



2016
Annual Report
Of
Sponsored Research



Office of
Research and
Creative Activities

Published by the
OFFICE of RESEARCH and CREATIVE ACTIVITIES (ORCA)
Brigham Young University

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Preface

This report covers January 1, 2016 to December 31, 2016.

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

- ***Reports of Sponsored Programs:*** Sponsored programs 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 several 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 by ORCA, the Graduate School, and some cooperative efforts involving departments, colleges, and central administration.

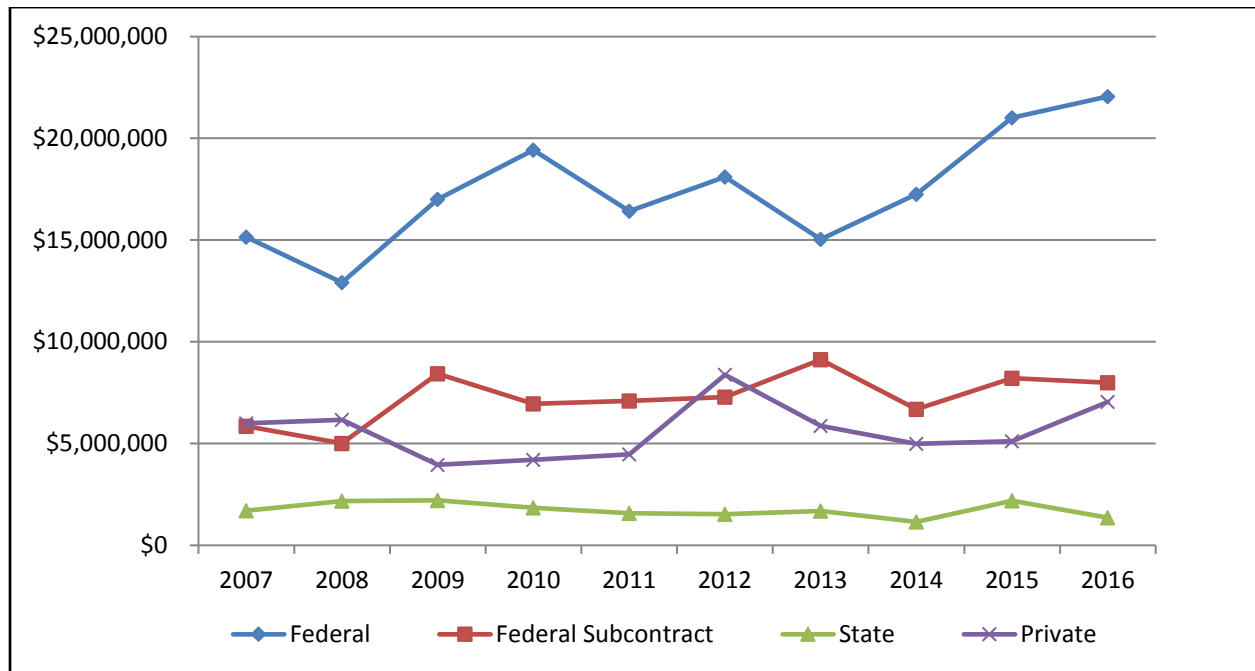
The University



O·R·C·A

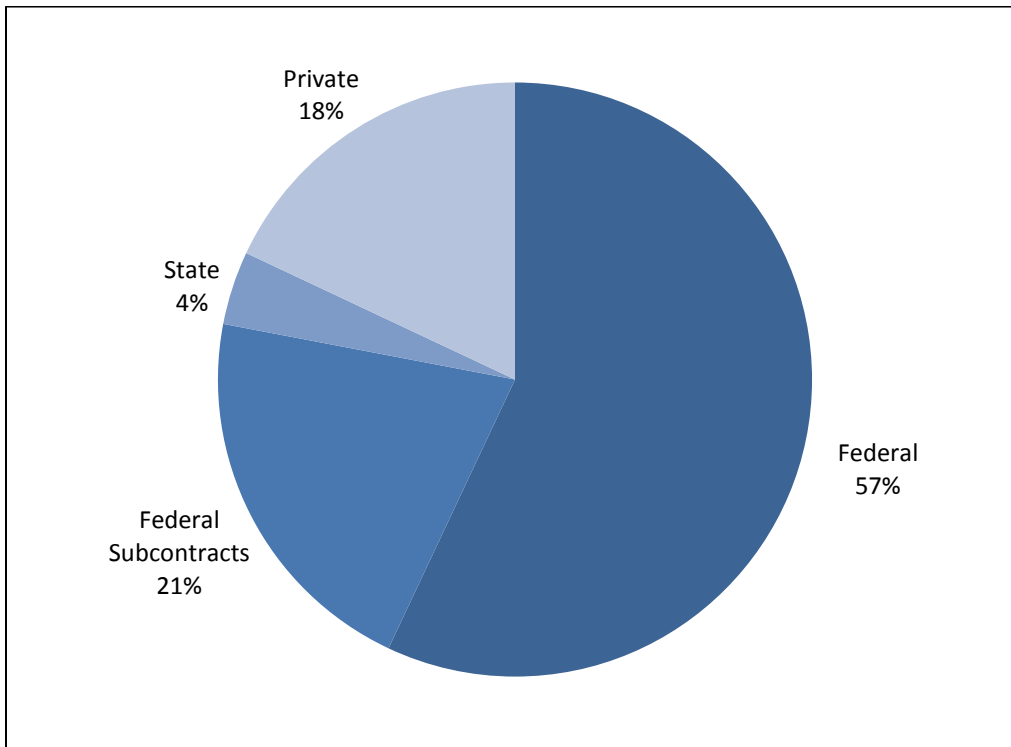
External Research Funding

Grants/Contracts						
Year	Federal	Federal Subcontract	State	Private	Total	%Federal
2007	\$15,146,329	\$5,858,590	\$1,706,455	\$5,992,229	\$28,703,602	73%
2008	\$12,914,957	\$5,012,840	\$2,179,789	\$6,169,053	\$26,276,639	68%
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	\$32,419,910	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	\$5,871,720	\$31,712,126	76%
2014	\$17,260,137	\$6,693,946	\$1,151,886	\$4,984,449	\$30,090,417	79%
2015	\$21,015,987	\$8,205,836	\$2,192,841	\$5,115,501	\$36,530,165	80%
2016	\$22,056,396	\$7,987,588	\$1,352,197	\$7,051,367	\$38,447,548	78%



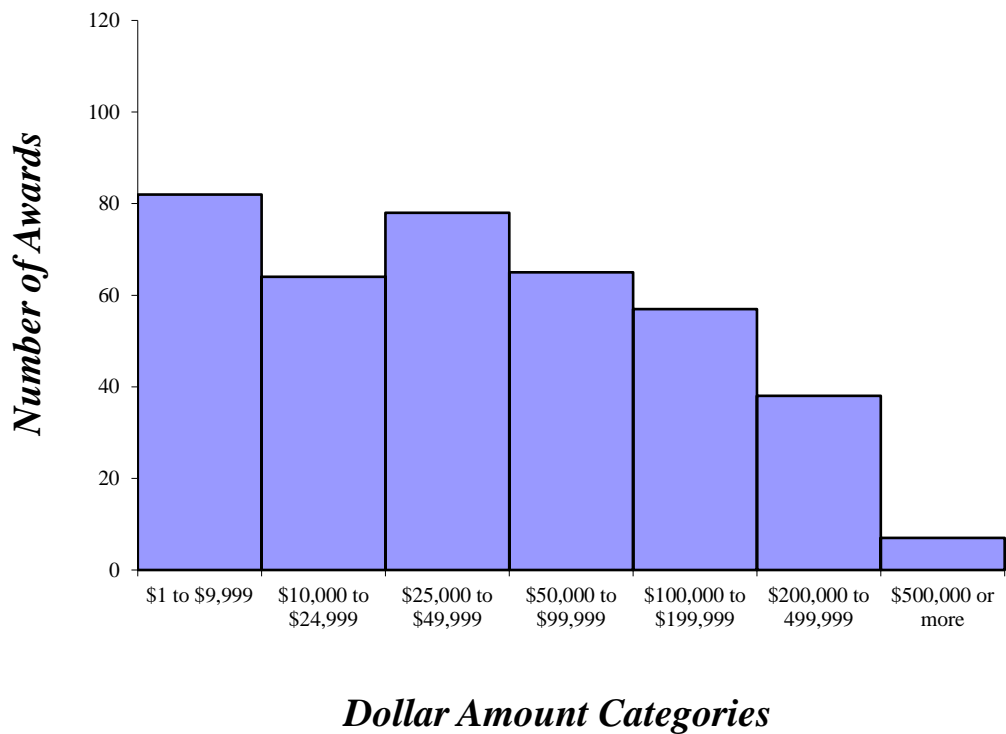
External Funds by Source–2016

Source	Amount	% of Total
Federal	\$22,056,396	57%
Federal Subcontracts	\$7,987,588	21%
State	\$1,352,197	4%
Private	\$7,051,367	18%
<i>Total Funding</i>	\$38,447,548	100%

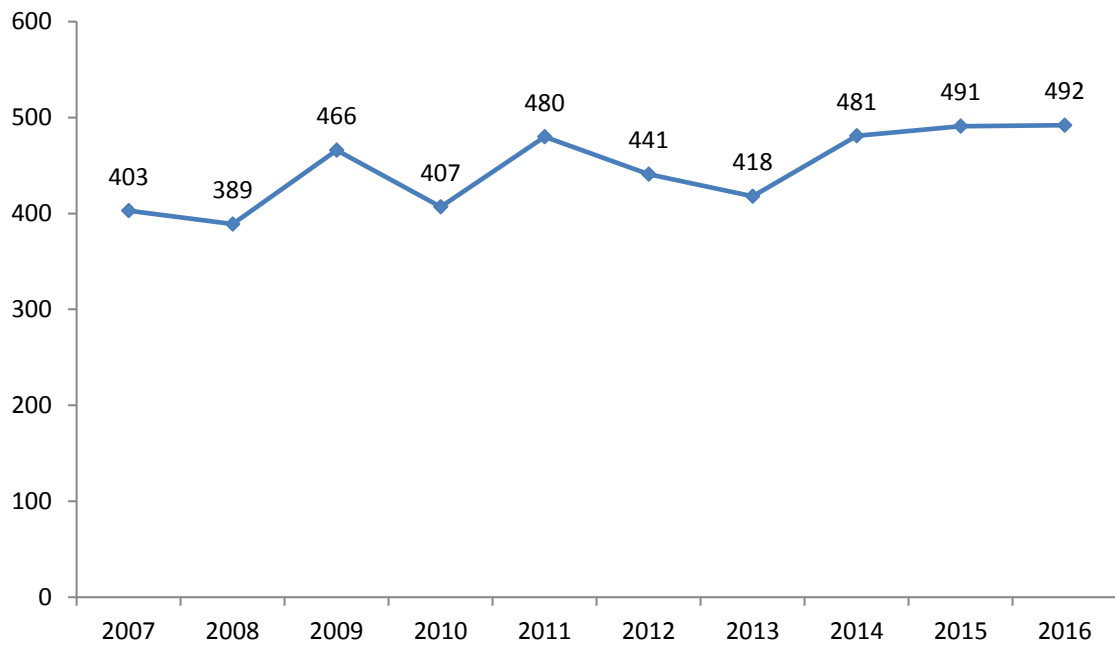


Grant/Contract Awards by Amount—2016

Dollar Amount Categories	# of Awards	% of Total Awards by #	\$ Awards	% of Total Awards by \$ Amount
\$1 to \$9,999	82	21%	\$368,799	1%
\$10,000 to \$24,999	64	17%	\$1,064,869	3%
\$25,000 to \$49,999	78	20%	\$2,787,336	7%
\$50,000 to \$99,999	65	17%	\$4,666,688	12%
\$100,000 to \$199,999	57	15%	\$7,612,962	19%
\$200,000 to \$499,999	38	8%	\$12,728,501	33%
more than \$500,000	7	2%	\$9,218,394	25%
Totals	391	100%	\$38,447,548	100%

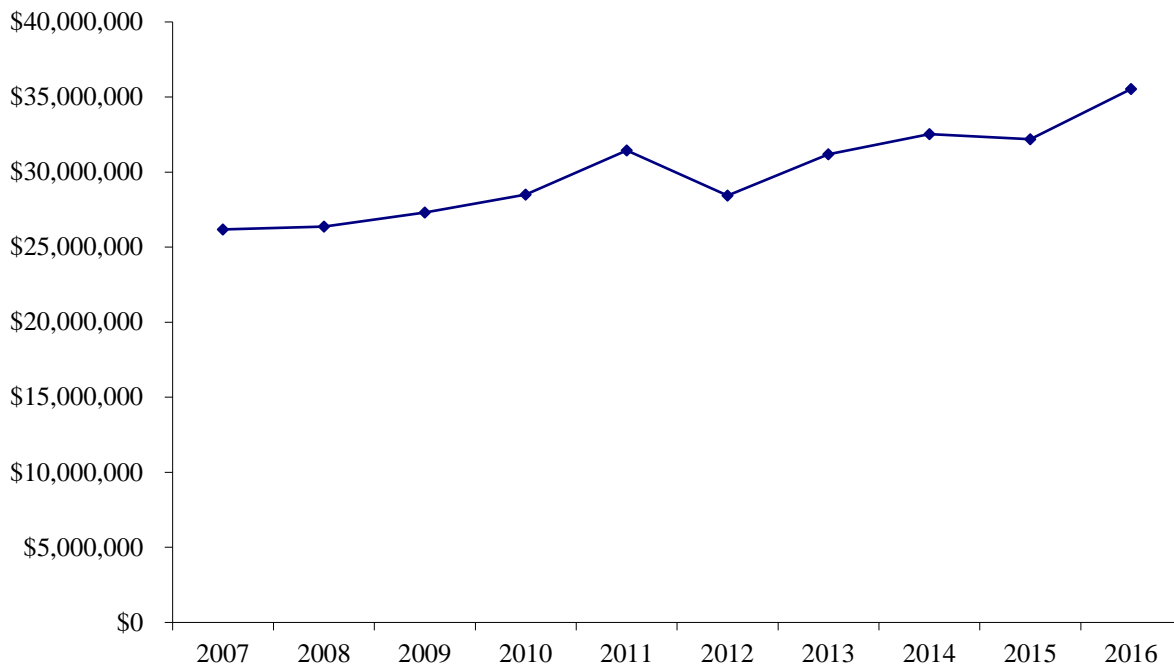


Proposals Submitted



Total Expenditures (Grants and Contracts)

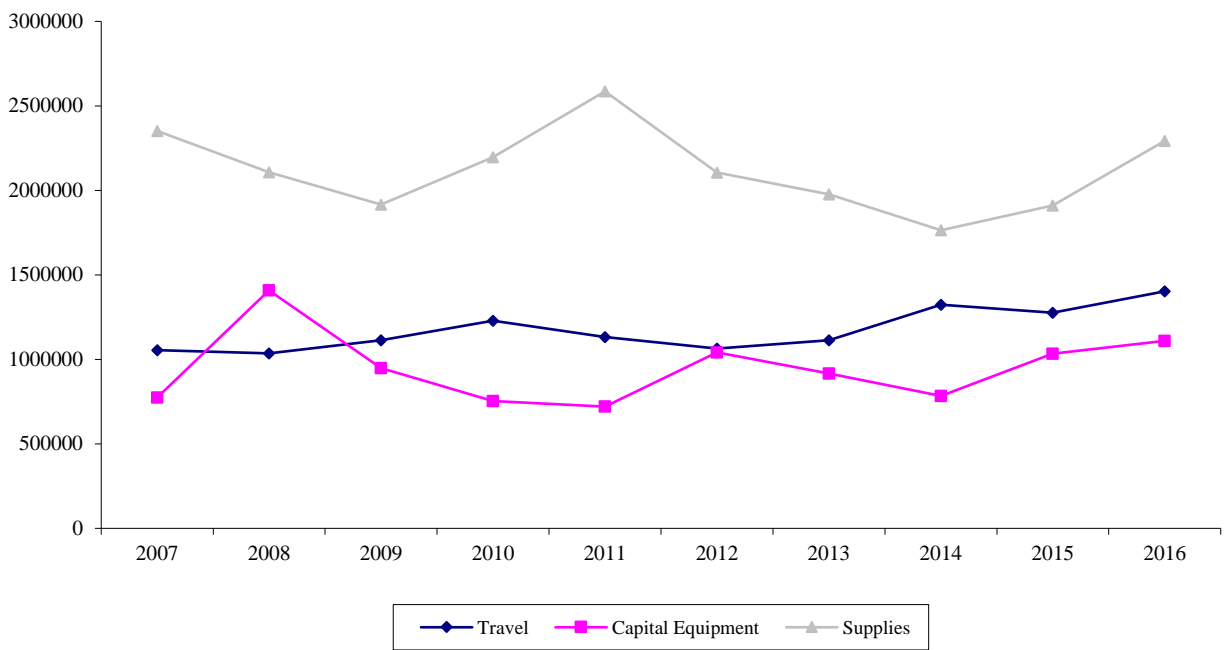
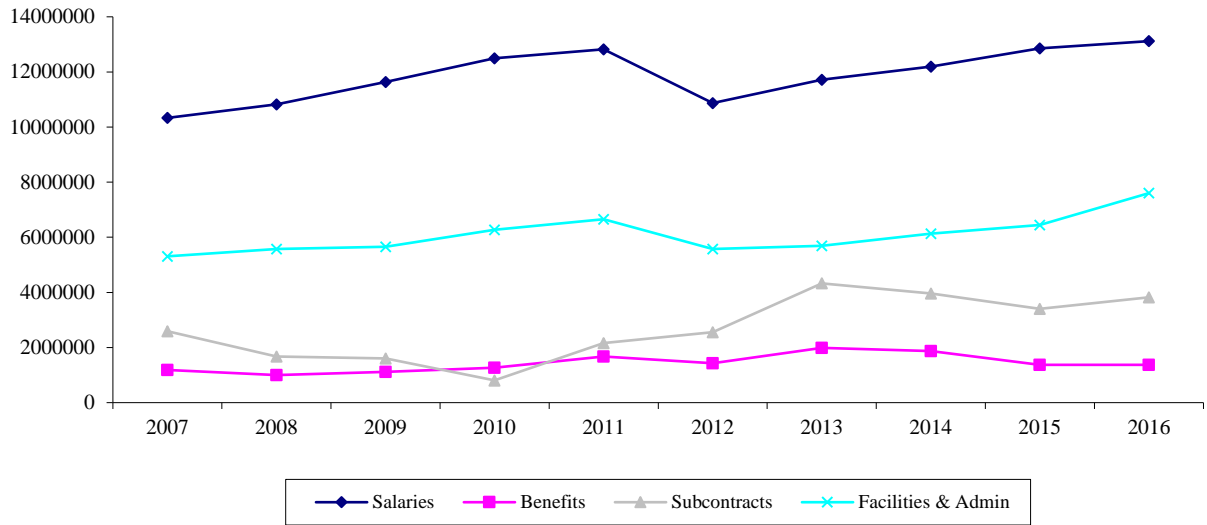
Year	Total Expenditures
2007	\$26,178,686
2008	\$26,364,124
2009	\$27,299,213
2010	\$28,503,008
2011	\$31,443,918
2012	\$28,438,600
2013	\$31,184,980
2014	\$32,258,073
2015	\$32,177,342
2016	\$35,537,915



2016 Research Contract/Grant Expenditures by Category

<i>Personnel Costs</i>	<i>Amount</i>
<i>Salaries & Wages</i>	
Administrative Salaries	846,899
Faculty Salaries	219,246
Faculty Sal-Visit-Health Ben	1,452,197
Faculty—Supplemental	2,669,676
Other Wages	290,592
Part-time Faculty Salaries	486,749
Staff Salaries	201,916
Student Contracts	3,527,158
Student Wages	3,422,783
Total Salaries & Wages	\$ 13,117,206
Fringe Benefits	1,377,188
Total Personnel Costs	\$ 14,494,404
<i>Other Expenditures</i>	
Access Equipment	33,551
Advertising and Promotion	8,466
Capital Equipment	1,108,602
Computer Serv-Campus-Contract	1,603
Conference & Symposium Costs	216,409
Consultants	315,812
Contract Services	1,575,347
Employee Development/Training	50,948
Equipment Maintenance	50,218
Facilities & Administration	7,605,022
Facilities Maintenance	503
Facilities Remodel	33
Hosting, Food, Entertainment	20,394
Non-Capital Equipment	80,355
Participant Stipends	256,493
Postage & Mailing	11,252
Printing & Copying	17,532
Program Income	(83,891)
Purchase Discounts Earned	(58)
Rental Expense	159,064
Research Fellowships	102,567
Research Publications Costs	17,532
Software Acquisitions/Support	36,545
Software Maintenance	964
Student Aid	1,916,280
Subcontracts	3,823,962
Supplies	2,292,112
Telecommunications	22,942
Travel	1,402,591
Uniforms/Costumes/Laundry	30
Total Other Expenditures	\$ 21,043,511
Total Research Expenditures	\$ 35,537,915

