



2018 Annual Report of Sponsored Research

Office of Research &
Creative Activities

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Preface

This report covers January 1, 2018 to December 31, 2018.

Included are a number of activities that are carried out by the Office of Research & Creative Activities (ORCA).

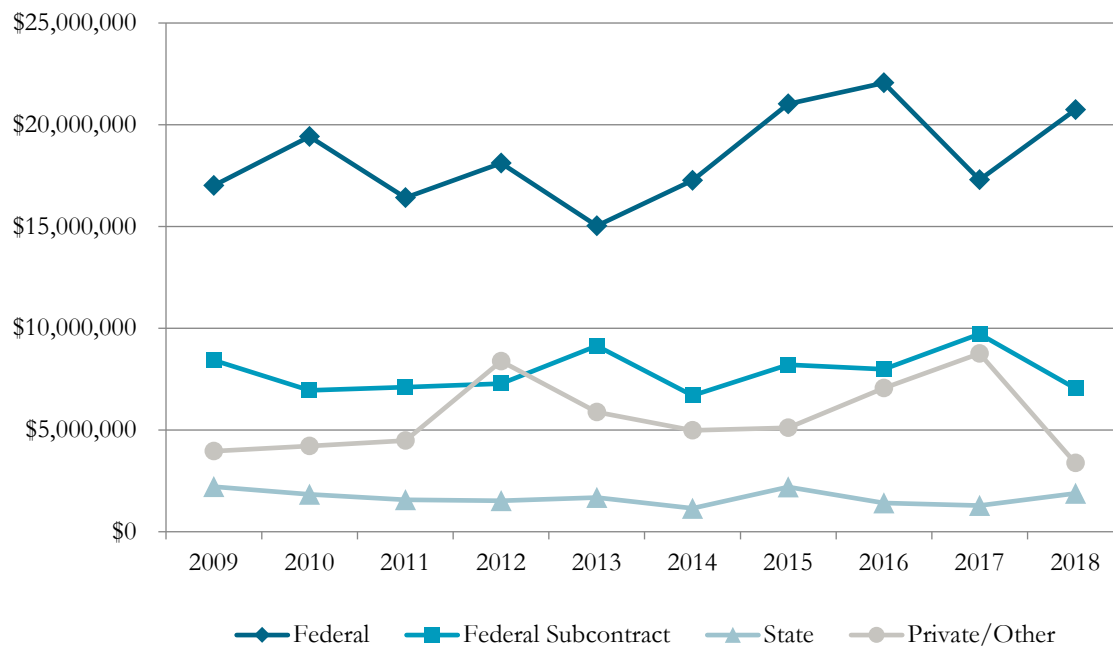
- ***Reports of Sponsored Projects:*** Sponsored projects at BYU are those funded by external sources through ORCA. They are largely research projects, but many include programs that are designed to develop or support instructional or service activities. Support for creative activities such as performance, artistic creations, etc., may also come through ORCA.
- ***Administrative Activities in Support of Research and Creative Activities:*** ORCA supports three university committees which oversee compliance with university, state, and federal regulations.
- ***Recognition for Research and Creative Activities:*** This category includes awards to faculty and students made through the ORCA and MEG grant programs.



The University

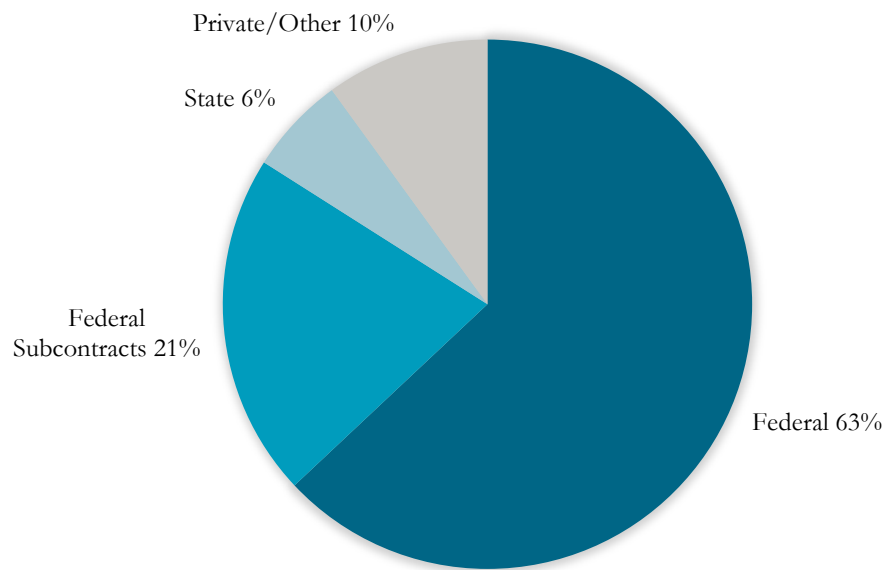
External Research Funding

Grants/Contracts						
Year	Federal	Federal Subcontract	State	Private/Other	Total	%Federal
2009	\$17,008,415	\$8,428,238	\$2,212,727	\$3,959,262	\$31,608,642	80%
2010	\$19,425,099	\$6,949,056	\$1,837,689	\$4,208,063	\$32,419,907	81%
2011	\$16,415,455	\$7,097,675	\$1,572,162	\$4,471,211	\$29,556,503	80%
2012	\$18,110,757	\$7,282,203	\$1,523,034	\$8,379,690	\$35,295,684	72%
2013	\$15,034,387	\$9,126,548	\$1,679,472	\$5,871,718	\$31,712,125	76%
2014	\$17,260,137	\$6,693,946	\$1,151,886	\$4,984,448	\$30,090,417	79%
2015	\$21,015,987	\$8,205,836	\$2,192,841	\$5,115,501	\$36,433,016	80%
2016	\$22,056,396	\$7,987,588	\$1,411,764	\$7,051,367	\$38,507,115	78%
2017	\$17,293,839	\$9,715,815	\$1,290,090	\$8,756,281	\$37,056,025	73%
2018	\$20,736,221	\$7,047,552	\$1,891,552	\$3,371,457	\$33,046,782	84%



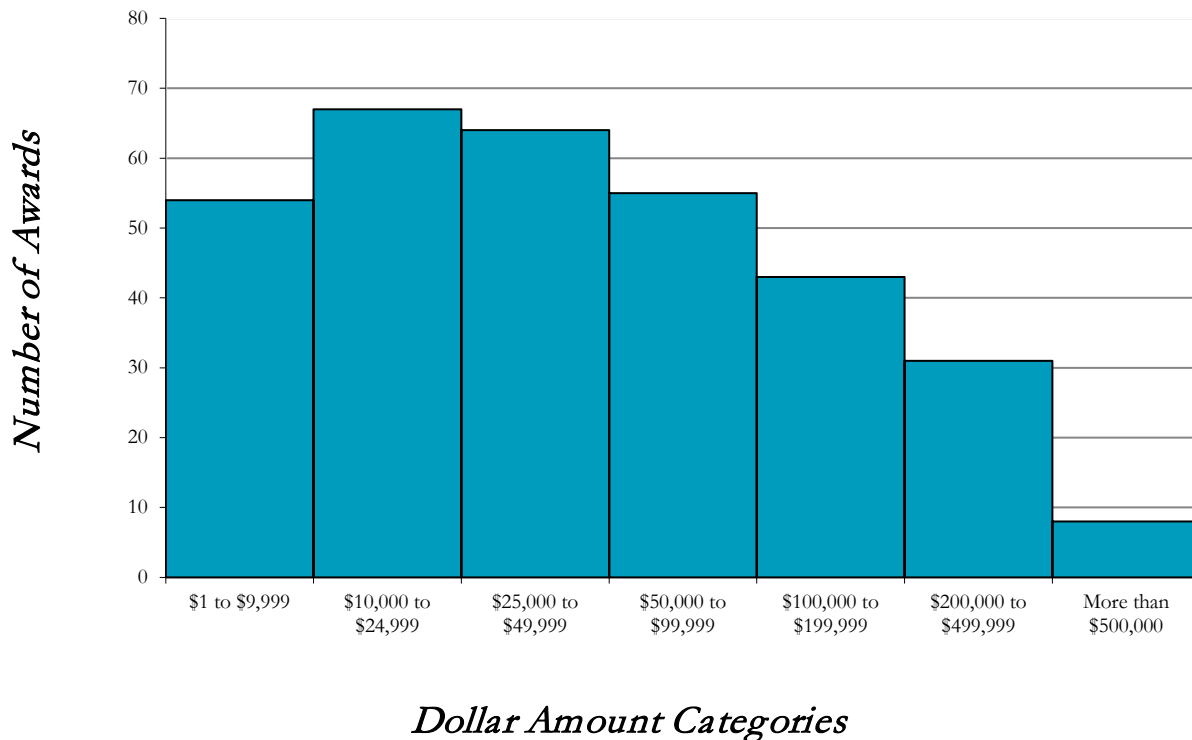
External Funds by Source-2018

Source	Amount	% of Total
Federal	\$20,736,221	63%
Federal Subcontracts	\$7,047,552	21%
State	\$1,891,552	6%
Private/Other	\$3,371,457	10%
<i>Total Funding</i>	<i>\$33,046,782</i>	<i>100%</i>

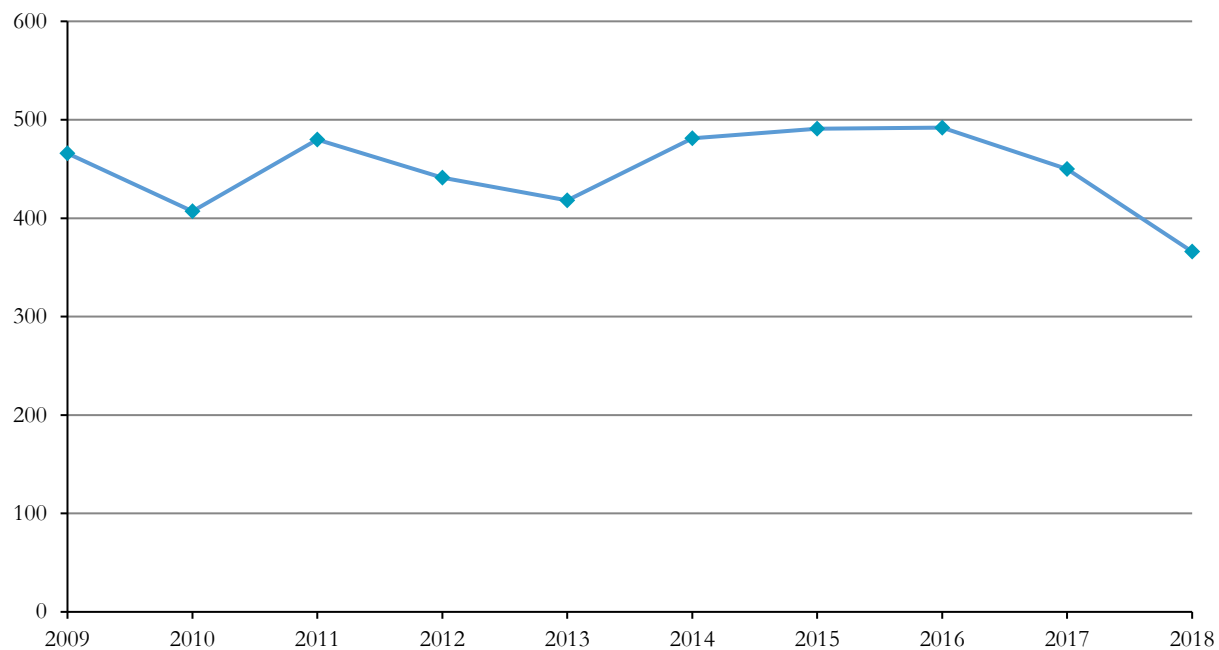


Awards by Amount-2018

Dollar Amount Categories	# of Awards	% of Total Awards by #	\$ Awards	% of Total Awards by \$ Amount
\$1 to \$9,999	54	17%	\$220,987	1%
\$10,000 to \$24,999	67	21%	\$1,192,377	4%
\$25,000 to \$49,999	64	20%	\$2,360,179	7%
\$50,000 to \$99,999	55	17%	\$3,787,424	11%
\$100,000 to \$199,999	43	13%	\$5,729,835	17%
\$200,000 to \$499,999	31	10%	\$9,226,598	28%
More than \$500,000	8	2%	\$10,529,382	32%
Totals	322	100%	\$33,046,782	100%

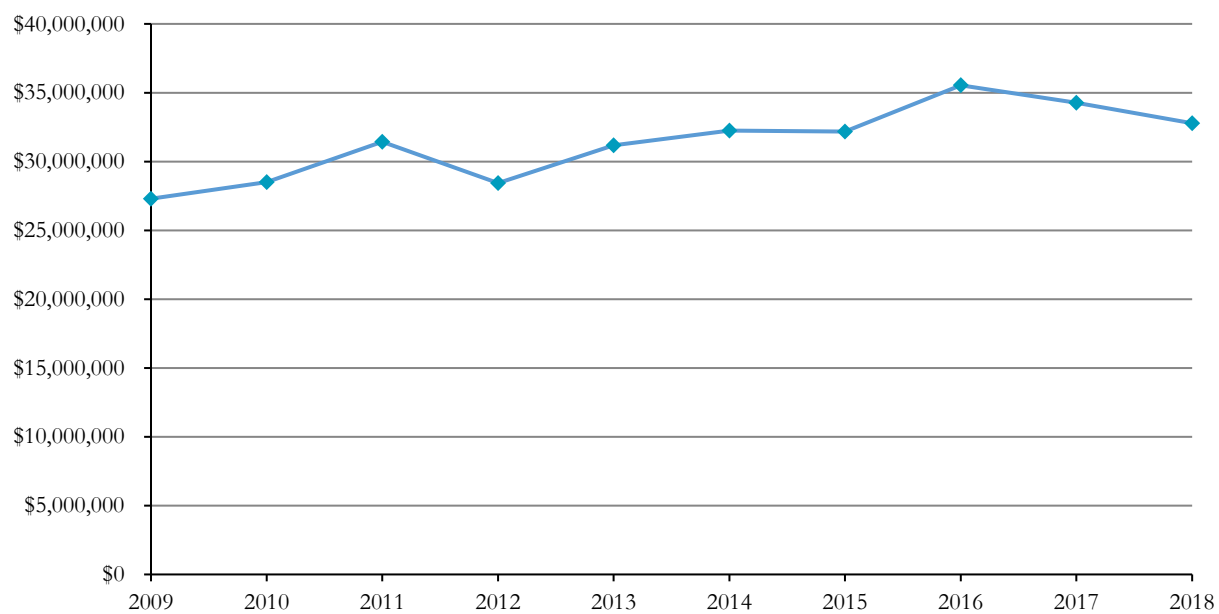


Proposals Submitted



Total Award Expenditures

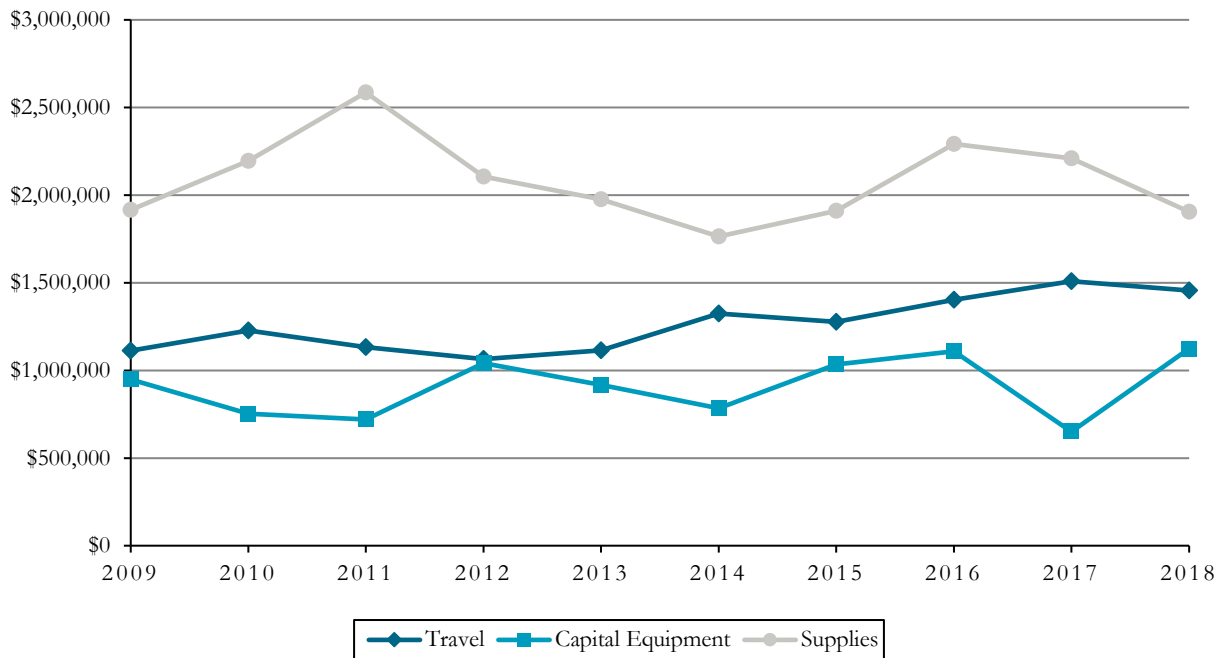
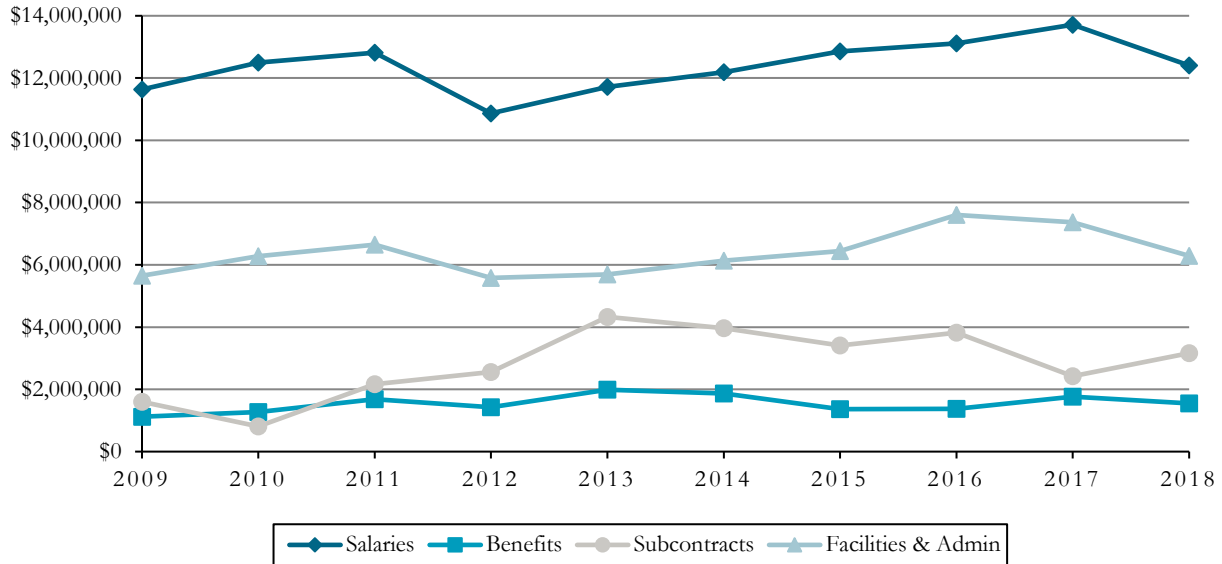
Year	Total Expenditures
2009	\$27,299,213
2010	\$28,503,008
2011	\$31,443,918
2012	\$28,438,600
2013	\$31,184,980
2014	\$32,258,073
2015	\$32,177,342
2016	\$35,537,915
2017	\$34,278,900
2018	\$31,977,019



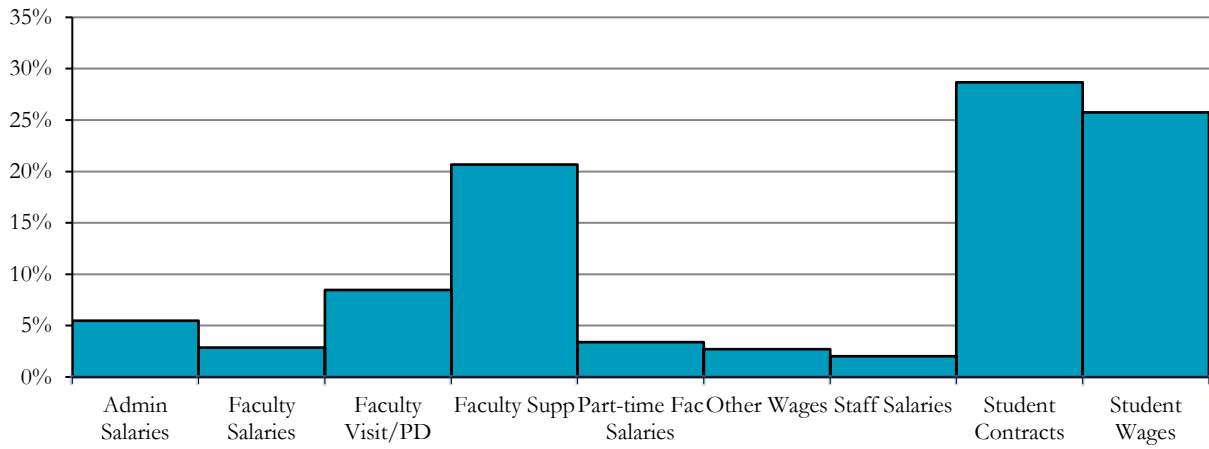
2018 Award Expenditures by Category

<i>Personnel Costs</i>	<i>Amount</i>
<i>Salaries & Wages</i>	
Administrative Salaries	753,188
Faculty Salaries	314,415
Faculty Sal-Visit-Health Ben	826,317
Faculty—Supplemental	2,536,043
Part-time Faculty Salaries	337,839
Other Wages	485,892
Staff Salaries	186,785
Student Contracts	3,817,271
Student Wages	3,141,737
Total Salaries & Wages	\$12,399,487
Fringe Benefits	\$1,551,068
Total Personnel Costs	\$13,950,555
<i>Other</i>	
Access Equipment	4,487
Advertising and Promotion	37
Capital Equipment	1,124,368
Conference & Symposium Costs	247,476
Computer Serv-Campus-Contract	224
Consultants	399,934
Contract Services	765,616
Employee Development/Training	20,598
Equipment Repair & Maintenance	57,561
Facilities & Administration	6,291,976
Hosting, Food, Entertainment	66,646
Non-Capital Equipment	25,070
Participant Stipends	362,463
Postage & Mailing	10,847
Printing & Copying	16,962
Program Income	(40,400)
Rental Expense	143,942
Purchase Discounts Earned	(72)
Research Publications Costs	13,231
Software Acquisitions/Support	9,246
Software Maintenance	2,084
Student Aid	1,966,128
Subcontracts	3,165,180
Supplies	1,905,539
Telecommunications	11,309
Travel	1,455,399
Uniforms/Costumes/Laundry	35
Total Other Expenditures	\$18,026,464
Total Research Expenditures	\$31,977,019

