

Office of Research & Engagement University of Tennessee

Quarterly Research Report for FY 2015

First quarter:
July 1 - September 30, 2014



Haslam College of Business

Office of Research & Engagement • University of Tennessee

Quarterly Research Report • FY 2015

Q1: July 1 - September 30, 2014

A Message from the AVCRD

The Office of Research & Engagement (ORE) is launching a new format for the Quarterly Research Report. Concurrently, this is my first quarter as the new Associate Vice Chancellor for Research Development. It is truly a pleasure to be at the University of Tennessee as we take on the challenge of becoming a Top 25 research university. I am delighted to have visited so many of the centers, schools, and departments in the ORE orientation sessions this fall and to have met many of the faculty, staff, and students.



I am extremely excited about the opportunities here, and it is a great honor to serve the research community, providing stewardship of our internal funding resources, and helping to secure external funding and recognition for the terrific ongoing research and scholarship. There are many “wins” to celebrate, and several of them are listed on the following page.

We hope you like the new Quarterly Research Report format and layout, and the reimagined and informative way that our research data are presented. I invite your feedback on the Quarterly Research Report or anything else that you would like to discuss involving the Office of Research & Engagement, your research concerns and interests, and aspirations you may have for future research activities at UT.

A handwritten signature in blue ink that reads "Janet E. Nelson". The signature is fluid and cursive.

Dr. Janet E. Nelson
Associate Vice Chancellor for Research Development

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Here are a few highlights from our various ORE units during this quarter:

Centers and Institutes: JIBS and ORNL conducted a symposium on the future of JIBS in August, 2014. JINS, in concert with ORE and the Neutron Sciences Directorate, hosted a neutron science workshop at ORNL in September for new users.

Communications / Training: ORE hired a dedicated communications coordinator, Erin Chapin, who has worked to update web content and organization, offer new digital formats of ORE reports (such as this report), and form a network with campus communicators to better serve our audience.

Compliance: In August, we launched the iMedRIS research compliance software, enabling researchers to submit their protocols electronically to the IRB for review. The process is now completely paperless.

Corporate & Foundation Relations: The Cancer Community of Scholars hosted a Cancer Research Symposium for Early Career/Assistant Professors at the UT Medical Center, at which faculty presented their work and learned more about applying for pilot project funding from the American Cancer Society-Institutional Research Grant program.

Faculty Development Team: FDT took a lead role in elevating SciVal Funding as the premier tool for faculty seeking research funding. We also recognize the National Endowment for the Humanities award for the TN Digital Newspaper Project, Phase III, bringing the total award amount to \$995,000.

Federal Relations: In August, we visited the Army Armament Research, Development & Engineering Center at Picatinny Arsenal to discuss collaborations on advanced manufacturing and materials. This resulted in ARDEC representatives coming to campus in October for a visit with UTK faculty.

Office of Sponsored Programs: OSP launched the Faculty Visitation Program for our staff to meet and better understand the PI's research and build better working relations with our researchers. We look forward to future meetings to learn about our faculty and their research activities.

ORE Community Engagement and Outreach: The OCEO and the Undergraduate Research Offices drafted plans for a comprehensive strategic campus initiative that will be part of UT's reaccreditation report. Both offices will continue to be involved as the plan is implemented.

Research Development Team: RDT supported many high-profile and valuable awards listed in this report. We would like to note the payoff of persistence in funding pursuits: George Pharr's resubmission of his NSF Major Research Instrumentation proposal was successful this round.

Research Informatics: We continue to provide Statistical Analysis Reports on expenditure and award data for ORE as well as many departments and centers across the campus. The Research Informatics team has been working on framing questions for better understanding the research enterprise and what factors are most responsible for UTK research success.