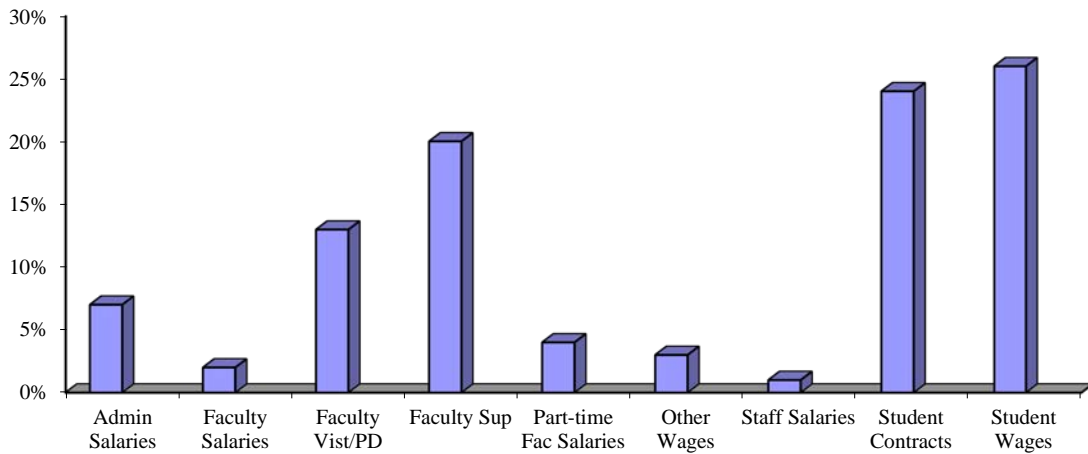
Research Dollars Expended (Grants and Contracts Only)



Salary and Wage Expenditures (Grants and Contracts Only)

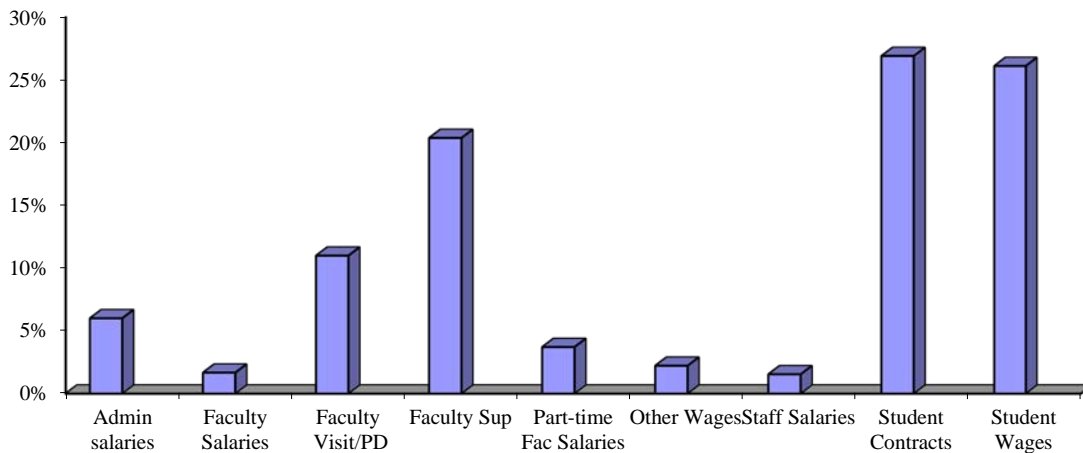
2015

Total: \$12,852,630



2016

Total: \$13,117,216

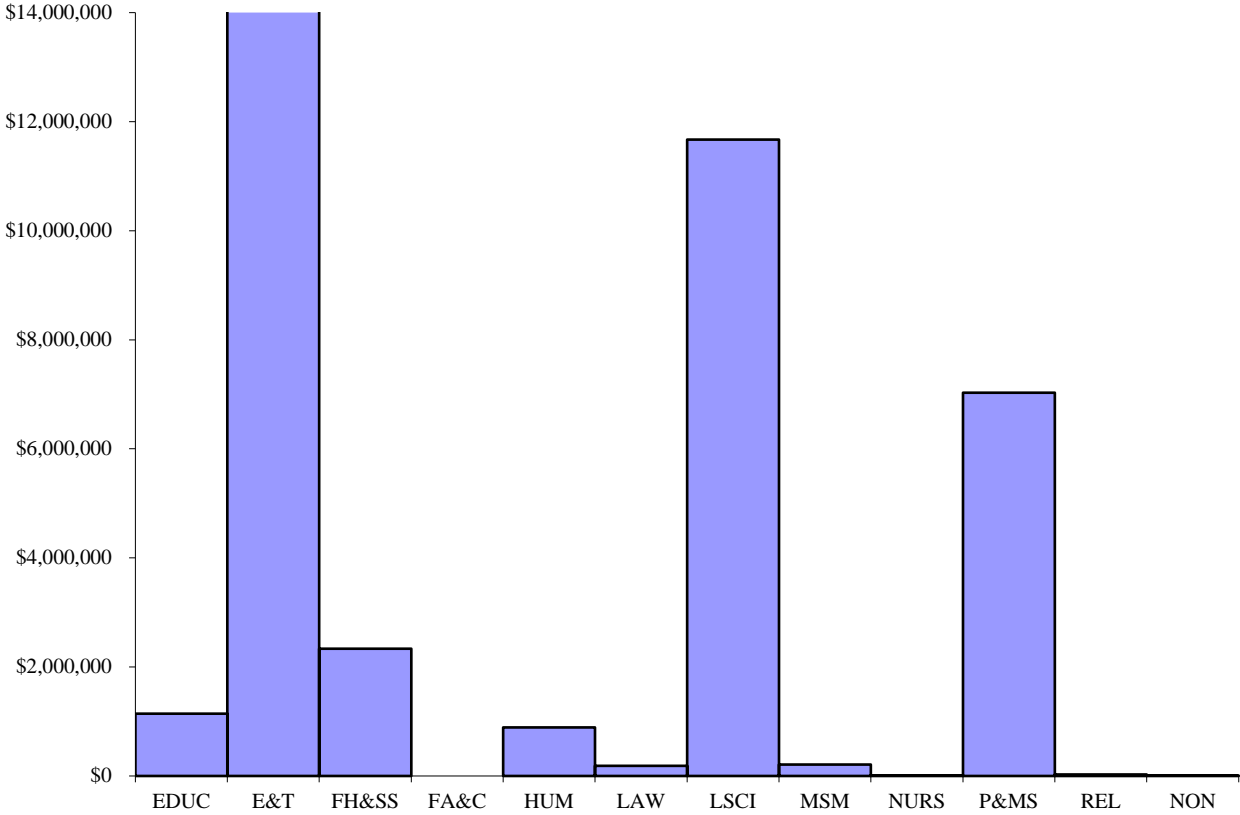




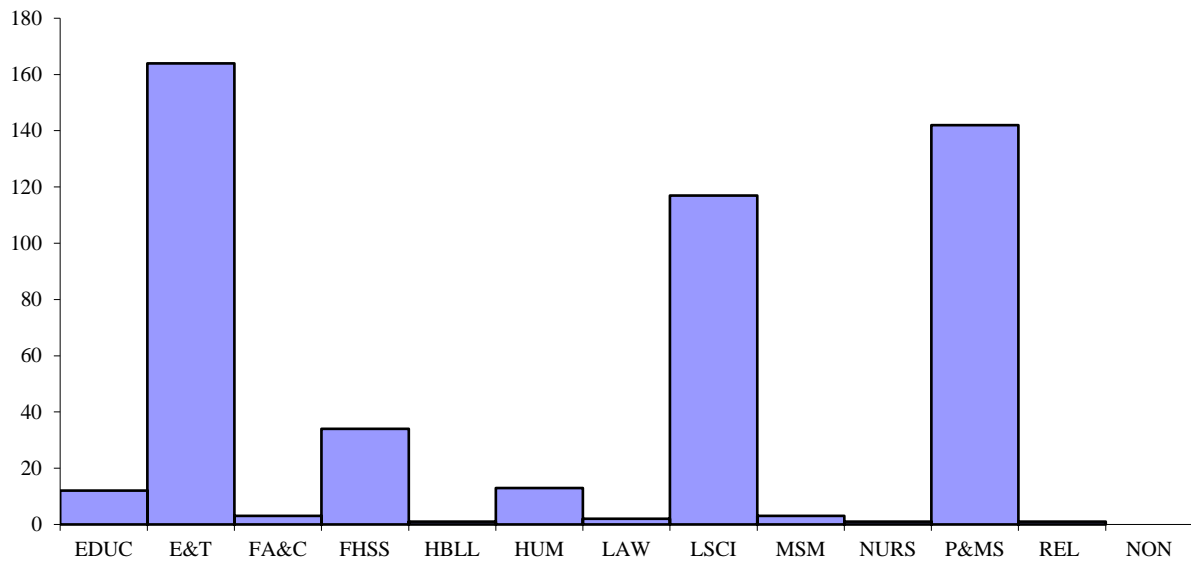
Information by College or School

Award Amount Totals 2016

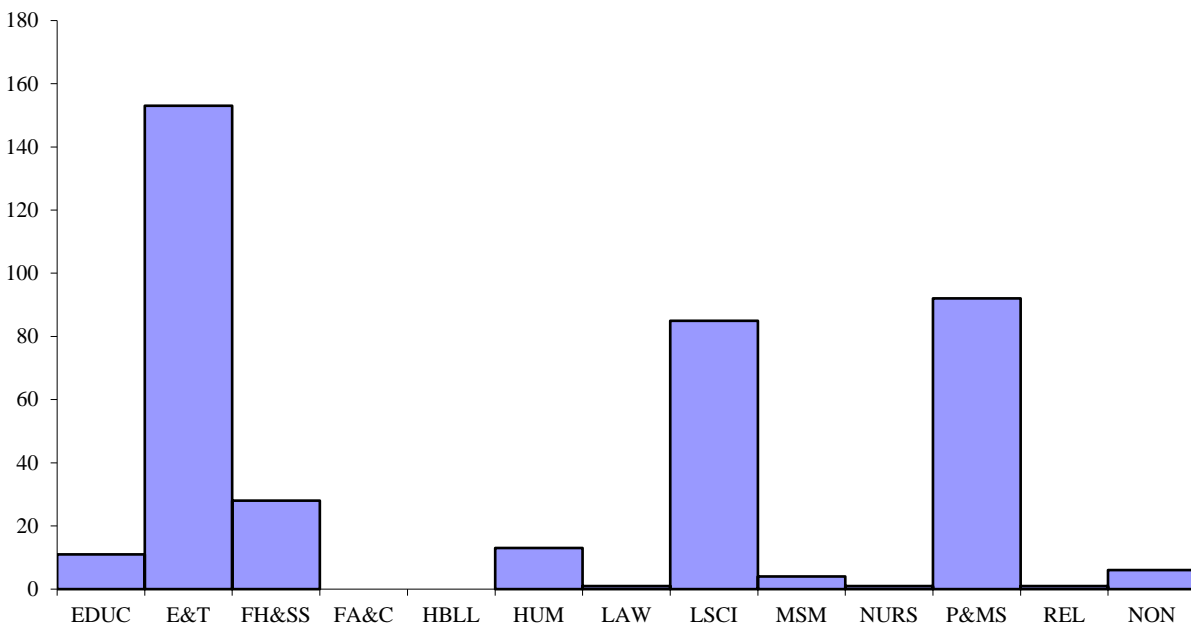
<i>College or School</i>	<i>Total</i>
Education	\$1,143,959
Engineering & Technology	\$14,938,165
Family, Home & Social Sciences	\$2,333,961
Fine Arts & Communications	\$0
Humanities	\$892,903
Law	\$185,790
Life Sciences	\$11,673,097
Marriot School of Management	\$207,500
Nursing	\$9,626
Physical & Mathematical Sciences	\$7,030,958
Religious Education	\$30,000
Harold B. Lee Library	\$0
Non-College Units (with HBLL on Graph)	\$1,588
<i>University Total</i>	\$38,447,548



Number of Proposals 2016



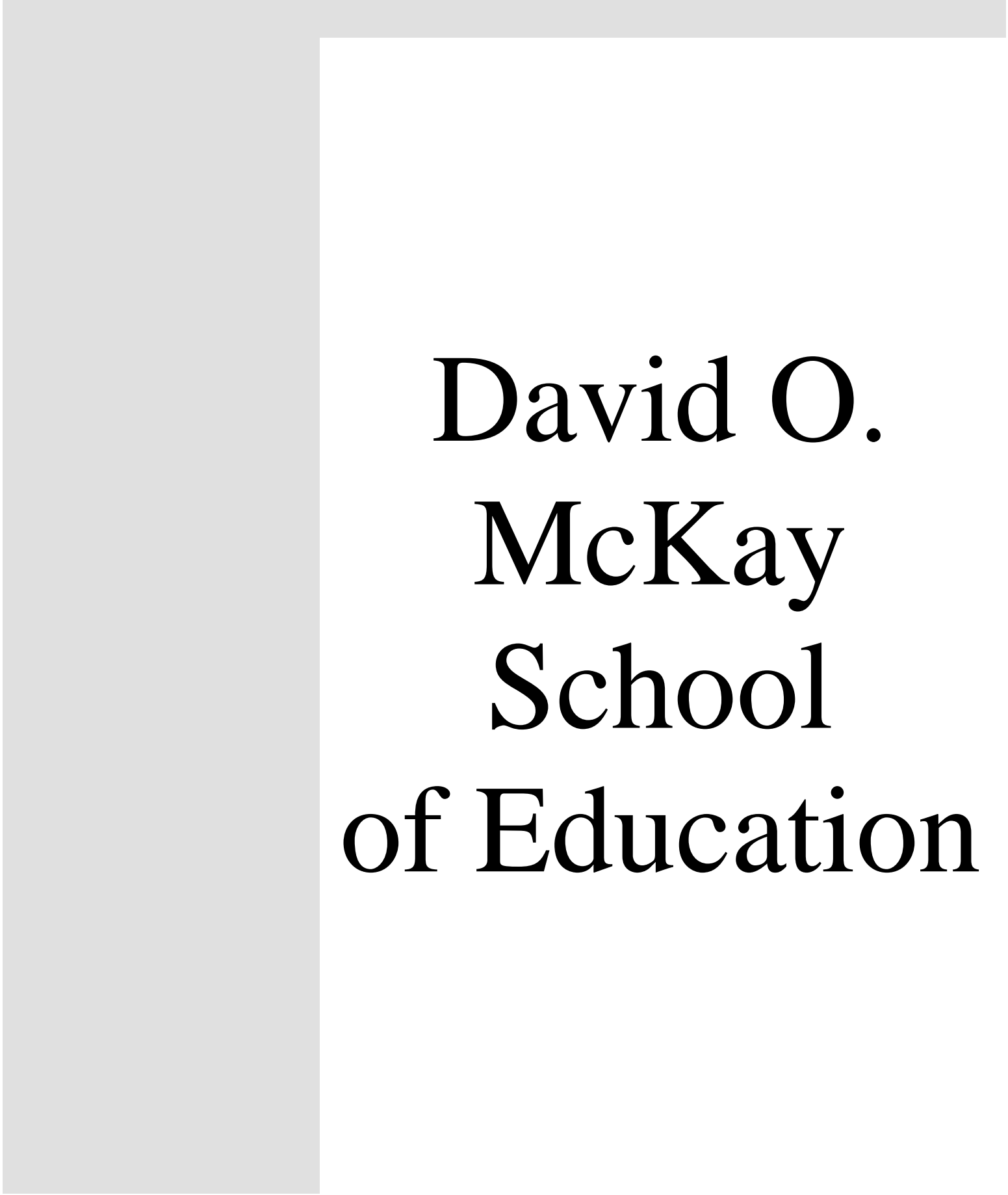
Number of Awards 2016



Research Contract/Grant Awards by College and Department 2016

<i>College and Department</i>	<i>Amount</i>
<u>Campus Life</u>	Campus Life 0
<u>Education</u>	
	CITES 545,440
	Communication Disorders 0
	Counseling and Special Educ 185,782
	Education Leadership & Foundations 0
	Instructional Psychology 13,992
	Teacher Education 398,745
	TOTAL <u>\$1,143,959</u>
<u>Engineering & Technology</u>	
	Chemical Engineering 3,095,648
	Civil and Environmental Eng 1,410,335
	Electrical and Computer Eng 5,041,395
	Mechanical Engineering 5,290,787
	School of Technology 100,000
	TOTAL <u>\$14,938,165</u>
<u>Fine Art and Communications</u>	
	Museum of Art 0
	Dance 0
	TOTAL <u>\$0</u>
<u>Family Home & Social Sciences</u>	
	Anthropology 2,800
	Economics 4,500
	History 347,500
	Office of Public Archeology OPA 97,648
	Political Science 687,163
	Psychology 1,118,991
	School of Family Life 0
	Sociology 51,712
	Social Work 23,647
	TOTAL <u>2,333,961</u>

<i>College and Department</i>	<i>Amount</i>
<u>Humanities</u>	
Asian & Near East Languages	865,583
Center for Language Studies	0
English	15,000
Humanities	12,320
TOTAL	\$892,903
<u>J. Reuben Clark Law School</u>	\$185,790
<u>Library</u>	\$0
<u>Life Sciences</u>	
Bean Museum	0
Biology	5,326,554
Exercise Science	16,395
Health Science	0
Microbiology & Molecular Biology	473,890
Nutrition, Dietetic, & Food Science	392,500
Physiology & Developmental Biology	836,291
Plant & Wildlife Sciences	4,627,468
TOTAL	\$11,673,097
<u>Marriott School of Management</u>	
Information Systems	100,000
Organizational Leadership-Strategy	102,500
School of Accountancy	5,000
TOTAL	\$207,5000
<u>Nursing</u>	\$ 9,626
<u>Office of Research & Creative Activities</u>	\$ 1,588
<u>Physical & Math Sciences</u>	
Chemistry and Biochemistry	2,586,161
Computer Science	1,275,195
Geology	406,596
Mathematics	494,148
Mathematics Education	383,724
Physics & Astronomy	1,547,998
Statistics	337,136
TOTAL	\$7,030,958
<u>Religion</u>	
Ancient Scripture	30,000
TOTAL	\$30,000
Grand Total	\$ 38,447,548