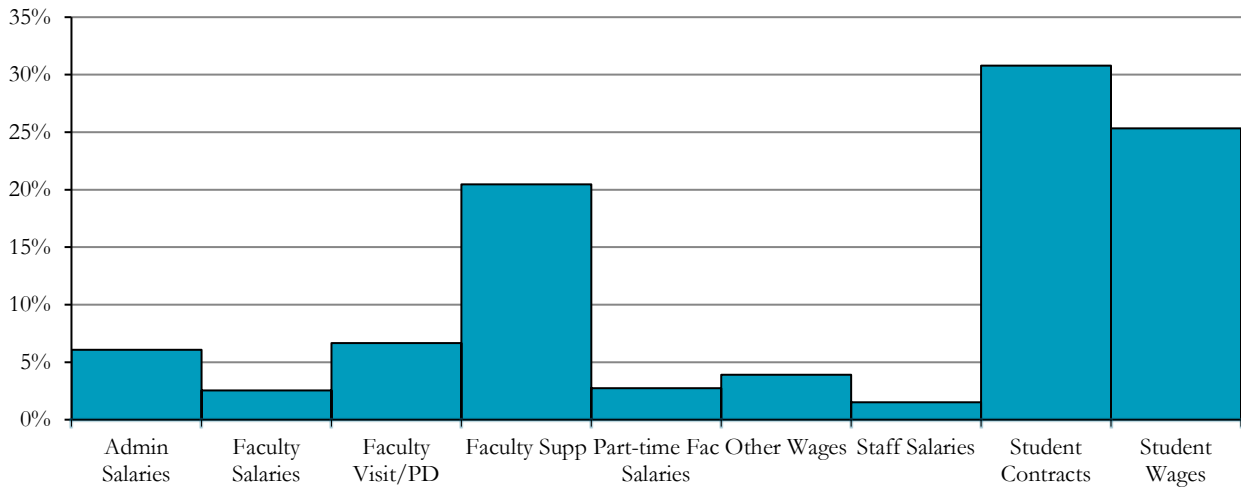
Award Dollars Expended



2017
Total: \$13,712,686



2018
Total: \$12,399,487

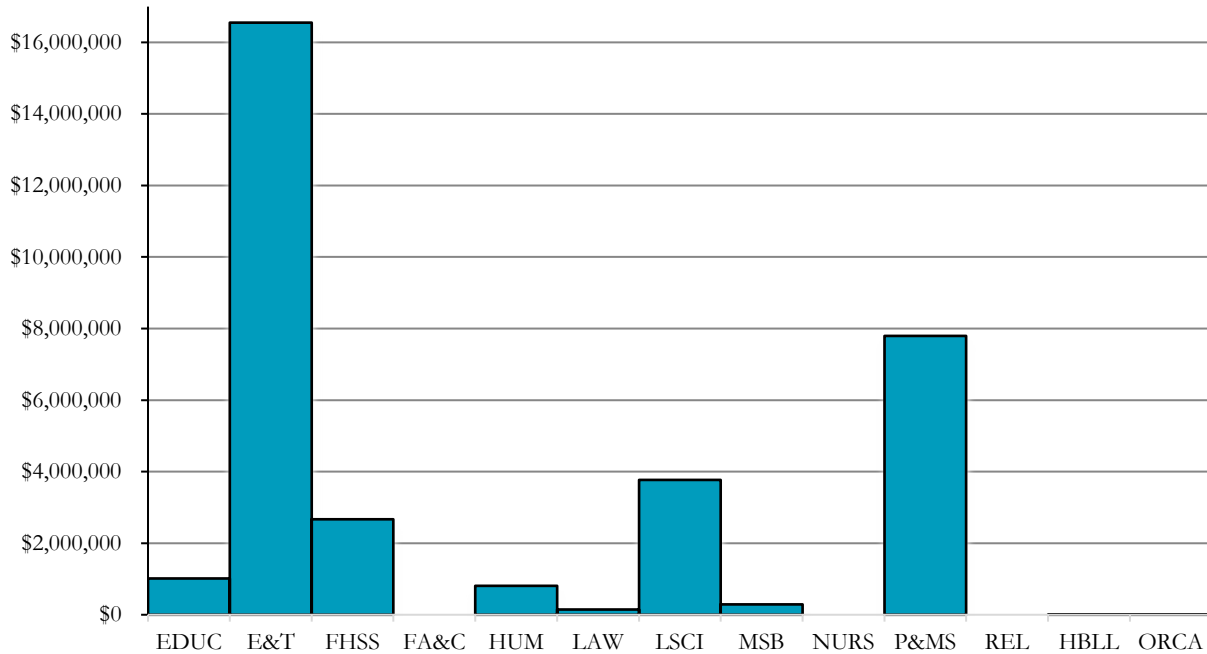




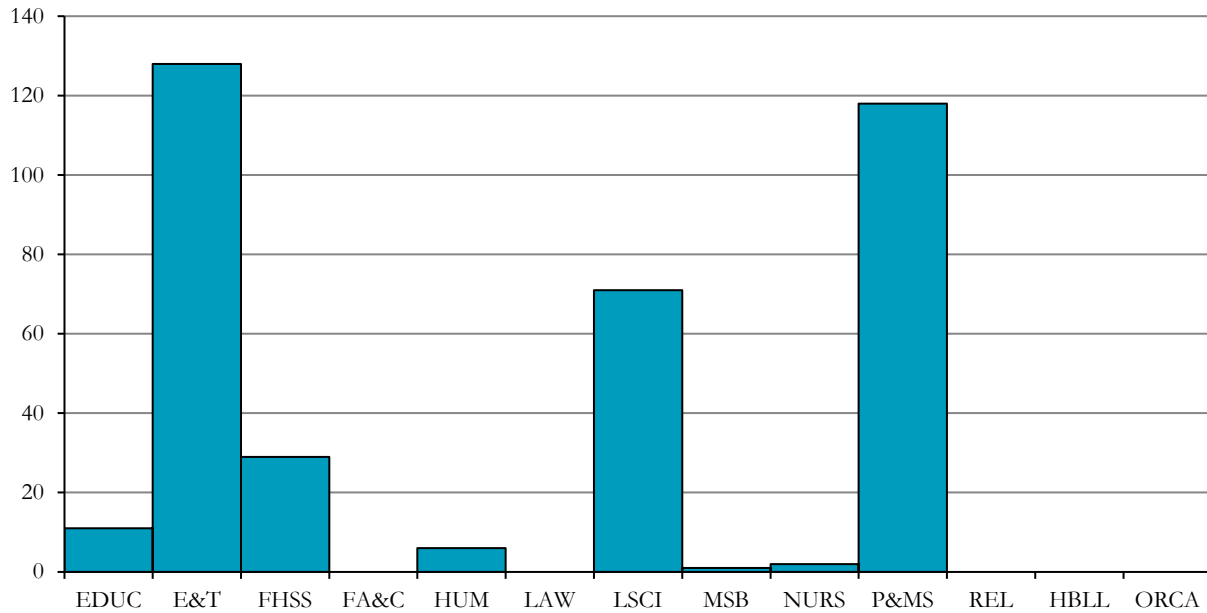
Information by
College or School

Total Awards by College

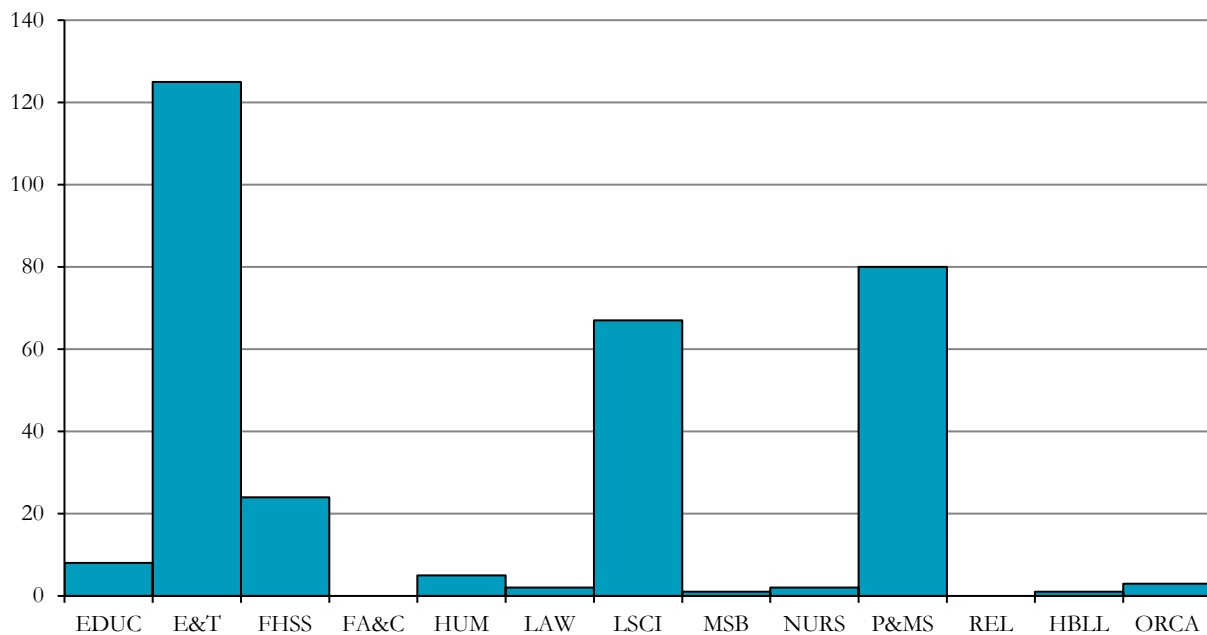
<i>College or School</i>	<i>Total</i>
David O. McKay School of Education	\$1,016,913
Ira A. Fulton College of Engineering	\$16,548,969
College of Family, Home & Social Sciences	\$2,669,375
College of Fine Arts & Communications	\$0
College of Humanities	\$811,501
J. Reuben Clark Law School	\$143,423
College of Life Sciences	\$3,771,683
Marriot School of Business	\$285,000
College of Nursing	\$0
College of Physical & Mathematical Sciences	\$7,797,956
Religious Education	\$0
Harold B. Lee Library	\$935
ORCA	\$1,027
University Total	\$33,046,782



Number of Proposals-2018



Number of Awards-2018



Total Awards by College and Department

<i>College and Department</i>	<i>Amount</i>
<u>David O. McKay School of Education</u>	
Center for Improvement of Teacher Education & Schooling	\$358,960
Communication Disorders	\$342,013
Counseling, Psychology, & Special Education	\$195,902
Education Leadership & Foundations	\$25,000
Instructional Psychology	\$95,038
Teacher Education	0
TOTAL	\$1,016,913
<u>Ira A. Fulton College of Engineering</u>	
Chemical Engineering	\$1,249,125
Civil & Environmental Engineering	\$1,641,846
Electrical & Computer Engineering	\$9,297,671
Mechanical Engineering	\$4,360,327
School of Technology	0
TOTAL	\$16,548,969
<u>College of Family, Home, & Social Sciences</u>	
Anthropology	\$0
Economics	\$224,766
Geography	\$15,000
History	\$336,000
Museum of Peoples & Cultures	0
Office of Public Archaeology	\$330,574
Political Science	\$460,410
Psychology	\$1,012,925
School of Family Life	0
Social Work	\$30,467
Sociology	\$259,233
TOTAL	\$2,669,375
<u>College of Fine Arts & Communications</u>	0
<u>College of Humanities</u>	
Asian & Near East Languages	\$807,501
Comparative Arts & Letters	0
English	\$4,000
French & Italian	0
German & Russian	0
Linguistics & English Language	0
Philosophy	0
Spanish & Portuguese	0
TOTAL	\$811,501

<u>J. Reuben Clark Law School</u>	TOTAL	\$143,423
<u>College of Life Sciences</u>		
Monte L. Bean Life Science Museum		\$24,000
Biology		\$604,715
Exercise Science		\$7,200
Public Health		\$284,948
Microbiology & Molecular Biology		\$670,414
Nutrition, Dietetics, & Food Science		\$437,392
Physiology & Developmental Biology		\$464,818
Plant & Wildlife Sciences		\$1,278,195
	TOTAL	\$3,771,683
<u>Marriott School of Business</u>		
School of Accountancy		0
Experience Design & Management		0
Finance & Managerial Economics		0
Global Management Center		\$142,500
Information Systems		0
Management		0
Marketing & Global Supply Chain		\$142,500
Romney Institute of Public Management		0
	TOTAL	\$285,000
<u>College of Nursing</u>		0
<u>Office of Research & Creative Activities</u>		\$1,027
<u>College of Physical & Mathematical Sciences</u>		
Chemistry & Biochemistry		\$3,375,668
Computer Science		\$1,477,447
Museum of Paleontology		0
Geology		\$223,508
Mathematics		\$439,633
Mathematics Education		0
Physics & Astronomy		\$1,999,411
Statistics		\$282,289
	TOTAL	\$7,797,956
<u>Religious Education</u>		
Ancient Scripture		0
Church History & Doctrine		0
	TOTAL	0
<u>Harold B. Lee Library</u>	TOTAL	\$935
Grand Total		\$ 33,046,782

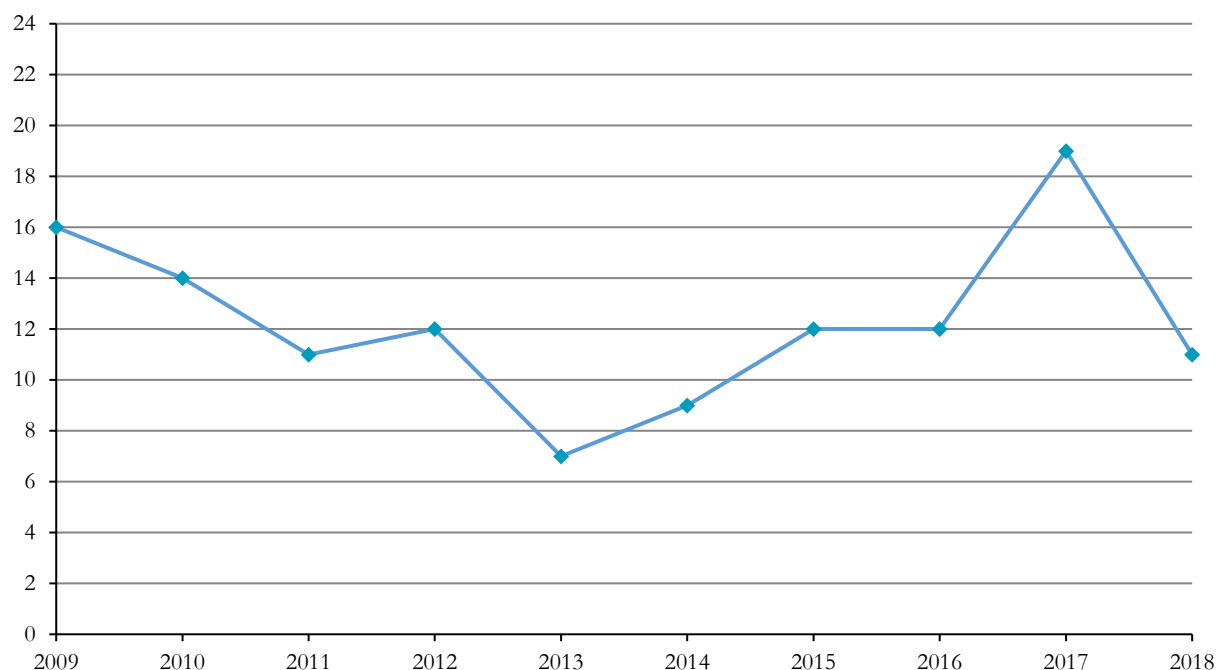


David O. McKay School of Education

Summary by Departments

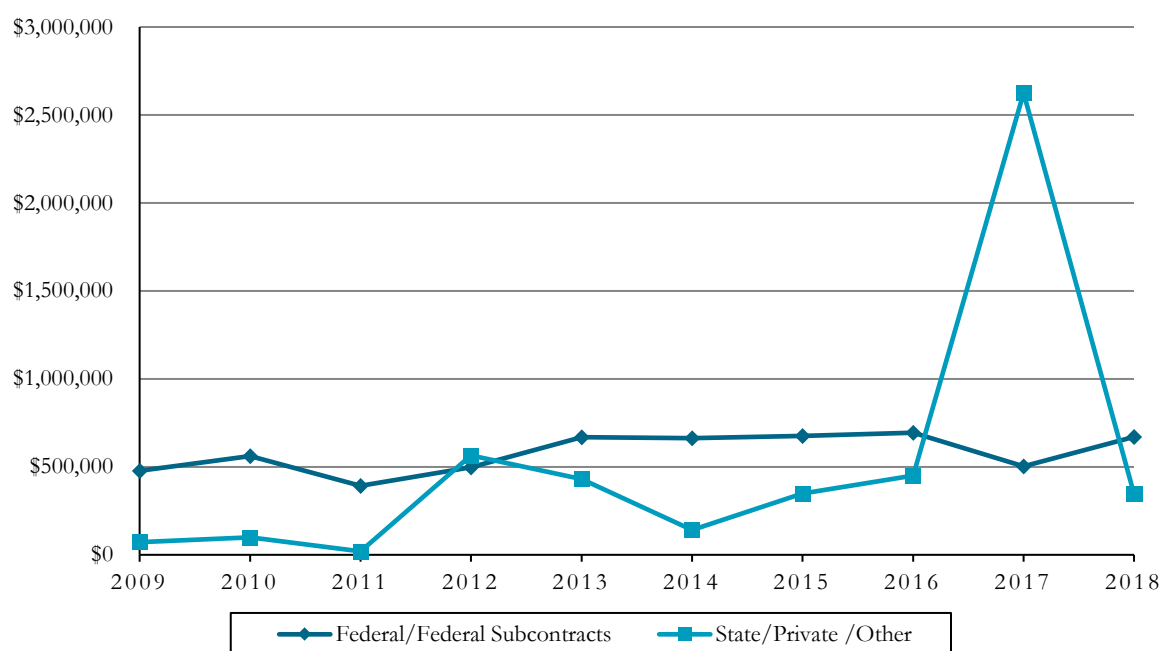
Department	# of Faculty Submitting	# of Proposals Submitted	# of Awards	Dollars Awarded
Center for Improvement of Teacher Education & Schooling	2	2	2	\$358,960
Communication Disorders	0	0	2	\$342,013
Counseling, Psychology, & Special Education	7	3	4	\$195,902
Educational Leadership & Foundations	1	0	1	\$25,000
Instructional Psychology & Technology	6	2	2	\$95,038
Teacher Education	5	4	0	\$0
TOTALS	21	11	11	\$1,016,913

Proposal Submissions



Awards by Sources

Year	Grants/Contracts		Total
	Federal/Federal Subcontracts	State/Private /Other	
2009	\$477,479	\$72,832	\$550,311
2010	\$562,137	\$99,172	\$661,309
2011	\$392,300	\$19,700	\$412,000
2012	\$498,499	\$564,185	\$1,062,684
2013	\$669,318	\$430,120	\$1,099,438
2014	\$663,944	\$141,000	\$804,944
2015	\$675,327	\$348,440	\$1,023,767
2016	\$693,993	\$449,966	\$1,143,959
2017	\$503,548	\$2,624,841	\$3,128,389
2018	\$671,011	\$345,902	\$1,016,913



David O. McKay School of Education

2018 Awards

<u>PI</u>	<u>Co-PI</u>	<u>Sponsor</u>	<u>Title</u>	<u>Beg Date</u>	<u>End Date</u>	<u>Account</u>	<u>Amount</u>	<u>Type</u>
<i>Center for Improvement of Teacher Education & Schooling</i>								
Caldarella, Paul		ED KU	Middle School Class-wide Function-related intervention Teams (MS CW-FIT): Improving Academic Engagement and Outcomes for Middle School Students	7/1/2016	6/30/2019	R0302677	\$183,960	2
Flox, Cally		USBE	Beverley Taylor Sorenson Elementary Arts SFY2019	7/1/2018/	6/30/2019	R0402318	\$175,000	3
<i>Communication Disorders</i>								
Tanner, Kristine		DHHS NIH	Imaging and influence of glottic and subglottic anatomy in healthy and stenotic patients	9/1/2018	8/31/2019	R0102088	\$67,448	1
Tanner, Kristine		DHHS NIH	Pathophysiology of Voice Disorders due to Combination Inhaled Corticosteroids in Asthma	5/14/2018	4/30/2023	R0102086	\$274,565	1
<i>Counseling, Psychology, & Special Education</i>								
Fischer, Lane	w/ Sudweeks, Richard	Department of Education	USBE SLDS Grant Research Project	10/15/2018	8/31/2019	R0302822	\$25,000	2
Gabrielsen, Terisa	w/ Young, Ellie	USBE	Keeping School Psychologists in Utah and increasing Full Trained Highly Effective School Psychologists in Utah's Rural Schools	7/1/2018	6/30/2020	R0402321	\$31,050	3
Young, Ellie		USBE	Keeping School Psychologists in Utah and increasing Full Trained Highly Effective School Psychologists in Utah's Rural Schools	7/1/2018	6/30/2020	R0402321	\$31,050	3
Young, Ellie		USBE	2018 State Personnel Development Grant	6/8/2018	6/30/2023	R0402322	\$108,802	3
<i>Education Leadership & Foundations</i>								
Owens, Michael	w/ Sudweeks, Richard	Department of Education	USBE SLDS Grant Research Project	10/15/2018	8/31/2019	R0302822	\$25,000	2
<i>Instructional Psychology & Technology</i>								
Rich, Peter		NSF GMU	REVEAL HS Fostering Student Computational Thinking with Self-Regulated Learning	10/1/2018	9/30/2023	R0302828	\$70,038	2
Sudweeks, Richard		Department of Education	USBE SLDS Grant Research Project	10/15/2018	8/31/2019	R0302822	\$25,000	2

Type: 1=Federal; 2=Federal Subcontract; 3=State; 4=Private/Other

David O. McKay School of Education

Source Breakdown

Sponsor	Number Awarded	Total Amount
Federal		
DHHS NIH	2	\$342,013
<i>Total</i>	2	\$342,013
Federal Subcontract		
ED KU	1	\$183,960
DOE	3	\$75,000
NSF GMU	1	\$70,038
<i>Total</i>	3	\$328,998
State		
USBE	3	\$345,902
<i>Total</i>	3	\$345,902
<i>Grand Total</i>	11	\$1,016,913

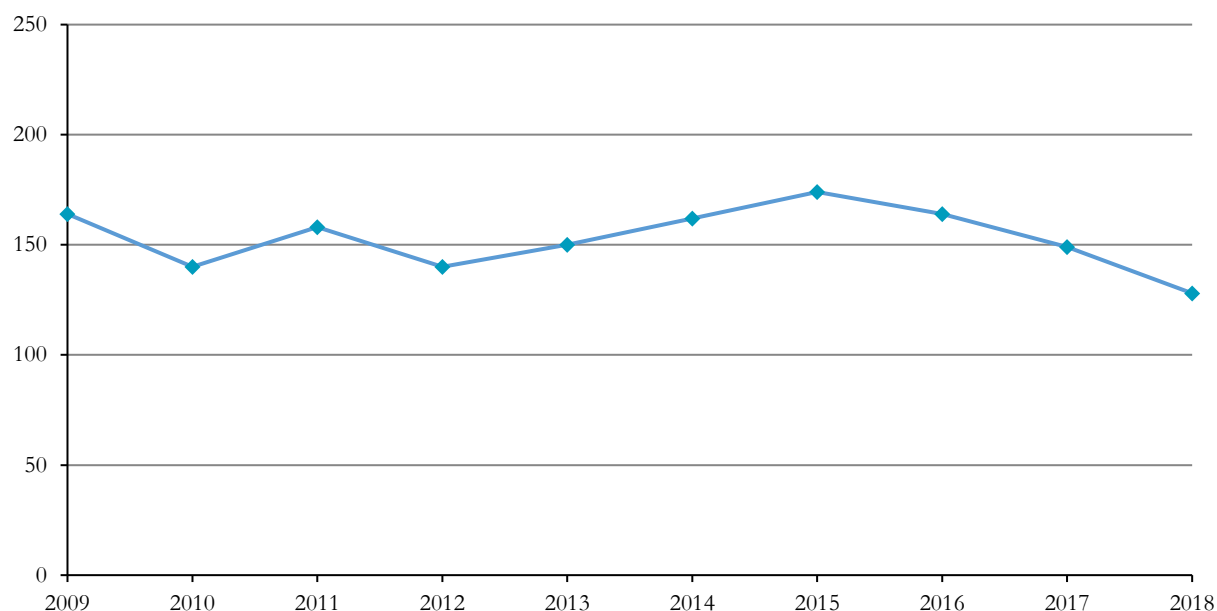


Ira A. Fulton College of Engineering

Summary by Departments

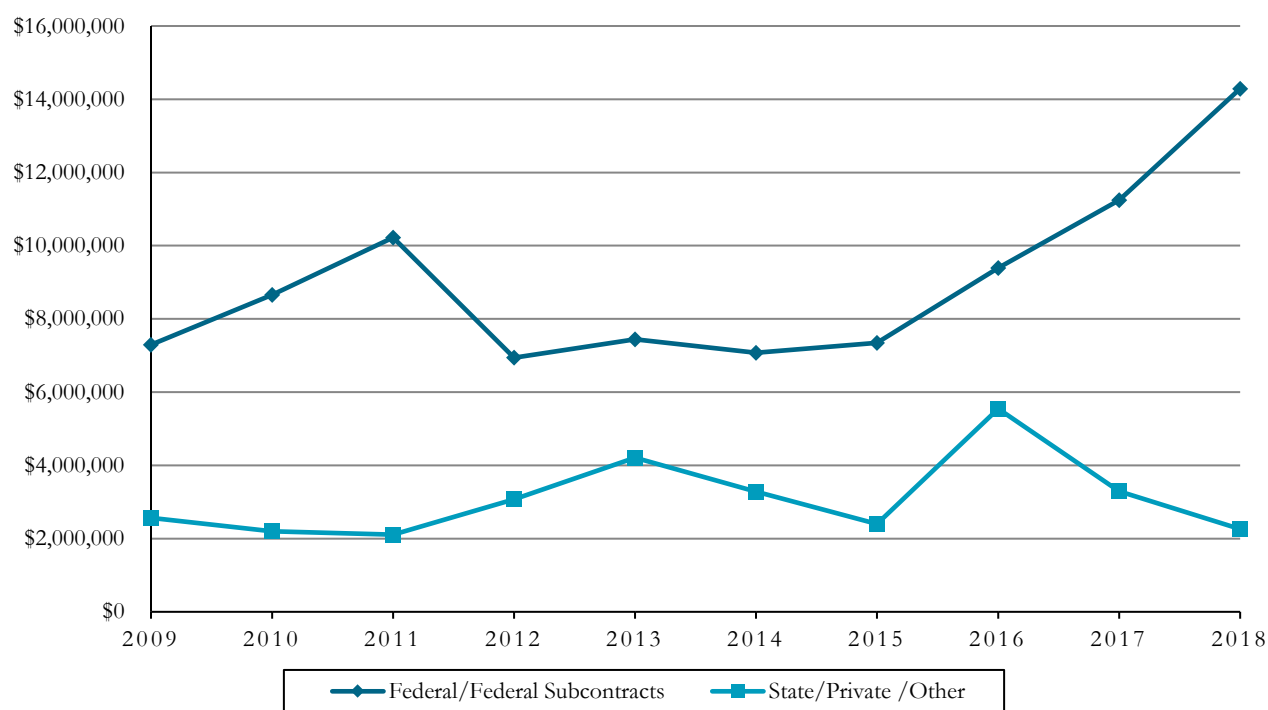
Department	# of Faculty Submitting	# of Proposals Submitted	# of Awards	Dollars Awarded
Chemical Engineering	13	20	18	\$1,249,125
Civil & Environmental Engineering	9	16	42	\$1,641,846
Electrical & Computer Engineering	19	37	57	\$9,297,671
Mechanical Engineering	23	47	66	\$4,360,327
School of Technology	8	8	0	\$0
TOTALS	71	128	150	\$16,548,969

Proposal Submissions



Awards by Sources

Year	Grants/Contracts		Total
	Federal/Federal Subcontracts	State/Private /Other	
2009	\$7,297,402	\$2,562,693	\$9,860,095
2010	\$8,659,447	\$2,198,382	\$10,857,829
2011	\$10,224,839	\$2,108,091	\$12,332,930
2012	\$6,940,419	\$3,075,235	\$10,015,653
2013	\$7,446,524	\$4,208,437	\$11,654,961
2014	\$7,073,257	\$3,279,114	\$10,352,371
2015	\$7,345,708	\$2,397,665	\$9,743,373
2016	\$9,391,742	\$5,546,423	\$14,938,165
2017	\$11,246,406	\$3,294,087	\$14,540,493
2018	\$14,289,851	\$2,259,118	\$16,548,969



Ira A. Fulton College of Engineering

2018 Awards

<u>PI</u>	<u>Co-PI</u>	<u>Sponsor</u>	<u>Title</u>	<u>Beg Date</u>	<u>End Date</u>	<u>Account</u>	<u>Amount</u>	<u>Type</u>
<i>Chemical Engineering</i>								
Baxter, Larry		DOE SRNL	Isotope Effects on Hydrogen Ignition	12/28/2018	12/27/2019	R0302831	\$135,537	2
Bundy, Bradley	w/ Knotts, Thomas	NSF	Designing Unnatural-Amino-Acid-Enabled Second-Generation Biomaterials: Advanced Surfaces, Biocatalysts and Biotherapeutics - An Integrated Computational/Experimental Approach	9/1/2017	8/31/2020	R0112364	\$64,992	1
Fletcher, Tom		USDA FS	Fundamental Measurements and Modeling of Prescribed Fire Behavior in the Naturally Heterogeneous Fuel Beds of Southern Pine	4/15/2016	9/30/2019	R0202467	\$120,078	1
Fletcher, Tom		DOE UofU	High Performance Computing on Oxyfired Combuster	3/1/2014	2/28/2019	R0302552	\$128,576	2
Fletcher, Tom		ArcelorMittal	Kinetics of Coal Char Oxidation at Blast Furnace Injection Conditions	3/15/2018	9/15/2018	R0602567	\$4,200	4
Fletcher, Tom		Chalmers University	Characterization the Nitrogen Release During Char Oxidation of Coals and Biomass	10/18/2018	4/18/2019	R0570023	\$10,000	4
Fry, Andrew	w/ Fletcher, Tom	ArcelorMittal	Kinetics of Coal Char Oxidation at Blast Furnace Injection Conditions	3/15/2018	9/15/2018	R0602567	\$4,200	4
Harb, John		Alpha Tech Research Corp	Alpha Tech NET Fellowship	3/1/2017	4/30/2019	R0602548	\$35,000	4
Harb, John		Ford	Ford URP: Development of a Fundamentally Based Model for E-coat Deposition	3/24/2017	12/31/2019	R0602541	\$40,000	4
Hedengren, John	w/ McLain, Timothy	NSF	REU Supplement	3/15/2017	2/28/2022	R0112343	\$4,000	1
Knotts, Thomas		NSF	Designing Unnatural-Amino-Acid-Enabled Second-Generation Biomaterials: Advanced Surfaces, Biocatalysts and Biotherapeutics - An Integrated Computational/Experimental Approach	9/1/2017	8/31/2020	R0112364	\$64,992	1
Lignell, David		DOE UofU	High Performance Computing on Oxyfired Combuster	3/1/2014	2/28/2019	R0302553	\$70,423	2
Memmott, Matthew		Kairos Power	Preparation of Lab to Handle FLiBe Salt in Order to Perform Property Studies on FLiBe	12/1/2018	2/1/2020	R0602582	\$10,000	4
Pitt, William	w/ Hawkins, Aaron	DHHS NIH	Multiplexed, Non-Amplified, Nucleic Acid-Based Identification of Multidrug	3/1/2015	2/28/2019	R0102068	\$247,127	1