Strategic Investments: ORE approved start-ups for 69 new faculty with FY15 allocations of \$4.1M. The Strategic and Transformative Investments in Research (STIR) fund supports 7 new and 11 continuing Organized Research Units (\$1.1M). Scholarly and Research Incentive Funds (SARIF) FY15 commitments in Q1 (\$928K) include allocations for Equipment and Infrastructure; Exhibit, Performance and Publication Expenses; Federal, Corporate, and Foundation Opportunity; Foreign Travel Opportunities; Scholarly Projects; and Supplemental Funding for In-Residence Fellowships.

Science Alliance: The Science Alliance Collaborative Cohort Program was formally kicked off at Oak Ridge National Laboratory in August. This Program is a new Joint Directed Research and Development effort to nurture collaborations between underrepresented groups of UT junior faculty and ORNL junior scientists to develop future thought leaders for UT and ORNL.

Undergraduate Research: Marisa Moazen joined ORE as the new UR director and is developing a campus-wide strategy to support existing efforts as well as providing new events to increase the number of students and faculty involved in undergraduate research.

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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 14	Amount Requested	% \$ Incr. Over FY 14	No. ³	% No. Incr. Over FY 14	Amount Received	% \$ Incr. Over FY 14	Amount Expended	% \$ Incr. Over FY 14
College of Architecture and Design	2	100%	\$69,500	37%	2	100%	\$108,473	624%	\$154,778	-29%
College of Arts and Sciences	109	-8%	\$22,769,674	-27%	125	-2%	\$12,868,248	6%	\$9,119,077	-4%
Haslam College of Business	10	43%	\$2,795,956	214%	9	-31%	\$1,663,762	-60%	\$2,282,976	-9%
College of Communication and Information	10	-29%	\$1,695,101	-10%	7	-30%	\$383,756	-57%	\$560,715	-28%
College of Education, Health, and Human Sciences	30	30%	\$11,136,699	10%	18	-18%	\$8,743,303	63%	\$1,074,122	29%
College of Engineering	138	-7%	\$49,488,864	-44%	135	-29%	\$16,763,481	-8%	\$15,693,553	2%
College of Law	0	0%	\$0	0%	1	100%	\$6,000	100%	\$24,721	37%
College of Nursing	0	-100%	\$0	-100%	3	-57%	\$441,327	-65%	\$216,676	302%
College of Social Work	4	100%	\$4,292,246	2648%	5	-44%	\$688,951	-71%	\$374,078	15%
Campus-Level Research Centers and Institutes	58	23%	\$18,851,195	-40%	71	37%	\$11,772,996	30%	\$11,657,060	-8%
UT Space Institute	7	-13%	\$1,002,500	18%	5	-17%	\$125,241	-64%	\$670,360	-10%
Other ²	4	100%	\$1,572,338	234%	6	50%	\$1,448,640	144%	\$376,963	-50%
Total	372	0%	\$113,674,073	-33%	387	-12%	\$55,014,179	1%	\$42,205,079	-4%

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.

How Quarterly Research Summary Data are Derived

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

Data depicting colleges and campus level research centers & institutes are presented to show trends within each unit. Proposal and award data are pulled from TERA-PAMS. Research expenditure data are from IRIS.

In order to ensure consistency in the report that the Office of Research & Engagement provides, all quarterly and annual report data from TERA-PAMS are pulled by the award effective date field.

These quarterly reports should be considered “estimates.” As new awards are entered into TERA-PAMS, the quarterly report numbers may change. The annual report will represent the final, total numbers for that fiscal year.