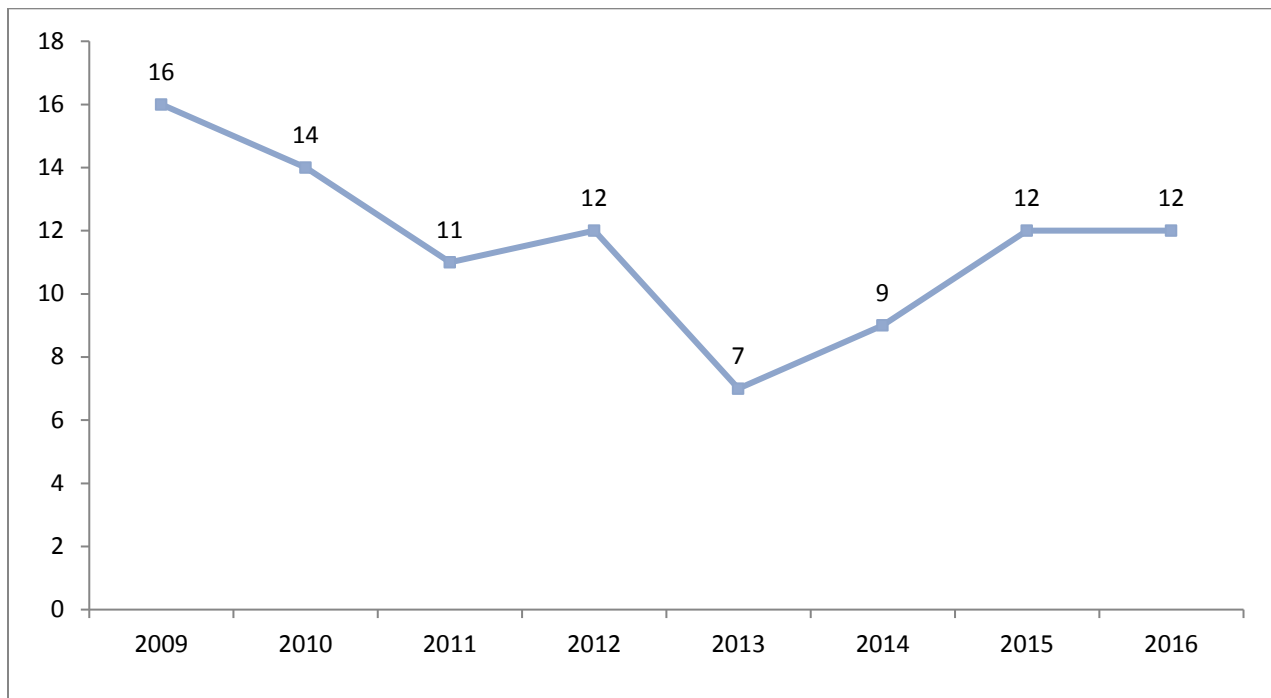


David O. McKay School of Education

Summary of Sponsored Research (Grants & Contracts)

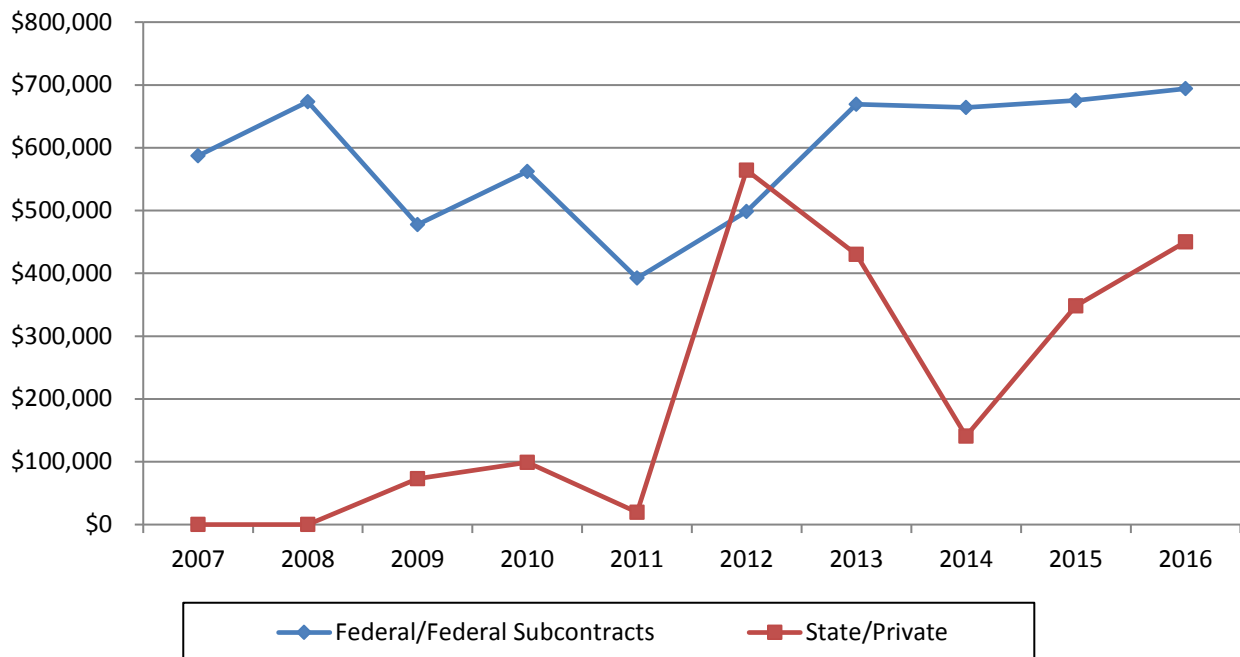
Department	# of Faculty Submitting	# of Proposals Submitted	# of Awards	Dollars Awarded
CITES	1	1	5	\$545,440
Communication Disorders	2	2	0	\$0
Counseling Psych & Special Ed.	6	5	4	\$185,782
Ed. Leadership & Foundations	0	0	0	\$0
Instructional Psych. & Tech.	1	0	1	\$13,992
Teacher Education	6	4	1	\$398,745
TOTALS	16	12	11	\$1,143,959

Proposal Submission Activity



External Research Funding (All Sources)

Year	Grants/Contracts		Total
	Federal/Federal Subcontracts	State/Private	
2007	\$587,279	\$0	\$587,279
2008	\$673,489	\$0	\$673,489
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



David O. McKay School of Education 2016 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		U of Kansas Ctr for Research Inc	Middle School Class-wide Function-related intervention Teams (MS CW-FIT): Improving Academic Engagement and Outcomes for Middle School Students	7/1/2016	6/30/2017	R0302677	\$135,440	2
Flox, Cally		Utah Board of Education	BTS - Arts Learning Program FY17	7/1/2016	6/30/2017	R0402284	\$185,000	3
Flox, Cally		USOE	BTS - Arts Learning Program (Special Projects)	7/1/2016	6/30/2017	R0402287	\$10,000	3
Flox, Cally		USOE	BTS - Arts Learning Program (Professional Development)	7/1/2016	6/30/2017	R0402284	\$185,000	3
Graff, Barry		USHE (Dept of Ed)	BYU-Public School Partnership Instructional Coaching Academy	7/1/2015	9/30/2016	R0302657	\$30,000	2
<i>Counseling, Psychology, & Special Education</i>								
Gibb, Gordon		USOE	2016 Summer Mentor Teachers	7/1/2016	6/30/2017	R0302664	\$64,400	2
Hansen, Blake	w/ Caldarella, Paul	U of Kansas (Dept of ED)	A Multi-Site Efficacy Trial of the Class-wide Function-related Intervention Teams "CW-FIT": A Research to Practice Agenda for Students with At Risk for EBD.	7/1/2012	6/30/2017	R0302473	\$25,708	2
Young, Ellie		UT Brd of Ed	IDEA Special Education Grants to States School Age Formula Flow Through	7/1/2016	6/30/2017	R0402289	\$69,966	3
Young, Richard	w/ Caldarella, Paul	U of Kansas (Dept of ED)	A Multi-Site Efficacy Trial of the Class-wide Function-related Intervention Teams "CW-FIT": A Research to Practice Agenda for Students with At Risk for EBD.	7/1/2012	6/30/2017	R0302473	\$25,708	2
<i>Instructional Psychology & Technology</i>								
Rich, Peter		Brown University (NSF)	Exploring Transfer Between Computing and Algebra Through Bootstrap	9/1/2016	8/31/2017	R0302641	\$13,992	2
<i>Teacher Education</i>								
Pinnegar, Stefinee		ED	Simultaneous RENEWAL for the Education of English Learners through Professional Development for University Faculty and Public School Teachers	5/1/2012	4/30/2017	R0132022	\$398,745	1

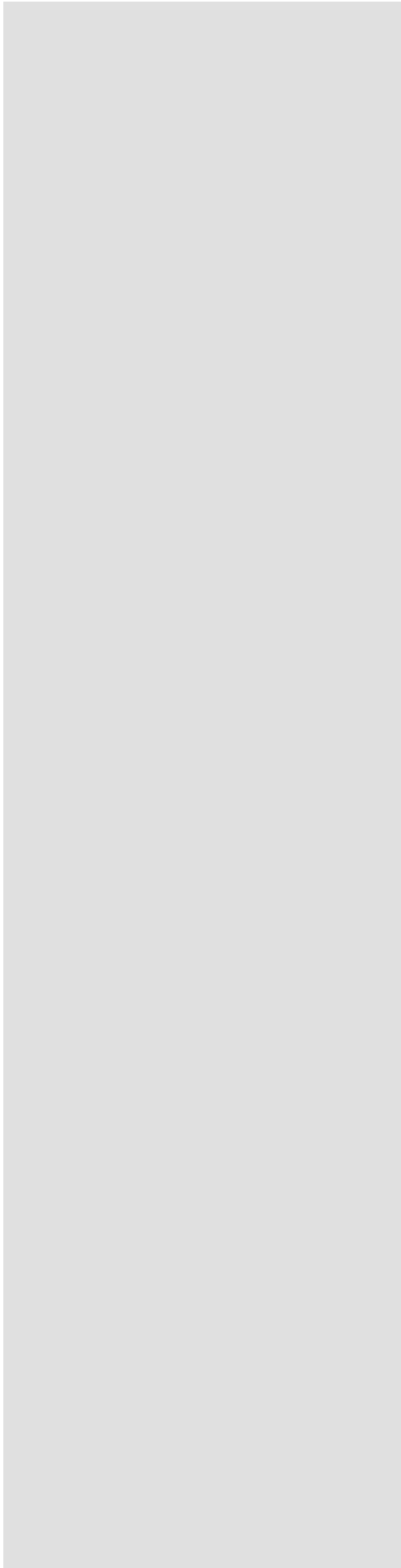
Type: 1=Federal; 2=Federal Subcontract; 3=State; 4=Private

Department Totals	
Communication Disorders	\$0
Center for Improvement of Teacher Education and Schooling (CITES)	\$545,440
Continuing Education	\$0
Counseling Psychology & Special Education	\$185,782
Educational Leadership & Foundations	\$0
Instructional Psychology & Technology	\$13,992
Teacher Education	\$398,745
<i>College Total:</i>	\$1,143,959

Education

Source Breakdown of Grants and Contracts

Sponsor	Number Awarded	Total Amount
Federal		
ED	1	\$398,745
<i>Total</i>	1	\$398,745
Subcontracts		
Brown University (NSF)	1	\$13,992
U of Kansas (Dept of ED)	2	\$51,416
U of Kansas Center for Research Inc.	1	\$135,440
USHE (Dept of Ed)	1	\$30,000
USOE	1	\$64,400
<i>Total</i>	6	\$295,248
State		
USOE	2	\$195,000
Utah Board of Education	2	\$254,966
<i>Total</i>	4	\$449,966
Private		
	0	\$0
<i>Total</i>	0	\$0
Grand Total	11	\$1,143,959

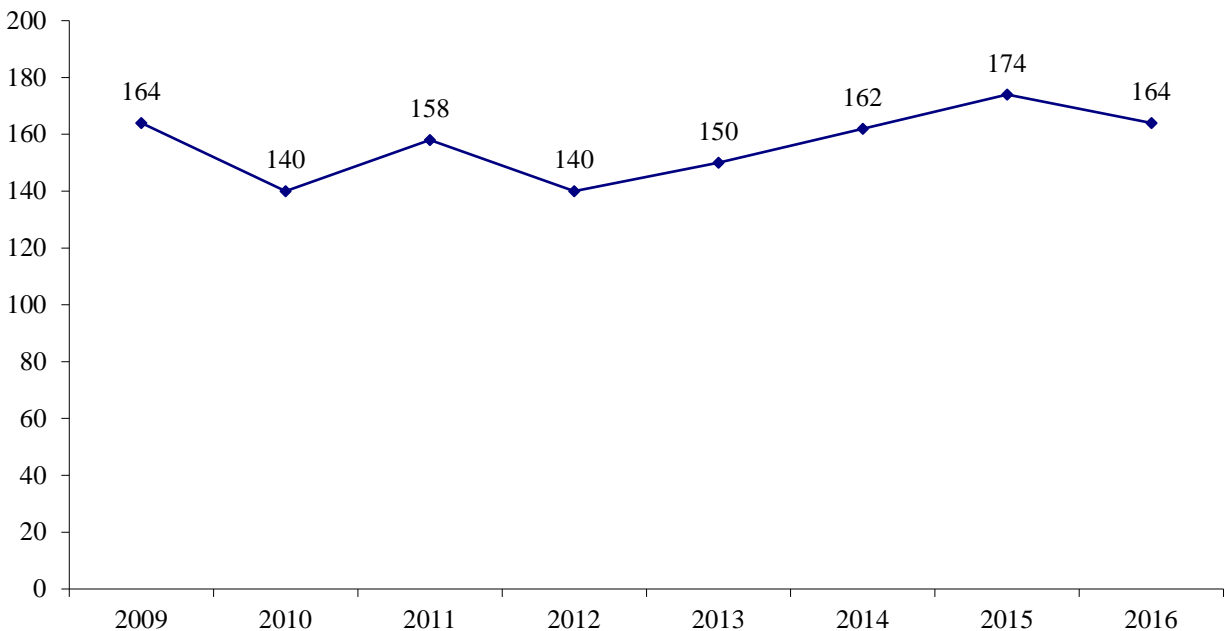


Fulton College of Engineering & Technology

Summary of Sponsored Research (Grants & Contracts)

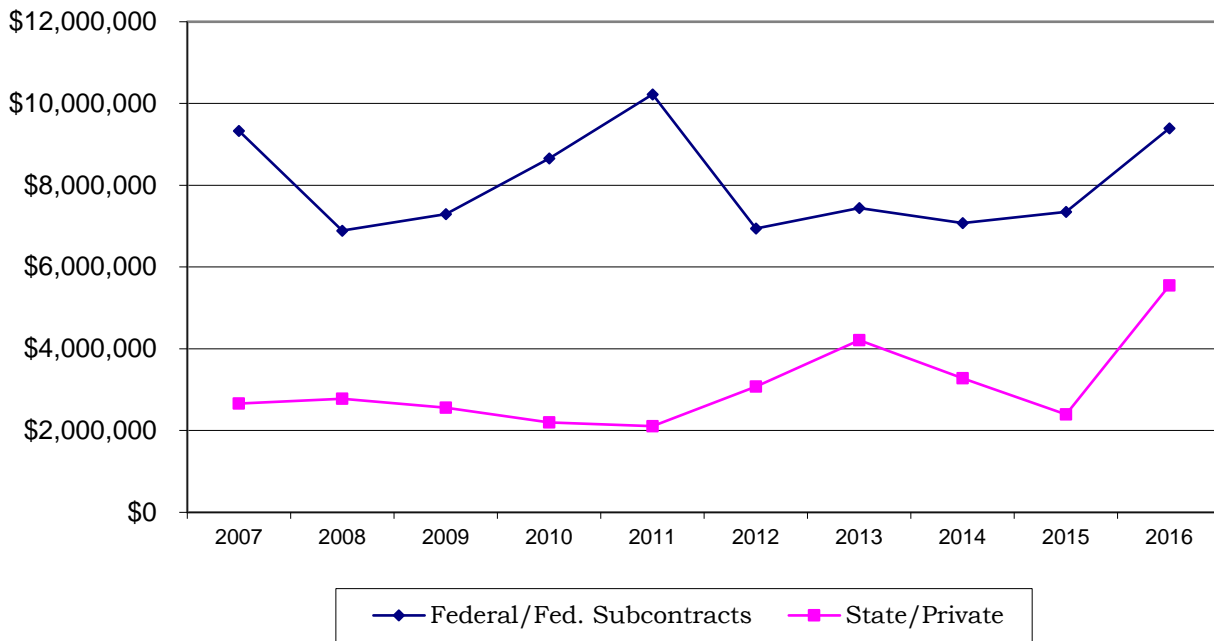
Department	# of Faculty Submitting	# of Proposals Submitted	# of Awards	Dollars Awarded
Chemical Engineering	14	31	22	\$1,410,335
Civil & Environmental Engineering	13	30	25	\$3,095,648
Electrical & Computer Engineering	16	43	46	\$5,041,395
Geology	1	1	0	\$0
Mechanical Engineering	28	56	59	\$5,290,787
School of Technology	6	3	1	\$100,000
TOTALS	78	164	153	\$14,938,165

Proposal Submission Activity



External Research Funding (All Sources)

Year	Grants/Contracts		Total
	Federal/Federal Subcontracts	State/Private	
2007	\$9,329,809	\$2,657,764	\$11,987,573
2008	\$6,891,660	\$2,782,218	\$9,673,878
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



College of Engineering & Technology 2016 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>Civil & Environmental Engineering</i>								
Ames, Dan		University of Texas-Austin (EPA)	A Sustainable Center for Crowd-Sourced Water Infrastructure Modeling	9/1/2016	8/31/2021	R0302708	\$55,863	2
Ames, Daniel		CUAHSI (NSF)	CUAHSI HydroDesktop Support	5/16/2011	5/15/2017	R0302682	\$12,690	2
Ames, Daniel	w/ Nelson, James	NASA	Comprehensive Streamflow Prediction and Visualization to Support Integrated Water Management in the Himalaya Region	8/1/2016	7/31/2019	R0162029	\$67,747	1
Ames, Daniel	w/Aanderud, Zachary	Utah State U.(NSF)	Critical Zone Processes Mediating and Responding to Dust Generation and Transport	8/1/2012	7/31/2017	R0302477	\$73,802	2
Ames, Daniel		CUAHSI (NSF)	CUAHSI Water Data Center	4/1/2013	1/31/2017	R0302554	\$30,343	2
Ames, Daniel		Utah State University (USGS)	Educational Materials for the USGS National Water Census Data Portal	3/14/2016	12/24/2016	R0302659	\$16,140	2
Ames, Daniel		USU (NSF)	Hydro Share: Interactive Software Infrastructure for Sustaining Collaborative Community Innovation in the Hydro Science	7/1/2012	5/31/2017	R0302479	\$91,071	2
Balling, Richard	w/ Scott, Michael	AFOSR	An Integrated Isogeometric Approach to the Engineering Design and Optimization of Aircraft Structures	6/15/2014	6/14/2017	R0202420	\$68,815	1
Fonseca, Fernando		Timber Frame Engineering Council	Seismic Performance Factors for Stand-Alone Timber Frame Structures	5/6/2016	4/30/2017	R0502235	\$10,000	4
Fonseca, Fernando		ACUTE Engineering P.C.	Seismic Parameters for Timber Frames	10/1/2016	8/31/2018	R0602531	\$3,000	4
Franke, Kevin	w/ McLain, Timothy	NSF (NASA)	I/UCRC C-UAS Membership Dues for NASA-Armstrong	9/1/2012	2/28/2017	R0112221	\$13,280	1
Franke, Kevin	w/ Rollins, Kyle	USGS	Evaluation and Optimization	4/1/2016	3/31/2017	R0202466	\$45,818	1
Franke, Kevin		NSF	Center for Unmanned Aircraft Systems - REU Supplement	3/1/2012	2/28/2017	R0112282	\$10,000	1
Franke, Kevin		UDOT	Simplified CPT Performance-Based Assessment of Liquefaction and Effects	5/17/2016	11/30/2018	R0402281	\$93,000	3
Franke, Kevin		UDOT	Simplified SPT Performance-Based Assessment of Liquefaction and Effects	3/6/2014	5/31/2017	R0402235	\$18,000	3
Guthrie, Spencer		Convergent Concrete Technologies	Performance of Nano-Lithium Sealer for Concrete Barrier walls on Highways in Cold Regions	5/1/2013	5/31/2019	R0602415	\$9,500	4
Guthrie, Spencer		UDOT	Evaluation of Twisted Steel Micro Reinforcement to Mitigate Cracking in Concrete Bridge Decks	7/22/2016	5/31/2019	R0402285	\$10,501	3
Guthrie, Spencer		UDOT	Development of Concrete Bridge Deck Management Guide	1/14/2015	9/30/2018	R0402261	\$18,000	3