Pathogens Using an Integrated Optofluidic Platform

Pitt, William		NIH-SBIR PM, LLC	Rapid and Efficient Extraction of Bacteria from Whole Blood for Sepsis Diagnosis	8/15/2018	1/31/2019	R0302812	\$25,000	2
Tree, Douglas		American Chemical Society	The Role of Nucleation in Melt-Memory Effects in Semi-Crystalline Polymer	9/1/2018	8/31/2020	R0502272	\$110,000	4
Wheeler, Dean		DOE LBNL	Addressing Heterogeneity in Electrode Fabrication Processes	1/1/2017	12/31/2018	R0302720	\$45,000	2
Wheeler, Dean		DOE LBNL	Addressing Heterogeneity in Electrode Fabrication	1/1/2017	12/31/2018	R0302720	\$130,000	2

Civil & Environmental Engineering

Ames, Daniel		NASA	An AmeriGEOSS Cloud-based Platform for Rapid Deployment of GEOGLOWS Water and Food Security Decision Support Apps	1/20/2018	1/19/2021	R0162032	\$87,680	1
Ames, Daniel	w/ Nelson, Jim	NASA	Comprehensive Streamflow Prediction and Visualization to Support Integrated Water Management in the Himalaya Region	8/1/2016	7/31/2019	R0162029	\$33,685	1
Ames, Daniel	w/ Nelson, Jim	NASA	Comprehensive Streamflow Prediction and Visualization to Support Integrated Water Management in the Himalaya Region	8/1/2016	7/31/2019	R0162029	\$37,597	1
Ames, Daniel		NSF CUAHSI	National Water Center and Summer Institute Support	2/1/2018	1/31/2019	R0302821	\$18,983	2
Ames, Daniel		NSF USU	SI2SSI: Cyberinfrastructure for Advancing Hydrologic Knowledge through Collaborative Integration of Data Science, Modeling and Analysis	10/1/2017	9/30/2019	R0302774	\$20,552	2
Ames, Daniel		USTAR UofU	Smart Water Data Acquisition and Analysis Technologies for Improving Efficiency of Water and Power Network Operations	7/31/2017	6/30/2018	R0482032	\$30,000	3
Ames, Daniel		Aquaveo LLC	Investigation of possible transitions from Jupyter Notebooks to Tethys apps	9/17/2018	5/31/2019	R0602577	\$20,000	4
Borden, Michael		DOD NAWCAD Coreform	Innovative Multi-scale/Multi-physics Based Tool for Predicting Fatigue Crack Initiation and Propagation in Aircraft Structural Components Using Phase Field Model Techniques	12/13/2017	12/11/2018	R0302784	\$90,000	2
Borden, Michael		Honda R&D	Identification of material constraints of the phase-field method	1/25/2018	1/24/2020	R0570020	\$15,000	4
Fonseca, Fernando		UDOT	Assessing Corrosion on and Strength of Extracted MSE Wall Reinforcement	4/23/2018	9/30/2019	R0402314	\$6,612	3
Fonseca, Fernando		UDOT	Assessing Corrosion on and Strength of Extracted MSE Wall Reinforcement	4/23/2018	3/31/2020	R0402314	\$18,518	3
Fonseca, Fernando		UDOT	Assessing Corrosion on and Strength of Extracted MSE Wall Reinforcement	4/23/2018	9/30/2019	R0402314	\$59,167	3

Franke, Kevin	w/ McLain, Timothy	NSF	REU Supplement	3/15/2017	2/28/2022	R0112343	\$4,000	1
Franke, Kevin		NRC UCLA	Next Generation Liquefaction Project	1/1/2018	12/31/2018	R0302827	\$20,000	2
Franke, Kevin		DOC NIST UCSD	Improving Disaster Resilience through Scientific Data Collection with UAV Swarms	8/15/2017	8/14/2019	R0302767	\$62,476	2
Franke, Kevin		UDOT	Development of Probabilistic Liquefaction Hazard Maps for Weber, Davis, and Salt Lake Counties, Utah	8/20/2018	1/31/2020	R0402319	\$21,996	3
Guthrie, Spencer	w/ Mazzeo, Brian	DOT FHA NAS NCHRP	Vertical Impedance Scanner for Concrete Bridge Deck Assessment without Direct Rebar Attachment	4/25/2017	4/25/2019	R0302729	\$49,950	2
Jones, Norm	w/ Nelson, Jim	NASA	Comprehensive Streamflow Prediction and Visualization to Support Integrated Water Management in the Himalaya Region	8/1/2016	7/31/2019	R0162029	\$33,685	1
Jones, Norm	w/ Nelson, Jim	NASA	Comprehensive Streamflow Prediction and Visualization to Support Integrated Water Management in the Himalaya Region	8/1/2016	7/31/2019	R0162029	\$37,597	1
Jones, Norm	w/ Ames, Daniel	NSF USU	SI2SSI: Cyberinfrastructure for Advancing Hydrologic Knowledge through Collaborative Integration of Data Science, Modeling and Analysis	10/1/2017	9/30/2019	R0302774	\$20,552	2
Nelson, Jim		NASA	Comprehensive Streamflow Prediction and Visualization to Support Integrated Water Management in the Himalaya Region	8/1/2016	7/31/2019	R0162029	\$33,685	1
Nelson, Jim		NASA	Comprehensive Streamflow Prediction and Visualization to Support Integrated Water Management in the Himalaya Region	8/1/2016	7/31/2019	R0162029	\$37,599	1
Nelson, Jim	w/ Ames, Daniel	NASA	An AmeriGEOSS Cloud-based Platform for Rapid Deployment of GEOGLOWS Water and Food Security Decision Support Apps	1/20/2018	1/19/2021	R0162032	\$87,679	1
Nelson, Jim		NASA Johns Hopkins	Environmental Determinants of Enteric Infectious Disease: a GEO platform for analysis and risk assessment	12/21/2017	12/20/2018	R0302795	\$25,000	2
Nelson, Jim		NASA-SERVIR JHU	We applications of the South Asian land data assimilation systems (SALDAS)	7/18/2017	7/17/2019	R0302811	\$60,000	2
Nelson, Jim	w/ Ames, Daniel	NSF CUAHSI	National Water Center and Summer Institute Support	2/1/2018	1/31/2019	R0302821	\$18,982	2
Nelson, Jim	w/ Ames, Daniel	NSF USU	SI2SSI: Cyberinfrastructure for Advancing Hydrologic Knowledge through Collaborative Integration of Data Science, Modeling and Analysis	10/1/2017	9/30/2019	R0302774	\$20,552	2
Rollins, Kyle		NSF	REU Supplement: Collaborative Research: Integrated Field and Laboratory Based Assessment of Liquefaction Triggering and Residual Strength of Gravelly Soil	9/15/2017	8/31/2020	R0112382	\$8,000	1

Rollins, Kyle		NSF	Collaborative Research: Integrated Field and Laboratory Based Assessment of Liquefaction Triggering and Residual Strength of Gravelly Soil	9/15/2017	8/31/2020	R0112365	\$37,541	1
Rollins, Kyle		NSF Syracuse University	Enhancing Collaborative Research on Liquefaction Evaluation of Gravels	9/7/2017	12/31/2018	R0302772	\$3,000	2
Rollins, Kyle		UDOT	Evaluation of Lateral Pile Resistance Near MSE Walls at a Dedicated Wall site- Phase 2	8/20/2018	9/30/2020	R0402317	\$140,000	3
Rollins, Kyle		California DOT WSP	Passive Force- Deflection Testing for High Speed Rail Abutments	7/3/2017	6/30/2018	R0470012	\$24,934	4
Saito, Mitsuru	w/ Schultz, Grant	UDOT	Analysis of Decision Boundaries for Left-Turn Treatments	1/23/2018	8/31/2019	R0402310	\$35,000	3
Saito, Mitsuru	w/ Schultz, Grant	UDOT	Analysis of Performance Measures of UDOT's Traffic Incident Management Program	2/13/2018	8/31/2019	R0402312	\$35,000	3
Schultz, Grant		UDOT RSG	Driver Compliance at Enhanced Pedestrian Crossings in Utah	12/15/2017	6/30/2019	R0402309	\$21,825	3
Schultz, Grant		UDOT	Analysis of Decision Boundaries for Left-Turn Treatments	1/23/2018	8/31/2019	R0402310	\$35,000	3
Schultz, Grant		UDOT	Analysis of Performance Measures of UDOT's Traffic Incident Management Program	2/13/2018	8/31/2019	R0402312	\$35,000	3
Schultz, Grant		UDOT	Pedestrian Walking Speeds at Signalized Intersections	2/1/2018	8/30/2019	R0402311	\$50,000	3
Schultz, Grant		UDOT	A Sensitivity Analysis of Benefits of DSRC on UTA Bus Operations	9/14/2018	5/31/2020	R0402323	\$70,000	3
Schultz, Grant		UDOT	BYU Safety Modeling FY19	7/3/2018	3/31/2020	R0402320	\$119,999	3
Scott, Michael		Ford	Ford URP: Development of superior crash stimulation capabilities using isogeometric analysis	8/1/2016	7/31/2018	R0602523	\$40,000	4
Scott, Michael	w/ Borden, Michael	Honda R&D	Identification of material constraints of the phase-field method	1/25/2018	1/24/2020	R0570020	\$15,000	4
Electrical & Computer Engineering								
Beard, Randal		NSF	I/UCRC: C-UAS Phase II VRS Supplement	3/15/2017	2/28/2022	R0112362	\$10,000	1
Beard, Randal		NSF	I/UCRC: C-UAS Phase II Interagency Membership Dues	6/21/2017	2/28/2022	R0112353	\$25,237	1
Beard, Randal	w/ McLain, Timothy	NSF	I/UCRC: C-UAS Phase II Interagency Membership Dues – NASA Langley	6/21/2017	2/28/2022	R0112353	\$13,333	1
Beard, Randal	w/ McLain, Timothy	NSF	I/UCRC: C-UAS Phase II Interagency Membership Dues – AFRL	6/21/2017	2/28/2022	R0112353	\$22,000	1
Beard, Randal	w/ McLain, Timothy	NSF	I/UCRC: C-UAS Phase II Add-on Project – AFRL Munitions	6/30/2017	2/28/2022	R0112355	\$34,082	1
Beard, Randal	w/ McLain, Timothy	NSF	I/UCRC: C-UAS Phase II Add-on Project 2018-19 – AFRL	6/21/2017	2/28/2022	R0112354	\$98,576	1
Beard, Randal	w/ McLain, Timothy	DOE NNSA LLNL	Enabling Precision Landing of Multirotor Unmanned Aircraft	3/7/2017	2/28/2019	R0302721	\$37,415	2

Beard, Randal	w/ McLain, Timothy	NSF-Planck Aerosystems	Autonomous Landing of sUAS onto Moving Platforms	3/15/2018	2/29/2020	R0302796	\$125,265	2
Chiang, Shiu-hua Wood	w/ Austin, Daniel	NASA	A Circuit Board Charge Detector for Characterization of Martian Dust	8/21/2017	8/20/2020	R0162030	\$68,250	1
Chiang, Shiu-hua Wood	w/ Iverson, Brian	Perkin Elmer	Compact Next-generation GC and MS Instrumentation	6/1/2015	12/31/2018	R0602482	\$86,662	4
Harrison, Willie		NSF	IRES: Practical Physical-Layer Security in Coimbra, Portugal	2/6/2018	8/31/2018	R0112368	\$105,493	1
Hawkins, Aaron		DHHS NIH	Multiplexed, Non-Amplified, Nucleic Acid-Based Identification of Multidrug Pathogens Using an Integrated Optofluidic Platform	3/1/2015	2/28/2019	R0102068	\$247,129	1
Hawkins, Aaron	w/ Austin, Daniel	NASA	A Circuit Board Charge Detector for Characterization of Martian Dust	8/21/2017	8/20/2020	R0162030	\$68,250	1
Hawkins, Aaron		NASA UCSC	Development of Nanopore Sequencing for Automated Ocean World Life Detection	3/27/2017	3/26/2019	R0302794	\$49,920	2
Hawkins, Aaron		Fluxus Corporation	Packaging and Singulation Studies of Optofluidic Biosensor Chips	11/1/2017	10/31/2018	R0602559	\$58,500	4
Hawkins, Aaron	w/ Iverson, Brian	Perkin Elmer	Compact Next-generation GC and MS Instrumentation	6/1/2015	12/31/2018	R0602482	\$86,662	4
Hutchings, Brad	w/ Wirthlin, Michael	NSF	I/UCRC: Center for Space, High-Performance, and Resilient Computing (SHREC) Phase I – AFLR	9/1/2017	8/31/2022	R0112389	\$25,000	1
Hutchings, Brad	w/ Wirthlin, Michael	NSF	INCR: CHREC Phase II - BYU Site	4/1/2013	3/31/2018	R0112225	\$6,666	1
Jeffs, Brian		NSF	ALPACA: Advanced Cryogenic L-band Phased Array Camera for the Arecibo Radio Telescope	6/15/2018	5/31/2022	R0112385	\$2,910,260	1
Jeffs, Brian	w/ Warnick, Karl	DOD ONR	Real-time Adaptive Beamforming and Interference Mitigation	1/1/2018	12/31/2020	R0202503	\$95,000	1
Jeffs, Brian	w/ Warnick, Karl	DOD ONR	Real-time Adaptive Beamforming and Interference Mitigation	1/1/2018	12/31/2020	R0202503	\$115,000	1
Jeffs, Brian		NSF-NRAO	ngVLA Community Study-Advance Spatial Filtering Methods for RFI Mitigation at the ngVLA	4/27/2018	8/31/2018	R0302797	\$6,000	2
Lee, D.J.		USGS	Machine Learning Methods Application for Analyzing Hydro-acoustic Telemetry Data	7/1/2018	6/30/2019	R0202509	\$49,296	1
Lee, D.J.		DOD ONR NAVSEA eCortex	Automated Archerfish EO/Sonar Detection Techniques for Naval Mines	5/1/2017	12/5/2019	R0302747	\$25,000	2
Lee, D.J.		DOE LLNL	Demonstration of Ultra Low Latency Object Tracking for Multi-Focal Length Camera Arrays	6/27/2018	8/31/2019	R0302799	\$117,645	2
Long, David		NASA	Enhanced-resolution SMAP soil moisture	7/8/2016	7/7/2019	R0162028	\$49,998	1
Long, David		NASA	Consistency in the Scatterometer Climate Record	10/24/2018	10/23/2022	R0162035	\$150,300	1

Long, David		DOE USU	Support for USU's SAR-aided GPS-denied Navigation Project	7/12/2018	9/14/2018	R0302810	\$16,500	2
Long, David		NASA UofU	Utah NASA Space Consortium 2018	4/10/2015	4/9/2019	R0302618	\$88,100	2
Lundrigan, Philip		DHHS NIH UofU	PRISMS Informatics Platform - Federated Integration Architecture	9/30/2018	9/29/2019	R0302832	\$21,208	2
Mazzeo, Brian		DOE INL Battelle	Control System Protocol Dissceter - E&T Capstone Project	9/3/2018	8/31/2019	R0302807	\$20,000	2
Mazzeo, Brian		DOT FHA NAS NCHRP	Vertical Impedance Scanner for Concrete Bridge Deck Assessment without Direct Rebar Attachment	4/25/2017	4/25/2019	R0302729	\$49,950	2
Mazzeo, Brian	w/ Wheeler, Dean	DOE LBNL	Addressing Heterogeneity in Electrode Fabrication Processes	1/1/2017	12/31/2018	R0302720	\$45,000	2
Mazzeo, Brian	w/ Wheeler, Dean	DOE LBNL	Addressing Heterogeneity in Electrode Fabrication	1/1/2017	12/31/2018	R0302721	\$130,000	2
Nelson, Brent	w/ Wirthlin, Michael	NSF	CHREC Phase II - BYU Site	4/1/2013	3/31/2018	R0112225	\$6,666	1
Nordin, Greg	w/ Woolley, Adam	DHHS NIH	3D-Printed Integrated Microfluidic Devices for Preterm Birth Biomarker Analysis	9/18/2018	6/30/2022	R0102090	\$90,133	1
Peterson, Cammy		NSF	I/UCRC: C-UAS Phase II REU Supplement	3/15/2017	2/28/2022	R0112343	\$12,000	1
Peterson, Cammy	w/ McLain, Timothy	NSF	I/UCRC: C-UAS Phase II Interagency Membership Dues – NASA Langley	6/21/2017	2/28/2022	R0112353	\$13,333	1
Rice, Michael		DOD Army ATI	Space-Time Coding for Multi-h CPM	11/1/2017	10/8/2020	R0302769	\$263,197	2
Schultz, Stephen		DOD PEOSTRI	High Repetition-rate Shape Sensing using Fiber Bragg Gratings (HISS)	9/9/2015	9/6/2018	R0202462	\$77,611	1
Schultz, Stephen		DOD PEOSTRI	High Repetition-rate Shape Sensing using Fiber Bragg Gratings (HISS)	9/9/2015	9/8/2018	R0202462	\$138,431	1
Schultz, Stephen		USTAR TAG Nielson Scientific	Automated 3D Rapid-Prototyping Method for Silicon and Silicon-Carbide Nanostructures	10/1/2018	2/28/2019	R0482033	\$15,000	3
Smalley, Daniel		Charles Stark Draper Lab	Draper/BYU Investigation to Improve the Leaky Mode Modulator Platform of Holovideo	4/1/2017	6/29/2018	R0602544	\$8,000	4
Smalley, Daniel		Charles Stark Draper Lab	Draper/BYU Investigation to Improve the Leaky Mody Modulator Platform for Holovideo	4/1/2017	6/29/2019	R0602544	\$100,000	4
Smalley, Daniel		Light Field Lab	FENG Characterization & Transparent "Sell" membrane Ultrasonic Transducers	7/1/2018	12/31/2019	R0602573	\$127,676	4
Warnick, Karl		DOD ONR	Real-time Adaptive Beamforming and Interference Mitigation	1/1/2018	12/31/2020	R0202503	\$95,000	1
Warnick, Karl		DOD ONR	Real-time Adaptive Beamforming and Interference Mitigation	1/1/2018	12/31/2020	R0202503	\$115,000	1
Warnick, Karl	w/ Jeffs, Brian	NSF	ALPACA: Advanced Cryogenic L-band Phased Array Camera for the Arecibo Radio Telescope	6/15/2018	5/31/2022	R0112385	\$2,910,259	1

Wirthlin, Michael		NSF	I/UCRC: SHREC Phase I REU Supplement	9/1/2017	8/31/2022	R0112380	\$16,000	1
Wirthlin, Michael		NSF	I/UCRC: SHREC Phase I RET Supplement	9/1/2017	8/31/2022	R0112379	\$20,000	1
Wirthlin, Michael		NSF	I/UCRC: SHREC Phase I Interagency Membership Dues – AFRL	9/1/2017	8/31/2022	R0112389	\$25,000	2
Wirthlin, Michael		NSF	I/UCRC: SHREC Phase I Interagency Membership Dues – AFRL	9/1/2017	8/31/2022	R0112389	\$40,000	2
Wirthlin, Michael		NSF	I/UCRC: SHREC Phase I Interagency Membership Dues – DOE LANL	9/1/2017	8/31/2022	R0302771	\$40,000	2
Wirthlin, Michael		NSF	I/UCRC: CHREC Phase II	4/1/2013	3/31/2018	R0112225	\$6,668	1
Wirthlin, Michael		Lockheed Martin	I/UCRC: SHREC Phase I Industry Membership Dues	9/1/2017	8/31/2022	R0602555	\$40,000	4
Wirthlin, Michael		Raytheon	I/UCRC: SHREC Phase I Industry Membership Dues	9/1/2017	8/31/2022	R0602555	\$40,000	4
Wirthlin, Michael		Intel	I/UCRC: SHREC Phase I Industry Membership Dues	9/1/2017	8/31/2022	R0602555	\$40,000	4
<i>Mechanical Engineering</i>								
Blotter, Jonathan	w/ Sommerfeldt, Scott	Caterpillar	Development of a Virtual Acoustic Simulator Incorporating Sound Quality Metrics, and Fialization of Sound Power Measurements Using Acoustic Energy Density.	1/1/2014	12/31/2018	R0602437	\$40,539	4
Bowden, Anton		IHC Health Services	Biomedical Innovation Research	2/27/2018	2/26/2020	R0602564	\$10,000	4
Bowden, Anton		Merit Medical Systems, Inc.	Multi-Stage Expanding Stent: Phase II	8/1/2018	3/1/2019	R0602757	\$45,300	4
Charles, Steven		NSF	Tremor Decomposition: A Method for Determining Which Mucsles are Most Responsible for a Patient's Tremor	7/15/2018	6/30/2021	R0112388	\$329,533	1
Crane, Nathan		NSF	Controlling Liquid Wetting of Textured Surfaces using Ultrasound	10/31/2018	12/31/2019	R0112398	\$152,636	1
Crane, Nathan		NSF	Could Slower be Better? Assessing Sintering Time, Temperature, and Area Tradeoffs in Polymer Sintering	8/7/2018	7/31/2019	R0112396	\$229,998	1
Fullwood, David	w/ Johnson, Oliver	NSF	Using the Effective Diffusivity of Polycrystals to Infer a Complete 5D Structure-Property Model for Hydrogen Diffusivity in Iron Grain Boundaries - REU Supplement	9/1/2016	8/31/2019	R0112386	\$5,333	1
Fullwood, David		DOE	Grain Boundary - Dislocation Interactions in Polycrystals: Characterization and Simulation for the Effective Design of High-Ductility Structural Alloys	8/15/2014	8/14/2019	R0202437	\$70,473	1
Fullwood, David		NASA UofU	BYU Rocketry 2018 IREC Participation	4/10/2018	4/9/2019	R0302789	\$8,000	2
Gorrell, Steven	w/ Salmon, John	Pratt & Whitney	BYU - Enabling Multi-organization Collaboration	1/1/2018	12/31/2018	R0602560	\$41,000	4
Homer, Eric	w/ Johnson, Oliver	NSF	Using the Effective Diffusivity of Polycrystals to Infer a Complete 5D Structure-	9/1/2016	8/31/2019	R0112386	\$5,333	1

Homer, Eric		DOE	Property Model for Hydrogen Diffusivity in Iron Grain Boundaries - REU Supplement	8/1/2016	7/31/2019	R0202473	\$128,139	1
Homer, Eric	w/ Fullwood, David	DOE	Computational and Experimental Investigation of Cryogenic Grain Boundary Motion for Enhanced Mechanical Behavior and Properties	8/15/2014	8/14/2019	R0202437	\$70,473	1
Howell, Larry		NASA	Grain Boundary - Dislocation Interactions in Polycrystals: Characterization and Simulation for the Effective Design of High-Ductility Structural Alloys	8/1/2015	7/31/2019	R0162022	\$5,000	1
Howell, Larry	w/ Magleby, Spencer	Durrant Associates	Fundamentals of 3D Deployable Mechanisms in Space	10/1/2018	9/30/2019	R0602583	\$30,000	4
Iverson, Brian		NASA	Development of Origami-base Clothing Products that Conform to Specific Body Shapes and Exhibit Desired Characteristics	1/1/2018	9/30/2018	R0202504	\$2,500	1
Iverson, Brian		NASA	Dynamic Thermal Control of a Collapsible Radiator – Goddard	8/1/2015	7/31/2019	R0162023	\$20,000	1
Iverson, Brian		NSF	Dynamic Control of Radiative Surface Properties with Origami-Inspired Design	9/1/2018	4/30/2021	R0112395	\$179,981	1
Iverson, Brian		NSF	Condensation and Droplet Dynamics Under Shear at Superhydrophobic Surfaces	5/1/2018	4/30/2023	R0112377	\$504,751	1
Iverson, Brian		Perkin Elmer	Origami-Inspired Reconfigurable Surfaces that Enable Controllable Radiative Properties	6/1/2015	12/31/2018	R0602482	\$86,662	4
Johnson, Oliver		NSF	Compact Next-generation GC and MS Instrumentation	9/1/2016	8/31/2019	R0112386	\$5,334	1
Jones, Matthew	w/ Iverson, Brian	NASA	Using the Effective Diffusivity of Polycrystals to Infer a Complete 5D Structure-Property Model for Hydrogen Diffusivity in Iron Grain Boundaries - REU Supplement	1/1/2018	9/30/2018	R0202504	\$2,500	1
Magleby, Spencer		NASA	Dynamic Thermal Control of a Collapsible Radiator – Goddard	8/1/2017	7/31/2021	R0162031	\$20,000	1
Magleby, Spencer		Durrant Associates	Deployable Solar Array Structures with High Stowed Volume Efficiencies	10/1/2018	9/30/2019	R0602583	\$30,000	4
Mattson, Christopher		NSF	Development of Origami-base Clothing Products that Conform to Specific Body Shapes and Exhibit Desired Characteristics	7/1/2018	6/30/2023	R0112322	\$46,000	1
Mattson, Christopher		DOD USAFA	Graduate Fellowship for Bryan Stringham	9/29/2017	9/28/2021	R0202505	\$56,565	1
Mattson, Christopher		NSF	Promoting Desirability and Transferability in Engineering Design through Customized Development Processes	9/1/2018	8/31/2021	R0112392	\$250,322	1
Maynes, Daniel	w/ Iverson, Brian	NSF	Creating and Using Social Impact Models for Engineered Products	9/1/2018	4/30/2021	R0112395	\$179,981	1