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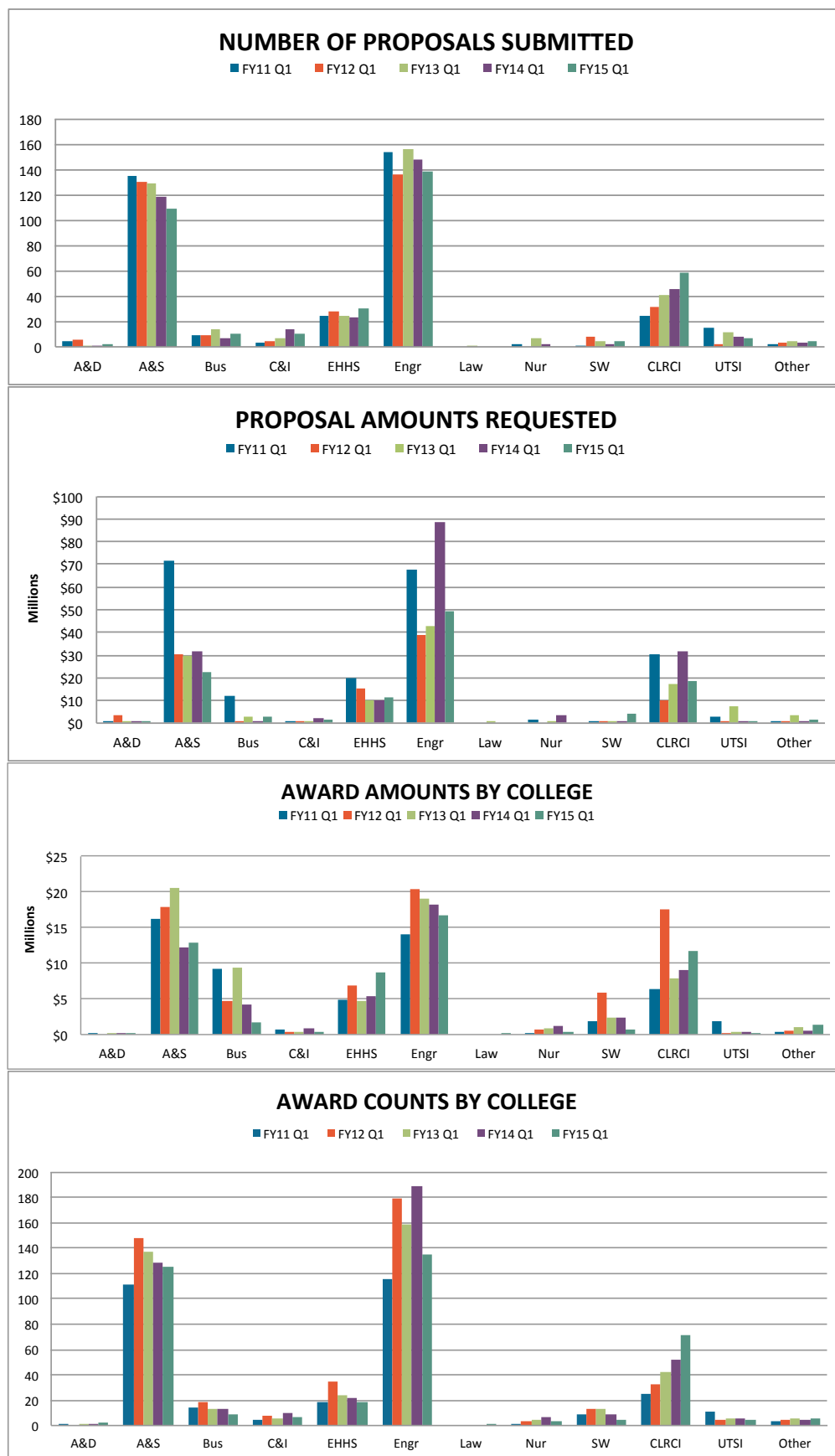
Top 20 Awards (by dollar value)