Guthrie, W. Spencer	w/ Mazzeo, Brian	USTAR	Subsurface Defect Mapping of Concrete Roads and Bridges at High Speed	12/1/2016	11/30/2021	R0402293	\$45,865	3
Jensen, David	w/ Scott, Michael	AFOSR	An Integrated Isogeometric Approach to the Engineering Design and Optimization of Aircraft Structures	6/15/2014	6/14/2017	R0202420	\$68,814	1
Jensen, David		IsoTruss Industries (TRI/DOD)	Research on Tapered Nesting IsoTruss Structural Elements	12/8/2015	2/16/2016	R0302649	\$45,000	2
Jones, Norm	w/ Ames, Daniel	CUAHSI (NSF)	CUAHSI HydroDesktop Support	5/16/20116	5/15/2017	R0302682	\$12,690	2
Jones, Norm	w/ Nelson, James	NASA	Comprehensive Streamflow Prediction and Visualization to Support Integrated Water Management in the Himalya Region	8/1/2016	7/31/2019	R0162029	\$67,747	1
Nelson, James		NASA	Comprehensive Streamflow Prediction and Visualization to Support Integrated Water Management in the Himalya Region	8/1/2016	7/31/2019	R0162029	\$67,748	1
Nelson, Jim	w/ Ames, Daniel	CUAHSI (NSF)	CUAHSI HydroDesktop Support	5/16/20116	5/15/2017	R0302682	\$12,690	2
Rollins, Kyle		USGS	Evaluation and Optimization	4/1/2016	3/31/2017	R0202466	\$45,818	1
Rollins, Kyle		UDOT	Passive Force Displacement Relationships for Skewed Abutments	8/13/2012	12/30/2018	R0402213	\$130,000	3
Rollins, Kyle		NSF	RAPID: Downdrag Behavior of Piles and Drilled Shafts after Liquefaction	8/15/2016	7/31/2017	R0112324	\$29,065	1
Saito, Mitsuru	w/ Schultz, Grant	UDOT	Intersection Safety Model	6/22/2016	6/29/2018	R0402283	\$59,999	3
Saito, Mitsuru		UDOT	Developing a method to identify horizontal curve segments with worst crash histories using the HAF algorithm	12/20/2016	9/31/2018	Ro402290	\$30,000	3
Schultz, Grant	w/ Saito, Mitsuru	UDOT	Developing a method to identify horizontal curve segments with worst crash histories using the HAF algorithm	12/20/2016	9/31/2018	Ro402290	\$30,000	3
Schultz, Grant		UDOT	Intersection Safety Model	6/22/2016	6/29/2018	R0402283	\$60,000	3
Schultz, Grant		UDOT	Anaysis of Left-Turn Warrants in Utah	12/28/2016	6/30/2018	R0402291	\$15,000	3
Scott, Michael	w/ Ning, Andrew	FCL Tech Inc.	Efficient High-Fidelity Aeroelastic Analysis and Design of Long Endurance Aircraft	5/2/2016	5/1/2019	R0602512	\$213,393	4
Scott, Michael		AFOSR	An Integrated Isogeometric Approach to the Engineering Design and Optimization of Aircraft Structures	6/15/2014	6/14/2017	R0202420	\$68,815	1
Scott, Michael		Ford Motor Company (URP)	Development of superior crash stimulation capabilities using isogeometric analysis	8/1/2016	7/31/2018	R0602523	\$40,000	4

Williams, Gustavious		St. of Oregon	Harney Basin Aquatic Health Monitoring Phase II	6/1/2016	8/15/2016	R0470006	\$24,680	4
Chemical Engineering								
Baxter, Larry		Office of Nuclear Energy (DOE)	Nuclear Energy University Programs - Fellowship and Scholarship	11/1/2013	6/30/2022	R0202405	\$30,000	1
Baxter, Larry		Sustainable Energy Solutions (Ceramatec/DOE)	Carbon Capture from Precombustion and Syngas	10/1/2016	9/30/2017	R0302701	\$75,000	2
Bundy, Brad		NSF	REU Supplement - Control Enzyme Biocatalyst Imobilization	8/7/2014	6/30/2018	R0112265	\$6,000	1
Fletcher, Thomas		NSF	Merging of Horizontally and Vertically Separated Flames in Wildland Fires	8/15/2016	7/31/2019	R0112313	\$180,001	1
Fletcher, Tom		USDA, Forest Service	Fundamental Measurements and Modeling of Prescribed Fire Behavior in the Naturally Heterogeneous Fuel Beds of Southern Pine	4/15/2016	9/30/2017	R0202467	\$119,243	1
Fletcher, Tom		USDA, Forest Service, Rocky Mountain Research Station	Exploration into the effect of terrain slope on fire intensity	6/5/2015	9/30/2019	R0202454	\$60,000	1
Fletcher, Tom		UofU (DOE)	High Performance Computing on Oxyfired Combustor	3/1/2014	2/28/2017	R0302552	\$41,080	2
Fry, Andrew		U of U (Reaction Engineering International /DOE)	Characterizing Impacts of High Temperatures and Pressures in Oxy-Coal Combustion Systems	9/1/2016	8/30/2017	R0302698	\$50,000	2
Fry, Andrew		DOE	Development of Enabling Technologies for a Pressurized Dry Feed Oxy-Coal Reactor REU Supplement to CBET-1540537 "Viologen-catalyzed	10/1/2016	9/30/2019	R0202484	\$367,207	1
Harb, John		NSF	Electrochemical Conversion of Biomass for Sustainable Energy and Products	9/1/2015	8/31/2016	R0112310	\$6,000	2
Hedengren, John	w/ McLain, Tim	NSF	I/CRC: Center for Unmanned Aircraft Systems (C-UAS)	3/1/2012	2/28/2017	R0112200	\$7,600	1
Hedengren, John	w/ McLain, Timothy	NSF (NASA)	I/UCRC C-UAS Membership Dues for NASA-Armstrong Conceptual Design of High Altitude Long Endurance Aircraft Using	9/1/2012	2/28/2017	R0112221	\$13,281	1
Hedengren, John	w/ Ning, Andrew	FCL Tech Inc.	Multidisciplinary Optimization REU: Supplement to EAGER: Cybermanufacturing	5/2/2016	5/1/2019	R0602511	\$147,900	4
Hedengren, John		NSF	Integration of Process Control and Optimization	1/1/2016	12/31/2017	R0112311	\$6,000	2
Hedengren, John		SINTEFF Petroleum AS	Improved model support in drilling automation	2/11/2015	12/31/2016	R0602466	\$17,804	4
Hedengren, John		USTAR	Automation and Optimization of Hydraulic Lift Rod Pumping	12/1/2016	11/30/2021	R0402292	\$185,000	3
Knotts, Thomas	w/ Wilding, Vince	AIChE/DIPPR	DIPPR 801	1/1/1998	12/31/2017	R0601001	\$315,000	4

Knotts, Thomas	w/ Wilding, Vincent	AICHe/DIPPR	DIPPR Project 801 - Evaluated Process Design Data	1/1/1998	12/31/2016	R0601001	\$280,000	4
Lewis, Randy	w/ Harb, John	NSF	REU Supplement to CBET-1540537 "Viologen-catalyzed Electrochemical Conversion of Biomass for Sustainable Energy and Products	9/1/2015	8/31/2016	R0112310	\$6,000	2
Lewis, Randy		Nuclear Regulatory Commission	Faculty Development Program for a Nuclear Specialty in the Brigham Young University Chemical Engineering Department	7/1/2016	6/30/2019	R0202471	\$224,215	1
Lignell, David		UofU (DOE)	High Performance Computing on Oxyfired Combustor	3/1/2014	2/28/2017	R0302553	\$27,664	2
Memmott, Matthew	w/ Lewis, Randy	Nuclear Regulatory Commission	Faculty Development Program for a Nuclear Specialty in the Brigham Young University Chemical Engineering Department	7/1/2016	6/30/2019	R0202471	\$224,215	1
Memmott, Matthew		Battelle (INL/DOE)	A Comparative Study on the Impact of Nuclear Fuels and Cladding Relative to Both Conventional Nuclear and Non-Nuclear Energy Sources	8/11/2016	9/27/2016	R0302685	\$5,000	2
Memmott, Matthew		Los Alamos National Security LLC (DOE)	Multi-Sensor Gas Meters market Research and Usability Assessment: LANL DHS SAVER Program	11/3/2015	9/30/2018	3-02640	\$8,871	2
Pitt, William	w/ Hawkins, Aaron	NIH	Multiplexed, Non-Amplified, Nucleic Acid-Based Identification of Multidrug Pathogens Using an Integrated Optofluidic Platform	3/1/2015	2/28/2017	R0102068	\$267,451	1
Pitt, William		L'Oréal USA Products	Acoustically Activated Delivery of Small Molecules to the Skin	8/15/2016	8/14/2017	R0602524	\$50,000	4
Wheeler, Dean		LBNL	Predicting Electrode Microstructure and Performance for Optimal Cell Fabrication	4/10/2013	4/1/2017	R0302504	\$50,000	2
Wheeler, Dean		Lawrence Berkley National Lab (DOE)	Predicting Electrode Microstructure and Performance for Optimal Cell Fabrication	4/10/2013	4/1/2017	R0302504	\$55,174	2
Wilding, Vince		AICHe/DIPPR	DIPPR 801	1/1/1998	12/31/2017	R0601001	\$315,000	4
Wilding, Vincent		AICHe/DIPPR	DIPPR Project 801 - Evaluated Process Design Data	1/1/1998	12/31/2016	R0601001	\$280,000	4
Electrical & Computer Engineering								
Bangerter, Neal		Stanford University (NIH)	Osteoarthritis: Quantitative Evaluation of Whole Joint Disease with MRI	4/1/2015	1/31/2017	R0302613	\$72,200	2
Bangerter, Neal		US Dept of Veteran's Affairs Health	A Pilot Trial to Assess Low-Intensity Ultrasound in Osteoarthritis	9/1/2014	8/31/2017	R0202431	\$31,850	1
Beard, Randal	w/ McLain, Tim	NSF	I/CRC: Center for Unmanned Aircraft Systems (C-UAS)	3/1/2012	2/28/2017	R0112200	\$7,600	1
Beard, Randal	w/ McLain, Timothy	NSF	Center for Unmanned Aircraft Systems - REU Supplements	3/1/2012	2/28/2017	R0112282	\$8,000	1
Beard, Randal	w/ McLain, Timothy	NSF (NASA)	I/UCRC C-UAS Membership Dues for NASA-Armstrong	9/1/2012	2/28/2017	R0112221	\$13,280	1

Beard, Randal		NASA (via NSF)	C-UAS I/UCRC: NASA LaRC - NASA Langley Research Center add-on project	9/13/2016	2/28/2017	R0112329	\$9,364	1
Beard, Randall		Utopia Compression (Air Force)	Utopia Compression Membership Dues	9/1/2016	10/31/2018	R0302699	\$45,000	2
Chiang, Shih-hua Wood	w/ Iverson, Brian	PerkinElmer	Compact Next-generation GC and MS Instrumentation	6/1/2015	12/31/2017	R0602482	\$79,439	4
Hawkins, Aaron	w/ Iverson, Brian	PerkinElmer	Compact Next-generation GC and MS Instrumentation	6/1/2015	12/31/2017	R0602482	\$79,440	4
Hawkins, Aaron		NIH	Multiplexed, Non-Amplified, Nucleic Acid-Based Identification of Multidrug Pathogens Using an Integrated Optofluidic Platform	3/1/2015	2/28/2017	R0102068	\$267,451	1
Hawkins, Aaron		NSF	REU Supplement to CBET 1402880, Nanopore-gated on-chip trapping for single bioparticle sensing	6/1/2014	5/31/2017	R0112285	\$7,000	1
Hawkins, Aaron		UC Santa Cruz (NIH)	Hybrid Integrated Molecular Analysis (HIMAS) for Point-of-Care Diagnostics - Zika Supplement	3/7/2016	5/31/2016	R0302667	\$28,500	2
Hawkins, Aaron		UC Santa Cruz (NIH)	Hybrid Integrated Molecular Analysis (HIMAS) for Point-of-Care Diagnostics	6/1/2012	5/31/2017	R0302466	\$101,000	2
Hutchings, Brad	w/ Wirthlin, Michael	NSF	CHREC Phase II - NSF I/UCRC	4/1/2013	3/31/2018	R0112225	\$26,666	1
Jeffs, Brian		Associated Universities, Inc./National Radio Astronomy Observatory (NSF)	Advanced Spatial Filtering Methods for RFI Mitigation at the ngVLA	11/2/2016	8/31/2017	R0302709	\$11,830	2
Jensen, Michael	w/ Rice, Michael	University of Kansas Research Center	Coded APSK for Improved Spectral Efficiency in AMT	10/11/2016	10/2/2019	R0302702	\$329,318	2
Jensen, Michael		Wavetronix (NSF STTR)	STTR Phase I: Reconfigurable Over-the-air Chamber for Wireless Device Testing	1/1/2016	12/31/2016	R0302653	\$68,850	2
Long, David		NASA	An Improved, Enhanced-resolution, Gridded Passive Microwave ESDR for Monitoring Cryospheric and Hydrologic Time Series	3/15/2013	3/14/2017	R0162017	\$108,278	1
Long, David		NASA	Extending the Scatterometer Wind and Backscatter Climate Record	8/1/2014	7/31/2018	R0162020	\$59,467	1
Long, David		University of Utah (NASA)	Utah NASA Space Grant Consortium 2015	4/10/2015	4/9/2017	R0302618	\$45,500	2
Long, David		NASA	Passive Inspection CubeSat	5/9/2016	5/8/2018	R0162027	\$50,000	1
Long, David		NASA	Enhanced-resolution SMAP soil moisture	7/8/2016	7/7/2019	R0162028	\$49,998	1
Long, David		U of U (NASA)	Utah NASA Space Grant Consortium 2016	4/10/2015	4/9/2017	R0302618	\$42,600	2
Long, David		NASA	Extending the Scatterometer Wind and Backscatter Climate Record	8/1/2014	7/31/2018	R0162020	\$110,439	1
Mazzeo, Brian	w/ Guthrie, Spencer	UDOT	Evaluation of Twisted Steel Micro Reinforcement to Mitigate Cracking in Concrete Bridge Decks	7/22/2016	5/31/2019	R0402285	\$10,501	3
Mazzeo, Brian	w/ Guthrie, Spencer	UDOT	Development of Concrete Bridge Deck Management Guide	1/14/2015	9/30/2018	R0402261	\$18,000	3

Mazzeo, Brian	w/ Wheeler, Dean	LBNL	Predicting Electrode Microstructure and Performance for Optimal Cell Fabrication	4/10/2013	4/1/2017	R0302504	\$50,000	2
Mazzeo, Brian	w/ Wheeler, Dean	Lawrence Berkley National Lab (DOE)	Predicting Electrode Microstructure and Performance for Optimal Cell Fabrication	4/10/2013	4/1/2017	R0302504	\$55,174	2
Mazzeo, Brian		USU (U.S. Army Dugway Proving)	Technology Development towards Multi-wavelength Lidar calibration instrumentation	1/20/2016	1/19/2017	R0302650	\$30,000	2
Mazzeo, Brian		USTAR	Subsurface Defect Mapping of Concrete Roads and Bridges at High Speed	12/1/2016	11/30/2021	R0402293	\$45,865	3
Nelson, Brent	w/ Wirthlin, Michael	Los Alamos National Security LLC (LANL/DOE)	NSF I/UCRC Center for High Performance Reconfigurable Computing (CHREC) Membership Dues	12/1/2007	3/31/2018	R0302240	\$20,000	2
Nelson, Brent	w/ Wirthlin, Michael	Raytheon	CHREC NSF I/UCRC Membership Dues	11/27/2009	11/27/2017	R0602229	\$20,000	4
Nelson, Brent	w/ Wirthlin, Michael	NSF	CHREC Phase II - NSF I/UCRC	4/1/2013	3/31/2018	R0112225	\$26,667	1
Nordin, Gregory		Moxtek, Inc.	Project 22 - Particle Analysis	4/26/2016	8/31/2016	R0602510	\$9,411	4
Rice, Michael		US Army PEO STRI	Preamble Assisted Equalization for Aeronautical Telemetry	3/6/2013	4/30/2016	R0202386	\$21,041	1
Rice, Michael		US Army	Preamble Assisted Equalization for Aeronautical Telemetry	3/6/2013	5/31/2017	R0202386	\$75,000	1
Rice, Michael		University of Kansas Research Center	Coded APSK for Improved Spectral Efficiency in AMT	10/11/2016	10/2/2019	R0302702	\$329,319	2
Rice, Michael		US Army	Preamble Assisted Equalization for Aeronautical Telemetry	3/6/2013	5/31/2017	R0202386	\$42,984	1
Schultz, Stephen		PEO STRI SFAE/STRI-KOT	High Repetition-rate Shape Sensing using Fiber Bragg Gratings (HISS)	9/9/2015	9/8/2016	R0202462	\$64,004	1
Schultz, Stephen		US Army	Optical Fiber Sensors for Non-intrusive Voltage Measurements in HPM Targets	2/4/2013	9/30/2016	R0202384	\$11,084	1
Schultz, Stephen		PEO STRI SFAE/STRI-KOT	High Repetition-rate Shape Sensing using Fiber Bragg Gratings (HISS)	9/9/2015	9/8/2017	R0202462	\$34,150	1
Selfridge, Richard	w/ Schultz, Stephen	US Army	Optical Fiber Sensors for Non-intrusive Voltage Measurements in HPM Targets	2/4/2013	9/30/2016	R0202384	\$11,083	1
Selfridge, Richard	w/ Schultz, Stephen	PEO STRI SFAE/STRI-KOT	High Repetition-rate Shape Sensing using Fiber Bragg Gratings (HISS)	9/9/2015	9/8/2017	R0202462	\$34,150	1
Selfridge, Richard	w/ Schultz, Stephen	PEO STRI SFAE/STRI-KOT	High Repetition-rate Shape Sensing using Fiber Bragg Gratings (HISS)	9/9/2015	9/8/2016	R0202462	\$64,004	1
Smalley, Daniel		DAQRI	Near Eye Display	3/3/2015	3/3/2016	R0602467	\$54,000	4
Smalley, Daniel		TIPD LLC (AFRL)	TIPD Full-Parallax Phase II	8/1/2014	12/4/2018	R0302573	\$105,000	2
Smalley, Daniel		DAQRI, LLC	Near Eye Display	3/3/2015	3/3/2018	R0602467	\$596,000	4
Smalley, Daniel		Rattan Software (AFRL STTR)	Streaming Model for Field-of-Light Displays	8/1/2016	5/1/2017	R0302693	\$49,106	2
Warnick, Karl	w/ Jeffs, Brian	Associated Universities, Inc./National Radio Astronomy	Advanced Spatial Filtering Methods for RFI Mitigation at the ngVLA	11/2/2016	8/31/2017	R0302709	\$11,830	2

Warnick, Karl	w/ Long, David	Observatory (NSF) NASA	Passive Inspection CubeSat	5/9/2016	5/8/2018	R0162027	\$50,000	1
Warnick, Karl	w/ McLain, Tim	NSF	I/CRC: Center for Unmanned Aircraft Systems (C-UAS)	3/1/2012	2/28/2017	R0112200	\$7,599	1
Warnick, Karl	w/ McLain, Timothy	NSF (NASA)	I/UCRC C-UAS Membership Dues for NASA-Armstrong High Efficiency, Polarization Agile, Wide-Scan	9/1/2012	2/28/2017	R0112221	\$13,280	1
Warnick, Karl		OverHorizon LLC	Electronically Steered Arrays for Ku band Communication On the Move	2/1/2016	12/31/2016	R0602506	\$14,250	4
Warnick, Karl		NSF	REU Supplement - Center for Unmanned Aircraft Systems High Efficiency, Polarization Agile, Wide-Scan	3/1/2012	2/28/2017	R0112282	\$14,500	1
Warnick, Karl		OverHorizon LLC (AFOSR)	Electronically Steered Arrays for Ku band Communication On the Move Satellite Ground Terminals	5/1/2016	9/30/2016	R0302662	\$463,064	2
Wirthlin, Michael		Los Alamos National Security LLC (LANL/DOE)	NSF I/UCRC Center for High Performance Reconfigurable Computing (CHREC) Membership Dues	12/1/2007	3/31/2018	R0302240	\$20,000	2
Wirthlin, Michael		Raytheon	CHREC NSF I/UCRC Membership Dues	11/27/2009	11/27/2017	R0602229	\$20,000	4
Wirthlin, Michael		NSF	I/UCRC CHREC REU Supplement	4/1/2013	3/31/2018	R0112286	\$16,000	1
Wirthlin, Michael		NASA (NSF)	CHREC I/UCRC Interagency Membership	4/1/2013	3/31/2018	R0112266	\$39,329	1
Wirthlin, Michael		NSF	CHREC Phase II - NSF I/UCRC	4/1/2013	3/31/2018	R0112225	\$26,667	1
Wirthlin, Michael		Boeing	CHREC NSF I/UCRC Membership Dues	11/27/2007	3/31/2018	R0602229	\$40,000	4
Wirthlin, Michael		Xilinx	CHREC NSF I/UCRC Membership Dues	11/27/2007	3/31/2018	R0602229	\$40,000	4
Wirthlin, Michael		AFRL (NSF)	CHREC I/UCRC Interagency Membership Dues	4/1/2013	3/1/2018	R0112266	\$40,000	1
Wirthlin, Michael		NASA (NSF)	CHREC I/UCRC Interagency Membership	4/1/2013	3/31/2018	R0112266	\$19,994	1
Wirthlin, Michael		Sandia National Lab	NSF CHREC I/UCRC Membership Dues	8/1/2007	3/31/2018	R0302219	\$40,000	2
Wirthlin, Michael		Altera Corporation	NSF CHREC I/UCRC Membership Dues	5/23/2016	3/31/2018	R0602229	\$40,000	4
Wirthlin, Mike	w/ Long, David	NASA	Passive Inspection CubeSat	5/9/2016	5/8/2018	R0162027	\$50,000	4