Maynes, Daniel		Concepts NREC	CFD analysis of high performance water and methane pump systems	3/1/2016	7/31/2018	R0602522	\$7,500	4
McLain, Timothy		Aerovironment	I/UCRC: C-UAS Phase II Industry Membership Dues	3/15/2017	2/28/2022	R0602546	\$44,000	4
McLain, Timothy		Insitu	I/UCRC: C-UAS Phase II Industry Membership Dues	3/15/2017	2/28/2022	R0602546	\$44,000	4
McLain, Timothy		L3	I/UCRC: C-UAS Phase II Industry Membership Dues	3/15/2017	2/28/2022	R0602546	\$44,000	4
McLain, Timothy		Facebook	I/UCRC: C-UAS Phase II Industry Membership Dues	3/15/2017	2/28/2022	R0602546	\$22,000	4
McLain, Timothy		NSF	I/UCRC: C-UAS Phase II REU Supplement	3/15/2017	2/28/2022	R0112343	\$4,000	1
McLain, Timothy		NSF	I/UCRC: C-UAS Phase II Interagency Membership Dues – NASA Langley	3/15/2017	2/28/2022	R0112353	\$13,334	1
McLain, Timothy		NSF	I/UCRC: C-UAS Phase II Interagency Membership Dues – AFRL	3/15/2017	2/28/2022	R0112353	\$22,000	1
McLain, Timothy		NSF	I/UCRC: C-UAS Membership Dues – NASA Langley	3/15/2017	2/28/2022	R0112353	\$24,986	1
McLain, Timothy		NSF	I/UCRC: C-UAS Phase II Add-on Project – AFRL Munitions	3/15/2017	2/28/2022	R0112355	\$34,082	1
McLain, Timothy		NSF	I/UCRC: C-UAS Phase II Interagency Membership Dues – AFRL Munitions	3/15/2017	2/28/2022	R0112353	\$44,000	1
McLain, Timothy		NSF	I/UCRC: C-UAS Phase II Add-on Project 2018-19 - AFRL	3/15/2017	2/28/2022	R0112354	\$98,577	1
McLain, Timothy		NSF CU	I/UCRC: Center for Unmanned Aircraft Systems: Phase II, Managing Director Support	4/1/2017	3/31/2019	R0302750	\$36,920	2
McLain, Timothy		DOE NNSA LLNL	Enabling Precision Landing of Multirotor Unmanned Aircraft	3/7/2017	2/28/2019	R0302721	\$37,415	2
McLain, Timothy		NSF UofMich	I/UCRC: Center for Unmanned Aircraft Systems, Phase II, Managing Director Support	9/1/2017	8/31/2019	R0302777	\$37,917	2
McLain, Timothy		NSF-Planck Aerosystems	Autonomous Landing of sUAS onto Moving Platforms	3/15/2018	2/29/2020	R0302796	\$125,265	2
McLain, Timothy	w/ Franke, Kevin	DOC NIST UCSD	Improving Disaster Resilience through Scientific Data Collection with UAV Swarms	8/15/2017	8/14/2019	R0302767	\$62,475	2
Munro, Troy		NASA UofU	Improved Temperature Control for Accurate DNA Anaylsis with 3D Printed Microfluidic Devices	4/10/2018	4/9/2019	R0302793	\$8,033	2
Nelson, Tracy		GE Global Research	Investigating Novel Approaches to Inertia Friction Welding of Next Generation High Performance PM Nickel-Based Superalloys	5/1/2018	12/31/2018	R0602569	\$20,000	4
Nelson, Tracy		GE Global Research	Investigating Novel Approaches to Inertia Friction Welding of Next Generation High Performance PM Nickel-Based Superalloys	5/1/2018	12/31/2018	R0602569	\$21,000	4
Ning, Andrew		DOE NREL	Multidisciplinary Optimization and Uncertainty Quantification of Wind Energy Systems	12/15/2017	12/14/2019	R0302778	\$20,000	2
Ning, Andrew		DOE NREL	Multidisciplinary Optimization and Uncertainty Quantification of Wind Energy Systems	12/15/2017	12/14/2018	R0302778	\$30,000	2

Ning, Andrew		DOE NREL	Multidisciplinary Optimization and Uncertainty Quantification of Wind Energy Systems	12/15/2017	12/14/2018	R0302778	\$30,251	2
Peterson, Cammy	w/ McLain, Timothy	NSF	REU Supplement	3/15/2017	2/28/2022	R0112343	\$4,000	1
Salmon, John		Lockheed Martin	VR Training and Architectures for Distributed Multi-User VR Design Reviews	10/31/2016	11/11/2018	R0602529	\$10,000	4
Salmon, John		Spirit Aerosystems	Spirit AeroSystems KBE Applications Projects	10/8/2015	10/8/2020	R0602486	\$40,000	4
Salmon, John		Pratt & Whitney	BYU - Enabling Multi-organization Collaboration	1/1/2018	12/31/2018	R0602560	\$41,000	4
Sorensen, Carl	w/ Mattson, Christopher	DOD USAFA	Promoting Desirability and Transferability in Engineering Design through Customized Development Processes	9/29/2017	9/28/2021	R0202505	\$56,565	1
Sorensen, Carl		DOE INL Battelle	Soft Robots to Support Handling - Capstone Project	9/3/2018	8/31/2019	R0302809	\$700	2
Sorensen, Carl		DOE INL Battelle	Soft Robots to Support Handling-Capstone Project	9/3/2018	8/31/2019	R0302809	\$1,820	2
Sorensen, Carl		DOE INL Battelle	Soft Robots to Support Handling - Capstone Project	9/3/2018	5/1/2019	R0302809	\$20,000	2
Sorensen, Carl		DOE LANL	Special Handling Tool	7/19/2017	5/30/2018	R0302781	\$20,000	2
Sorensen, Carl		DOD AFRL TSC	Development of Rapid Innovation Processes for RRTAS Requirements	8/15/2018	5/1/2019	R0302808	\$25,000	2
Sorensen, Carl	w/ Nelson, Tracy	GE Global Research	Investigating Novel Approaches to Inertia Friction Welding of Next Generation High Performance PM Nickel-Based Superalloys	5/1/2018	12/31/2018	R0602569	\$20,000	4
Sorensen, Carl	w/ Nelson, Tracy	GE Global Research	Investigating Novel Approaches to Inertia Friction Welding of Next Generation High Performance PM Nickel-Based Superalloys	5/1/2018	12/31/2018	R0602569	\$21,000	4
Thomson, Scott		DHHS NIH	Imaging and influence of glottic and subglottic anatomy in healthy and stenotic patients	9/1/2018	8/31/2019	R0102087	\$596,248	1
Thomson, Scott		DHHS NIH McGill	Design, construction, and evaluation of implants for vocal fold alteration and reconstruction	8/1/2016	7/31/2019	R0302684	\$83,720	2
Thomson, Scott	w/ Gee, Kent	Zodiac Waste and Water Systems	Phase III: Revolution Toilet Noise Reduction	1/25/2018	12/31/2018	R0602563	\$32,166	4

Type: 1=Federal; 2=Federal Subcontract; 3=State; 4=Private/Other

Ira A. Fulton College of Engineering

Source Breakdown

Sponsor	Number Awarded	Total Amount
Federal		
DHHS NIH	4	\$1,180,637
DOD ONR	4	\$420,000
DOD PEOSTRI	2	\$216,042
DOD USAFA	2	\$113,130
DOE	3	\$269,085
NASA	18	\$800,991
NSF	43	\$8,593,293
USDA FS	1	\$120,078
USGS	1	\$49,296
<i>Total</i>	78	\$11,762,552
Federal Subcontract		
DHHS NIH McGill	1	\$83,720
DHHS NIH UofU	1	\$21,208
DOC NIST UCSD	2	\$124,951
DOD AFRL TSC	1	\$25,000
DOD Army ATI	1	\$263,197
DOD NAWCAD Coreform	1	\$90,000
DOD ONR NAVSEA eCortex	1	\$25,000
DOE INL Battelle	4	\$42,520
DOE LANL	2	\$60,000
DOE LBNL	3	\$350,000
DOE LLNL	1	\$117,645
DOE NNSA LLNL	2	\$74,830
DOE NREL	3	\$80,251
DOE SRNL	1	\$135,537
DOE UofU	2	\$198,999
DOE USU	1	\$16,500
DOT FHA NAS NCHRP	2	\$99,900
NASA Johns Hopkins	1	\$25,000
NASA UCSC	1	\$49,920
NASA UofU	3	\$104,133
NASA-SERVIR JHU	1	\$60,000
NIH-SBIR PM, LLC	1	\$25,000
NRC UCLA	1	\$20,000
NSF CU	1	\$36,920
NSF CUAHSI	2	\$37,965
NSF Syracuse University	1	\$3,000
NSF UofMich	1	\$37,917

NSF USU	3	\$61,656
NSF-NRAO	1	\$6,000
NSF-Planck Aerosystems	2	\$250,530
Total	49	\$2,527,299
State		
UDOT	12	\$626,292
UDOT RSG	1	\$21,825
USTAR TAG Nielson Scientific	1	\$15,000
USTAR UofU	1	\$30,000
Total	15	\$693,117
Private/Other		
Aerovironment	1	\$44,000
Alpha Tech Research Corp	1	\$35,000
American Chemical Society	1	\$110,000
Aquaveo LLC	1	\$20,000
ArcelorMittal	2	\$8,400
California DOT WSP	1	\$24,934
Caterpillar	1	\$40,539
Chalmers University	1	\$10,000
Charles Stark Draper Lab	2	\$108,000
Concepts NREC	1	\$7,500
Durrant Associates	2	\$60,000
Facebook	1	\$22,000
Fluxus Corporation	1	\$58,500
Ford	2	\$80,000
GE Global Research	4	\$82,000
Honda R&D	2	\$30,000
IHC Health Services	1	\$10,000
Insitu	1	\$44,000
Intel	1	\$40,000
Kairos Power	1	\$10,000
L3	1	\$44,000
Light Field Lab	1	\$127,676
Lockheed Martin	2	\$50,000
Merit Medical Systems, Inc.	1	\$45,300
Perkin Elmer	3	\$259,986
Pratt & Whitney	2	\$82,000
Raytheon	1	\$40,000
Spirit Aerosystems	1	\$40,000
Zodiac Waste and Waster Systems	1	\$32,166
Total	41	\$1,566,001
Grand Total	183	\$16,548,969

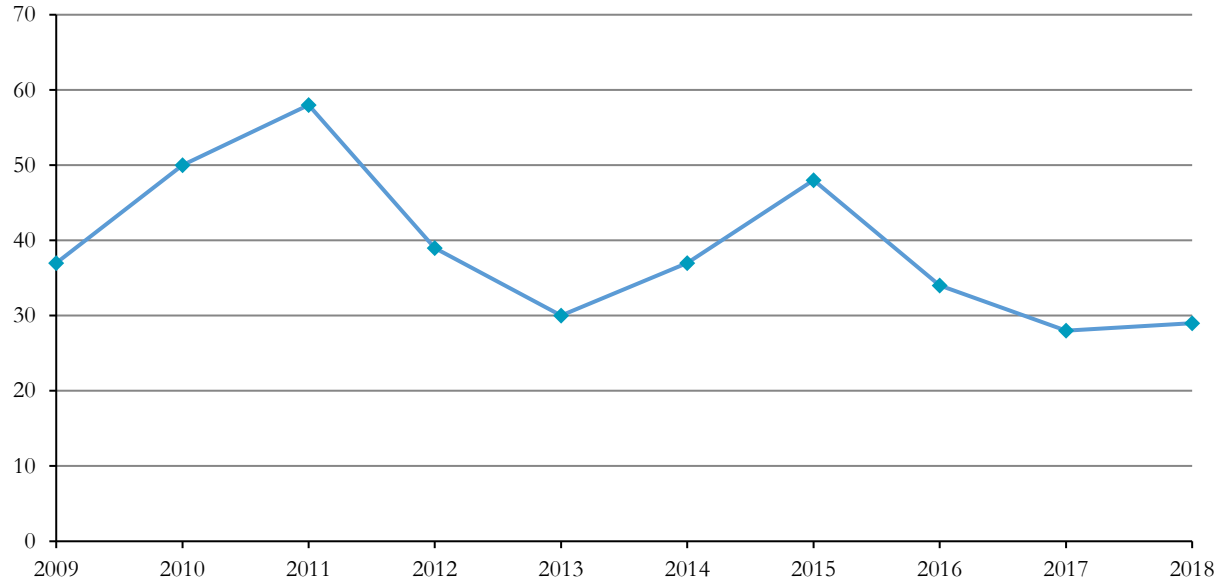


College of Family, Home, & Social Sciences

Summary by Departments

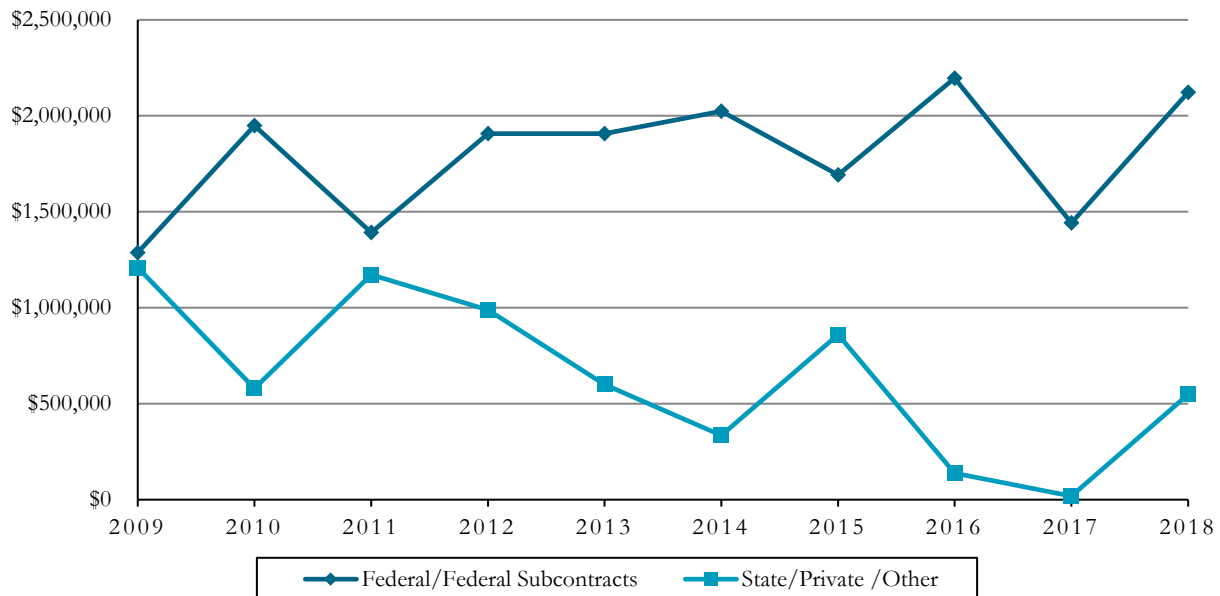
Department	# of Faculty Submitting	# of Proposals Submitted	# of Awards	Dollars Awarded
Anthropology	0	0	0	\$0
Economics	2	5	4	\$224,766
Geography	5	3	1	\$15,000
History	3	4	3	\$336,000
Museum of Peoples & Cultures	0	0	0	\$0
Office of Public Archaeology	1	1	3	\$330,574
Political Science	2	4	4	\$460,410
Psychology	5	7	6	\$1,012,925
School of Family Life	4	2	0	\$0
Social Work	2	2	2	\$30,467
Sociology	4	1	2	\$259,233
TOTALS	28	29	25	\$2,669,375

Proposal Submissions



Awards by Sources

Year	Grants/Contracts		Total
	Federal/Federal Subcontracts	State/Private /Other	
2009	\$1,287,523	\$1,209,318	\$2,496,841
2010	\$1,948,855	\$580,250	\$2,529,105
2011	\$1,391,892	\$1,172,630	\$2,564,522
2012	\$1,907,383	\$987,853	\$2,564,522
2013	\$1,908,007	\$600,123	\$2,377,935
2014	\$2,024,525	\$334,700	\$2,359,225
2015	\$1,692,729	\$859,560	\$2,552,289
2016	\$2,196,122	\$137,839	\$2,333,961
2017	\$1,442,760	\$18,636	\$1,461,396
2018	\$2,121,801	\$547,574	\$2,669,375



College of Family, Home, & Social Sciences 2018 Awards

<u>PI</u>	<u>Co-PI</u>	<u>Sponsor</u>	<u>Title</u>	<u>Beg Date</u>	<u>End Date</u>	<u>Account</u>	<u>Amount</u>	<u>Type</u>
<i>Economics</i>								
Pope, Arden		DHHS NIH UofL	Endothelial progenitor cells and particulate air pollution	4/1/2018	3/31/2019	R0302786	\$37,923	2
Pope, Arden		EPA Carnegie	Center for air, climate, and energy solutions (CASES)	5/1/2016	4/30/2021	R0302696	\$54,536	2
Pope, Arden		EPA Carnegie	Center for Air, Climate, and Energy Solutions (CASES)	5/1/2016	4/30/2021	R0302696	\$107,306	2
Price, Joseph		USDA ERS	School district characteristics associated with menu attributes	9/14/2018	4/30/2020	R0202513	\$25,000	1
<i>Geography</i>								
Clay, Michael		UDOT	Facilitating land use and transportation planning in rural Utah	10/31/2018	6/30/2019	R0402325	\$15,000	3
<i>History</i>								
Crandell, Jill		DOD USACE DPAA UWI	Defense POW/MIA accounting agency historical and genealogical research	7/31/2017	4/16/2019	R0302773	\$40,000	2
Larsen, Kirk		Academy of Korean Studies	Translation of Tradition, Treaties, and Trade: Qing Imperialism and Choson Korea, 1850-1910 into Korea	5/1/2018	2/28/2020	R0570022	\$17,000	4
Shumway, Jeffery		DOE UofU	Intermountain Consortium for Latin American studies undergraduate FLAS program	8/15/2018	8/14/2019	R0302823	\$279,000	2
<i>Office of Public Archaeology</i>								
Talbot, Richard		USDA FS	Challenge Cost Share Agreement	4/15/2018	9/30/2019	R0202494	\$230,000	1
Talbot, Richard		USDA FS	US Forest Service Challenge Cost Share Agreement - 2017	4/15/2017	9/30/2019	R0202494	\$100,000	1
Talbot, Richard		Dr. Glenna Nielsen	Quadcopter flight of cave canyon village	10/27/2018	1/15/2019	R0602579	\$574	4
<i>Political Science</i>								
Hawkins, Kirk		The Guardian	The New Populism	9/10/2018	2/28/2019	R0502282	\$15,000	4
Holbein, John		NSF Duke	Making young voters: Policy reforms to increase youth turnout	8/1/2017	7/31/2019	R0302766	\$49,453	2
Hyer, Eric		DOE UofU	Asian and Pacific Studies NRC 2018	8/15/2018	8/14/2019	R0302829	\$106,457	2
Hyer, Eric		DOE UofU	Intermountain Consortium for Asian and Pacific studies undergraduate FLAS program	8/15/2018	8/14/2019	R0302824	\$289,500	2

Psychology

Baldwin, Scott	DHHS NIH UW	Evaluating change in drinking identity as a mechanism for reducing hazardous drinking	5/5/2016	4/30/2021	RO302678	\$24,407	2
Bigler, Erin	DHHS NIH NCH	Predicting Outcomes in Children with Mild Traumatic Brain Injury	12/1/2017	2/28/2018	RO302785	\$21,256	2
Cobia, Derin	DHHS NIH NWU	Determinants of neurodegenerative decline in the aphasic variant of Alzheimer's disease	5/1/2017	2/28/2022	RO302765	\$5,609	2
Luke, Steven	DHHS NIH	Are Visual Attention Deficits in Dyslexia Reading-Specific? A Combines Eye-Tracking/MRI Investigation	9/30/2018	6/30/2020	RO102091	\$328,580	1
Steffen, Patrick	UT DOC	BYU Student Clinical Psychological Services: Mental Health (undergrad); Sex Offender Treatment (graduate) 2018-2023	10/1/2018	9/30/2023	RO402327	\$500,000	3
Steffensen, Scott	DHHS NIH	Nicotine and Alcohol Co-Dependence	6/1/2014	5/31/2019	RO102066	\$133,073	1

Social Work

Clark, Charlene	CNCS AmeriCorps UCSV	BYU FHSS AmeriCorps	8/15/2017	5/31/2019	RO302759	\$14,175	2
Clark, Charlene	CNCS AmeriCorps UCSV	AmeriCorps Program 2018-2019	8/15/2018	8/17/2019	RO302819	\$16,292	2

Sociology

Dahlin, Eric	w/ Mattson, Christopher	NSF	Creating and Using Social Impact Models for Engineered Products	9/1/2018	8/31/2021	RO112392	\$250,321	1
Ward, Carol		NSF Chief Dull Knife	Evaluation of CDKC project: Research engagement across curricular tracks	10/1/2015	9/30/2019	RO302636	\$8,912	2

Type: 1=Federal; 2=Federal Subcontract; 3=State; 4=Private/Other

College of Family, Home, & Social Sciences Source Breakdown

Sponsor	Number Awarded	Total Amount
Federal		
DHHS NIH	2	\$461,653
NSF	1	\$250,321
USDA ERS	1	\$25,000
USDA FS	2	\$330,000
Total	5	\$1,066,974
Federal Subcontract		
CNCS AmeriCorps UCSV	2	\$30,467
DHHS NIH NCH	1	\$21,256
DHHS NIH NWU	1	\$5,609
DHHS NIH UofL	1	\$37,923
DHHS NIH UW	1	\$24,407
DOD USACE DPAA UWI	1	\$40,000
DOE UofU	3	\$674,957
EPA Carnegie	2	\$161,843
NSF Chief Dull Knife	1	\$8,912
NSF Duke	1	\$49,453
Total	14	\$1,054,827
State		
UDOT	1	15,000
UT DOC	1	\$500,000
Total	2	\$515,000
Private/Other		
Academy of Korean Studies	1	\$17,000
Dr. Glenna Nielsen	1	\$574
The Guardian	1	\$15,000
Total	3	\$32,574
Grand Total	25	\$2,669,375

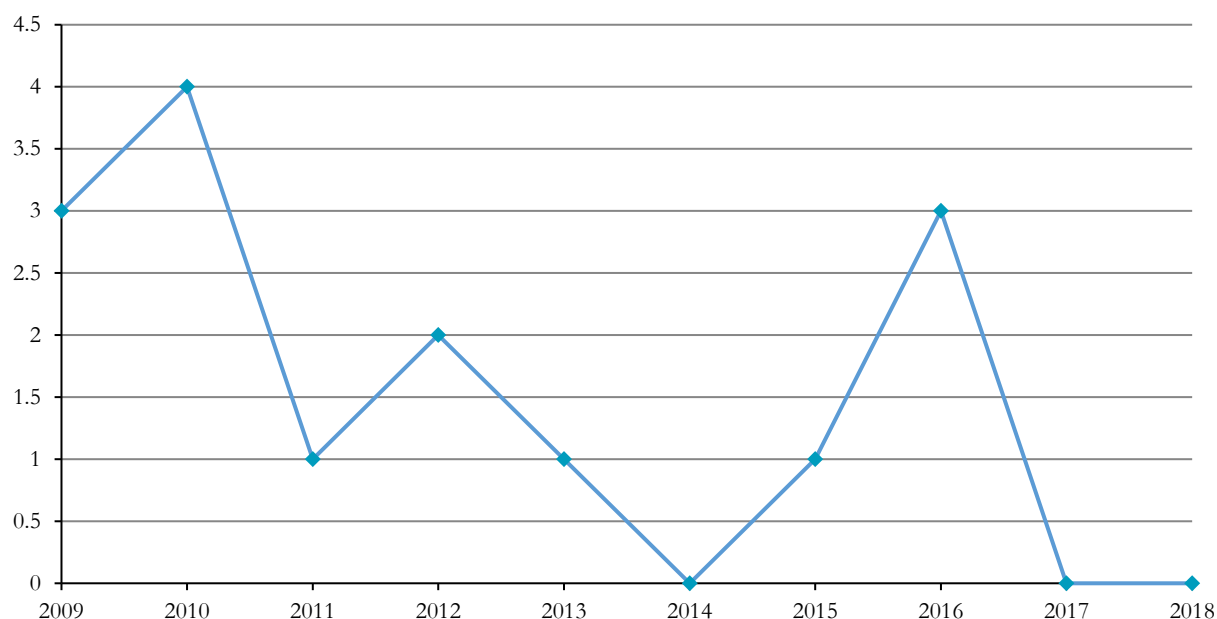


College of Fine Arts & Communications

Summary by Departments

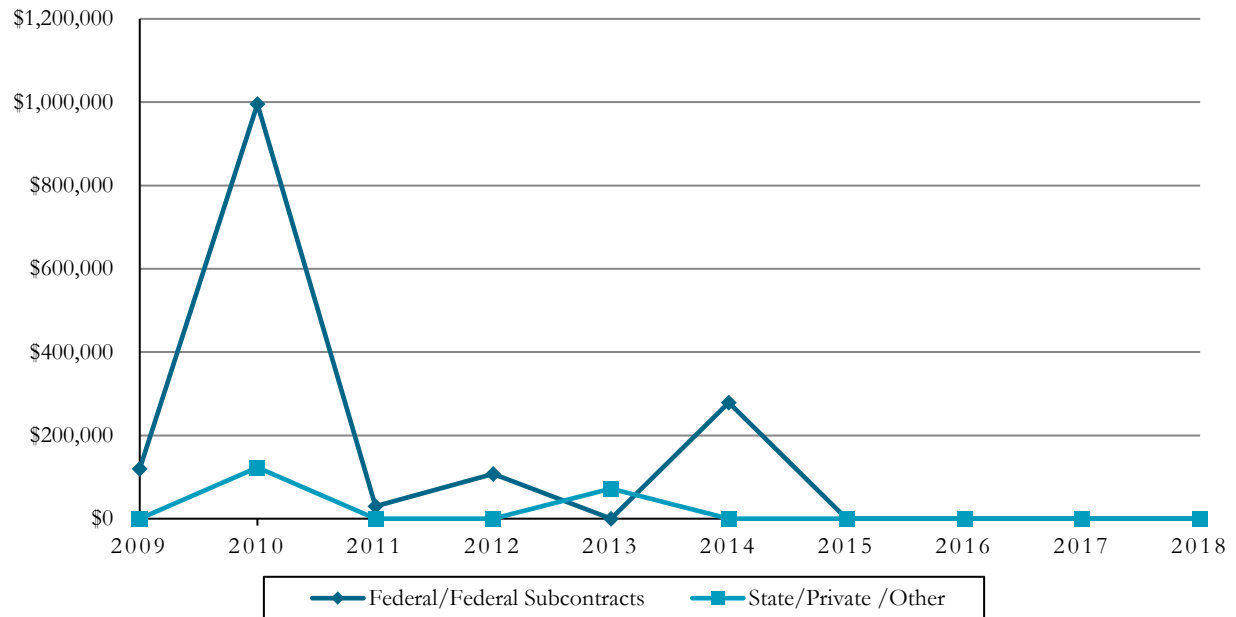
Department	# of Faculty Submitting	# of Proposals Submitted	# of Awards	Dollars Awarded
Art	0	0	0	\$0
Communications	0	0	0	\$0
Dance	0	0	0	\$0
Design	0	0	0	\$0
School of Music	0	0	0	\$0
Theatre & Media Arts	0	0	0	\$0
TOTALS	0	0	0	\$0

Proposal Submissions



Awards by Sources

Year	Grants/Contracts		Total
	Federal/Federal Subcontracts	State/Private /Other	
2009	\$120,000	\$0	\$0
2010	\$995,395	\$122,900	\$1,118,296
2011	\$30,000	\$0	\$0
2012	\$107,250	\$0	\$107,250
2013	\$0	\$72,500	\$72,500
2014	\$278,688	\$0	\$278,688
2015	\$0	\$0	\$0
2016	\$0	\$0	\$0
2017	\$0	\$0	\$0
2018	\$0	\$0	\$0