Investigators (Primary PI First)	Departments, Centers, & Institutes	Project Title	Sponsor	Anticipated Amount
Colby, Sarah; Zhou, Wenjun	Nutrition	Get Fruved: A Peer-Led, Train-The-Trainer Social Marketing Intervention to Increase Fruit and Vegetable Intake and Prevent Childhood Obesity	USDA - Agriculture and Food Research Initiative	\$4,887,083
Wereszczak, Andrew; Pharr, George	JIAM	Glass and Glass-Ceramic Structure and Responding Mechanical Performance	DOD - Army Research Laboratory	\$2,040,699
Mandrus, David	JIAM	Moore Materials Synthesis Investigator	Gordon and Betty Moore Foundation	\$1,700,000
Grzywacz, Robert; Bingham, Carrol	Physics	Support for Joint Institute for Nuclear Physics and Applications	DOE - Oak Ridge National Laboratory	\$1,689,571
Vishnivetskaya, Tatiana; Layton, Alice; Pfiffner, Susan; Fitzpatrick, Benjamin; Lloyd, Karen; Chauhan, Archana	Center for Environmental Biotechnology	Dimensions: Collaborative Research: Genetic, Phylogenetic, and Functional Microbial Diversity in Permanently Frozen Aquatic Sediments Over Geological Time	NSF	\$1,551,143
Pharr, George; Herbert, Erik	JIAM	MRI: Development of and Broad-Based Materials Research with the Next Generation Nanomechanical Testing Laboratory	NSF	\$1,542,631
Hall, Howard	Baker Center	Development and Implementation of Law Enforcement Training Course on Prevention of Chemical Weapons Attacks	US Dept. of State	\$1,452,852
McKee, Bruce	Biochemistry and Cellular and Molecular Biology	Mechanism of Meiotic Pairing in Drosophila Males	NIH	\$1,293,407
Hillyer, Sarah; Huffman, Ashleigh	Center For Sport, Peace & Society	Strong Women. Better World	US Dept. of State	\$1,250,000
Becker, Jeffrey	Microbiology	The Quiesome and Signalosome of a Model GPCR	NIH - National Institute of General Medical Sciences	\$1,105,040
Gaylord, Nan; Mixer, Sandra; Fancher, Susan; Bland, Tamara; Morrow, Jennifer	Nursing-Administration	Collaborating in Caring for Chronically-ill Children (C4): Interprofessional Education to Care for Children and Families with Multiple Chronic Conditions	HHS - Health Resources and Services Administration	\$1,059,219
Moore, John; Taylor, Edward	Construction Industry Research and Policy Center	ARRA: Provide Services Supportive of the Wage and Hour Div. of the Employment Standards Adm	US Dept. of Labor	\$1,026,872
Skinner, Amy; Smith, David	Educational Psychology & Counseling	Rehabilitation Long Term Training: Rehabilitation Counseling	US Dept. of Education	\$993,409
Loeffler, Frank; Ritalahti, Kirsti; Campagna, Shawn; Yan, Jun	Civil & Environmental Engineering	Biogeochemical Controls over Corrinoid Bioavailability to Organohalide-Respiring Chloroflexi	NIH - National Institute of Environmental Health Sciences	\$774,568
Dunn, Patrick; Smith, David	Educational Psychology & Counseling	Long-Term Training: Rehabilitation Counselors for the Deaf	US Dept. of Education - Office of Special Education and Rehabilitative Services	\$738,754
Xu, Haixuan	Materials Science & Engineering	Integrated Computational and Experimental Study of Radiation Damage Effects in Grade 92 Steel and Alloy 709	DOE - Idaho National Laboratory	\$679,999
Maldonado, Guillermo; Wirth, Brian	Nuclear Engineering	Performance Assessment of Enhanced Accident Tolerant Fuels within Aggressive Operational Power Histories	US Dept. of Energy	\$639,967
Ostrouchov, George	JICS	Harnessing Scalable Libraries for Statistical Computing on Modern Architectures and Bringing Statistics to Large Scale Computing	NSF	\$600,000
Hodges, Carolyn	Graduate School	The Graduate Research Fellowship Program	NSF	\$527,720
Parker, Lynne	Electrical Engineering & Computer Science	NRI: Peer-to-Peer Coalitions	NSF	\$521,309