Mechanical Engineering

Adams, Bradley		DOE	Development of Enabling Technologies for a Pressurized Dry Feed Oxy-Coal Reactor	10/1/2016	9/30/2019	R0202482	\$386,893	1
Bowden, Anton		Nano Composite Products (NSF)	Piezoresponsive Wearables for Monitoring and Biofeedback of Orthopaedic Pathologies	1/1/2016	12/31/2016	R0302651	\$34,018	2
Bowden, Anton		NSF	REU Supplement - Mobile Gait Analysis via Low-power Piezoresponsive Wearable Sensors	9/1/2015	8/31/2019	R0112312	\$3,334	1
Crockett, Julie		NSF	Deep Ocean Internal Wave Generation in Weak Stratification	8/15/2016	7/31/2019	R0112323	\$232,183	1
Fullwood, David	w/ Bowden, Anton	Nano Composite Products (NSF)	Piezoresponsive Wearables for Monitoring and Biofeedback of Orthopaedic Pathologies	1/1/2016	12/31/2016	R0302651	\$34,018	2
Fullwood, David	w/ Bowden, Anton	NSF	REU Supplement - Mobile Gait Analysis via Low-power Piezoresponsive Wearable Sensors	9/1/2015	8/31/2019	R0112312	\$3,333	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	9/1/2016	8/31/2019	R0112317	\$136,477	1
Fullwood, David		NSF	REU Supplement - Microstructural Foundations of Magnesium Performance Grain Boundary - Dislocation Interactions in Polycrystals: Characterization and Simulation for the Effective Design of High-Ductility Structural Alloys	9/1/2014	8/31/2017	R0112303	\$5,000	1
Fullwood, David		DOE	Designing with Multi-user CAD, Task 57	8/15/2014	8/14/2017	R0202437	\$66,682	1
Gorrell, Steve	w/ Salmon, John	Pratt & Whitney	Development and Delivery of Aerospace Partners for the Advancement of Collaborative Engineering (AeroPACE)	1/29/2016	12/31/2016	R0602505	\$13,333	4
Gorrell, Steve		Boeing	Development and Delivery of Aerospace Partners for the Advancement of Collaborative Engineering (AerosPACE)	12/6/2013	12/31/2016	R0602430	\$88,500	4
Gorrell, Steve		Boeing	Development and Delivery of Aerospace Partners for the Advancement of Collaborative Engineering (AerosPACE)	12/6/2013	5/31/2017	R0602430	\$67,000	4
Gorrell, Steven	w/ Salmon, John	Pratt and Whitney	Lean Design Methods	1/1/2016	12/31/2016	R0602503	\$35,185	4
Gorrell, Steven	w/ Salmon, John	Pratt and Whitney	Designing with Multi-user CAD, Task 57	1/29/2016	12/31/2016	R0602505	\$26,666	4
Homer, Eric	w/ Fullwood, David	DOE	Grain Boundary - Dislocation Interactions in Polycrystals: Characterization and Simulation for the Effective Design of High-Ductility Structural Alloys	8/15/2014	8/14/2017	R0202437	\$66,681	1
Homer, Eric	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	9/1/2016	8/31/2019	R0112317	\$136,478	1
Homer, Eric		DOE	Computational and Experimental Investigation of Cryogenic Grain Boundary Motion for Enhanced Mechanical Behavior and Properties	8/1/2016	7/31/2017	R0202473	\$182,447	1
Howell, Larry	w/ Magleby, Spencer	Intuitive Surgical	Innovative Bellows Designs to Mitigate Flexible Shaft Building	8/1/2016	8/31/2017	R0602525	\$20,000	4
Howell, Larry	w/ Maynes, Daniel	Union Pacific Railroad	Wind Tunnel Testing of Potential Coal Car Cover Design	5/20/2011	12/31/2016	R0602364	\$25,917	4
Howell, Larry		NASA	Fundamentals of 3D Deployable Mechanisms in Space - Fellowship for Alden Yellowhorse	8/1/2015	7/31/2019	R0162022	\$67,020	1
Iverson, Brian	w/ Long, David	NASA	Passive Inspection CubeSat	5/9/2016	5/8/2018	R0162027	\$50,000	1
Iverson, Brian		NASA	Dynamic Control of Radiative Surface Properties with Origami-Inspired Design - Rydge Mulford Fellowship	8/1/2015	7/31/2019	R0162023	\$66,750	1
Iverson, Brian		PerkinElmer	Compact Next-generation GC and MS Instrumentation	6/1/2015	12/31/2017	R0602482	\$79,440	4
Jensen, Brian	w/ Magleby, Spencer	Intuitive Surgical	Innovative Bellows Designs to Mitigate Flexible Shaft Building	8/1/2016	8/31/2017	R0602525	\$20,000	4

Jensen, Brian		Tag Heuer	Fabrication of Carbon Nanotube Composite Mechanisms	10/15/2015	4/30/2016	R0602502	\$30,000	4
Jensen, Brian		TAG Heuer	Fabrication of Carbon Nanotube Composite Mechanisms	12/15/2016	9/30/2017	R0602535	\$30,000	4
Johnson, Oliver		NSF	Using the Effective Diffusivity of Polycrystals to Infer a Complete 5D Structure-Property Model for Hydrogen Diffusivity in Iron Grain Boundaries	9/1/2016	8/31/2019	R0112317	\$136,478	1
Johnson, Oliver		US Synthetic	Evolution of Microstructural Topology	9/1/2016	8/31/2017	R0602527	\$21,312	4
Killpack, Marc		Other Lab, Inc (NASA)	Pneubotics: Membrane-based Robotics for Remote Material Handling	7/1/2015	12/31/2016	R0302634	\$12,269	2
Killpack, Marc		General Dynamics Land Systems (ARL-RCTA)	Information-Based Soldier-Robot Interaction	1/21/2015	1/20/2017	R0302631	\$16,667	2
Magleby, Spencer	w/ Maynes, Daniel	Union Pacific Railroad	Wind Tunnel Testing of Potential Coal Car Cover Design	5/20/2011	12/31/2016	R0602364	\$25,916	4
Magleby, Spencer		Intuitive Surgical	Innovative Bellows Designs to Mitigate Flexible Shaft Building	8/1/2016	8/31/2017	R0602525	\$20,000	4
Mattson, Christopher		NSF	EAGER: Social Impact Modeling for Engineered Products	4/1/2016	3/31/2018	R0112306	\$99,996	1
Maynes, Dan		Concepts NREC	CFD modeling and evaluation of a unique pump design	3/1/2016	11/1/2016	R0602522	\$7,000	4
Maynes, Daniel		Union Pacific Railroad	Wind Tunnel Testing of Potential Coal Car Cover Design	5/20/2011	12/31/2016	R0602364	\$25,917	4
Maynes, Daniel		Concepts NREC	CFD Modeling and Evaluation of a Unique Pump Design	3/1/2016	12/31/2016	R0602522	\$4,000	4
McLain, Tim		NSF	I/CRC: Center for Unmanned Aircraft Systems (C-UAS)	3/1/2012	2/28/2017	R0112200	\$7,600	1
McLain, Timothy	w/ Beard, Randal	NASA (via NSF)	C-UAS I/UCRC: NASA LaRC - NASA Langley Research Center add-on project	9/13/2016	2/28/2017	R0112329	\$9,364	1
McLain, Timothy	w/ Beard, Randall	Utopia Compression (Air Force)	Utopia Compression Membership Dues	9/1/2016	10/31/2018	R0302699	\$45,000	2
McLain, Timothy	w/ Ning, Andrew	FCL Tech Inc.	Conceptual Design of High Altitude Long Endurance Aircraft Using Multidisciplinary Optimization	5/2/2016	5/1/2019	R0602511	\$147,900	4
McLain, Timothy		NSF	Center for Unmanned Aircraft Systems - REU Supplements	3/1/2012	2/28/2017	R0112282	\$8,000	1
McLain, Timothy		NSF (NASA)	I/UCRC C-UAS Membership Dues for NASA-Armstrong	9/1/2012	2/28/2017	R0112221	\$13,281	1
McLain, Timothy		Facebook	C-UAS NSF I/UCRC Membership Dues	5/3/2012	2/28/2017	R0602390	\$40,000	4
McLain, Timothy		NSF	I/UCRC Center for Unmanned Aircraft Systems	3/1/2012	2/28/2017	R0112200	\$37,999	1
McLain, Timothy		NSF	I/UCRC Phase I: Center for Unmanned Aircraft Systems	9/1/2012	2/28/2017	R0112221	\$40,265	1
McLain, Timothy		AFRL/RWF (NSF)	Inter-government agency Membership C-UAS I/UCRC	9/1/2012	2/28/2017	R0112221	\$40,000	1
McLain, Timothy		British Petroleum	NSF C-UAS I/UCRC Membership Dues	6/13/2013	2/27/2017	R0602390	\$40,000	4

McLain, Timothy		Insitu, Inc	NSF I/UCRC C-UAS Membership Dues	1/1/2016	1/1/2017	R0602390	\$40,000	4
McLain, Timothy		AeroVironment Inc.	NSF I/UCRC C-UAS Membership Dues	5/3/2012	6/30/2017	R0602390	\$10,000	4
Nelson, Tracy		GE Global Research	Simulating Inertial Friction Welding of Superalloys Using a Friction Stir Welding Machine	2/29/2016	12/31/2016	R0602509	\$233,590	4
Nelson, Tracy		JFE Steel Corporation	Friction Stir Processing I/UCRC Membership Dues	1/1/2011	12/31/2016	R0602342	\$4,375	4
Nelson, Tracy		GE Global Research	Simulating Inertial Friction Welding of Superalloys Using a Friction Stir Welding Machine	2/29/2016	12/31/2016	R0602509	\$8,440	4
Nelson, Tracy		JFE Steel Corp	Friction Stir Processing I/UCRC	1/1/2011	12/31/2016	R0602342	\$8,750	4
Ning, Andrew		NREL (DOE)	Systems and Engineering of Wind Turbines and Plants	9/24/2014	9/23/2016	R0302576	\$43,472	2
Ning, Andrew		NREL	Systems and Engineering of Wind Turbines and Plants	9/24/2014	9/23/2016	R0302576	\$29,132	2
Ning, Andrew		FCL Tech Inc.	Efficient High-Fidelity Aeroelastic Analysis and Design of Long Endurance Aircraft	5/2/2016	5/1/2019	R0602512	\$213,392	4
Ning, Andrew		FCL Tech Inc.	Conceptual Design of High Altitude Long Endurance Aircraft Using Multidisciplinary Optimization	5/2/2016	5/1/2019	R0602511	\$147,900	4
Ning, Andrew		NREL (DOE)	Systems and Engineering of Wind Turbines and Plants	9/24/2014	10/31/2016	R0302576	\$3,000	2
Red, Ed	w/ Salmon, John	Pratt and Whitney	Designing with Multi-user CAD, Task 57	1/29/2016	12/31/2016	R0602505	\$26,667	4
Red, Ed	w/ Salmon, John	Pratt & Whitney	Designing with Multi-user CAD, Task 57	1/29/2016	12/31/2016	R0602505	\$13,333	4
Salmon, John		Autodesk, Inc.	Autodesk Inventor API Course Development	1/12/2016	1/11/2017	R0602504	\$5,000	4
Salmon, John		Pratt and Whitney	Lean Design Methods	1/1/2016	12/31/2016	R0602503	\$35,185	4
Salmon, John		Pratt and Whitney	Designing with Multi-user CAD, Task 57	1/29/2016	12/31/2016	R0602505	\$26,667	4
Salmon, John		Pratt & Whitney	Designing with Multi-user CAD, Task 57	1/29/2016	12/31/2016	R0602505	\$13,334	4
Salmon, John		Autodesk	Autodesk Inventor API Course Development	1/12/2016	1/11/2017	R0602504	\$5,000	4
Salmon, John		Lockheed Martin Space Systems Company	VR Training and Architectures for Distributed Multi-User VR Design Reviews	10/31/2016	3/24/2017	R0602529	\$30,000	4
Salmon, John		Spirit Aerosystems, Inc.	CAD Neutral Design (Spirit Aerosystems KBE Applications projects)	10/8/2020	10/8/2020	R0602486	\$90,000	4
Sorensen, Carl	w/ Nelson, Tracy	JFE Steel Corporation	Friction Stir Processing I/UCRC Membership Dues	1/1/2011	12/31/2016	R0602342	\$4,375	4
Sorensen, Carl	w/ Nelson, Tracy	GE Global Research	Simulating Inertial Friction Welding of Superalloys Using a Friction Stir Welding Machine	2/29/2016	12/31/2016	R0602509	\$8,439	4
Sorensen, Carl		U of U (NASA) Sandia	University Rover Challenge Capstone Project	8/15/2016	4/9/2017	R0302689	\$11,500	2
Sorensen, Carl		National Lab (DOE)	Robust latching of an environmental sensing device (ESD) - Capstone Project	9/1/2016	6/30/2017	R0302686	\$20,000	2

Sorensen, Carl		Tech. Svc. Corp. (AFRL/AFOSR)	University Engineering Design Challenge - Capstone	8/15/2014	8/14/2017	R0302568	\$20,000	2
Sorensen, Carl		Los Alamos National Security, LLC (LANL)	Capstone Project - Robust latching of an environmental sensing device	10/17/2016	9/30/2017	R0302700	\$20,000	2
Sorenson, Carl	w/ Nelson, Tracy	GE Global Research	Simulating Inertial Friction Welding of Superalloys Using a Friction Stir Welding Machine	2/29/2016	12/31/2016	R0602509	\$233,590	4
Thomson, Scott	w/ Gee, Kent	Zodiac Aerospace Water and Waste System	Phase II: Revolution Toilet Noise Reduction	10/15/2016	10/31/2017	R0602530	\$23,166	4
Thomson, Scott		Midwestern University (Gordon & Betty Moore Foundation via UT Austin)	The evolution of avian vocalization: an integrative approach utilizing the fossil record, physiology of vocal behavior, and comparative transcriptomics	6/1/2016	10/31/2016	R0502234	\$7,112	4
Thomson, Scott		McGill University (NIH)	Design, construction, and evaluation of implants for vocal fold alteration and reconstruction	8/1/2016	7/31/2019	R0302684	\$78,926	2
Thomson, Scott		McGill University (NIH)	Design, construction, and evaluation of implants for vocal fold alteration and reconstruction	8/1/2016	7/31/2019	R0302684	\$54,344	2
Thomson, Scott		Midwestern University (Gordon & Betty Moore Foundation via University of Texas)	The evolution of avian vocalization: an integrative approach utilizing the fossil record, physiology of vocal behavior, and comparative transcriptomics	6/1/2016	2/27/2018	R0502234	\$7,499	4
Tree, Dale		Solar Turbines, In.	BYU-Solar Turbine, Gas Temperature Measurement Proof of Concept	11/18/2016	5/18/2017	R0602533	\$23,000	4
Tree, Dale		DOE	Development of Enabling Technologies for a Pressurized Dry Feed Oxy-Coal Reactor	10/1/2016	9/30/2019	R0202483	\$345,900	1
School of Technology								
Miles, Michael	w/ Fullwood, David	NSF	REU Supplement - Microstructural Foundations of Magnesium Performance	9/1/2014	8/31/2017	R0112303	\$5,000	1
Miles, Michael		UT-Battelle, LLC (DOE)	Solid-State Body-in-White Spot Joining of AI to AHSS at Prototype Scale	11/13/2014	10/26/2017	R0302592	\$100,000	2

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

Department Totals	
Chemical Engineering	\$3,095,648
Civil & Environmental Engineering	\$1,410,335
Electrical & Computer Engineering	\$5,041,395
Mechanical Engineering	\$5,290,787
School of Technology	\$100,000
College Total:	\$14,938,165

Engineering & Technology Source Breakdown of Grants and Contracts

Sponsor	No. Awarded	Amount
Federal Sponsors		
AFOSR	1	\$206,444
AFRL (via NSF)	1	\$40,000
AFRL/RWF (NSF)	1	\$40,000
DOE	5	\$1,416,210
NASA	8	\$865,194
NASA (via NSF)	3	\$78,051
NIH	1	\$1,069,803
NSF	17	\$1,336,435
NSF (NASA)	2	\$79,682
Nuclear Regulatory Commission	1	\$448,430
Office of Nuclear Energy (DOE)	1	\$30,000
PEO STRI SFAE/STRI-KOT	2	\$196,308
U.S. Army	3	\$140,151
US Army PEO STRI	1	\$21,041
US Dept of Veteran's Affairs Health	1	\$31,850
USDA, Forest Service	1	\$119,243
USDA, Forest Service, Rocky Mountain Research Station	1	\$60,000
USGS	1	\$91,636
<i>Total</i>	51	\$6,270,478

Engineering & Technology

Source Breakdown of Grants and Contracts

Federal Subcontracts Sponsors		
Associated Universities, Inc./National		
Radio Astronomy Observatory (NSF)	1	\$23,660
Battelle (INL/DOE)	1	\$5,000
CUAHSI (NSF)	2	\$68,413
General Dynamics Land Systems (ARL-RCTA)	1	\$50,000
IsoTruss Industries (TRI/DOD)	1	\$45,000
Lawrence Berkley National Lab (DOE)	1	\$110,348
LBNL	1	\$100,000
Los Alamos National Security LLC (DOE)	1	\$8,871
Los Alamos National Security LLC (LANL/DOE)	1	\$40,000
Los Alamos National Security LLC (LANL)	1	\$20,000
McGill University (NIH)	2	\$133,270
Nano Composite Products (NSF)	1	\$102,053
NREL	1	\$29,132
NREL (DOE)	2	\$46,472
NSF	2	\$24,000
Other Lab, Inc. (NASA)	1	\$12,269
OverHorizon LLC (AFORSR)	1	\$463,064
Rattan Software (AFRL STTR)	1	\$49,106
Sandia National Lab	1	\$40,000
Sandia National Lab (DOE)	1	\$20,000
Stanford University (NIH)	1	\$72,200
Sustainable Energy Solutions (Ceramatec/DOE)	1	\$75,000
Tech. Svc. Corp (AFRL/AFOSR)	1	\$20,000
TIPD LLC (AFRL)	1	\$105,000
U of U (DOE)	2	\$68,744
U of U (NASA)	3	\$99,600
U of U (Reaction Engineering International/ DOE)	1	\$50,000
UC Santa Cruz (NIH)	2	\$129,500
University of Kansas Research Center	1	\$658,638
University of Texas-Austin (EPA)	1	\$55,863
USU (U.S. Army Dugway Proving)	1	\$30,000
Utah State University (USGS)	1	\$16,140
UT-Battelle, LLC (DOE)	1	\$100,000
Utopia Compression (Air Force)	1	\$90,000
Wavetronix (NSF STTR)	1	\$68,850
<i>Total</i>	44	\$3,121,264