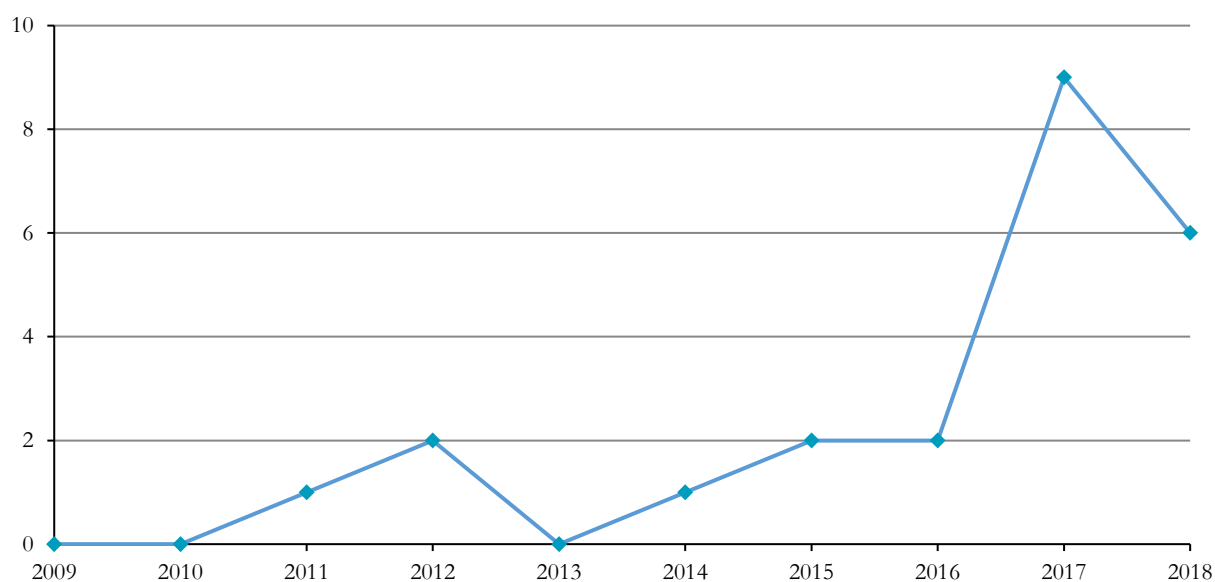


College of Humanities

Summary by Departments

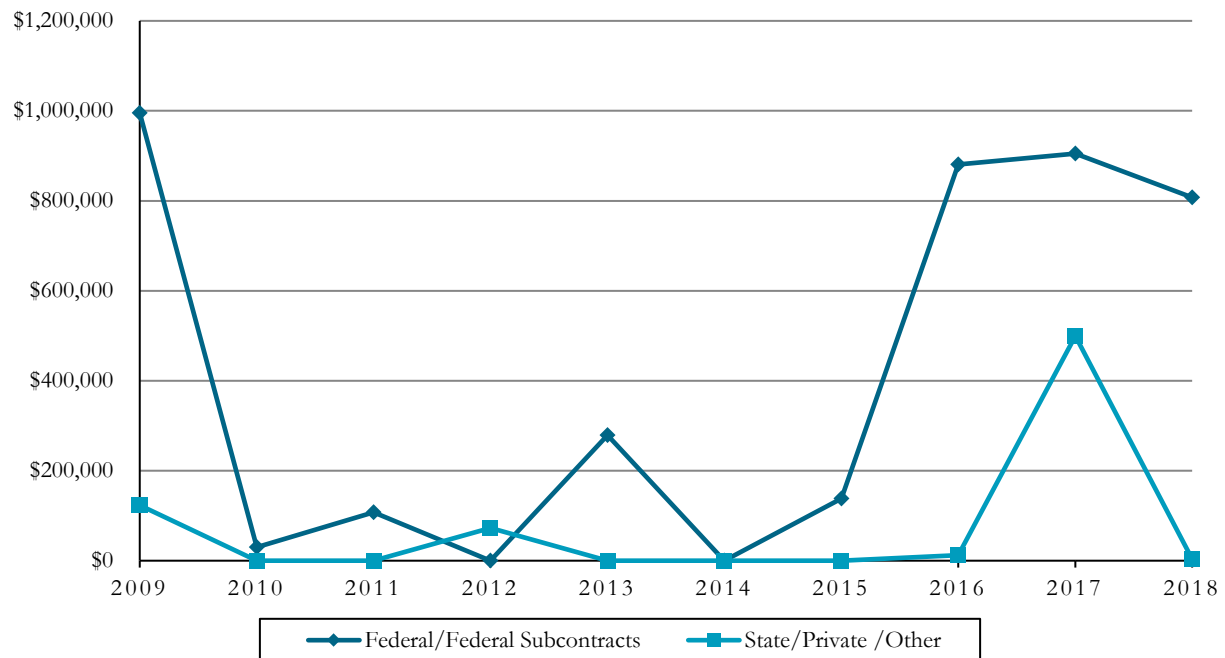
Department	# of Faculty Submitting	# of Proposals Submitted	# of Awards	Dollars Awarded
Asian & Near Eastern Languages	1	2	4	\$807,501
Comparative Arts & Letters	0	0	0	\$0
English	2	3	1	\$4,000
French & Italian	0	0	0	\$0
German & Russian	0	0	0	\$0
Linguistics & English Language	0	0	0	\$0
Philosophy	0	0	0	\$0
Spanish & Portuguese	2	1	0	\$0
TOTALS	5	6	5	\$811,501

Proposal Submissions



Awards by Sources

Year	Grants/Contracts		Total
	Federal/Federal Subcontracts	State/Private /Other	
2009	\$995,395	\$122,900	\$1,118,296
2010	\$30,000	\$0	\$0
2011	\$107,250	\$0	\$107,250
2012	\$0	\$72,500	\$72,500
2013	\$278,688	\$0	\$278,688
2014	\$0	\$0	\$0
2015	\$137,798	\$0	\$137,798
2016	\$880,583	\$12,320	\$892,903
2017	\$904,942	\$499,520	\$1,403,942
2018	\$807,501	\$4,000	\$811,501



College of Humanities 2018 Awards

<u>PI</u>	<u>Co-PI</u>	<u>Sponsor</u>	<u>Title</u>	<u>Beg Date</u>	<u>End Date</u>	<u>Account</u>	<u>Amount</u>	<u>Type</u>
<i>Asian & Near Eastern Languages</i>								
Belnap, Kirk		DOD NSA	BYU Arabic STARTALK Program	4/25/2018	3/31/2019	Ro202507	\$88,542	1
Belnap, Kirk		DOD NSEP IIE	Domestic Undergraduate Arabic Flagship Program	8/1/2018	5/31/2019	Ro302802	\$273,977	2
Christensen, Matthew		DOD NSEP IIE	2018-2019 Flagship Student Support	4/1/2016	5/31/2019	Ro302788	\$118,366	2
Christensen, Matthew		DOD NSEP IIE	Chinese Flagship (Domestic)	9/1/2016	5/31/2019	Ro302798	\$326,616	2
<i>English</i>								
Taylor, Michael		Utah Humanities	Returning Home Intermountain	6/1/2018	8/31/2019	Ro402315	\$4,000	3

Type: 1=Federal; 2=Federal Subcontract; 3=State; 4=Private/Other

College of Humanities Source Breakdown

Sponsor	Number Awarded	Total Amount
Federal		
DOD NSA	1	\$88,542
Total	1	\$88,542
Federal Subcontract		
DOD NSEP IIE	3	\$718,959
Total	3	\$718,959
State		
Utah Humanities	1	\$4,000
Total	1	\$4,000
Grand Total	5	\$811,501

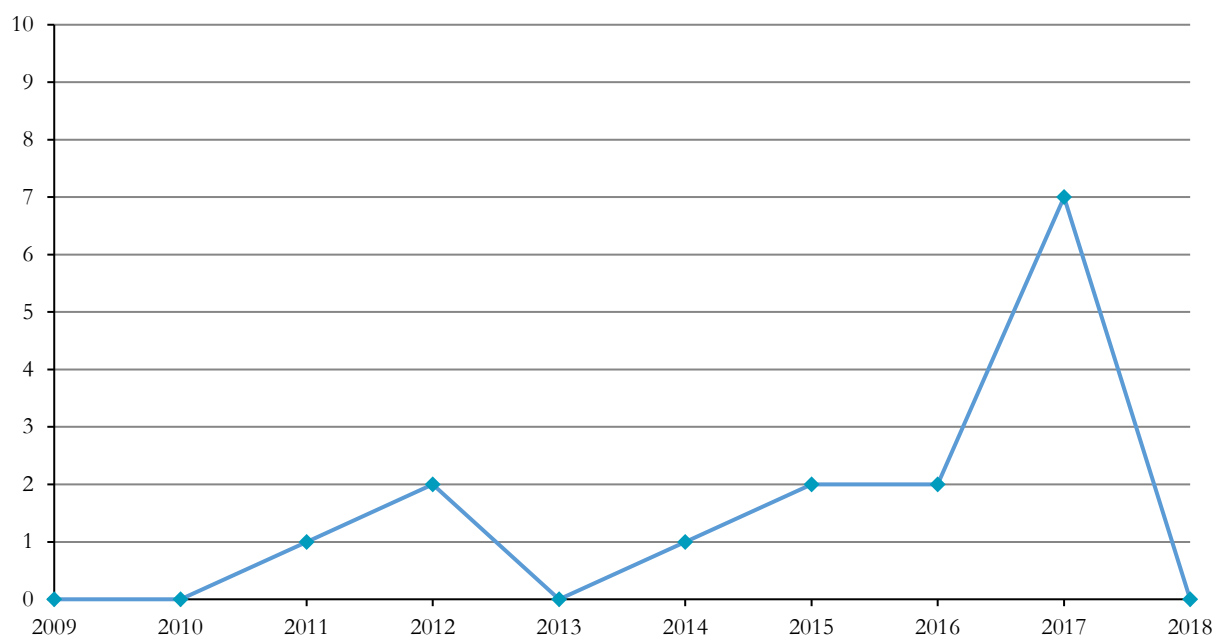


J. Reuben Clark Law School

Summary by Departments

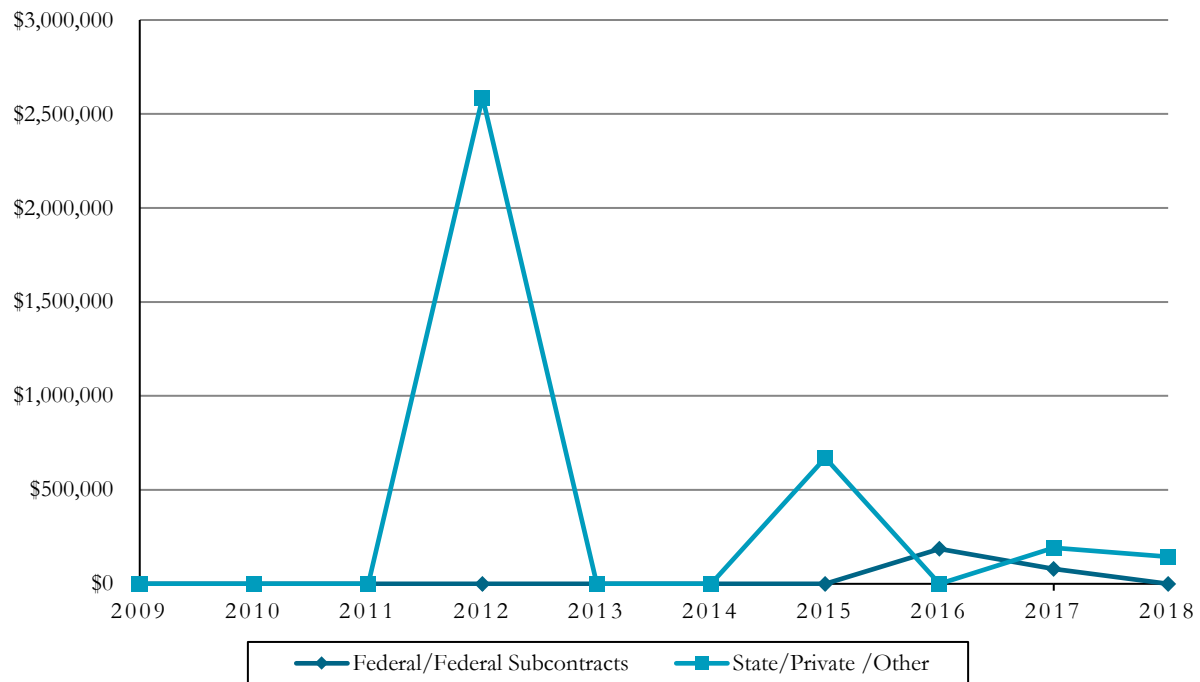
Department	# of Faculty Submitting	# of Proposals Submitted	# of Awards	Dollars Awarded
Law School	0	0	2	\$143,423
TOTALS	0	0	2	\$143,423

Proposal Submissions



Awards by Sources

Year	Grants/Contracts		Total
	Federal/Federal Subcontracts	State/Private	
2008	\$10,000	\$0	\$10,000
2009	\$0	\$0	\$0
2010	\$0	\$0	\$0
2011	\$0	\$0	\$0
2012	\$0	\$2,588,209	\$2,588,209
2013	\$0	\$0	\$0
2014	\$0	\$0	\$0
2015	\$0	\$670,637	\$670,637
2016	\$185,790	\$0	\$185,790
2017	\$79,189	\$191,800	\$270,989
2018	\$0	\$143,423	\$143,423



J. Reuben Clark Law School

2018 Awards

<u>PI</u>	<u>Co-PI</u>	<u>Sponsor</u>	<u>Title</u>	<u>Beg Date</u>	<u>End Date</u>	<u>Account</u>	<u>Amount</u>	<u>Type</u>
Jensen, Eric		Human Rights Voices	Workshop on War in Cities	10/4/2017	10/3/2018	RO502262	\$5,923	4
Smith, Gordon		Charles Koch Foundation	Corpus Linguistics Project Conference	5/18/2017	5/17/2019	RO502251	\$137,500	4

Type: 1=Federal; 2=Federal Subcontract; 3=State; 4=Private/Other

J. Reuben Clark Law School

Source Breakdown

<u>Sponsor</u>	<u>Number Awarded</u>	<u>Total Amount</u>
Private/Other		
Charles Koch Foundation	1	\$137,500
Human Rights Voices	1	\$5,923
Total	2	\$143,423
Grand Total	2	\$143,423

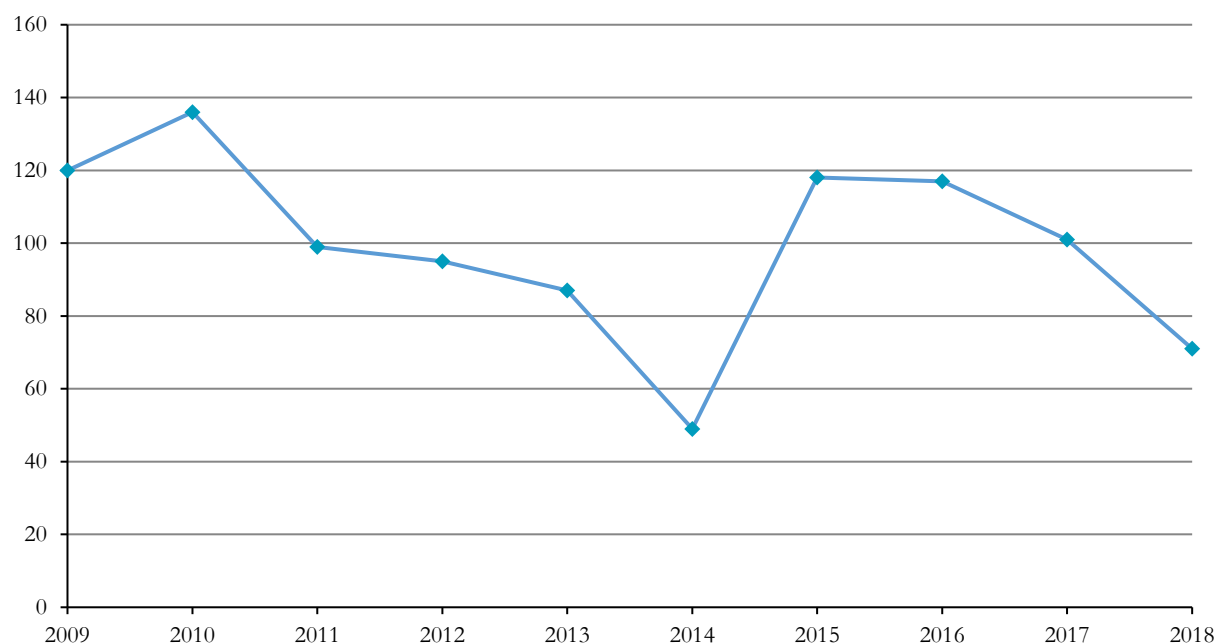


College of Life Sciences

Summary by Departments

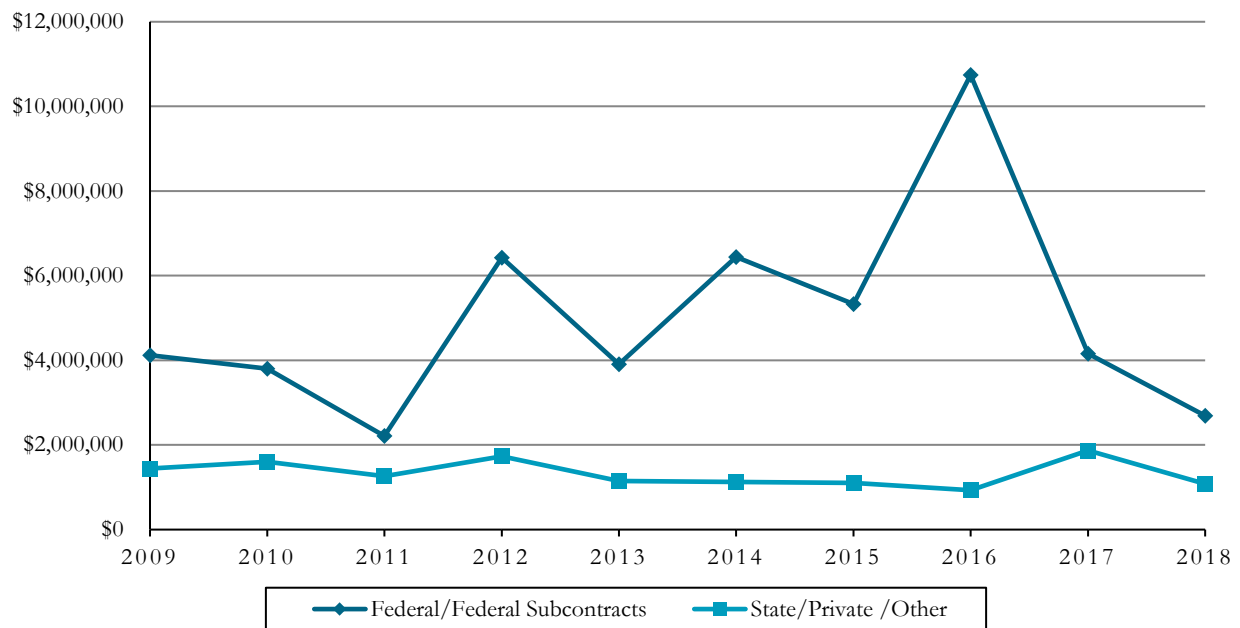
Department	# of Faculty Submitting	# of Proposals Submitted	# of Awards	Dollars Awarded
Monte L. Bean Life Science Museum	0	0	1	\$24,000
Biology	10	11	23	\$604,715
Exercise Science	6	2	1	\$7,200
Health Science	1	3	0	\$0
Microbiology & Molecular Biology	11	9	12	\$670,414
Nutrition, Dietetics & Food Science	10	15	16	\$437,392
Physiology & Developmental Biology	11	13	8	\$464,818
Plant & Wildlife Sciences	18	18	31	\$1,278,195
Public Health	3	3	5	\$284,948
TOTALS	70	71	97	\$3,771,682

Proposal Submissions



Awards by Sources

Year	Grants/Contracts		Total
	Federal/Federal Subcontracts	State/Private /Other	
2009	\$4,123,154	\$1,439,815	\$5,562,969
2010	\$3,803,488	\$1,598,562	\$5,402,050
2011	\$2,211,664	\$1,263,459	\$3,475,123
2012	\$6,426,283	\$1,727,334	\$8,163,617
2013	\$3,905,977	\$1,151,388	\$4,988,584
2014	\$6,442,140	\$1,125,358	\$7,567,498
2015	\$5,327,507	\$1,099,440	\$6,426,947
2016	\$10,743,176	\$929,921	\$11,673,097
2017	\$4,154,421	\$1,869,843	\$6,024,264
2018	\$2,688,969	\$1,082,714	\$3,771,683



College of Life Sciences

2018 Awards

<u>PI</u>	<u>Co-PI</u>	<u>Sponsor</u>	<u>Title</u>	<u>Beg Date</u>	<u>End Date</u>	<u>Account</u>	<u>Amount</u>	<u>Type</u>
Monte L. Bean Life Science Museum								
Rogers, Duke		CITES Partnership School Dist.	Education Partnership - Bean Museum	1/1/2011	12/31/2018	R0502113	\$24,000	4
Biology								
Adams, Byron	w/ Bybee, Seth	NSF RET	RET: Phylogenomics, revisionary systematics, and evolution of the visual sutems in dragonflies and damselflies (Insecta: Ononata)	2/9/2018	1/31/2019	R0112304	\$3,750	1
Adams, Byron	w/ Bybee, Seth	NSF REU	REU: Phylogenomics, revisionary systematics, and evolution of the visual sutems in dragonflies and damselflies (Insecta: Ononata)	2/9/2018	1/31/2019	R0112275	\$3,942	1
Adams, Byron		NSF CU	LTER: Ecosystem response to ampified landscape connectivity in the McMurdo Dry Valleys, Antarctica	6/15/2017	5/31/2019	R0302755	\$76,281	2
Adams, Byron		NSF CU	LTER: Ecosystem response to ampified landscape connectivity in the McMurdo Dry Valleys, Antarctica	6/15/2017	5/31/2020	R0302755	\$76,281	2
Belk, Mark		UT DWR	Bluegill adaptation studies - Quagga Mussels	5/1/2017	5/15/2019	R0402301	\$20,000	3
Bybee, Seth		NSF RET	RET: Phylogenomics, revisionary systematics, and evolution of the visual sutems in dragonflies and damselflies (Insecta: Ononata)	2/9/2018	1/31/2019	R0112304	\$3,750	1
Bybee, Seth		NSF REU	REU: Phylogenomics, revisionary systematics, and evolution of the visual sutems in dragonflies and damselflies (Insecta: Ononata)	2/9/2018	1/31/2019	R0112275	\$3,942	1
Bybee, Seth		NSF RET	RET: Shedding Light on Firefly Phylogenetic Systematics and the Evolution of Their Sexual Signal Types	2/9/2018	1/31/2019	R0112371	\$15,000	1
Bybee, Seth		NSF REU	REU: Shedding Light on Firefly Phylogenetic Systematics and the Evolution of Their carnal Signal Types	2/15/2018	1/1/2019	R0112372	\$15,768	1
Johnson, Robert	w/ Anderson, Val Jo	DOI BLM	BLM Listed Cacti Sampling and Monitoring in Sevier, Emery and Wayne Counties, Utah	12/1/2018	12/31/2021	R0202511	\$19,987	1
Kauwe, Keoni		NSF ASU WAESO	Cell-free single-stranded DNA concentration in CSF as biomarker to diagnose Alzheimer's disease	1/8/2018	9/30/2018	R0302782	\$464	2
Kauwe, Keoni		Jay L. Smith Foundation	Identification of Alzheimer's Disease Risk Variants in High-Risk Pedigrees	1/1/2019	12/31/2019	R0502278	\$15,000	4

Kauwe, Keoni		DHHS NIH NIA Mt. Sinai	Integrative Network Modeling of Cognitive Resilience to Alzheimer's Disease	9/15/2017	5/31/2019	RO302775	\$28,819	2
Kauwe, Keoni	w/ Ridge, Perry	DHHS NIH UPenn	Pleiotropy QWAS of Alzheimer's disease	9/15/2016	4/30/2018	RO302727	(\$52,479)	2
Kauwe, Keoni	w/ Evans, Paul	UT DWR	Genetic analysis of Utah Cutthroat Trout	9/1/2017	6/30/2022	RO402308	\$50,400	3
Kauwe, Keoni	w/ Ridge, Perry	DHHS NIH UPenn	Pleiotropy GWAS of Alzheimer's Disease	9/15/2016	4/30/2019	RO302727	\$53,527	2
Payne, Sam		DHHS NIH NYU	Proteogenomic Data Analysis for Cancer Systems Biology and Clinical Translation	9/1/2018	8/31/2019	RO302818	\$148,562	2
Piccolo, Stephen		NIH BRI COH	Developing and Evaluating a Process to Distribute Whole- Genome Variant Calling Across Dispersed Computing Environments	7/1/2018	6/30/2019	RO302820	\$34,981	2
Ridge, Perry		DHHS NIH UPenn	Pleiotropy GWAS of Alzheimer's Disease	9/15/2016	4/30/2019	RO302727	\$53,528	2
Ridge, Perry		DHHS NIH UPenn	Pleiotropy QWAS of Alzheimer's disease	9/15/2016	4/30/2018	RO302727	(\$52,479)	2
Ridge, Perry		Halia Therapeutics	Screening of small molecules for biological impact on Alzheimer's disease related targets	5/7/2018	5/1/2019	RO602568	\$78,000	4
Whiting, Michael	w/ Bybee, Seth	NSF RET	RET: Phylogenomics, revisionary systematics, and evolution of the visual sutems in dragonflies and damselflies (Insecta: Ononata)	2/9/2018	1/31/2019	RO112304	\$3,750	1
Whiting, Michael	w/ Bybee, Seth	NSF REU	REU: Phylogenomics, revisionary systematics, and evolution of the visual sutems in dragonflies and damselflies (Insecta: Ononata)	2/9/2018	1/31/2019	RO112275	\$3,942	1

Exercise Science

Hunter, Iain		USA Track and Field	Analysis of Distance Running	10/4/2003	12/31/2018	RO502040	\$7,200	4
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Microbiology & Molecular Biology

Evans, Paul		UT DWR	Genetic analysis of Utah Cutthroat Trout	9/1/2017	6/30/2022	RO402308	\$50,400	3
Griffitts, Joel		NSF	RUI: Collaborative Research: Genetic and ecological drivers of microbial adaptation to high-nickel serpentine soils	8/15/2018	7/31/2021	RO112393	\$276,838	1
Robison, Richard	w/ Pitt, William	NIH-SBIR PM, LLC	Rapid and Efficient Extraction of Bacteria from Whole Blood for Sepsis Diagnosis	8/15/2018	1/31/2019	RO302812	\$25,000	2
Robison, Richard		Solutions Bio Med	Antimicrobial materials and select agents	6/17/2005	6/30/2019	RO602144	\$1,200	4
Robison, Richard		Solutions Bio Med	Antimicrobial materials and select agents	6/17/2005	6/30/2019	RO602144	\$1,200	4
Robison, Richard		Solutions Bio Med	Antimicrobial Materials and Select Agents	6/17/2005	6/30/2019	RO602144	\$1,200	4
Robison, Richard		Solutions Bio Med	Antimicrobial materials and select agents	6/17/2005	6/30/2019	RO602144	\$1,200	4

