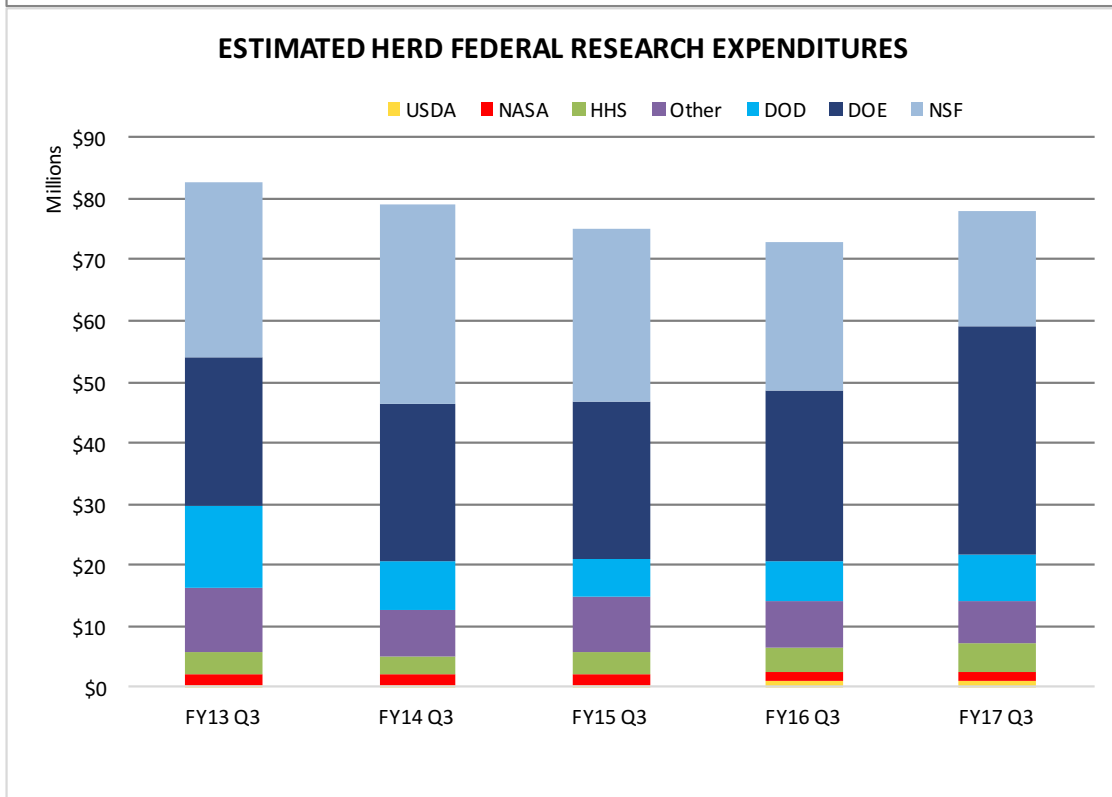
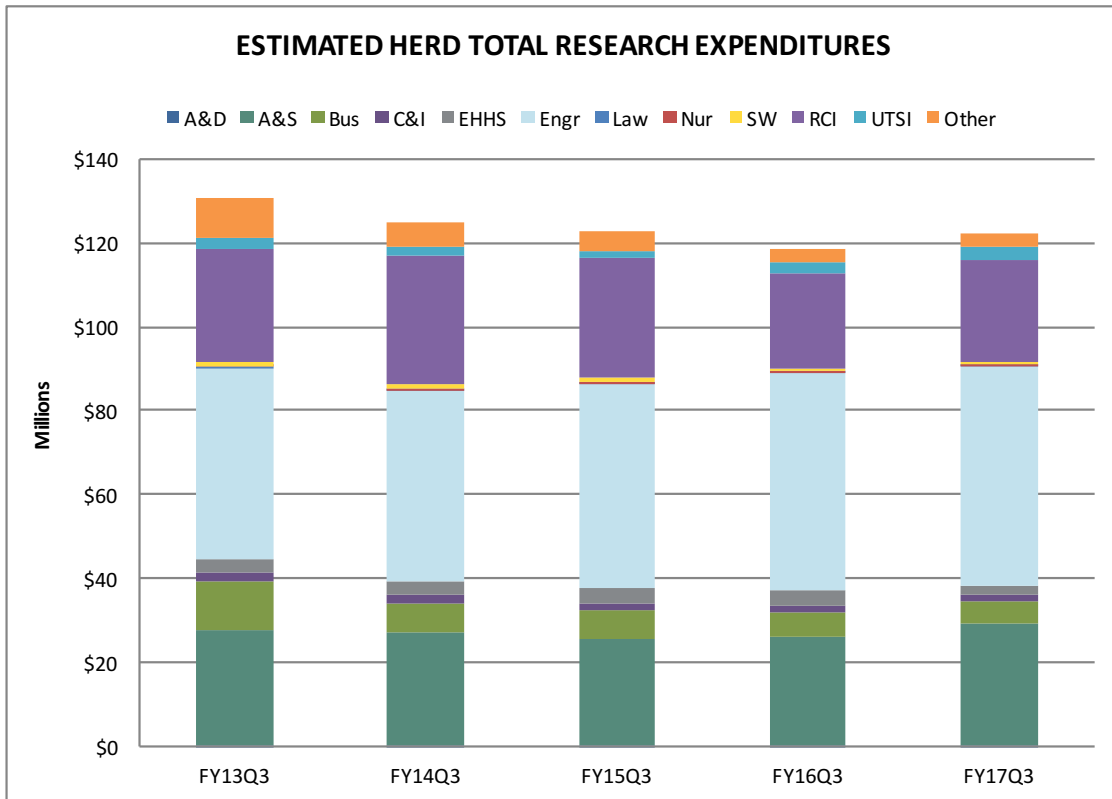
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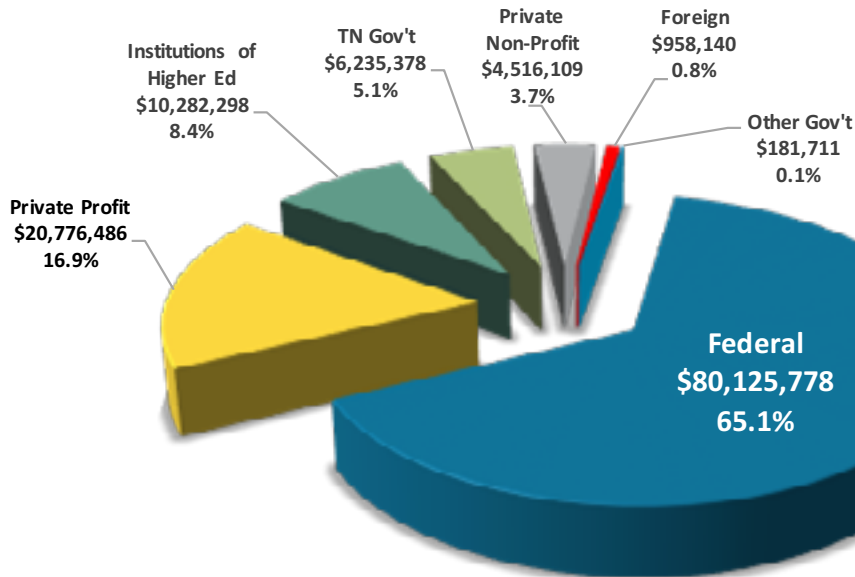