Engineering & Technology

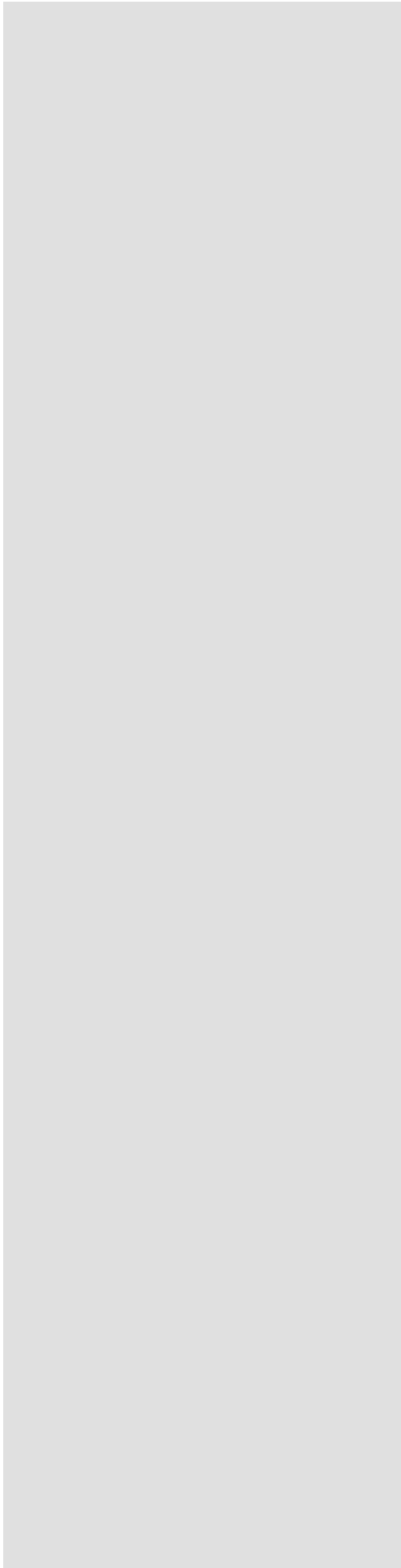
Source Breakdown of Grants and Contracts

State Sponsors

UDOT	8	\$493,001
USTAR	2	\$276,730
<i>Total</i>	10	\$769,731

Private Sponsors

ACUTE Engineering P.C.	1	\$3,000
AeroVironment, Inc.	1	\$10,000
AIChE/DIPPR	2	\$1,190,000
Altera Corporation	1	\$40,000
Autodesk	2	\$10,000
Boeing	3	\$195,500
British Petroleum	1	\$40,000
CISCO Corporation	1	\$35,000
Concepts NREC	2	\$11,000
Convergent Concrete Technologies	1	\$9,500
DAQRI	1	\$54,000
DAQRI, LLC	1	\$596,000
Facebook	1	\$40,000
FCL Tech Inc.	2	\$870,185
Ford Motor Company (URP)	1	\$40,000
GE Global Research	2	\$484,059
Insitu, Inc.	1	\$40,000
Intuitive Surgical	1	\$60,000
JFE Steel Corporation	1	\$8,750
Lockheed Martin Space Systems Company	1	\$30,000
Midwestern University (Gordon & Betty Moore Foundation via UT Austin)	2	\$14,611
Moxtek, Inc.	1	\$9,411
OverHorizon LLC	1	\$14,250
PerkinElmer	1	\$317,760
Pratt and Whitney	3	\$190,370
Raytheon	1	\$40,000
SINTEFF Petroleum AS	1	\$17,804
Solar Turbines, Inc.	1	\$23,000
Spirit Aerosystems, Inc.	1	\$90,000
St. of Orgeon	1	\$24,860
Tag Heuer	2	\$30,000
Timber Frame Engineering Council	1	\$10,000
Union Pacific Railroad	1	\$77,750
US Synthetic	1	\$21,312
Xilinx	1	\$40,000
<i>Total</i>	48	\$14,938,165

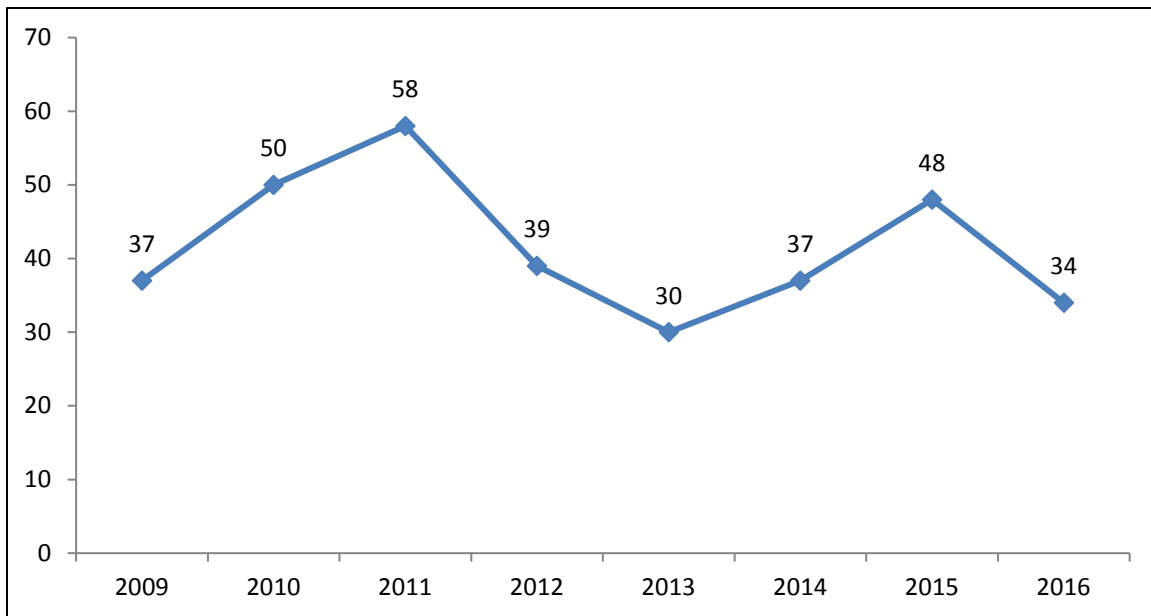


College of Family, Home & Social Sciences

Summary of Sponsored Research (Grants & Contracts)

Department	# of Faculty Submitting	# of Proposals Submitted	# of Awards	Dollars Awarded
Anthropology	4	7	1	\$2,800
Economics	3	3	1	\$4,500
Geography	0	0	0	\$0
History	1	1	2	\$347,500
Museum of Peoples & Cultures	0	0	0	\$0
Office of Public Archaeology	1	1	0	\$97,648
Political Science	3	5	7	\$687,163
Psychology	9	10	8	\$1,118,991
School of Family Life	2	1	0	\$0
Social Work	3	3	2	\$23,647
Sociology	3	3	4	\$51,712
TOTALS	29	34	28	\$2,333,961

Proposal Submission Activity



External Research Funding (All Sources)

Year	Grants/Contracts		Total
	Federal/Federal Subcontracts	State/Private	
2007	\$558,863	\$1,787,919	\$2,346,782
2008	\$619,487	\$2,338,279	\$2,957,766
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



Family, Home & Social Sciences 2016 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>
Anthropology								
Talbot, Richard		U. of Alberta	Promontory Caves Artifact Preparation #3	1/15/2016	4/30/2016	R0570012	\$2,800	4
Economics								
Pope, Clive Arden		U.S. Environmental Protection Agency PTE: Carnegie Mellon University	Center for Air, Climate, and Energy Solutions (CASES)	5/1/2016	4/30/2021	R0302696	\$4,500	2
History								
Shumway, Jeffrey		U of Utah (DOE)	Title VI NRC FLAS	8/14/2014	8/15/2016	R0302595	\$252,000	2
Shumway, Jeffrey		U of Utah(DOE)	Title VI NRC FLAS (Latin American Studies)	8/14/2014	8/15/2017	R0302599	\$95,500	2
Office of Public Archeology								
Talbot, Richard		Institute of Prairie Archaeology	Promontory Collection	2/12/2015	12/31/2015	R0570000	\$5,939	4
Talbot, Richard		US Forest Service	Cultural Resource Identification, Evaluation and Management	7/25/2013	9/30/2016	R0202399	\$25,709	1
Talbot, Richard		LDS Church	Nauvoo - Edward Hunter House Excavation	9/9/2016	3/30/2017	R0702016	\$66,000	4
Political Science								
Bowen, Donna Lee		Texas A&M U. (DOD)	Household Formation Systems, Marriage Markets and Society Stability/Resilience	9/1/2014	8/31/2016	R0302575	\$13,383	2
Bowen, Donna Lee		TAMU(DoD)	Household Formation Systems, Marriage Markets, and Societal Stability/Resilience	9/1/2014	8/31/2017	R0302575	\$75,348	2
Hyer, Eric		DOE	Intermountain Consortium for Asian & Pacific Studies Title VI FLAS	8/15/2014	8/14/2016	R0302597	\$319,500	2
Hyer, Eric		US Department of Education	NRC	8/15/2014	8/14/2017	R0302596	\$100,806	2
Magleby, David		NYU (Hewlett Foundation)	Financing the 2016 Elections	2/11/2016	2/10/2017	R0502226	\$50,000	4
Magleby, David		USU(State of Utah)	Voter Experience Research Using the Utah Colleges Exit Poll	10/6/2016	3/31/2017	R0402288	\$6,950	3
Nielson, Daniel		William and Mary	Where the Money Goes: Mapping Aid for Better Impact	10/1/2012	9/30/2017	R0302482	\$32,447	2
Psychology								
Baldwin, Scott		U. of Wash(NIH)	Evaluating Change in Drinking Identity as a Mechanism for Reducing Hazardous Drinking	5/5/2016	4/30/2021	R0302678	\$26,614	2
Bigler, Erin		Virginia Commonwealth U.(DOD)	Chronic Effects of Neurotrauma Consortium (CENC)	9/30/2013	9/29/2016	R0302548	\$164,112	2
Bigler, Erin		State of Georgia	NeuroImaging	4/30/1991	12/31/2016	R0600381	\$1,100	4
Bigler, Erin		NeuroImaging	NeuroImaging	4/30/1991	12/31/2016	R0600381	\$3,300	4
Bigler, Erin		Nationwide Children's Hospital	Predicting Outcomes in Children with Mild Traumatic Brain Injury	6/1/2015	11/30/2016	R0302540	\$29,826	2

Bigler, Erin		Virginia Commonwealth U. (US Army) Nationwide Children's Hospital	Chronic Effects of Neurotrauma Consortium	9/30/2013	9/29/2017	R0302548	\$168,709	2
Hunsaker, Naomi	w/Bigler, Erin		Predicting Outcomes in Children with Mild Traumatic Brain Injury	6/1/2015	11/30/2016	R0302540	\$29,825	2
Steffensen, Scott		NIH	Nicotine and Alcohol Co-Dependence	6/1/2014	5/31/2019	R0102066	\$131,743	1
Steffensen, Scott		NIH	Neuroplasticity with Alcohol Dependence	8/1/2012	7/31/2017	R0102059	\$100,093	1
Sociology								
Dahlin, Eric	w/Mattson, Christopher	NSF	EAGER: Social Impact Modeling for Engineered Products	4/1/2016	3/31/2018	R0112306	\$99,995	1
Gibbs, Benjamin		Utah Dept of Workforce Services(DHHS) Provo School District (Dept of Ed)	Community Planning Grant to Address Intergenerational Poverty	9/1/2016	6/30/2017	R0302704	\$15,000	2
Ward, Carol		Chief Dull Knife College (NASA)	Provo School District 21st Century After School Program	8/1/2015	9/30/2020	R0302145	\$20,000	2
Ward, Carol		Chief Dull Knife College (NSF)	Connecting Research to Student Success	6/15/2016	5/30/2017	R0302679	\$7,800	2
Ward, Carol		Chief Dull Knife College (NSF)	Evaluation of NSF-funded project: Research Engagement Across Curricular Tracks	10/1/2015	9/30/2017	R0302636	\$8,912	2
Social Work								
Clark, Charlene		Utah Commission on Service & Volunteerism	AmeriCorp 2016	8/15/2016	8/14/2017	R0302697	\$21,897	2
Limb, Gordon		Provo Canyon Behavioral Hospital	PCBH and Social Work Internship Partnership	1/10/2014	4/22/2016	R0602440	\$1,750	4

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

Department Totals	
Anthropology	\$2,800
Economics	\$4,500
Geography	\$0
History	\$347,500
Museum of Peoples & Cultures	\$0
Office of Public Archaeology	\$97,648
Political Science	\$687,163
Psychology	\$1,118,991
School of Family Life	\$0
Social Work	\$23,647
Sociology	\$51,712
College Total:	\$2,333,961

Family, Home & Social Sciences Source Breakdown of Grants and Contracts

Sponsor	No. Awarded	Amount
Federal Sponsors		
NIH	2	\$695,505
US Forest Service	1	\$25,709
<i>Total</i>	3	\$721,214
Federal Subcontract Sponsors		
Chief Dull Knife College (NSF)	1	\$8912
Chief Dull Knife College (NASA)	1	\$7800
DOE	1	\$319,500
Nationwide Children's Hospital	1	\$5,965
Provo School District (Dept of Ed)	1	\$20,000
TAMU (DOD)	2	\$177,460
U of U (DOE)	2	\$347,500
U. of Wash (NIH)	1	\$26,614
U.S. Environmental Protection Agency PTE:		
Carnegie Mellon University	1	\$4,500
US Department of Education	1	\$100,806
Utah Commission on Service & Volunteerism	1	\$21,897
Utah Dept of Workforce Service (DHHS)	1	\$15,000
Virginia Commonwealth U. (DOD)	1	\$164,112
Virginia Commonwealth U. (US Army)	1	\$168,709
William and Mary	1	\$32,447
<i>Total</i>	17	\$1,474,908
State Sponsors		
USU (State of Utah)	1	\$6,950
<i>Total</i>	1	\$6,950
Private Sponsors		
Institute of Prairie Archaeology	1	\$5,939
LDS Church	1	\$6,600
Neuro-Imaging	1	\$3,300
NYU (Hewlett Foundation)	1	\$50,000
Provo Canyon Behavioral Hospital	1	\$1,750
State of Georgia	1	\$110
U. of Alberta	1	\$2,800
<i>Total</i>	7	\$130,889



College of Fine Arts & Communications

Summary of Sponsored Research (Grants & Contracts)

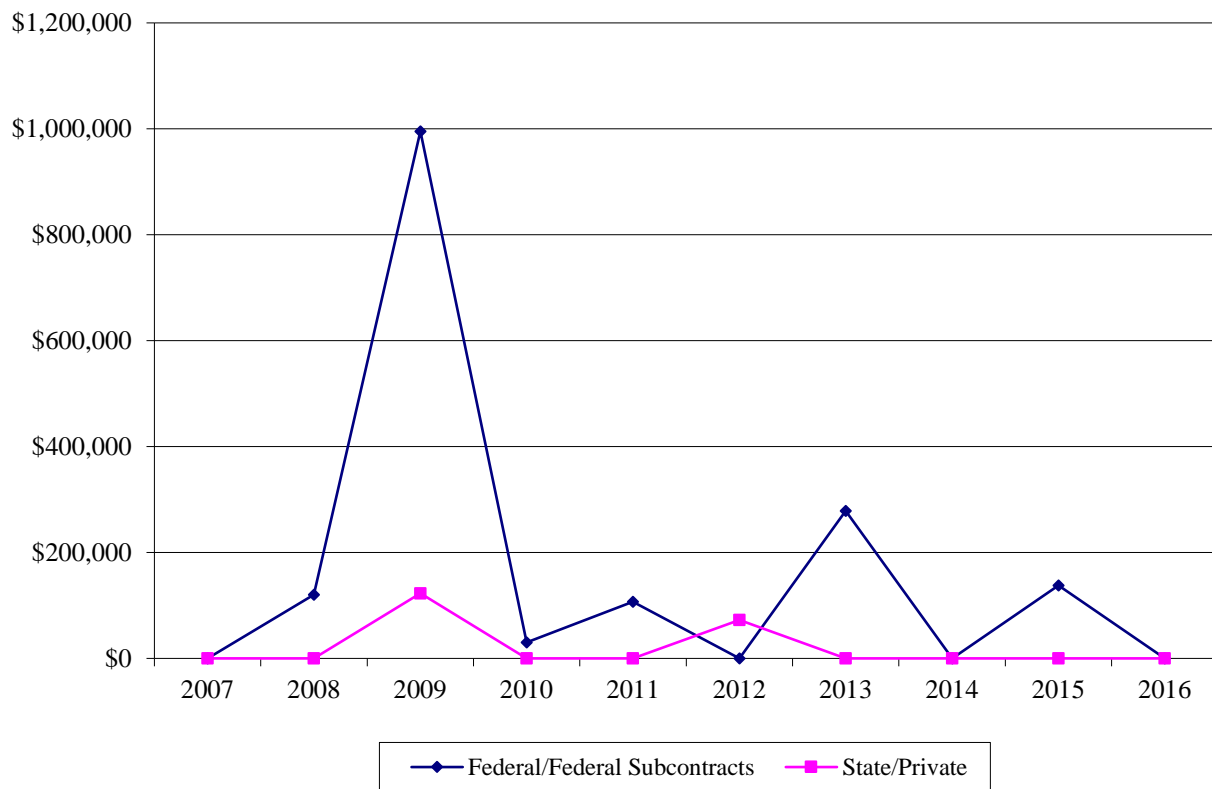
Department	# of Faculty Submitting	# of Proposals Submitted	# of Awards	Dollars Awarded
Communication	0	0	0	\$0
Dance	1	1	0	\$0
Design	1	0	0	\$0
Museum of Art	1	1	0	\$0
School of Music	0	0	0	\$0
Theatre & Media Arts	2	1	0	\$0
Visual Arts	0	0	0	\$0
TOTALS	5	3	0	\$0

Proposal Submission Activity



External Research Funding (All Sources)

Year	Grants/Contracts		Total
	Federal/Federal Subcontracts	State/Private	
2007	\$10,000	\$0	\$10,000
2008	\$0	\$0	\$0
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



Fine Arts & Communications Source Breakdown of Grants and Contracts

<u>Sponsor</u>	<u>No. Awarded</u>	<u>Amount</u>
Federal Sponsors		
None	0	\$0
<i>Total</i>	0	\$0
Federal Subcontract Sponsors		
None	0	\$0
<i>Total</i>	0	\$0
State Sponsors		
None	0	\$0
<i>Total</i>	0	\$0
Private Sponsors		
None	0	\$0
<i>Total</i>	0	\$0

PI Co-PI Sponsor Title Beg Date End Date Account Amount Type

Department Totals

Theatre & Media Arts	\$0
Communications	\$0
Dance	\$0
Museum of Art	\$0
School of Music	\$0
<i>College Total:</i>	\$0

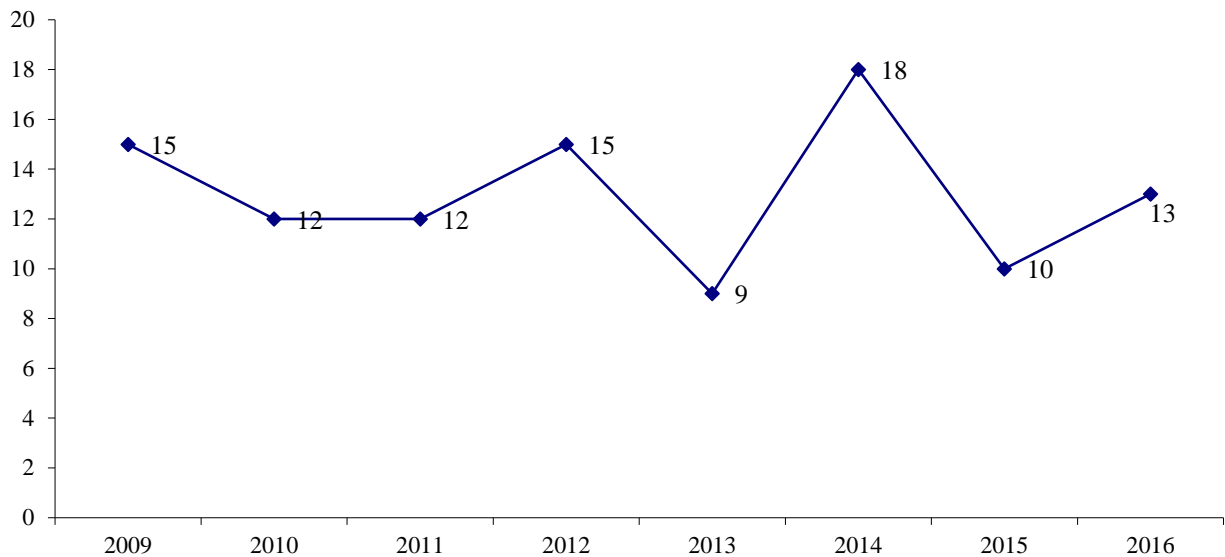


College of Humanities

Summary of Sponsored Research (Grants & Contracts)