Robison, Richard		Solutions Bio Med	Antimicrobial Materials and Select Agents	6/17/2005	6/30/2019	RO602144	\$1,200	4
Robison, Richard		Solutions Bio Med	Antimicrobial materials and select agents	6/17/2005	6/30/2019	RO602144	\$1,200	4
Robison, Richard		Solutions Bio Med	Antimicrobial materials and select agents	6/17/2005	3/30/2019	RO602144	\$1,200	4
Robison, Richard	w/ Hawkins, Aaron	DHHS NIH	Multiplexed, Non-Amplified, Nucleic Acid-Based Identification of Multidrug Pathogens Using an Integrated Optofluidic Platform	3/1/2015	2/28/2019	RO102068	\$247,127	1
Wilson, Eric		DHHS NIH Montana State	Role of Staphylococcus Aureus SaeR/S Regulatory System in Neutrophil Evasion	7/20/2018	6/30/2019	RO302814	\$63,849	2

Nutrition, Dietetics, & Food Science

Dunn, Michael		General Mills	Charter 7: Carbonated Ice Cream Consumer Research and Product Optimization	10/30/2018	6/30/2019	RO602581	\$5,000	4
Dunn, Michael		USU/Western Dairy Center	Metabolome analysis of acid whey from Greek yogurt produced with probiotic cultures	9/1/2018	8/31/2020	RO502270	\$18,000	4
Jefferies, Laura		Basic American Foods	Food Sensory Evaluation 2018	1/1/2012	12/31/2018	RO602395	\$50,000	4
Kenealey, Jason		Bryant Adams	Vitamin E Analog Combinations	7/1/2018	7/31/2018	RO602570	\$15,392	4
Kenealey, Jason		USU/Western Dairy Center	Converting whey permeate into a syrup through demineralization and enzymatic hydrolysis	9/1/2017	8/31/2019	RO502265	\$25,000	4
Patten, Emily	w/ Stokes, Nathan	FSMEC	Characteristics and use of student operated restaurants in dietetics and hospitality programs	10/1/2018	9/30/2019	RO502280	\$1,000	4
Pike, Oscar		Welfare Services	BYU Quality Assurance Laboratory	1/1/2018	12/31/2018	RO700031	\$140,000	4
Steele, Frost	w/ Dunn, Michael	General Mills	Charter 7: Carbonated Ice Cream Consumer Research and Product Optimization	10/30/2018	6/30/2019	RO602581	\$5,000	4
Steele, Frost	w/ Taylor, Bradley	USU/Western Dairy Center	Sporeformer presence and control in a mil fractionation process	9/1/2018	12/31/2020	RO502271	\$8,750	4
Steele, Frost		Deseret Meats	Pathogen analysis for meat products produced at deseret meats & Houston peanut butter	1/1/2018	12/31/2018	RO702001	\$29,000	4
Steele, Frost		Deseret Meats	Pathogen Analysis for meat products produced at deseret meats & Houston peanut butter	1/1/2018	12/31/2018	RO702001	\$46,250	4
Stokes, Nathan		FSMEC	Characteristics and use of student operated restaurants in dietetics and hospitality programs	10/1/2018	9/30/2019	RO502280	\$1,000	4
Taylor, Bradley		USU/Western Dairy Center	Sporeformer presence and control in a mil fractionation process	9/1/2018	12/31/2020	RO502271	\$8,750	4
Taylor, Bradley		BUILD Dairy	Genetic interactions resulting in exceptional desiccation and thermal resistance in Cronobacter ssp. In low-moisture food matrices	1/18/2018	12/31/2018	RO502268	\$24,250	4
Tessem, Jeff		Diabetes Action	Exploring the role of cocoa derived epicatechins on beta	1/1/2017	12/31/2017	RO502248	\$20,000	4

			cell growth, function and survival					
Tessem, Jeff		Diabetes Action	Exploring the Mechanism by Which gut Microbiome Derived Epicatechine Metabolites Enhance Beta Cell Function, Survival and Proliferation	1/1/2019	12/31/2019	RO502279	\$40,000	4
Physiology & Developmental Biology								
Arroyo, Juan	w/ Reynolds, Paul	FAMRI	RAGE and SAGE: Modeling Secondhand Smoke-Induced COPD and Therapeutic Modalities	7/1/2016	6/30/2019	RO502229	\$54,250	4
Busath, David		NSF ASU WAESO	Undergraduate STEM research award-Siale Teaupā	1/8/2018	9/30/2018	RO302783	\$464	2
Edwards, Jeff	w/ Steffensen, Scott	DHHS NIH	Nicotine and Alcohol Co-Dependence	6/1/2014	5/31/2019	RO102066	\$133,073	1
Hansen, Jason		DHHS NIH Sanford Research	Cysteine-based redox relays in lung development and hyperoxic injury	8/10/2017	6/30/2019	RO302770	\$20,778	2
Hansen, Jason		DHHS NIH UMA	Activation of Nrf2 during embryonic development: Mechanisms and consequences	6/1/2016	5/31/2019	RO302683	\$23,967	2
Hansen, Jason		DHHS NIH UoP	Mechanisms of telomere-mediated lung disease	7/10/2018	6/30/2019	RO302816	\$44,963	2
Reynolds, Paul		FAMRI	RAGE and SAGE: Modeling Secondhand Smoke-Induced COPD and Therapeutic Modalities	7/1/2016	6/30/2019	RO502229	\$54,250	4
Sudweeks, Sterling	w/ Steffensen, Scott	DHHS NIH	Nicotine and Alcohol Co-Dependence	6/1/2014	5/31/2019	RO102066	\$133,073	1
Plant & Wildlife Sciences								
Anderson, Val Jo		DOI BLM	BLM Listed Cacti Sampling and Monitoring in Sevier, Emery and Wayne Counties, Utah	12/1/2018	12/31/2021	RO202511	\$19,987	1
Anderson, Val Jo	w/ Petersen, Steven	DOD Army	Natural resources support for Utah test and training range	9/30/2018	9/29/2019	RO202512	\$69,934	1
Coleman, Craig		USDA FS	Manipulating cheat grass stand failure as a tool for fire risk reduction and sagebrush steppe restoration	7/18/2016	9/30/2019	RO202476	\$34,000	1
Geary, Bradley		USDA ARS	Control of Pythium Leak (Pythium Ultimum) and Silver Scurf (Helminthosporium Solani) Infection of Potato Using Antagonistic Streptomyces	7/1/2018	9/30/2019	RO152014	\$25,872	1
Hopkins, Bryan		DOI USGS	USGS Canyonlands Soil Analysis Contract	9/26/2015	9/25/2019	RO202463	\$6,500	1
Hopkins, Bryan	w/ Petersen, Steven	DOD Army	Natural resources support for Utah test and training range	9/30/2018	9/29/2019	RO202512	\$69,934	1
Jellen, Eric	w/ Dunn, Michael	General Mills	Charter 7: Carbonated Ice Cream Consumer Research and Product Optimization	10/30/2018	6/30/2019	RO602581	\$5,000	4
Jellen, Eric	w/ Maughan, P. Jeff	General Mills	Neolithic Oat Traits (NOTS)	5/17/2017	5/31/2019	RO602547	\$30,000	4

Larsen, Randy		HI DLNR	Abundance Estimation - Use of Remote Cameras to Estimate Abundance of Feral/Mouflon Hybrids for the State of Hawaii Department of Land and Natural Resources (DLNR) Division of Forestry and Wildlife (DOFAW)	8/1/2018	12/31/2018	Ro470016	\$2,480	4
Larsen, Randy		DOI BLM	BLM Utah Special Status and Other Special Wildlife Inventories in Utah: Opportunity L14AS00328	9/20/2014	9/30/2019	Ro202436	\$40,000	1
Larsen, Randy		DOI BLM URMCC	Study of Sage Grouse in Strawberry Valley	7/1/2014	7/31/2019	Ro202428	\$65,000	1
Larsen, Randy		DOD ARMY DPG	Technician Support for U.S. Army Dugway Proving Ground	9/9/2015	9/8/2020	Ro190001	\$107,528	1
Larsen, Randy	w/ Petersen, Steven	DOD Army	Natural resources support for Utah test and training range	9/30/2018	9/29/2019	Ro202512	\$69,934	1
Madsen, Matthew		UT DWR	Novel seed treatments to reduce the risk of post-fire seeding failure	2/21/2017	2/20/2020	Ro402299	\$28,771	3
Madsen, Matthew		NSHE UofN	Use at seed enhancement technologies to improve sagebrush environment	8/1/2017	9/30/2020	Ro802041	\$30,000	4
Madsen, Matthew	w/ Petersen, Steven	DOD Army	Natural resources support for Utah test and training range	9/30/2018	9/29/2019	Ro202512	\$69,934	1
Maughan, P. Jeff		General Mills	Neolithic Oat Traits (NOTS)	5/17/2017	5/31/2019	Ro602547	\$30,000	4
Maughan, P. Jeff		USDA ARS	Techniques and improved efficiency in next generation sequencing	9/15/2016	9/30/2019	Ro152012	\$54,995	1
McMillan, Brock	w/ Larsen, Randy	HI DLNR	Abundance Estimation - Use of Remote Cameras to Estimate Abundance of Feral/Mouflon Hybrids for the State of Hawaii Department of Land and Natural Resources (DLNR) Division of Forestry and Wildlife (DOFAW)	8/1/2018	12/31/2018	Ro470016	\$2,480	4
McMillan, Brock	w/ Larsen, Randy	DOI BLM	BLM Utah Special Status and Other Special Wildlife Inventories in Utah: Opportunity L14AS00328	9/20/2014	9/30/2019	Ro202436	\$40,000	1
McMillan, Brock	w/ Larsen, Randy	DOD ARMY DPG	Technician Support for U.S. Army Dugway Proving Ground	9/9/2015	9/8/2020	Ro190001	\$107,528	1
Petersen, Steven		DOD Army	Natural resources support for Utah test and training range	9/30/2018	9/29/2019	Ro202512	\$69,934	1
Roundy, Bruce	w/ Madsen, Matthew	UT DWR	Novel seed treatments to reduce the risk of post-fire seeding failure	2/21/2017	2/20/2020	Ro402299	\$28,771	3
Roundy, Bruce		USDA FS	SageSTEP soil moisture station monitoring	4/29/2015	3/1/2020	Ro202449	\$29,000	1
Smith, Tom	w/ Petersen, Steven	DOD Army	Natural resources support for Utah test and training range	9/30/2018	9/29/2019	Ro202512	\$69,934	1
St. Clair, Sam		UT DWR	Long term impacts of ungulates on Aspen forest recruitment	6/15/2018	6/30/2019	Ro402316	\$17,000	3
St. Clair, Sam		USDA FS	Monroe mountain aspen ecosystems monitoring	4/23/2018	9/30/2023	Ro202506	\$29,392	1
Stevens, Mikel		American Penstemon Society	Reevaluating the Taxonomic Divisions of Wasatch Penstemon Varieties	4/1/2018	6/30/2019	Ro502269	\$2,000	4

Stevens, Mikel		USDA ARS	Population Genetic Studies of <i>Penstemon eatonii</i> and <i>P. palmeri</i> in Preparation for Germplasm Acquisition, Breeding, and Curation	8/1/2018	7/31/2019	RO152013	\$22,287	1
Stevens, Mikel		Cotton Inc.	The Genetic basis of cotton domestication	1/1/2018	12/31/2018	RO602561	\$50,000	4
Stewart, Ryan		Korea RDA NIHHS	Development of the technology to improve the color quality in succulent plants.	3/1/2016	12/31/2018	RO570013	\$50,000	4

Public Health

Barnes, Michael	w/ Snell, Quinn	DHHS SAMHSA Utah County Dept of Drug/Alcohol	Drug-free Communities	3/13/2018	9/30/2018	RO302787	\$1,127	2
Hanson, Carl	w/ Snell, Quinn	DHHS SAMHSA Utah County Dept of Drug/Alcohol	Drug-free Communities	3/13/2018	9/30/2018	RO302787	\$1,127	2
Hanson, Carl		IHC Health Services	BYU health promotion student competition- Opioid awareness campaign	9/1/2018	4/30/2019	RO602574	\$5,000	4
Merrill, Ray	w/ Tanner, Kristine	DHHS NIH	Pathophysiology of Voice Disorders due to Combination Inhaled Corticosteroids in Asthma	5/14/2018	4/30/2023	RO102086	\$274,574	1
Thygerson, Steven		IHC Health Services	Respirator Fit Testing	6/1/2018	4/30/2021	RO602576	\$3,120	4

Type: 1=Federal; 2=Federal Subcontract; 3=State; 4=Private/Other

College of Life Sciences

Source Breakdown

Sponsor	Number Awarded	Total Amount
Federal		
DHHS NIH	4	\$787,847
DOD Army	6	\$419,604
DOD ARMY DPG	2	\$215,056
DOI BLM	4	\$119,974
DOI BLM URMCC	1	\$65,000
DOI USGS	1	\$6,500
NSF	9	\$330,682
USDA ARS	3	\$103,154
USDA FS	3	\$92,392
Total	33	\$2,140,209
Federal Subcontract		
DHHS NIH Montana State	1	\$63,849
DHHS NIH NIA Mt. Sinai	1	\$28,819
DHHS NIH NYU	1	\$148,562
DHHS NIH Sanford Research	1	\$20,778
DHHS NIH UMA	1	\$23,967
DHHS NIH UofP	1	\$44,963
DHHS NIH UPenn	4	\$2,097
DHHS SAMHSA Utah County Dept of Drug/Alcohol	2	\$2,254
NIH BRI COH	1	\$34,981
NIH-SBIR PM, LLC	1	\$25,000
NSF ASU WAESO	2	\$928
NSF CU	2	\$152,562
Total	18	\$548,760
State		
UT DWR	6	\$195,342
Total	6	\$195,342
Private/Other		
American Penstemon Society	1	\$2,000
Basic American Foods	1	\$50,000
Bryant Adams	1	\$15,392
BUILD Dairy	1	\$24,250
CITES Partnership	1	\$24,000
Cotton Inc.	1	\$50,000
Deseret Meats	2	\$75,250
Diabetes Action	2	\$60,000
FAMRI	2	\$108,500
FSMEC	2	\$2,000
General Mills	5	\$75,000
Halia Therapeutics	1	\$78,000
HI DLNR	2	\$4,960
IHC Health Services	2	\$8,120
Jay L. Smith Foundation	1	\$15,000

Korea RDA NIHHS	1	\$50,000
NSHE UofN	1	\$30,000
Solutions Bio Med	7	\$7,200
USA Track and Field	1	\$7,200
USU/Western Dairy Center	4	\$60,500
Welfare Services	1	\$140,000
Total	40	\$887,372
Grand Total	97	\$3,771,683

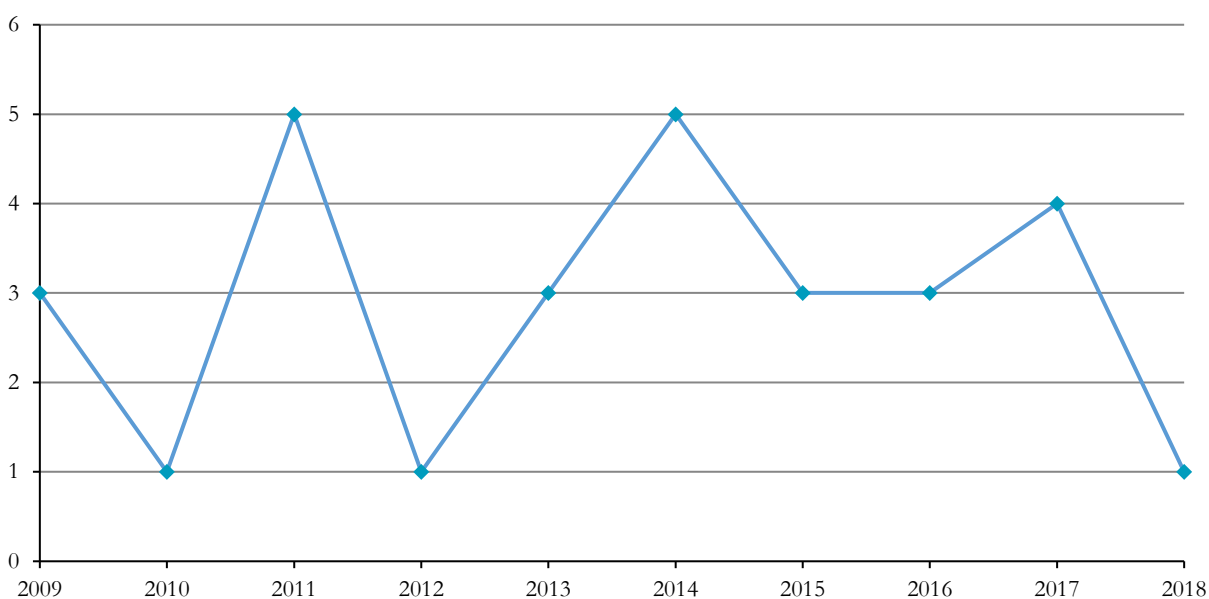


Marriott School of Business

Summary by Departments

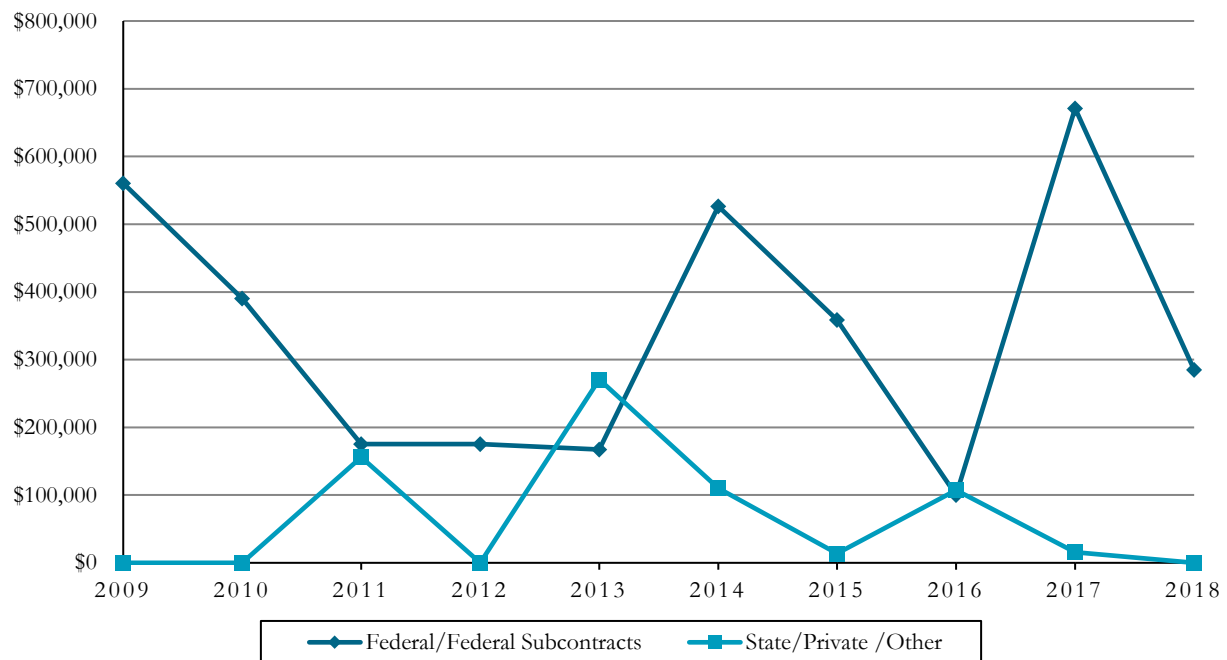
Department	# of Faculty Submitting	# of Proposals Submitted	# of Awards	Dollars Awarded
School of Accountancy	0	0	0	\$0
Experience Design & Management	0	0	0	\$0
Finance & Managerial Economics	0	0	0	\$0
Global Management Center	1	0	1	\$142,500
Information Systems	0	0	0	\$0
Management	1	0	0	\$0
Marketing & Global Supply Chain	1	1	1	\$142,500
Romney Institute of Public Management	0	0	0	\$0
TOTALS	3	1	2	\$285,000

Proposal Submissions



Awards by Sources

Year	Grants/Contracts		Total
	Federal/Federal Subcontracts	State/Private /Other	
2009	\$560,495	\$0	\$560,495
2010	\$390,200	\$0	\$390,200
2011	\$175,321	\$155,800	\$331,121
2012	\$175,321	\$0	\$175,321
2013	\$167,256	\$270,767	\$438,023
2014	\$526,276	\$110,000	\$636,276
2015	\$358,690	\$13,910	\$372,600
2016	\$100,000	\$107,500	\$207,500
2017	\$671,051	\$15,600	\$686,651
2018	\$285,000	\$0	\$285,000



Marriott School of Business

2018 Awards

<u>PI</u>	<u>Co-PI</u>	<u>Sponsor</u>	<u>Title</u>	<u>Beg Date</u>	<u>End Date</u>	<u>Account</u>	<u>Amount</u>	<u>Type</u>
Global Management Center								
Wood, Jonathon	w/ Money, Bruce	ED	BYU Center for International Business Education	10/1/2018	9/30/2022	RO132024	\$142,500	1
Marketing & Global Supply Chain								
Money, Bruce		ED	BYU Center for International Business Education	10/1/2018	9/30/2022	RO132024	\$142,500	1

Type: 1=Federal; 2=Federal Subcontract; 3=State; 4=Private/Other

Marriott School of Business

Source Breakdown

Sponsor	Number Awarded	Total Amount
Federal		
ED	2	\$285,000
Total	2	\$285,000
Grand Total	2	\$285,000

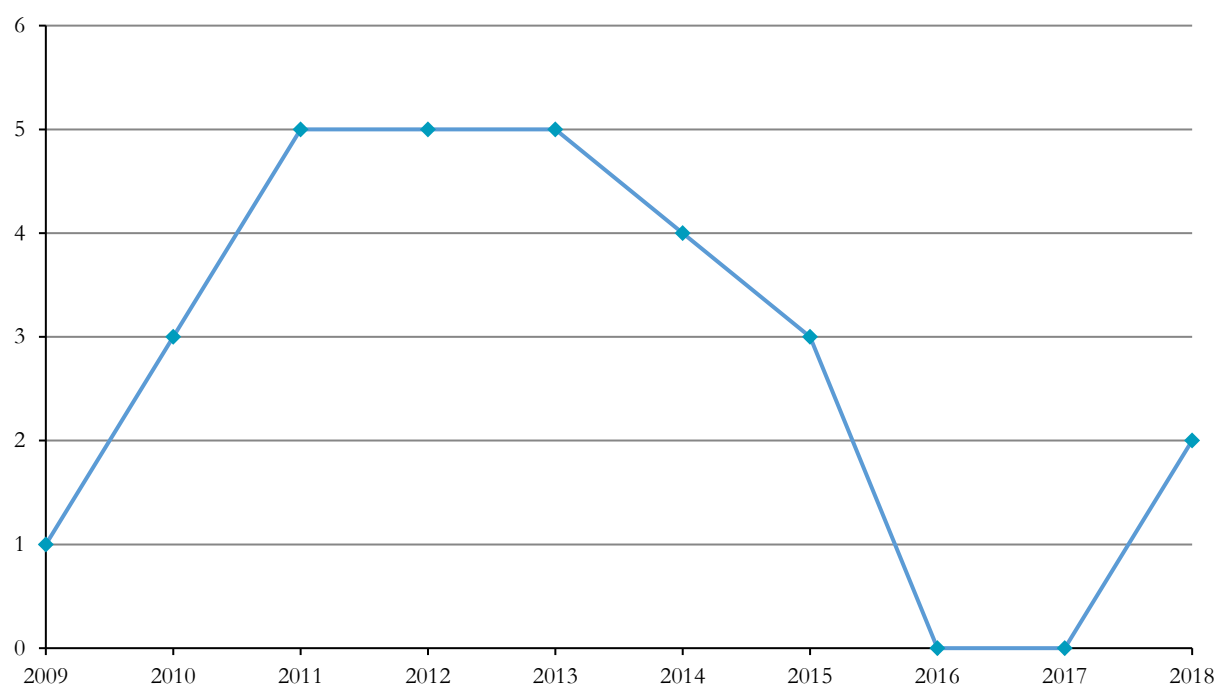


College of Nursing

Summary by Departments

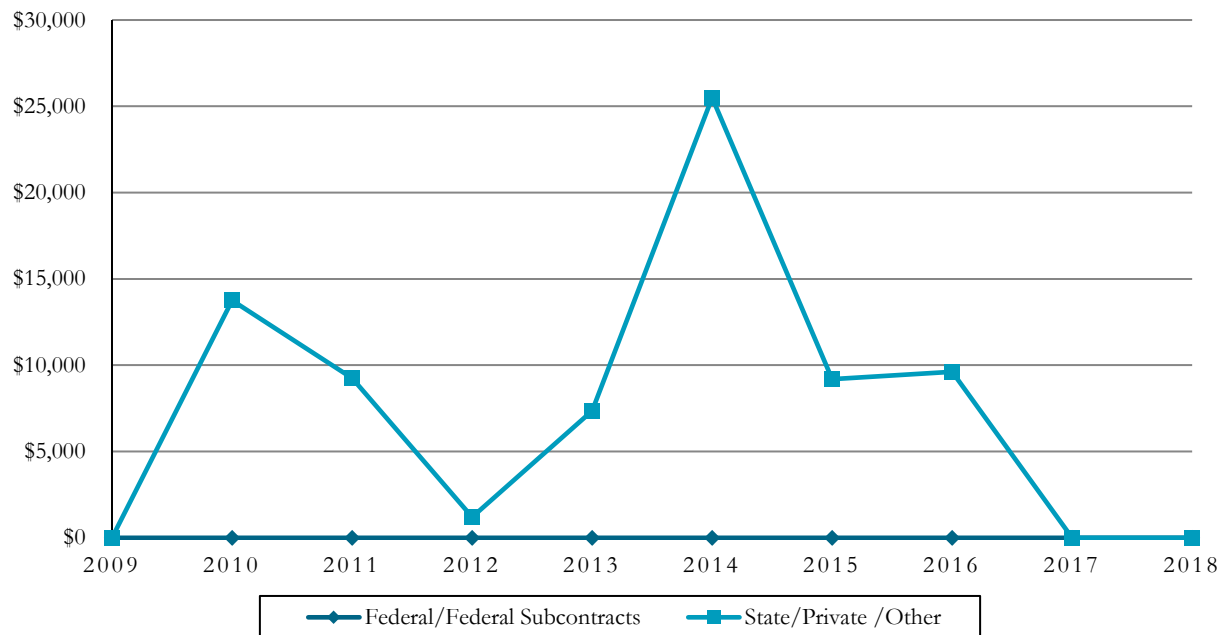
Department		# of Faculty Submitting	# of Proposals Submitted	# of Awards	Dollars Awarded
Nursing		2	2	0	\$0
	TOTALS	2	2	0	\$0

Proposal Submissions



Awards by Sources

Year	Grants/Contracts		Total
	Federal/Federal Subcontracts	State/Private /Other	
2009	\$0	\$0	\$0
2010	\$0	\$13,750	\$13,750
2011	\$0	\$9,250	\$9,250
2012	\$0	\$1,200	\$1,200
2013	\$0	\$7,350	\$7,350
2014	\$0	\$25,500	\$25,500
2015	\$0	\$9,200	\$9,200
2016	\$0	\$9,626	\$9,626
2017	\$0	\$0	\$0
2018	\$0	\$0	\$0