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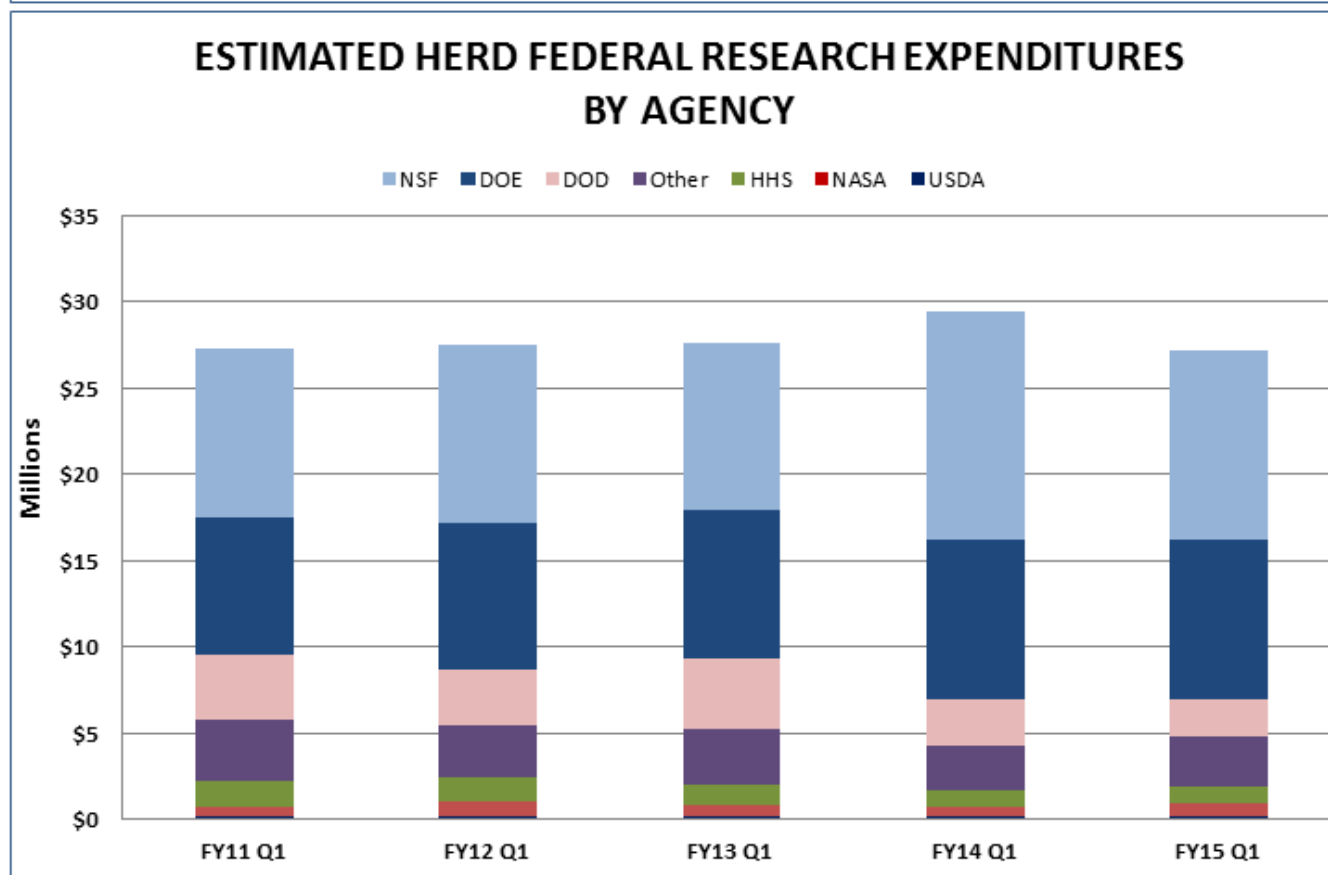
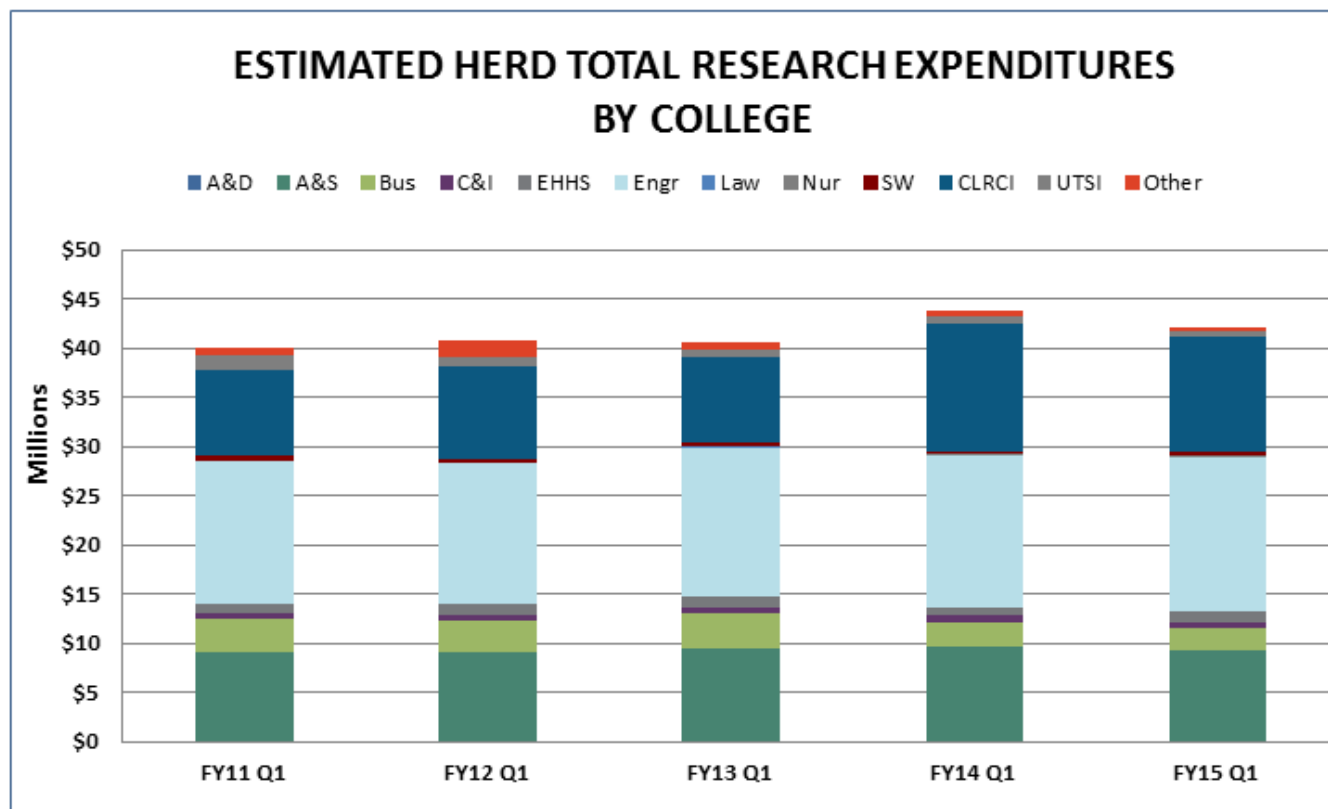