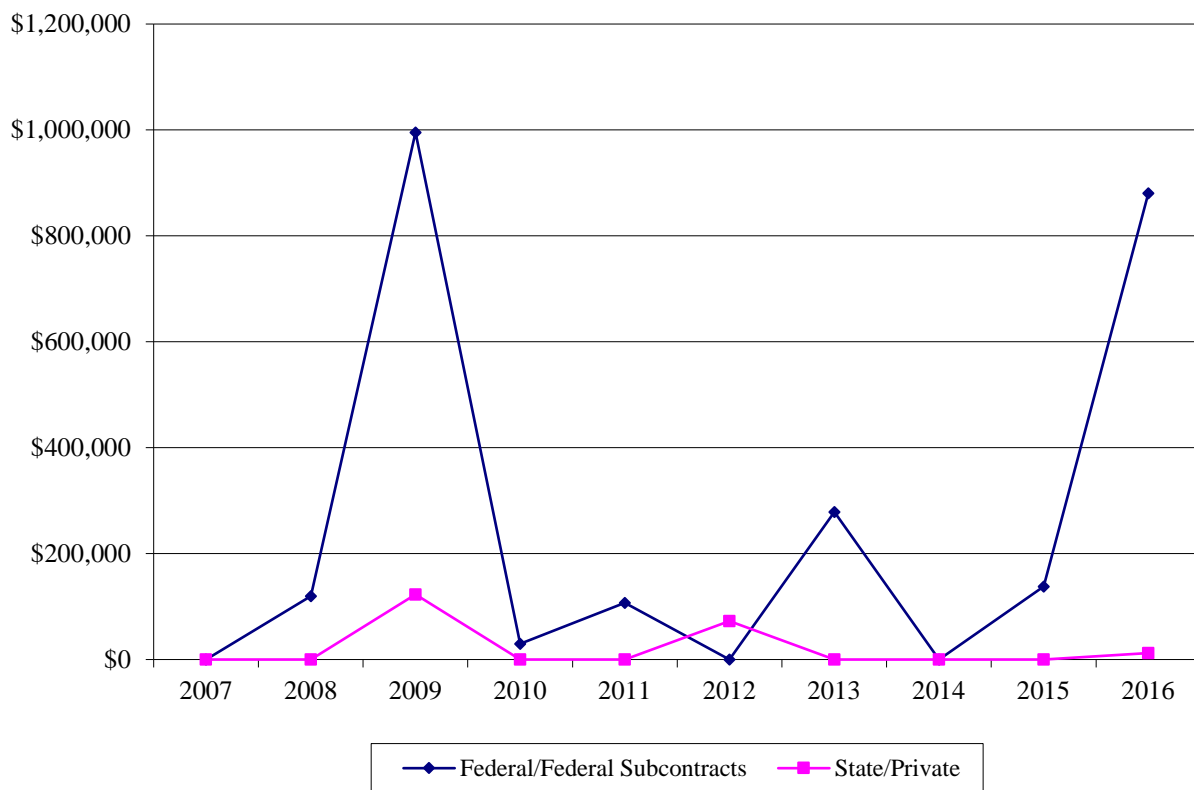
Department	# of Faculty Submitting	# of Proposals Submitted	# of Awards	Dollars Awarded
Asian & Near Eastern Languages	5	8	7	\$865,583
Center for Language Studies	1	1	0	\$0
English	3	1	1	\$15,000
French & Italian	0	0	0	\$0
German & Slavic Languages	0	0	0	\$0
Hum, Classics & Comparative Lit	1	1	1	\$12,320
Linguistics	1	1	0	\$0
Philosophy	1	1	0	\$0
Spanish & Portuguese	0	0	0	\$0
TOTALS	12	13	9	\$892,903

Proposal Submission Activity



External Research Funding (All Sources)

Year	Grants/Contracts		Total
	Federal/Federal Subcontracts	State/Private	
2007	\$0	\$0	\$0
2008	\$120,000	\$0	\$0
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



Humanities 2016 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>
Asian & Near Eastern Languages								
Christensen, Matt		IIE	Flagship - Domestic	6/1/2012	8/31/2016	R0302468	\$25,573	2
Christensen, Matt		IIE (NSEP)	Chinese Flagship Center (Domestic)	9/1/2016	5/31/2020	R0302688	\$271,775	2
Christensen, Matthew		IIE (NSEP)	2016-17 Flagship Student Support	4/1/2016	5/31/2017	R0302663	\$30,000	2
Christensen, Matthew		IIE (NSEP)	2016-17 Flagship Student Support	4/1/2016	5/31/2017	R0302663	\$54,000	2
Christensen, Matthew		IIE through National Security	K-12 Program	11/1/2014	9/29/2016	R0302589	\$9,000	2
Christensen, Matthew		IIE	Chinese Overseas Flagship Program	6/1/2015	1/31/2017	R0302628	\$385,236	2
Riep, Steve		NSA	BYU Chinese STARTALK Program 2016	3/18/2016	2/28/2017	R0202464	\$90,000	1
English								
Dean, Deborah		DoED	2016-17 NWP Seed Invitation Leadership Institute	5/1/2016	8/30/2017	R0302660	\$15,000	2
Humanities								
Kramer, Nate		CIMO	Development Grant: Teaching Finnish language and culture	9/1/2016	8/31/2018	R0570014	\$12,320	4

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

Department Totals	
Asian & Near Eastern Languages	\$865,583
Center for Language Studies	\$0
English	\$15,000
French & Italian	\$0
German & Slavic Languages	\$0
Hum, Classics & Comparative Lit	\$12,320
Humanities Research Center	\$0
Linguistics	\$0
Philosophy	\$0
Spanish & Portuguese	\$0
College Total:	\$892,903

Humanities

Source Breakdown of Grants and Contracts

Sponsor	No. Awarded	Amount
Federal Sponsors		
NSA	1	\$90,000
<i>Total</i>	1	\$90,000
Federal Subcontracts Sponsors		
DoED	1	\$15,000
IIE	2	\$410,809
IIE (NSEP)	3	\$355,774
IIE through National Security	1	\$9,000
<i>Total</i>	9	\$790,583
State		
None	0	0
<i>Total</i>	0	0
Private		
CIMO	1	\$12,320
<i>Total</i>	0	\$12,320

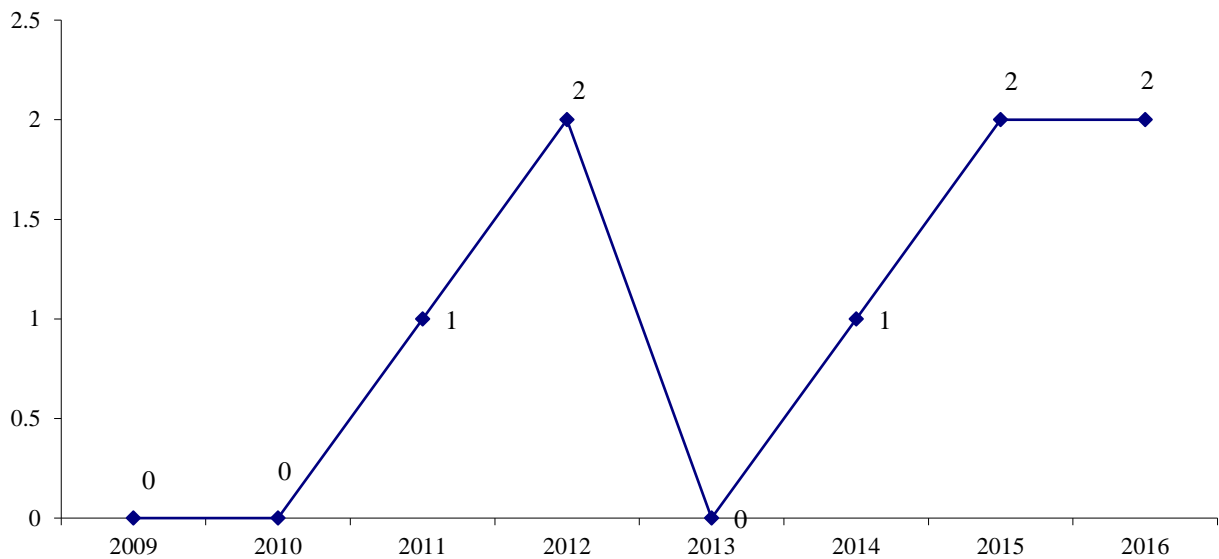


J. Reuben Clark Law School

Summary of Sponsored Research (Grants & Contracts)

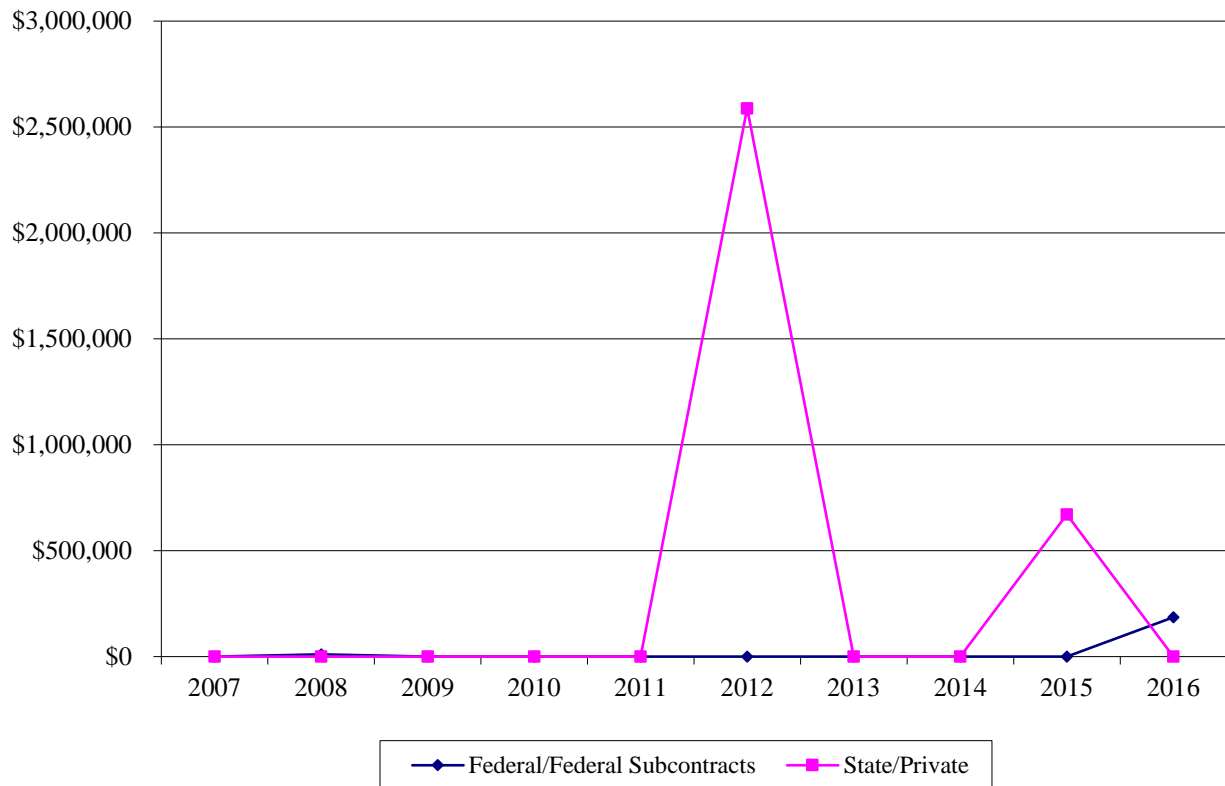
Department	# of Faculty Submitting	# of Proposals Submitted	# of Awards	Dollars Awarded
Law School	5	2	1	\$185,790
TOTALS	5	2	1	\$185,790

Proposal Submission Activity



External Research Funding (All Sources)

Year	Grants/Contracts		Total
	Federal/Federal Subcontracts	State/Private	
2007	\$0	\$0	\$0
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



J. Reuben Clark Law School 2016 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>Law</i> Jensen, Eric		DOD	IPA	8/22/2016	8/19/2017	R0202480	\$185,790	1

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

Department Totals	
Law School	\$185,790
College Total:	\$185,790

J. Reuben Clark Law School

Source Breakdown of Grants and Contracts

Sponsor	Number Awarded	Total Amount
Federal		
	1	\$185,790
<i>Total</i>	1	\$185,790
Subcontracts		
None	0	
<i>Total</i>	0	\$0
State		
None	0	
<i>Total</i>	0	\$0
Private		
None	0	
<i>Total</i>	0	\$0

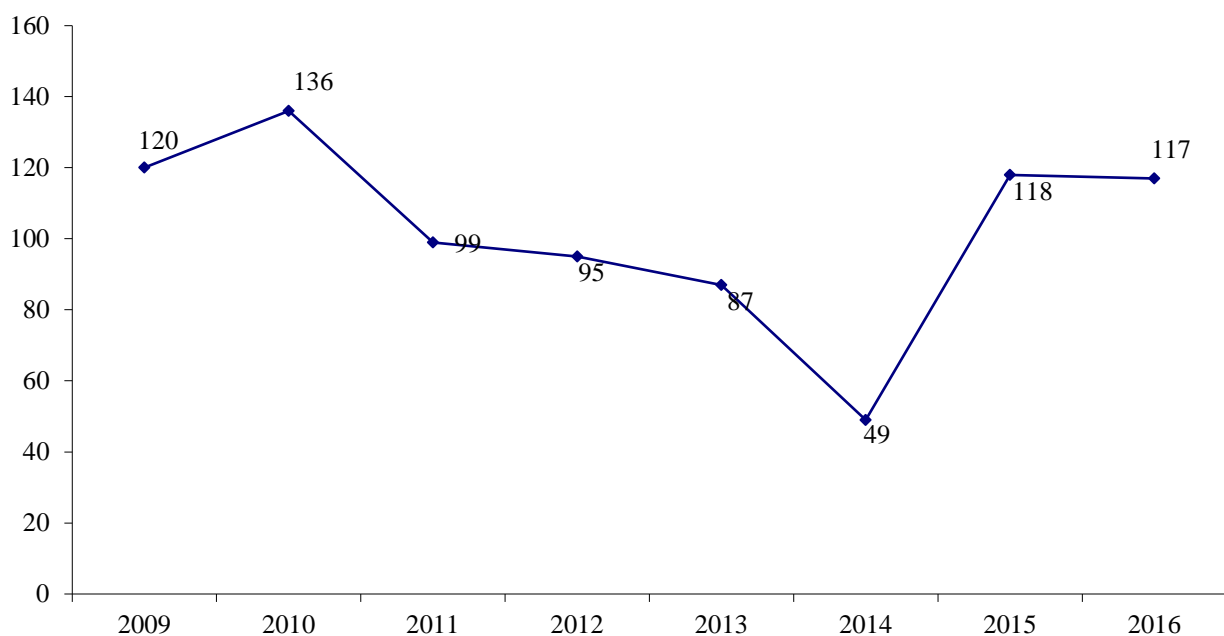


College of Life Sciences

Summary of Sponsored Research (Grants & Contracts)

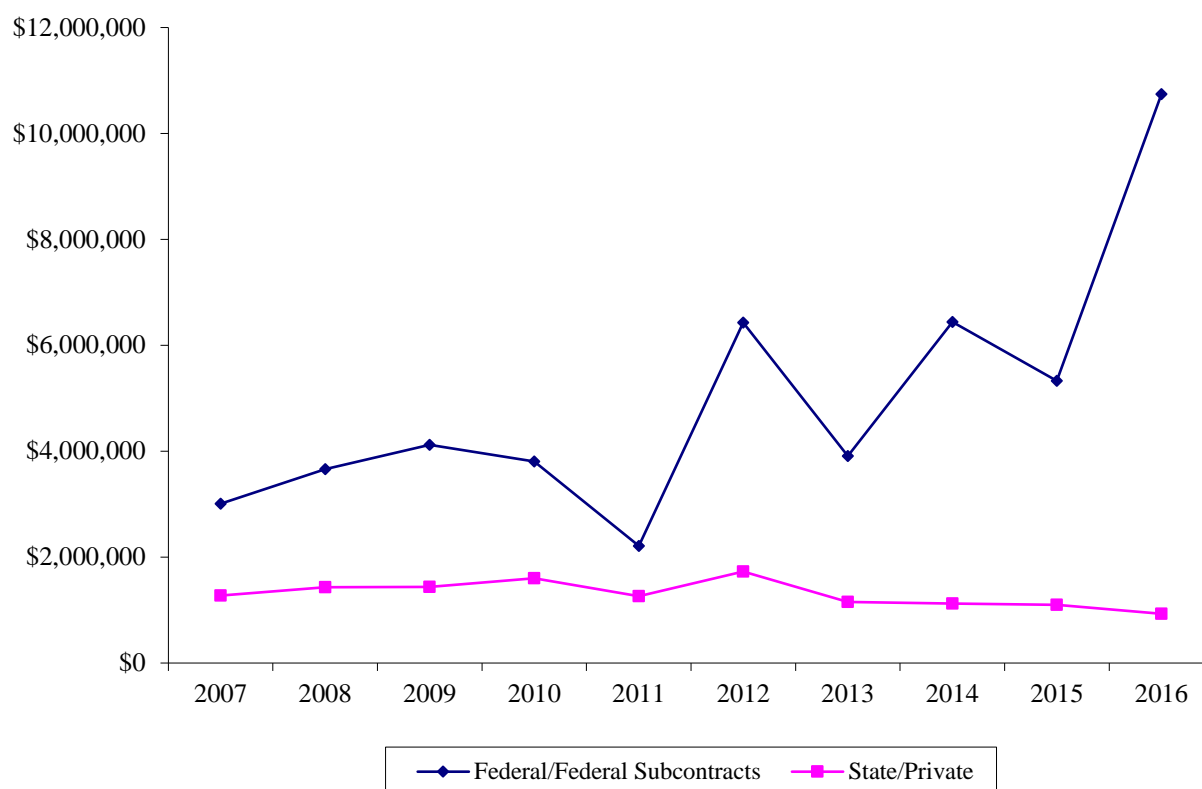
Department	# of Faculty Submitting	# of Proposals Submitted	# of Awards	Dollars Awarded
Monte Bean Life Science Museum	0	0	0	\$0
Biology	17	25	25	\$5,326,554
Exercise Science	10	11	4	\$16,395
Health Science	6	5	0	\$0
Microbiology & Molecular Biology	9	11	10	\$473,889
Nutrition, Dietetics & Food Science	10	15	7	\$392,500
Physiology & Developmental Biology	12	21	6	\$836,291
Plant & Wildlife Science	20	29	33	\$4,627,468
TOTALS	84	117	85	\$11,673,097

Proposal Submission Activity



External Research Funding (All Sources)

Year	Grants/Contracts		Total
	Federal/Federal Subcontracts	State/Private	
2007	\$3,010,438	\$1,275,431	\$4,285,869
2008	\$3,661,543	\$1,432,866	\$5,094,409
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