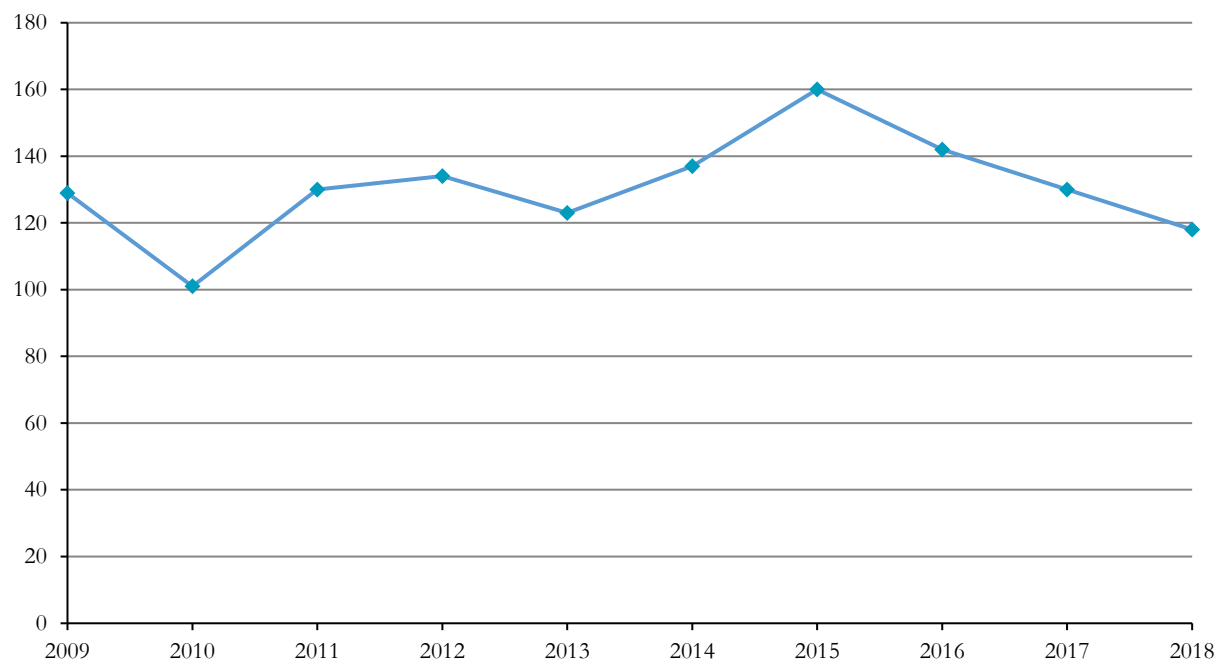


College of Physical & Mathematical Sciences

Summary by Departments

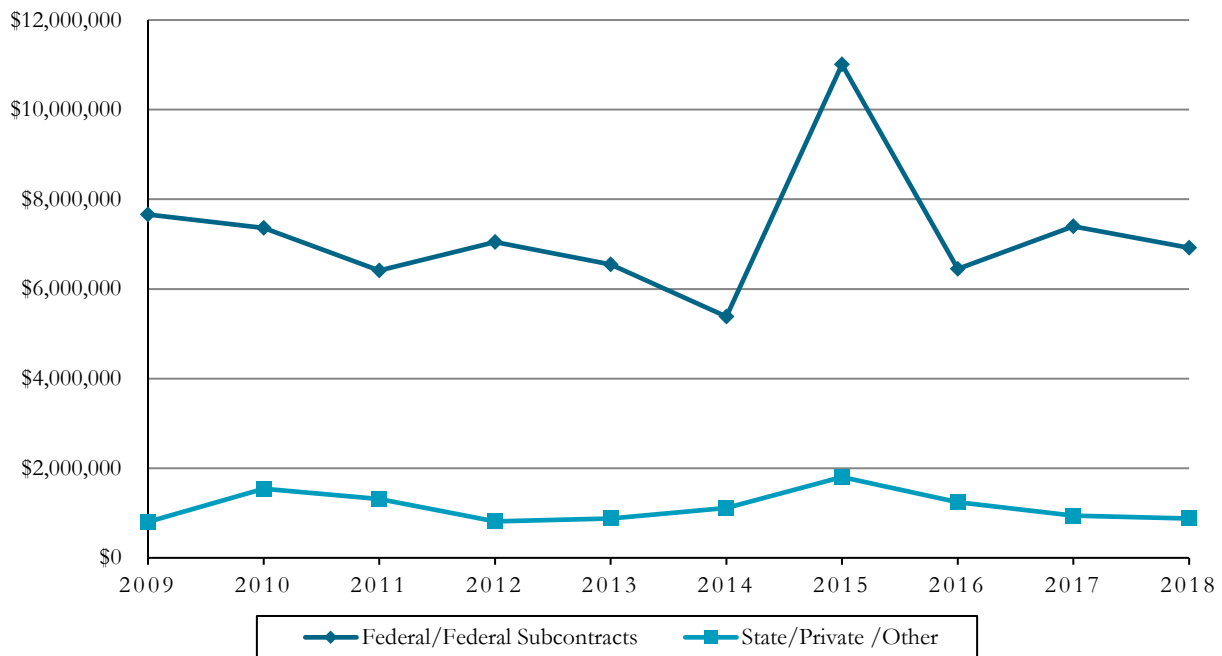
Department	# of Faculty Submitting	# of Proposals Submitted	# of Awards	Dollars Awarded
Chemistry & Biochemistry	32	46	31	\$3,375,668
Computer Science	12	13	20	\$1,477,447
Museum of Paleontology	0	0	0	\$0
Geology	9	12	6	\$223,508
Mathematics	11	15	7	\$439,633
Mathematics Education	0	0	0	\$0
Physics & Astronomy	15	26	37	\$1,999,411
Statistics	10	6	5	\$282,289
TOTALS	89	118	106	\$7,797,956

Proposal Submissions



Awards by Sources

Year	Grants/Contracts		Total
	Federal/Federal Subcontracts	State/Private /Other	
2008	\$4,711,505	\$1,501,836	\$6,213,341
2009	\$7,661,633	\$802,947	\$8,464,580
2010	\$7,363,938	\$1,545,052	\$8,908,990
2011	\$6,410,182	\$1,313,108	\$7,723,290
2012	\$7,049,532	\$813,628	\$7,963,160
2013	\$6,548,760	\$878,540	\$7,408,208
2014	\$5,382,972	\$1,113,596	\$6,496,568
2015	\$11,009,182	\$1,803,190	\$12,812,372
2016	\$6,447,585	\$1,239,899	\$7,687,484
2017	\$7,399,801	\$944,244	\$8,344,045
2018	\$6,919,640	\$878,316	\$7,797,956



College of Physical & Mathematical Sciences 2018 Awards

<u>PI</u>	<u>Co-PI</u>	<u>Sponsor</u>	<u>Title</u>	<u>Beg Date</u>	<u>End Date</u>	<u>Account</u>	<u>Amount</u>	<u>Type</u>
<i>Chemistry & Biochemistry</i>								
Austin, Daniel		NASA	A Circuit Board Charge Detector for Characterization of Martian Dust	8/21/2017	8/20/2020	R0162030	\$68,251	1
Castle, Steven		DHHS NIH	Bulky Dehydroamino Acids as Constraining and Stabilizing Components of Peptides [Goes with R0102077]	8/1/2016	7/31/2018	R0102085	\$67,295	1
Ess, Daniel		NSF	Chemistry and Biochemistry REU Site to Prepare Students for Graduate School and an Industrial Career - OTHER EXP	5/1/2018	4/30/2021	R0112375	\$17,250	1
Ess, Daniel		DHHS NIH Rice	AsymetricN-H/N-alkyl olefin aziridinations and ring-opening transformations	6/1/2015	3/31/2019	R0302615	\$26,474	2
Ess, Daniel		DOE	Theory of Main-Group, p-block Hydrocarbon Functionalization Reactions	9/15/2017	9/14/2019	R0202502	\$63,094	1
Ess, Daniel		NSF	Chemistry and Biochemistry REU Site to Prepare Students for Graduate School and an Industrial Career	5/1/2018	4/30/2021	R0112374	\$93,400	1
Ess, Daniel		Chevron Phillips	Optimization of homogeneous Alpha Olefin Catalysts	#####	12/31/2019	R0602446	\$150,000	4
Ess, Daniel		NSF	Theory and Design of Transition-Metal Dinuclear Catalysts	9/1/2018	8/31/2021	R0112381	\$234,205	1
Hansen, Jaron		UDAQ USU	Wasatch Front Ammonia and Chloride Observations	7/1/2018	11/30/2019	R0402326	\$10,000	3
Hansen, Jaron		Verde LLC	Biological Pretreatment of Biomass for Enhanced Biogas Production	3/1/2018	12/31/2019	R0602536	\$15,000	4
Hansen, Jaron		Verde LLC	Biological Pretreatment of Biomass for Enhanced Biogas Production	1/16/2017	12/31/2019	R0602536	\$15,000	4
Hansen, Jaron		UT DEQ DAQ UofU	Bountiful City Dichloromethane and Source apportionment Study	7/1/2018	12/31/2019	R0402324	\$38,809	3
Kelly, Ryan		DHHS NIH	Integration and Validation of Emerging Technologies to Accelerate Cancer Research (R33)	8/1/2018	8/31/2020	R0102089	\$1,069,572	1
Linford, Matt		NASA UofU	Expanding the Range of Aluminum-coated mirrors into the LUV (Lyman UV) for Space-based Observations	4/10/2018	4/9/2019	R0302791	\$12,500	2
Linford, Matt		Corning	Glass Surface Functional Group and Composition Analysis Methods	4/1/2015	12/31/2018	R0602472	\$35,000	4

Linford, Matt		Restek	Development of SPME Methods and Procedures with Novel SPME Fibers	6/1/2015	12/31/2018	Ro602480	\$60,000	4
Sansom, Rebecca	w/ Ess, Daniel	NSF	Chemistry and Biochemistry REU Site to Prepare Students for Graduate School and an Industrial Career	5/1/2018	4/30/2021	Ro112374	\$93,400	1
Sansom, Rebecca	w/ Ess, Daniel	NSF	Chemistry and Biochemistry REU Site to Prepare Students for Graduate School and an Industrial Career - OTHER EXP	5/1/2018	4/30/2021	Ro112375	\$17,250	1
Savage, Paul		N8 Medical	Royalty Payments	5/12/2004	12/31/2018	Ro802005	\$12,500	4
Savage, Paul		N8 Medical	Royalty Payments	5/12/2004	12/31/2018	Ro802005	\$12,500	4
Savage, Paul		N8 Medical	Royalty Payments	5/12/2004	12/31/2018	Ro802005	\$12,500	4
Savage, Paul		DHHS NIH TSRI	Development of the Next Generation of Conjugate Vaccines	7/25/2018	6/30/2019	Ro302803	\$165,000	2
Stowers, Kara	w/ Ess, Daniel	NSF	Chemistry and Biochemistry REU Site to Prepare Students for Graduate School and an Industrial Career - OTHER EXP	5/1/2018	4/30/2021	Ro112375	\$17,250	1
Stowers, Kara	w/ Ess, Daniel	NSF	Chemistry and Biochemistry REU Site to Prepare Students for Graduate School and an Industrial Career	5/1/2018	4/30/2021	Ro112374	\$93,400	1
Van Ry, Pam		UW	Studies of AvB6 integrin binders in rodent models of idiopathic pulmonary fibrosis	8/9/2018	12/31/2019	Ro802043	\$57,500	4
Willardson, Barry		DHHS NIH	Mechanisms of Assembly of Photoreceptor G Protein Complexes	5/3/1999	12/31/2019	Ro102053	\$34,800	1
Willardson, Barry		Beckman Foundation	2017 Beckman Scholars Program	5/1/2017	4/30/2020	Ro502244	\$52,000	4
Willardson, Barry		DHHS NIH	Mechanisms of Assembly of Photoreceptor G Protein Complexes	1/1/2018	12/31/2018	Ro102053	\$313,200	1
Woodfield, Brian		DOE	The Energetics and Dynamics of Flexible Frameworks and Molecular Confinement	8/15/2016	8/14/2019	Ro202469	\$181,257	1
Woolley, Adam	w/ Hawkins, Aaron	DHHS NIH	Multiplexed, Non-Amplified, Nucleic Acid-Based Identification of Multidrug Pathogens Using an Integrated Optofluidic Platform	3/1/2015	2/28/2019	Ro102068	\$247,127	1
Woolley, Adam		DHHS NIH	3D-Printed Integrated Microfluidic Devices for Preterm Birth Biomarker Analysis	9/18/2018	6/30/2022	Ro102090	\$90,134	1
Computer Science								
Clement, Mark	w/ Bybee, Seth	NSF	RET: Phylogenomics, revisionary systematics, and evolution of the visual sutems in dragonflies and damselflies (Insecta: Ononata)	2/9/2018	1/31/2019	Ro112304	\$3,750	1
Clement, Mark	w/ Bybee, Seth	NSF	REU: Phylogenomics, revisionary systematics, and evolution of the visual sutems	2/9/2018	1/31/2019	Ro112275	\$3,942	1

			in dragonflies and damselflies (Insecta: Ononata)					
Crandall, Jacob		DOD ONR Carnegie	Human-Machine SUCCESS: Self-Assessment and Understanding of Competence and Conditions to Ensure Shared Success	6/1/2018	5/31/2019	R0302806	\$189,279	2
Farrell, Ryan	w/ Goodrich, Michael	DOD ARL RCTA General Dynamics	Information-Based Soldier- Robot Interaction	1/1/2017	8/31/2018	R0302748	\$17,789	2
Farrell, Ryan		SRI Intenrational	FGVC5 Computer Vision Workshop	6/4/2018	6/31/2018	R0602572	\$1,000	4
Farrell, Ryan		Xingse	FGVC5 Computer Vision Workshop	6/12/2018	6/31/2018	R0602571	\$2,500	4
Farrell, Ryan		Google Inc.	FGVC5 Computer Vision WORKSHOP - 2018	4/1/2018	7/31/2018	R0602566	\$5,000	4
Farrell, Ryan		Microsoft	FGVC5 Computer Vision Workshop - 2018	3/8/2018	8/31/2018	R0602565	\$5,000	4
Giraud-Carrier, Christophe	w/ Snell, Quinn	DHHS SAMHSA Utah County Dept of Drug/Alcohol DOD ARL	Drug-free Communities	3/13/2018	9/30/2018	R0302787	\$1,127	2
Goodrich, Michael		RCTA General Dynamics	Information-Based Soldier- Robot Interaction	1/1/2017	8/31/2018	R0302748	\$17,790	2
Goodrich, Michael	w/ Crandall, Jacob	DOD ONR Carnegie	Human-Machine SUCCESS: Self-Assessment and Understanding of Competence and Conditions to Ensure Shared Success	6/1/2018	5/31/2019	R0302806	\$189,278	2
Goodrich, Michael		DOD ONR	Swarms, Colonies, and Human Organizations: Towards a Science of Managed Bio- Inspired Collectives	9/1/2016	8/31/2019	R0202479	\$270,000	1
Mercer, Eric		Google Inc.	Google Summer of Code JPF Workshop	10/1/2018	9/30/2019	R0602578	\$4,700	4
Seamons, Kent		DOE Sandia National Labs	Suitability Analysis of Two- Factor Authentication, Key Management, and Secure Protocols	5/9/2018	9/30/2018	R0202508	\$30,000	1
Seamons, Kent		NSF	SaT: CORE: Small: Usable Key Management and Forward Secrecy for Secure Email	7/20/2018	8/31/2021	R0112391	\$249,108	1
Seppi, Kevin		NSF	REU for NSF R0112264 Closing the User-Model Loop for Understanding Topics in Large Document Collections	7/12/2018	7.31.2019	R0112394	\$8,000	1
Seppi, Kevin		DOD DARPA	Second-generation Metalearning for Data-driven Discovery of Models	3/21/2017	3/20/2021	R0202486	\$132,435	1
Snell, Quinn		DHHS SAMHSA Utah County Dept of Drug/Alcohol	Drug-free Communities	3/13/2018	9/30/2018	R0302787	\$1,130	2
Wingate, David		NSF	CAREER: Blending Deep RL & Probabilistic Programming	3/1/2017	2/28/2022	R0112338	\$96,512	1
Zappala, Daniel	w/ Seamons, Kent	NSF	SaT: CORE: Small: Usable Key Management and Forward Secrecy for Secure Email	7/20/2018	8/31/2021	R0112391	\$249,107	1

Geology

Carling, Greg		South Davis Sewer District	Characterizing nutrient fluxes and Fe-P dynamics in Utah Lake sediment	10/29/2015	3/1/2019	R0492047	\$30,300	3
Harris, Ron		Society of Exploration Geophysicist SEG (Geoscientists w/o Borders, GWB)	Building Resilience to Seismic Hazards in Indonesia: Training in Mlti-Channel Analysis of Surface Waves (MASW) and Implementing seismic Disaster Mitigation Strategies	5/1/2018	7/1/2020	R0502273	\$22,500	4
Hudson, Sam		Wexpro Company	Crestaceous Almond Formation	5/19/2017	7/31/2020	R0602549	\$24,000	4
McBride, John	w/ Harris, Ron	Society of Exploration Geophysicist SEG (Geoscientists w/o Borders, GWB)	Building Resilience to Seismic Hazards in Indonesia: Training in Mlti-Channel Analysis of Surface Waves (MASW) and Implementing seismic Disaster Mitigation Strategies	5/1/2018	7/1/2020	R0502273	\$22,500	4
Nelson, Stephen		South Davis Sewer District	Farmington Bay Sediment Coring	7/1/2018	12/31/2019	R0492048	\$58,147	3
Nelson, Stephen		NSF NJH	Unearthing interacting nontuberculous mycobacterial, environmental, and host determinants of lung disease in the Hawai'I Islands	7/15/2017	6/30/2021	R0302768	\$66,061	2

Mathematics

Dorff, Michael		NSF MAA	Preparing Mathematical Science Students for Business, Industry, and Government Career (Pre-BIG)	10/1/2013	3/31/2018	R0302537	\$10,828	2
Dorff, Michael		NSF MAA	PIC Math: Preparation for Industrial Careers in the Mathematical Sciences	8/1/2017	7/31/2021	R0302780	\$195,205	2
Fisher, Todd		Simons Foundation	Topological Pressure and Equilibrium States for Smooth Dynamical Systems	9/1/2018	8/31/2023	R0502274	\$8,400	4
Forcade, Rodney	w/ Hart, Gus	DOD ONR Duke	Topological Decompositions and Spectral Sampling Algorithms for Element Substitution in Critical Technologies	7/13/2013	9/30/2019	R0302530	\$200,000	2
Kent, Curtis		Simons Foundation	Topology of Coarse Geometry Structures	9/1/2018	8/31/2023	R0502275	\$8,400	4
Priddis, Nathan		Simons Foundation	Mirror Symmetry and the Landau-Ginzburg/Calabi-Yau Correspondence	9/1/2018	8/31/2023	R0502276	\$8,400	4
Whitehead, Jared		Simons Foundation	Analysis and Computation f Geophysical Fluid Dynamics	9/1/2018	8/31/2023	R0502277	\$8,400	4

Physics & Astronomy

Allred, David	w/ Linford, Matthew	NASA UofU	Expanding the Range of Aluminum-coated mirrors into the LUV (Lyman UV) for Space-based Observations	4/10/2018	4/9/2019	R0302791	\$12,500	2
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Allred, David		NSF ASU WAESO	Novel Fluoride Bilayers as Reflections for the Lyman UV	5/1/2018	9/30/2018	R0302804	\$450	2
Bergeson, Scott		DOD AFOSR	Laser-cooled ions in hybrid optical/electrical traps for studying collision physics in strongly coupled plasmas	7/15/2017	7/14/2020	R0202499	\$105,704	1
Colton, John	w/ Vanhuele, Jean Francois	NSF	REU Site: Physics Research at BYU	7/1/2018	6/30/2021	R0112383	\$10,382	1
Colton, John	w/ Vanhuele, Jean Francois	NSF	REU Site: Physics Research at BYU: Participant Costs	7/1/2018	6/30/2021	R0112384	\$52,550	1
Gee, Kent	w/ Transtrum, Mark	DOD ARC BRRC	Geospatial Acoustics Tool, Phase I Option	6/19/2017	6/29/2018	R0302737	\$8,008	2
Gee, Kent	w/ Transtrum, Mark	DOD Army BRRC	Acoustic Background Noise Analysis for Mission Planning and Community Noise	12/13/2018	9/25/2020	R0302825	\$40,000	2
Gee, Kent		DOT FAA ACRP BRRC	Commercial Space Operations Noise and Sonic Boom Measurements	8/7/2017	5/31/2019	R0302752	\$20,000	2
Gee, Kent		DOT FAA ACRP BRRC	Commercial Space Operations Noise and Sonic Boom Measurements	8/7/2017	5/31/2019	R0302752	\$20,000	2
Gee, Kent		Zodiac Waste and Water Systems	Phase III: Revolution Toilet Noise Reduction	1/25/2018	12/31/2018	R0602563	\$32,168	4
Gee, Kent		DOD USACE BRRC	Noise and Advanced Acoustic Modeling: AICUZ Studies and Noisemap Enhancements	12/10/2018	9/29/2019	R0302830	\$40,496	2
Gee, Kent		DOD AFRL BRRC	Connecting High-Power Jet Noise Characteristics with Human Annoyance	9/15/2016	12/15/2018	R0302692	\$50,000	2
Gee, Kent		NASA NIA	Development of a Weather- Robust Ground-Based System for Sonic Boom Measurements	6/1/2018	11/30/2019	R0302801	\$81,786	2
Hart, Gus		DOD ONR Duke	Topological Decompositions and Spectral Sampling Algorithms for Element Substitution in Critical Technologies	7/13/2013	9/30/2019	R0302530	\$200,000	2
Hintz, Eric		NASA UofU	First Hand Knowledge of Exoplanets and the Stars they Orbit	4/10/2018	4/9/2019	R0302790	\$6,223	2
Hirschmann, Eric	w/ Neilsen, David	NSF	Collaborative Research: Compact Binary Mergers in the Advanced LIGO Era	9/1/2016	8/31/2019	R0112316	\$47,325	1
Joner, Michael	w/ Hintz, Eric	NASA UofU	First Hand Knowledge of Exoplanets and the Stars they Orbit	4/10/2018	4/9/2019	R0302790	\$6,220	2
Merrell, Duane		NASA UofU	Jack Horner Dinosaur Symposium	4/10/2018	4/9/2019	R0302792	\$5,000	2
Neilsen, David		NSF	Collaborative Research: Compact Binary Mergers in the Advanced LIGO Era	9/1/2016	8/31/2019	R0112316	\$47,325	1
Neilsen, Tracianne	w/ Gee, Kent	DOD AFRL BRRC	Connecting High-Power Jet Noise Characteristics with Human Annoyance	9/15/2016	12/15/2018	R0302692	\$50,000	2

Ragozzine, Darin	w/ Hintz, Eric	NASA UofU	First Hand Knowledge of Exoplanets and the Stars they Orbit	4/10/2018	4/9/2019	R0302790	\$6,220	2
Ragozzine, Darin		NASA	AMES COOP: Architectures of Multi Planet Systems	5/15/2018	1/14/2020	R0162034	\$21,581	1
Ragozzine, Darin		STScI	HST-15460.002: The Orbit of the Newly Discovered Satellite around the Dwarf Planet 2013 FY27	8/1/2018	7/31/2021	R0302813	\$21,998	2
Ragozzine, Darin		NASA	Homogeneous Analysis of Kepler's Multiply-Transiting Systems	1/19/2018	1/18/2021	R0162033	\$42,724	1
Ragozzine, Darin		NASA	Homogeneous Analysis of Kepler's Multiply-Transiting Systems	1/19/2018	1/18/2021	R0162033	\$42,724	1
Sommerfeldt, Scott	w/ Gee, Kent	Zodiac Waste and Water Systems	Phase III: Revolution Toilet Noise Reduction	1/25/2018	12/31/2018	R0602563	\$32,166	4
Sommerfeldt, Scott		Caterpillar	Development of a Virtual Acoustic Simulator Incorporating Sound Quality Metrics, and Fialization of Sound Power Measurements Using Acoustic Energy Density.	1/1/2014	12/31/2018	R0602437	\$40,539	4
Stephens, Denise	w/ Hintz, Eric	NASA UofU	First Hand Knowledge of Exoplanets and the Stars they Orbit	4/10/2018	4/9/2019	R0302790	\$6,220	2
Transtrum, Mark		DOD ARC BRRC	Geospatial Acoustics Tool, Phase I Option	6/19/2017	6/29/2018	R0302737	\$8,008	2
Transtrum, Mark		DOD Army BRRC	Acoustic Background Noise Analysis for Mission Planning and Community Noise	12/13/2018	9/25/2020	R0302825	\$40,000	2
Transtrum, Mark		NSF Cornell	Center for Bright Beams	10/1/2016	9/30/2019	R0302718	\$53,900	2
Transtrum, Mark		NSF	CAREER: Connecting Mathematical Models Across Scales	4/15/2018	3/31/2023	R0112376	\$234,000	1
Transtrum, Mark		NSF	Collaborative Research: Reliable Materials Simulation Based on the Knowledgebase of Iteratomic Potentials (KIM)	10/1/2018	9/30/2022	R0112397	\$283,929	1
Turley, Steven		NSF	Intergovernmental Personnel ACT (IPA) Assignment	1/2/2018	1/1/2019	R0112373	\$265,883	1
Van Huele, Jean-Francois		NSF ASU WAESO	Quantum Transformations for Quantum Dynamics Representations	5/1/2018	9/30/2018	R0302805	\$450	2
Van Huele, Jean-Francois		NSF	REU Site: Physics Research at BYU	7/1/2018	6/30/2021	R0112383	\$10,382	1
Van Huele, Jean-Francois		NSF	REU Site: Physics Research at BYU: Participant Costs	7/1/2018	6/30/2021	R0112384	\$52,550	1
Statistics								
Page, Garritt		BCAM	Clustering Derivative Curves	5/23/2018	7/12/2018	R0570021	\$6,725	4
Reese, Shane		NASA UofU	Bayesian quantification of Antarctic surface mass balance	5/2/2016	5/1/2019	R0302675	\$35,301	2

Reese, Shane		NASA UofU	Bayesian quantification of Antarctic surface mass balance	5/1/2017	5/1/2019	Ro302675	\$63,468	2
Tolley, Dennis	w/ Iverson, Brian	Perkin Elmer	Compact Next-generation GC and MS Instrumentation	6/1/2015	12/31/2018	Ro602482	\$86,662	4
Tolley, Dennis	w/ Woolley, Adam	DHHS NIH	3D-Printed Integrated Microfluidic Devices for Preterm Birth Biomarker Analysis	9/18/2018	6/30/2022	Ro102090	\$90,133	1