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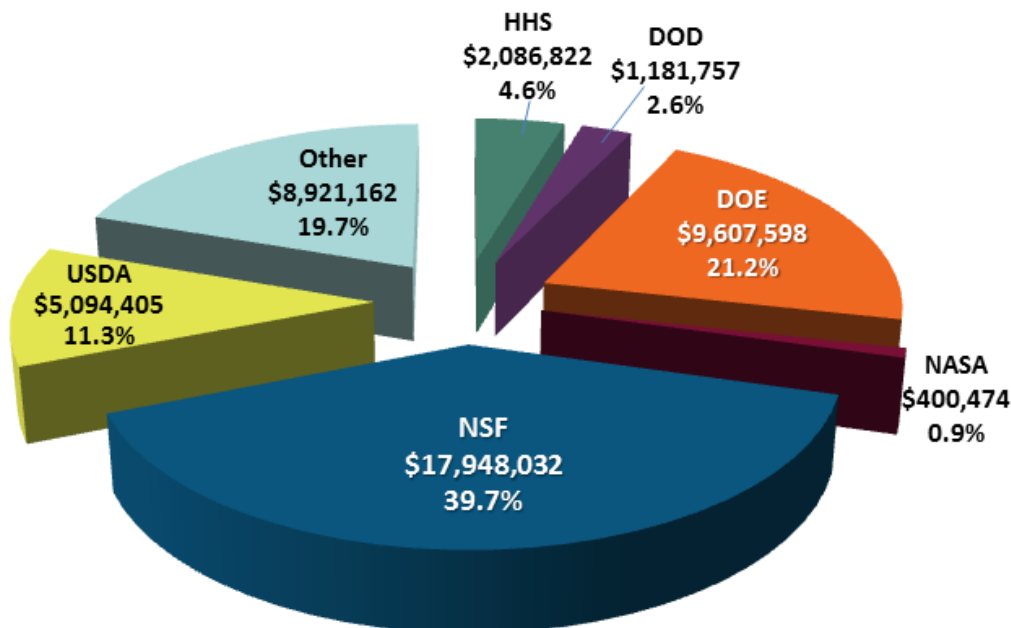