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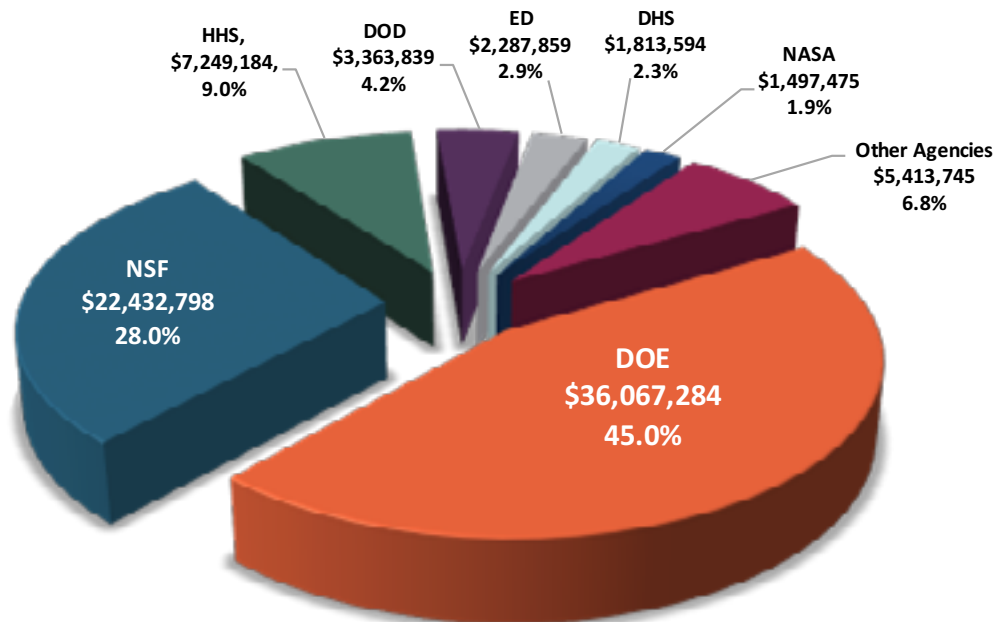
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AWARDS BY SOURCE



FEDERAL AWARDS BY AGENCY



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How Quarterly Research Summary Data are Derived

Each Quarterly Research Summary is a fiscal year-to-date comparison.

Data depicting colleges and research centers and institutes are presented to show trends within each unit. Award and proposal data are pulled from Cayuse SP. Research expenditure data are pulled from IRIS.

To ensure consistency of the Office of Research and Engagement reports, all quarterly and annual report award selection is based on the Award Effective Date (beginning of project funding). The proposal selection is based on the Proposal Approval Date.

Award, proposal, and expenditure data include UT Knoxville, UTSI, and UWA.

There are occasionally variations in the numbers reported for each quarter as information is updated into Cayuse SP and IRIS on a daily basis. The data for this report were collected on May 3, 2017. The annual report will represent the final amounts for that fiscal year.