Type: 1=Federal; 2=Federal Subcontract; 3=State; 4=Private/Other

College of Physical & Mathematical Sciences Source Breakdown

Sponsor	Number Awarded	Amount
Federal		
DHHS NIH	7	\$1,912,261
DOD AFOSR	1	\$105,704
DOD DARPA	1	\$132,435
DOD ONR	1	\$270,000
DOE	2	\$244,351
DOE Sandia National Labs	1	\$30,000
NASA	3	\$132,556
NASA NSSC	1	\$42,724
NSF	22	\$2,180,900
Total	39	\$5,050,931
Federal Subcontract		
DHHS NIH Rice	1	\$26,474
DHHS NIH TSRI	1	\$165,000
DOD AFRL BRRC	2	\$100,000
DOD ARC BRRC	2	\$16,016
DOD ARL RCTA General Dynamics	2	\$35,579
DOD Army BRRC	2	\$80,000
DOD ONR Carnegie	2	\$378,557
DOD ONR Duke	2	\$400,000
DOD USACE BRRC	1	\$40,496
DOT FAA ACRP BRRC	2	\$40,000
NASA NIA	1	\$81,786
NASA STScl	1	\$21,998
NASA UofU	9	\$153,652
NSF ASU WAESO	2	\$900
NSF Cornell	1	\$53,900
NSF MAA	2	\$206,033
NSF NJH	1	\$66,061
DHHS SAMHSA Utah County Dept of Drug/Alcohol	2	\$2,257
Total	36	\$1,868,709
State		
South Davis Sewer District	2	\$88,447

UDAQ USU	1	\$10,000
UT DEQ DAQ UofU	1	\$38,809
Total	4	\$137,256
Private/Other		
BCAM	1	\$6,725
Beckman Foundation	1	\$52,000
Caterpillar	1	\$40,539
Chevron Phillips	1	\$150,000
Corning	1	\$35,000
Google Inc.	2	\$9,700
Microsoft	1	\$5,000
N8 Medical	3	\$37,500
Perkin Elmer	1	\$86,662
Restek	1	\$60,000
Simons Foundation	4	\$33,600
Society of Exploration Geophysicist	2	\$45,000
SEG (Geoscientists w/o Borders, GWB)		
SRI International	1	\$1,000
UW	1	\$57,500
Verde LLC	2	\$30,000
Wexpro Company	1	\$24,000
Xingse	1	\$2,500
Zodiac Waste and Water Systems	2	\$64,334
Total	27	\$741,060
Grand Total	106	\$7,797,956

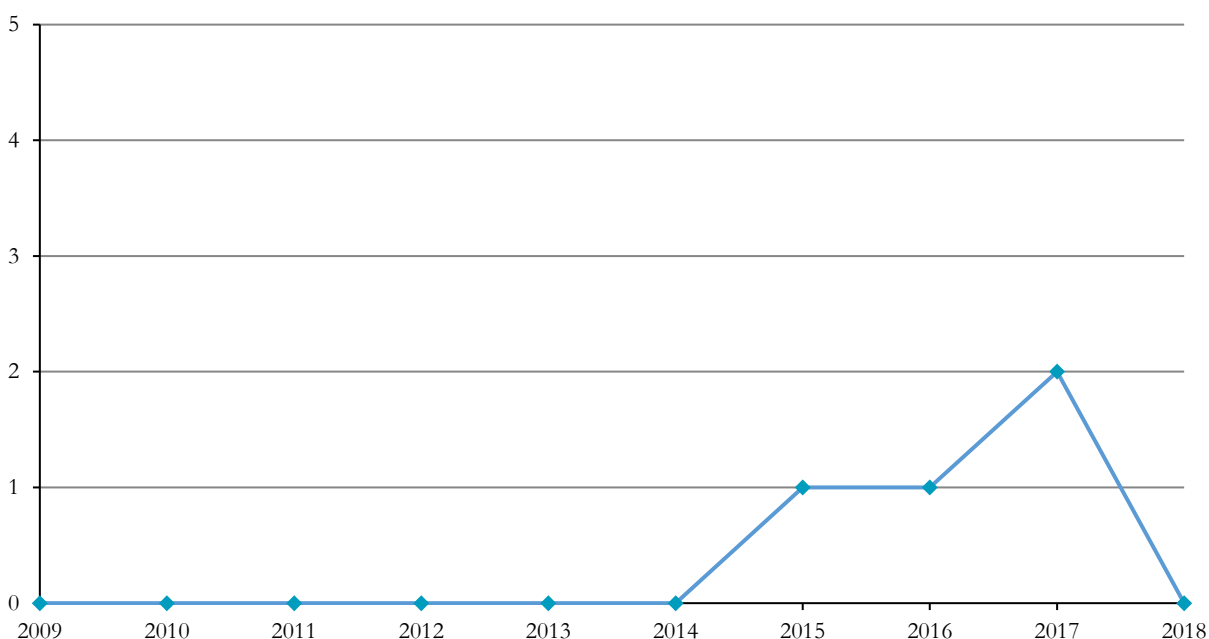


Religious Education

Summary by Departments

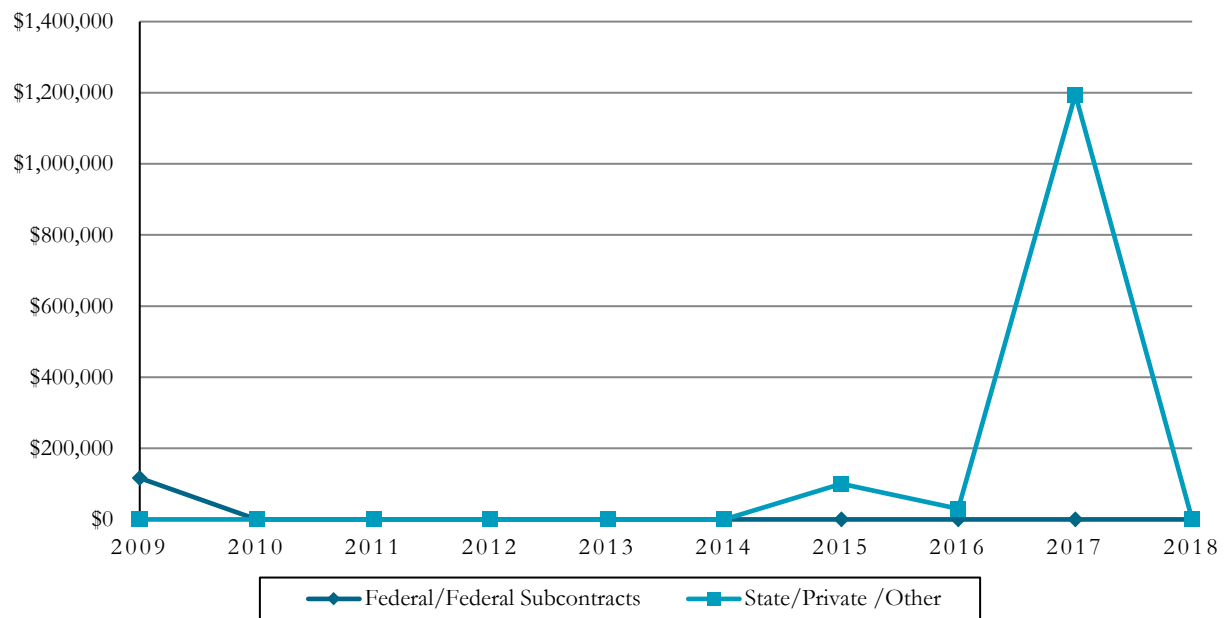
Department	# of Faculty Submitting	# of Proposals Submitted	# of Awards	Dollars Awarded
Ancient Scripture	0	0	0	\$0
Church History & Doctrine	0	0	0	\$0
<i>TOTALS</i>	0	0	0	\$0

Proposal Submissions



Awards by Sources

Year	Grants/Contracts		Total
	Federal/Federal Subcontracts	State/Private /Other	
2008	\$0	\$0	\$0
2009	\$116,385	\$0	\$116,385
2010	\$0	\$0	\$0
2011	\$0	\$0	\$0
2012	\$0	\$0	\$0
2013	\$0	\$0	\$0
2014	\$0	\$0	\$0
2015	\$0	\$100,000	\$100,000
2016	\$0	\$30,000	\$30,000
2017	\$0	\$1,194,811	\$1,194,811
2018	\$0	\$0	\$0



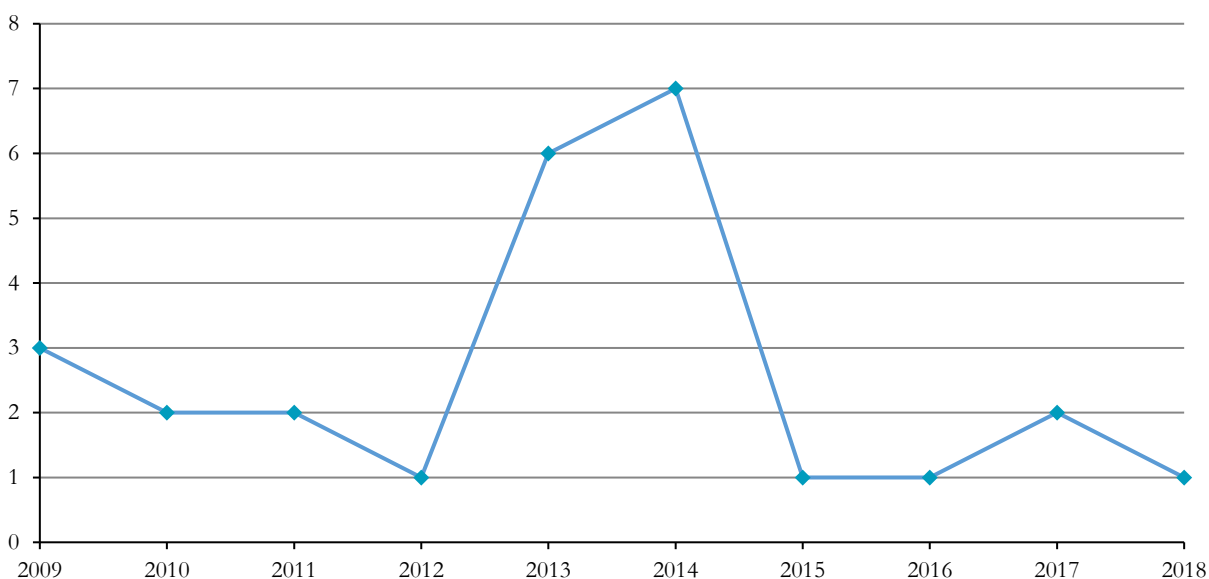


Non-College Units

Summary by Units

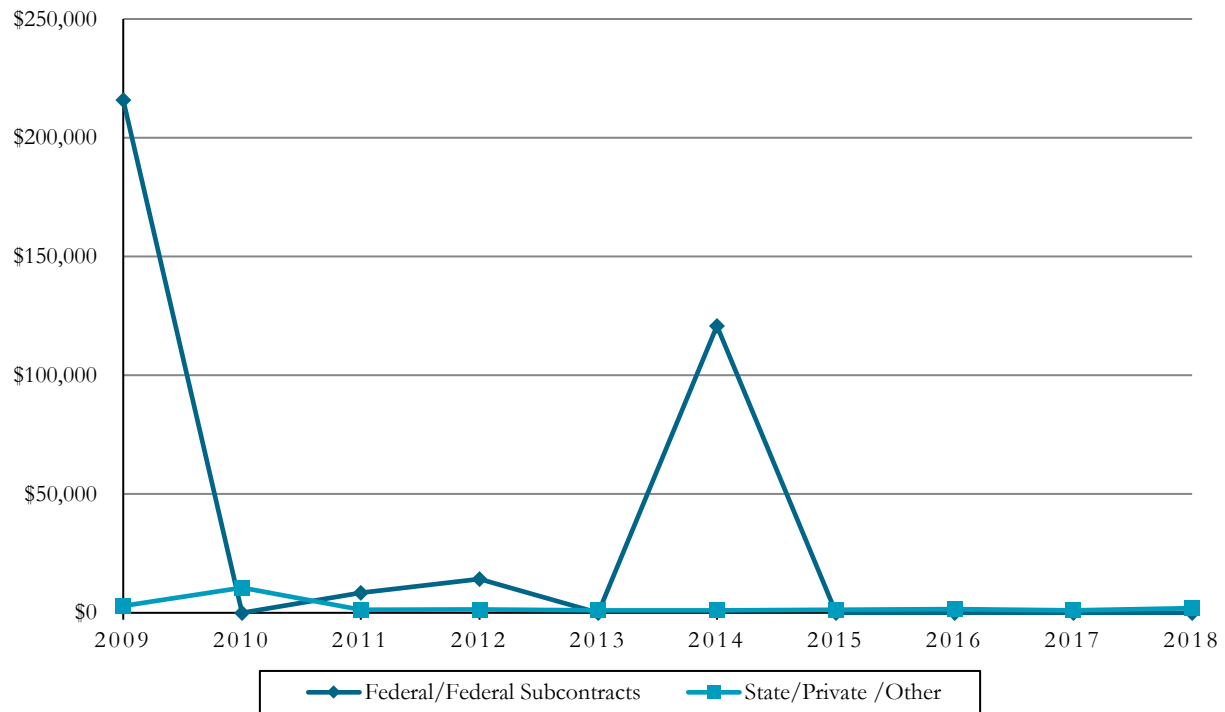
Department	# of Proposals Submitted	# of Awards	Dollars Awarded
Harold B. Lee Library	1	1	\$935
Office of Research & Creative Activities	0	3	\$1,027
TOTALS	1	4	\$1,962

Proposal Submissions



Awards by Sources

Year	Grants/Contracts		Total
	Federal/Federal Subcontracts	State/Private /Other	
2009	\$215,853	\$2,849	\$218,702
2010	\$0	\$10,584	\$10,584
2011	\$8,500	\$1,335	\$9,835
2012	\$14,281	\$1,380	\$15,661
2013	\$0	\$1,047	\$1,047
2014	\$120,816	\$1,066	\$121,816
2015	\$0	\$1,300	\$1,300
2016	\$0	\$1,588	\$1,588
2017	\$0	\$1,045	\$1,045
2018	\$0	\$1,962	\$1,962



Non-College Units

2018 Awards

<u>PI</u>	<u>Co-PI</u>	<u>Sponsor</u>	<u>Title</u>	<u>Beg Date</u>	<u>End Date</u>	<u>Account</u>	<u>Amount</u>	<u>Type</u>
Harold B. Lee Library								
Nimer, Cory		UDHA DSH	Brigham Young University and the Great War	7/1/2017	6/30/2018	R0402313	\$935	3
Office of Research & Creative Activities								
Garrett, Sandra		Lost Paws	Vet Practicum	1/1/2007	12/31/2019	R0602182	\$42	4
Garrett, Sandra		Lost Paws	Vet Practicum	1/1/2007	12/31/2019	R0602182	\$146	4
Garrett, Sandra		Lost Paws	Vet Practicum	1/1/2007	12/31/2019	R0602182	\$839	4

Type: 1=Federal; 2=Federal Subcontract; 3=State; 4=Private/Other

Non-College Units

Source Breakdown

Sponsor	Number Awarded	Total Amount
State		
UDHA DSH	1	\$935
Total	1	\$935
Private/Other		
Lost Paws	3	\$1,027
Total	3	\$1,027
Grand Total	4	\$1,962



Compliance Committees

There are a number of federal, states, and university regulations which are intended to ensure the safety and well-being of those associated with research and creative activities at academic institutions.¹ The Office of Research and Creative Activities specifically supports three university committees and provides other certifications as needed. This page contains a record of official actions taken by these committees during the January 2018 through December 2018 time period. In addition to those official actions, the committee—their individual chairs and members—and the staff of ORCA actively reviewed facilities developed and updated policy, and education the university research community on pertinent issues. The following is a brief description of each committee.

The Institutional Review Board (IRB) determines that risks to human subjects involved in research are “minimized by appropriate safeguards; that risks are reasonable in relation to anticipated benefits; informed consent is sought from subjects and documented; and that selection of subjects is equitable and guided by consideration for appropriate safeguards for any subjects likely to be vulnerable to undue influences” (Federal Regulations).

At BYU, all research (funded or unfunded) must meet the guidelines and be appropriately reviewed and approved. Since regulations encompass everything from interviews and questionnaires to medical practices, faculty and students should work closely with this committee. There were 518 new projects reviewed by the IRB during the 2018 year. There were also approximately 322 re-reviews and other administrative actions.

The Institutional Animal Care and Use Committee (IACUC) is required by federal regulation and is intended to ensure appropriate housing, care, and humane treatment of animals used in research or other academic activities. It formally approves the maintenance of all such animals for research projects and also reviews any use of laboratory animals on campus. ORCA supports this committee and maintains the university’s “Assurance” status with federal agencies. The “Assurance” document is actually a way of accrediting BYU to maintain and work with laboratory animals. There were 25 new projects reviewed by the IACUC during the 2018 year.

The Institutional BioSafety Committee (IBC) supervises the use of recombinant DNA and other biological safety and hazard issues at BYU. Such use might involve constructing and handling DNA molecules in organisms. The Institutional BioSafety Committee must review all proposed experiments and approve such in advance of actual work. As with the other committees listed above, IBC has jurisdiction over any recombinant DNA experiments on campus—be they a part of funded or unfunded research or part of instructional activities. There were 16 new projects reviewed by the IBC during the 2018 year.

¹ Appendix 2 contains a list illustrating the number and kind of regulations with which we must comply.



Faculty & Student Recognition

Faculty Recognition

Each year the Office of Research and Creative Activities honors one or more faculty who have furthered the progress of research at BYU. Their accomplishments may be in development of their own sponsored research projects or in service to others in support of research.

The list below includes the most recent winner as well as the winners of the past three years.

<i>Year</i>	<i>Recipient</i>
2018	Tim McClain
2017	Stefinee Pinnegar
2016	Jani Radebaugh
2015	John Kauwe

2018 Mentoring Environment Grant Recipients

<u>Recipient</u>	<u>Department</u>	<u>College</u>
Blake Hansen	CP&SE	EDUC
Gerald Allen	CP&SE	EDUC
Aaron Hawkins	ECEn	E&T
Justin Giboney	TECH	E&T
Jonathan Blotter	ME	E&T
Edward Carter	COMM	FA&C
Christopher Kirwan	PSYCH	FHSS
Adam Dynes	POLISCI	FHSS
Jacob Hickman	ANTHRO	FHSS
Wendy Birmingham	PSYCH	FHSS
Cherice Montgomery	S&P	HUM
Benjamin Bikman	P&DB	LSCI
Jeffery Tessem	ND&FS	LSCI
Juan Arroyo	P&DB	LSCI
Bradford Berges	M&MB	LSCI
Roger Koide	BIO	LSCI
Seth Bybee	BIO	LSCI
Jason Kenealey	ND&FS	LSCI
Richard Gill	BIO	LSCI

Brian Hill	ED&M	MSB
Thomas Meservy	IS	MSB
Lisa Jones	MGT	MSB
Jeffrey Dotson	MKSC	MSB
Taylor Wells	IS	MSB
Taeya Howell	MGT	MSB
Michael Thomas	NURS	NURS
Julie Valentine	NURS	NURS
Jeremy Johnson	CHMBIO	P&MS
Mark Hughes	MATH	P&MS
Emily Evans	MATH	P&MS
Jared Whitehead	MATH	P&MS
Merritt Andrus	CHMBIO	P&MS
Roger Minert	CH&D	REL

2018 ORCA Grant Recipients

College	# of Students Awarded
David O. McKay School of Education	9
Ira A. Fulton College of Engineering	15
College of Family, Home, & Social Sciences	40
College of Fine Arts & Communications	18
Harold B. Lee Library	5
College of Humanities	25
J. Reuben Clark Law School	2
College of Life Sciences	33
Marriott School of Business	7
College of Nursing	7
College of Physical & Mathematical Sciences	16
Religious Education	6
TOTALS	183



Appendix 1

The Office of Research & Creative Activities

Purpose. The office exists to support students, staff, faculty, and the BYU administration in their efforts to encourage and support research, creative activities, and other expressions of academic scholarship.

Functional Organization. The office is organized to provide service to organized research and creative activities and to provide supportive leadership to such policy matters as appropriate. The office is under the direction of the Associate Academic Vice President for Research and Graduate Studies. The office has a close relationship with the Technology Transfer Office and the Creative Works Office for coordination of certain pre-award contacts, with the Grants & Contracts Accounting Office for post-award grant and contract administration, and with the Faculty Personnel Office for payment of research compensation.

Personnel.

Director: Gene Larson
Associate Director: Debbie Silversmith
IRB Administrator: Sandee Aina
Research/IBC Administrator: Susie Quartey
Research/IACUC Administrator: Jason Jay
Office Manager/IRB Secretary: Rachel Teki

University Veterinarian: Sandy Garrett
Animal Care Manager: Russ Matheson
Assistant Animal Care Manager:
Warren Bingham
Mentoring/IACUC/IBC Secretary:
Regina McCarthy

Office Functions.

- 1) Policy Review and Development
 - ◆ Monitor research accounts in conjunction with Financial Services to assure compliance with contract requirements, government regulations, and BYU policy.
 - ◆ Review and update BYU policies relative to research.
- 2) Opportunity Coordination
 - ◆ Represent the university's research program to other research organizations, funding agencies, and other universities.
 - ◆ Monitor requests for proposals and deadlines.
 - ◆ Disseminate information on funding opportunities to faculty.
 - ◆ Maintain PIVOT subscription to assist faculty in research funding searches
- 3) Proposal Preparation and Submission
 - ◆ Coordinate the preparation of large, inter-collegiate, and inter-institutional research proposals.
 - ◆ Assist with proposal budgets and processing for signatures.
 - ◆ Assist in developing process/software for budgets and forms.
 - ◆ Copy, mail, log, and file proposals.
- 4) Negotiating and Interacting with Sponsors
 - ◆ Negotiate and manage grants and contracts.
 - ◆ Interface with sponsoring agencies to maintain awareness of research funding trends.
 - ◆ Represent the university's research programs to other research organizations, funding agencies, and other universities.
- 5) Compliance with Federal and Other Requirements
 - ◆ Monitor government regulations pertaining to federal grants and contracts.
 - ◆ Work with the Inventory Office to manage government property to assure compliance with federal regulations.

- ◆ Assure compliance with reporting requirements and manage closeout documentation.
- ◆ Oversee three compliance committees and assist them through secretarial support for meetings, correspondence, and proposal approval.
- 6) Negotiating and Interfacing with Subcontractors and Independent Contractors/Consultants
 - ◆ Negotiate terms of agreement or subcontract.
 - ◆ Monitor agency regulations and BYU policy and procedures for stipulations concerning subcontracts and/or independent consultants/contractors.
 - ◆ Prepare contracts, amendments, payment documents, and initiate processing through the university.
 - ◆ Administer contractual terms between prime contractor (BYU) and subcontractors and or/consultants.
 - ◆ Educate principal investigators.
- 7) Project and Account Management (Post-Award)
 - ◆ Control assignment of account numbers and coordinate activation with Financial Services.
 - ◆ Monitor research accounts in conjunction with Financial Services to assure compliance with contract requirements, government regulations, and BYU policy.
 - ◆ Manage government property to assure compliance with federal regulations.
 - ◆ Assist Financial Services with audits of project accounts.
 - ◆ Assure compliance with reporting requirements and manage closeout documents.
 - ◆ Act as a liaison between researchers and sponsors to facilitate management of projects.
 - ◆ Administer the activities of the office dealing with the management of research contracts.
- 8) Financial Management
 - ◆ Document cost sharing approvals.
 - ◆ Compile and publish monthly and yearly financial reports.
 - ◆ Process incoming funds from sponsors.
 - ◆ Monitor university compliance with appropriate federal and state regulations.
 - ◆ Assist with completion of annual audits.
- 9) Student Mentoring Program
 - ◆ Represent the university in national, regional, and state research organizations.
 - ◆ Assist in coordinating graduate fellowships.
 - ◆ Attend the National Undergraduate Research Administration meetings.
- 10) Policy Review and Development
 - ◆ Develop policies and procedures to foster research.
 - ◆ Publish policy brochures for dissemination to campus community.
 - ◆ Update BYU policies relevant to research and creative activities in the electronic handbook.
- 11) University Negotiations/Trouble Shooting
 - ◆ Participate in DHHS indirect costs justification.
 - ◆ Review/respond to internal and external audits.
 - ◆ Direct negotiations with sponsors on problems such as termination or nonpayment of invoices.
- 12) Office Management
 - ◆ Host Annual Sponsored Research Luncheon and present Sponsored Research Award.
 - ◆ Assist in budget management and accounting of office accounts.
 - ◆ Put together an annual report of university research activities.
 - ◆ Monitor and compile Full-time Equivalency reports.
 - ◆ Type and distribute a monthly Funding Activity Report (FAR).
 - ◆ Assist in preparation of reports and paperwork.
 - ◆ Maintain ORCA website (<http://orca.byu.edu>).



Appendix 2

Compliance Obligations (As Per Federal Statute or Regulation)

The following pages list those areas where formal compliance to federal statutes and regulations is required to participate in federal funding. The full list is included to illustrate the range of possible certification or other compliance. Specific grants and contracts may involve only a subset of these compliance obligations.

Regulatory Framework

- Office of Management and Budget

 - Circular No. A-21

 - Circular No. A-110

 - Circular No. A-133

- Federal Acquisition Regulations (FAR)

- Defense Federal Acquisition Regulations (DFAR)

- Department of Energy Acquisition Regulations (DEAR)

- USAID Acquisition Regulations (AIDAR)

- HIPPA

- FFATA

- ITAR/EAR

- RCR – NSF

- E-Verify

- The Coordinated Review Process-Executive Order 12372

- Rights to Inventions Made by Nonprofit Organizations and Small Business Firms

- Compliance Information for Specific Circumstances

 - Facilities Management

 - Historic Preservation

 - Paperwork Reduction Act

Individual Rights

- Antidiscrimination

 - Civil Rights Act of 1964—Title VI

 - Employment of the Handicapped-Rehabilitation Act of 1973

 - Americans with Disabilities Act

 - Title IX—Sex Discrimination

 - Age Discrimination

 - Equal Employment Opportunity

 - Affirmative Action for Special Disabled and Vietnam Era Veterans

 - Utilization of Women-Owned Small Business

 - Utilization of Labor Surplus Area Concerns

 - Utilization of Small and Small Disadvantaged Business Concerns

Privacy

- Privacy Act of 1974

- Freedom of Information Act

- Confidentiality of Patient Records

Protection Issues

- Environmental Protection

- Clean Air Act and Clean Water Act
- Hazardous Materials
- Protection of Living Organisms
- Human Subjects Compliance
- Use of Animals in Research
- Marine Mammal Act
- Research Involving Recombinant DNA Molecules

Employee Directives

- Drug-free Workplace
- Drug-free Work Force
- Drug-free Schools and Campuses Act
- Lobbying
- Occupation Safety and Health
- David Bacon Act
- Walsh-Healey Public Contracts Act
- Service Contract Act
- Contract Work Hours and Safety Standards Act of 1962

Fraud, Waste, and Abuse

- Misconduct in Science
- Procurement Integrity
- Debarment and Suspension
- Covenant Against Contingent Fees
- Anti-Kickback Act of 1986
- Officials Not to Benefit

Specific Administrative Requirements

- General Requirements
 - Buy American Act
 - Fly American Act
 - Competition in Contracting
 - Export Administration Act and Arms Export Control Act
 - Insurance-Immunity from Tort Liability
 - Prompt Payment
 - Non-delinquency of Federal Debt
 - Certificate of Current Cost and Pricing Data
 - Acknowledgment of Federal Grant Support (Stevens Amendment)