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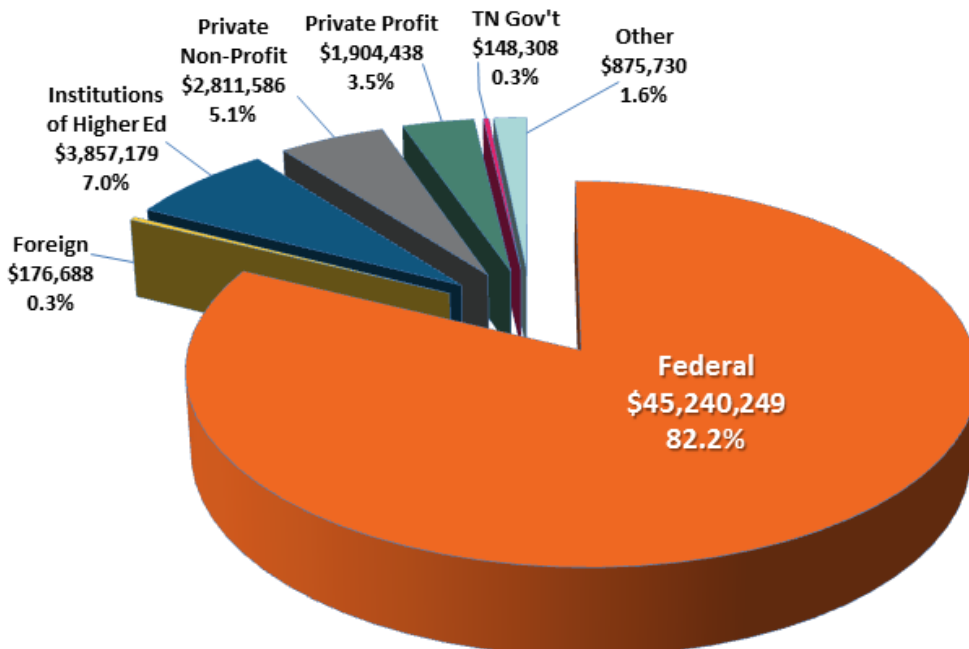
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FEDERAL AWARDS BY AGENCY



AWARDS BY SOURCE



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