College of Life Sciences 2016 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>
Biology								
Adams, Byron	w/Bybee, Seth	NSF	MRI: Acquisition of an PacBio Sequel System	9/1/2016	8/31/2019	R0112320	\$51,287	1
Adams, Byron		NSF	Increased Connectivity in a Polar Desert Resulting from Climate Warming; McMurdo Dry Valley LTER Program	4/15/2011	3/31/2017	R0302397	\$38,915	2
Adams, Byron		NSF	Collaborative Research: The Role of Glacial History on the Structure and Functioning of Ecological Communities in the Shackleton Glacier Region of the Transantarctic Mountains	9/1/2016	8/31/2019	R0112325	\$360,781	1
Belk, Mark		Ecostatys(Wyo Wildlife)	A Population Growth Rate Model from Climate Correlates of cyclic abundance patterns in Wyoming Greater Sage Grouse	7/1/2016	6/30/2018	R0470008	\$20,567	4
Bybee, Seth		NSF	RET Myrup and Shuler	2/18/2016	1/31/2019	R0112304	\$30,000	1
Bybee, Seth		NSF	REU_ Phylogenomics, Revisionary Systematics, and Evolution of the Visual Systems in Dragonflies and Damselflies (Insecta-Ononata)	3/4/2015	1/31/2019	R0112275	\$12,500	1
Bybee, Seth		NSF	DEB Proposal: Phylogenomics, Revisionary Systematics, and Evolution of the Visual Systems in Dragonflies and Damselflies	2/15/2013	1/31/2019	R0112227	\$8,251	1
Bybee, Seth		NSF	Pylogenomics, Revisionary Systematics, and Evolution of the Visual Systems in Dragonflies and Damselflies(Insecta: Ononata)	2/15/2013	1/31/2019	R0112227	\$40,947	1
Bybee, Seth		NSF	MRI: Acquistiion of an PacBio Sequel System	9/1/2016	8/31/2019	R0112320	\$51,288	1
Gill, Richard	w/Aanderud, Zachary	Utah State U.(NSF)	Critical Zone Processes Mediating and Responding to Dust Generation and Transport	8/1/2012	7/31/2017	R0302477	\$73,802	2
Johnson, Robert	w/Stevens, Mikel	USDA Forest Service	Morphological and Genetic Characterization of Blue Penstemon	8/27/2015	4/20/2020	R0202455	\$17,501	1
Kauwe, John	w/Bybee, Seth	NSF	MRI: Acquistiion of an PacBio Sequel System	9/1/2016	8/31/2019	R0112320	\$51,287	1

Kauwe, John		NIH	Research Supplements to Promote Diversity in Health-Related Research(Alan Alohikea)	9/15/2015	12/31/2017	R0102073	\$31,113	1
Kauwe, John		NIH	Research Supplements to Promote Diversity in Health-Related Research(Brooke Spencer)	9/15/2015	12/31/2017	R0102074	\$31,113	1
Kauwe, John		NIH	Pleitropic and interaction Effects on Alzheimer's disease Risk and Progression	9/1/2012	12/31/2017	R0102062	\$220,810	1
Kauwe, John		NIH	Research Supplements to Promote Diversity in Health-Related Research (Alan Alohikea)	9/15/2015	12/31/2017	R0102073	\$3,457	1
Kauwe, John		NIH	Research Supplements to Promote Diversity in Health-Related Research (Brooke Spencer)	9/15/2015	12/31/2017	R0102074	\$3,457	1
Kauwe, John		NIH	Epidemiology of Alzheimer's Disease Resilience and Risk Pedigrees	9/1/2012	12/31/2017	R0102062	\$24,535	1
Kauwe, John		NIH	Epidemiology of Alzheimer's Disease Resilience and Risk Pedigrees	5/1/2016	12/31/2017	R0102062	\$95,280	1
Kauwe, John		Monsanto Fund	Molokai High School Science Internships and Collaboration	4/1/2016	3/31/2017	R0502232	\$20,000	4
Kauwe, John		NIH	Epidemiology of Alzheimer's disease resilience and risk pedigrees	9/1/2016	6/30/2021	R0102079	\$3,528,416	1
Shiozawa, Dennis		UDWR	Stable Isotope Analysis of the Strawberry Reservoir Ecosystem	1/12/2016	7/1/2017	R0402280	\$1,980	3
Shiozawa, Dennis		Colorado Parks & Wildlife	Fish Sample Testing	3/1/2016	2/28/2021	R0470005	\$1,139	4
Sites, Jack		NSF	Lizards of the Family Teiidae: phylogeny, historical biogeography, and continental-scale species delimitation	5/1/2016	8/31/2017	R0112309	\$15,428	1
St.Clair, Larry		Forest Service	AQ Bio-Monitoring Program	7/27/2012	12/31/2016	R0202369	\$4,000	1
Whipple, Clint	w/Bybee, Seth	NSF	MRI: Acquisition of an PacBio Sequel System	9/1/2016	8/31/2019	R0112320	\$51,287	1
Whipple, Clinton		NSF	Career: Genetic Networks of Bract Suppression in Maize	5/1/2013	4/30/2018	R0112228	\$140,000	1
Whipple, Clinton		NSF	Career: Genetic Networks of Bract Suppression in Maize	5/1/2013	4/30/2018	R0112228	\$20,976	1
Whipple, Clinton		NSF	CAREER: Genetic Networks of Bract Suppression in Maize	5/1/2013	4/30/2018	R0112228	\$115,633	1
Whiting, Michael	w/ Bybee, Seth	NSF	DEB Proposal: Phylogenomics, Revisionary Systematics, and Evolution of the Visual Systems in Dragonflies and Damselflies	2/15/2013	1/31/2019	R0112227	\$8,251	1

Whiting, Michael	w/ Bybee, Seth	NSF	Pylogenomics, Revisionary Systematics, and Evolution of the Visual Systems in Dragonflies and Damselflies (Insecta: Ononata)	2/15/2013	1/31/2019	R0112227	\$40,947	1
Whiting, Michael		NSF	S.G.: Investigating a cross-kingdom convergence: The phylogeny of stick insects and the evolution of masquerade crypsis (Insecta: Phasmatodea)	3/1/2016	2/28/2019	R0112305	\$149,999	1

Exercise Science

Bruening, Dustin	w/Ridge, Sarah	HD Sports Limited	The effect of a new figure skate blade design on impact forces	7/1/2016	9/1/2016	R0570015	\$2,197	4
Bruening, Dustin		US Figure Skating Assoc	A Device to Monitor Jump Count, Jump Height, and Rotation Speed in Figure Skating	7/1/2016	12/31/2016	R0502233	\$1,250	4
Hunter, Iain		USA Track and Field	Analysis of Distance Running	10/4/2003	7/1/2017	R0502040	\$7,000	4
Ridge, Sarah	w/ Bruening, Dustin	US Figure Skating Assoc	A Device to Monitor Jump Count, Jump Height, and Rotation Speed in Figure Skating	7/1/2016	12/31/2016	R0502233	\$1,250	4
Ridge, Sarah		HD Sports Limited	The effect of a new figure skate blade design on impact forces	7/1/2016	9/1/2016	R0570015	\$2,198	4
Seeley, Matt		NATA Foundation	Effects of experimental anterior knee pain on knee articular cartilage morphology and composition, lower-extremity neuro-mechanics, and blood biomarkers	8/23/2016	12/31/2017	R0502236	\$2,500	4
Seeley, Matthew	w/ Bowden, Anton	Nano Composite Products (NSF)	Piezoresponsive Wearables for Monitoring and Biofeedback of Orthopaedic Pathologies	1/1/2016	12/31/2016	R0302651	\$34,017	2
Seeley, Matthew	w/ Bowden, Anton	NSF	REU Supplement - Mobile Gait Analysis via Low-power Piezoresponsive Wearable Sensors	9/1/2015	8/31/2019	R0112312	\$3,333	1

LSCI

Sloan, Chantel	w/ Heaton, Matt	NIH/NIEHS	Modeling Environmental Impacts on Health in the Presence of Spatial Uncertainty	4/15/2015	3/31/2017	R0102070	\$23,427	1
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Microbiology & Molecular Biology

Berges, Bradford		KP Biosciences	Characterization of anti-herpesvirus compounds from extracts of K. pinnata	7/1/2016	6/30/2017	R0602521	\$7,500	4
Evans, R. Paul	W/Shiozawa, Dennis	Colorado Parks & Wildlife	Fish Sample Testing	3/1/2016	2/28/2021	R0470005	\$1,138	4
Grose, Julianne		NIH	Regulation and Functions of PAS Kinase - PASSing Glucose to Control Respiration lipogenesis and cell cycle	3/1/2012	1/31/2019	R0102056	\$365,453	1

Grose, Julianne		NIH	Molecular Mechanisms of Yeast PAS Kinase Activation and Function	3/1/2012	1/31/2019	R0102056	\$73,765	1
Grose, Julianne		U of Ariz.(USDA)	Manipulation of Phage-Derived Bacteriocin Production as a Novel Antimicrobial Treatment for Bacterial Phytopathogens	2/1/2016	1/31/2017	R0302666	\$7,000	2
Grose, Julianne		UC Davis (USDA)	IR-4 Minor Crop Pest Management/2016 Utah IR-4 Biopesticide Project	8/1/2015	7/31/2017	R0302680	\$5,000	2
Robison, Richard	w/ Austin, Daniel	NASA	Microorganism Survivability in High-velocity Impacts	6/15/2015	6/14/2018	R0162025	\$61,868	1
Robison, Richard	w/ Hawkins, Aaron	NIH	Multiplexed, Non-Amplified, Nucleic Acid-Based Identification of Multidrug Pathogens Using an Integrated Optofluidic Platform	3/1/2015	2/28/2017	R0102068	\$267,450	1
Robison, Richard		Solutions Bio Med	Antimicrobial Materials and Select Agents	6/17/2005	6/30/2016	R0602144	\$3,000	4
Robison, Richard		Solutions BioMed	Antimicrobial Materials and Select Agents	6/17/2005	6/30/2017	R0602144	\$5,000	4
Robison, Richard		Solutions BioMed	Antimicrobial Materials and Select Agents	6/17/2005	6/30/2017	R0602144	\$3,000	4
Robison, Richard		Solutions BioMed	Antimicrobial Materials and Select Agents	6/17/2005	6/30/2017	R0602144	\$2,000	4
Robison, Richard		S-Bio Med	Antimicrobial Materials and Select Agents	6/17/2005	6/30/2017	R0602144	\$2,172	4

Nutrition, Dietetic, & Food Science

Dunn, Michael	w/Kenealey, Jason	General Mills	General Research(Charter 4)	5/10/2016	5/17/2017	R0602516	\$22,500	4
Dunn, Michael	w/Maughan, Peter J.	General Mills	General Research(Charter 1)	5/10/2016	5/17/2017	R0602513	\$45,000	4
Dunn, Michael	w/Steele, Frost	General Mills	General Research(Charter 3)	5/10/2016	5/17/2017	R0602515	\$38,333	4
Dunn, Michael		General Mills	General Research(Charter 2)	5/10/2016	5/17/2017	R0602514	\$21,667	4
Dunn, Michael		Utah State U.(BUILD)	Effect of LED Lighting on flavor and vitamin stability in skim and whole fluid milk	9/1/2015	8/31/2017	R0502214	\$18,000	2
Kenealey, Jason		General Mills	General Research(Charter 4)	5/10/2016	5/17/2017	R0602516	\$22,500	4
Pike, Oscar	w/Dunn, Michael	General Mills	General Research(Charter 2)	5/10/2016	5/17/2017	R0602514	\$21,666	4
Pike, Oscar	w/Maughan, Peter J.	General Mills	General Research(Charter 1)	5/10/2016	5/17/2017	R0602513	\$45,000	4
Pike, Oscar	w/Stewart, Ryan	Dine College(USDA)	Weaving a Complete Picture of a Traditional Navajo Food and Fiber Crop: Characterization of the Nutritional and Physical	9/1/2015	8/31/2017	R0302642	\$8,250	2
Steele, Frost		Deseret Meats	Pathogen Analysis for LDS Welfare Services	3/1/2001	Ongoing	R0702001	\$28,000	4

			Houston Peanut Butter Plant					
Steele, Frost		Deseret Meats	Pathogen Analysis for Meat Products Produced at Deseret Meats	3/1/2001	Ongoing	R0702001	\$45,000	4
Steele, Frost		General Mills	General Research(Charter 3)	5/10/2016	5/17/2017	R0602515	\$38,334	4
Steele, Frost		(USU) Western Dairy Center	Determining enzymatic activity endpoints in enzyme modified cheeses through measurement of pH and water activity over time	1/1/2017	12/31/2018	R0502240	\$31,500	4

Physiology & Developmental Biology

Alder, Jonathan		NIH	Mechanisms of Telemere-Mediated Emphysema	7/1/2014	6/30/2017	R0102067	\$249,000	1
Arroyo, Juan	w/ Reynolds, Paul	FAMRI	RAGE and SAGE: Modeling Secondhand Smoke-Induced COPD and Therapeutic Modalities	7/1/2016	6/30/2017	R0502229	\$54,250	4
Busath, David		WAESO (ASU)	Influenza Drug Discovery	5/1/2016	8/31/2016	R0302669	\$378	2
Busath, David		ASU (NSF)	WAESO - Influenza Drug Discovery	9/1/2016	8/31/2017	R0302643	\$378	2
Edwards, Jeff	w/Steffensen, Scott	NIH	Neuroplasticity with Alcohol Dependence	8/1/2012	7/31/2017	R0102059	\$100,093	1
Edwards, Jeffrey	w/ Steffensen, Scott	NIH	Nicotine and Alcohol Co-Dependence	6/1/2014	5/31/2019	R0102066	\$131,742	1
Edwards, Jeffrey		NIH	Ventral Tegmental Area GABA Neurons:A novel target of marijuana drug abuse	9/15/2016	8/31/2019	R0102078	\$450,000	1
Hansen, Jason		U of Mass-Amherst (NIH)	Activation of Nrf2 during embryonic development:mechanisms and consequences	6/1/2016	5/31/2017	R0302683	\$28,035	2
Reynolds, Paul		FAMRI	RAGE and SAGE: Modeling Secondhand Smoke-Induced COPD and Therapeutic Modalities	7/1/2016	6/30/2017	R0502229	\$54,250	4
Sudweeks, Sterling	w/ Steffensen, Scott	NIH	Nicotine and Alcohol Co-Dependence	6/1/2014	5/31/2019	R0102066	\$131,742	1
Sudweeks, Sterling	w/Steffensen, Scott	NIH	Neuroplasticity with Alcohol Dependence	8/1/2012	7/31/2017	R0102059	\$100,092	1

Plat & Wildlife Sciences

Aanderud, Zach	w/ Carling, Greg	NSF	Collaborative Research: Investigation of the Fate and Transport of Dust-Borne Trace Metals and Solutes During Snowmelt Critical Zone Process	7/15/2015	6/30/2018	R0112291	\$29,954	1
Aanderud, Zachary		NSF(EPSCOR)	mediating and responding to dust generation and transport	8/1/2012	7/31/2016	R0302477	\$1,890	2
Aanderud, Zachary		Utah State U.(NSF)	Critical Zone Processes Mediating and	8/1/2012	7/31/2017	R0302477	\$73,803	2

Responding to Dust Generation and Transport								
Allen, Phil	w/Jolley, Greg	US Army(Dugway)	Continued Landscape Design for the U.S. Army Dugway Proving Ground: FY 2016 Extension	5/1/2016	12/31/2017	R0190002	\$21,450	1
Anderson, Val Jo		USDA/USFS	Rangeland Health Assessments, Wasatch Plateau	5/17/2012	9/30/2016	R0202363	\$75,223	1
Anderson, Val Jo		USDA, Manti La-Sal National Forest	Rangeland monitoring and impacts of domestic bee on native pollinators	6/28/2016	7/31/2021	R0202475	\$160,296	1
Chaston, John	w/Robins, Todd	Alpaca Research Foundation	Developing probiotic and prebiotic treatments for low body condition in alpacas	9/1/2016	3/30/2019	R0502239	\$826	4
Coleman, Craig		USDA Forest Service	Manipulating Cheat Grass Stand Failure as a Tool for Fire Risk Reduction and Sagebrush Steppe Restoration	7/18/2016	9/30/2019	R0202476	\$27,000	1
Geary, Brad		USDA Forest Service	Buffalograss Biocontrol in the Sonoran Desert with Foliar Fungal Pathogens and their Phytotoxic Metabolites	8/30/2013	12/31/2017	R0202407	\$30,000	1
Hansen, Neil	w/ Carling, Greg	Provo City Water Resources	Literature review of arsenic geochemistry ad remediation options in groundwater	5/27/2016	9/1/2016	R0492045	\$2,880	3
Hansen, Neil		UDWR	Connecting the Biocycling of Watershed Phosphorus with Synoptic Surface Water Sampling in the Upper Strawberry River Watershed	12/1/2015	6/30/2016	R0402279	\$17,651	3
Jellen, Eric		University of North Carolina-Charlotte(NSF)	ABR-PG:Sequencing the Hexaploid Oat Genome using Diploid References	8/1/2015	7/31/2017	R0302627	\$123,213	2
Jellen, Eric	w/Dunn, Michael	General Mills	General Research(Charter 2)	5/10/2016	5/17/2017	R0602514	\$21,667	4
Jellen, Eric	w/Kenealey, Jason	General Mills	General Research(Charter 4)	5/10/2016	5/17/2017	R0602516	\$22,500	4
Jellen, Eric	w/Maughan, Peter J.	General Mills	General Research(Charter 1)	5/10/2016	5/17/2017	R0602513	\$45,000	4
Jellen, Eric	w/Steele, Frost	General Mills	General Research(Charter 3)	5/10/2016	5/17/2017	R0602515	\$38,333	4
Jolley, Greg		US Army(Dugway)	Continued Landscape Design for the U.S. Army Dugway Proving Ground: FY 2016 Extension	5/1/2016	12/31/2017	R0190002	\$21,450	1
Larsen, Randy	w/Petersen, Steven	Hill AFB	Natural Resources Program Support for Utah Test and Training Range	9/22/2014	9/21/2017	R0202433	\$245,000	1
Larsen, Randy	w/St. Clair, Sam	UDWR	Assessment of disturbance size and ecological conditions on wildlife impacts of aspen regeneration in Utah	7/1/2016	8/31/2017	R0402282	\$30,266	3
Larsen, Randy		URM&CC	Recovery of Greater Sage-grouse in Strawberry Valley	7/1/2014	9/30/2019	R0202428	\$65,000	1
Larsen, Randy		State of Hawaii	Ecology of Mouflon Sheep in Hawaii: Ultra-sound Support	6/1/2016	6/30/2017	R0470009	\$3,752	4

Larsen, Randy		State of Hawaii	Ecology of Mouflon Sheep in Hawaii: Data Analysis-Phase I	6/1/2016	6/30/2017	R0470007	\$7,346	4
Larsen, Randy		BLM	BLM Utah Special Status and Other Special Wildlife Inventories in Utah	9/20/2014	9/30/2019	R0202436	\$90,000	1
Madsen, Matthew		Oregon State F&W(US F&WS)	Optimizing the Timing of Seed Germination within Favorable Windows for Plant Environment	2/18/2016	6/30/2016	R0302656	\$90,000	2
Madsen, Matthew		USDA	Targeted Spring Grazing on the Kaibab Plateau	3/15/2016	6/3/2016	R0302674	\$2,800	2
Madsen, Matthew		Oregon DFW (US Fish & Wildlife)	Optimizing the Timing of Seed Germination within Favorable Windows for Plant Establishment	7/14/2016	6/30/2017	R0302681	\$110,000	2
Madsen, Matthew		Great Basin National Park	Understanding Limitations to Native Plant Establishment in the Great Basin National Park and use of Novel Seed Enhancement Technologies	9/12/2016	12/31/2019	R0202481	\$122,333	1
Maughan, Peter	w/Jellen, Eric	University of North Carolina-Charlotte(NSF)	ABR-PG:Sequencing the Hexaploid Oat Genome using Diploid References	8/1/2015	7/31/2017	R0302627	\$123,213	2
Maughan, Peter		ARS-USDA	Techniques and improved efficiency in next generation sequencing	9/15/2016	8/14/2019	R0202485	\$27,775	1
Maughan, Peter J.	w/Kenealey, Jason	General Mills	General Research(Charter 4)	5/10/2016	5/17/2017	R0602516	\$22,500	4
Maughan, Peter J.		General Mills	General Research(Charter 1)	5/10/2016	5/17/2017	R0602513	\$45,000	4
McMillan, Brock	w/Larsen, Randy	State of Hawaii	Ecology of Mouflon Sheep in Hawaii: Ultra-sound Support	6/1/2016	6/30/2017	R0470009	\$3,751	4
McMillan, Brock	w/Larsen, Randy	State of Hawaii	Ecology of Mouflon Sheep in Hawaii: Data Analysis-Phase I	6/1/2016	6/30/2017	R0470007	\$7,345	4
McMillan, Brock	w/Larsen, Randy	BLM	BLM Utah Speacial Status and Other Special Wildlife Inventories in Utah	9/20/2014	9/30/2019	R0202436	\$90,000	1
Petersen, Steven		The Nature Conservancy	Mapping Marine and Terrestrial Conservation Areas in Cuba	9/1/2015	9/30/2017	R0502219	\$22,500	4
Petersen, Steven		USDA, Forest Service, Rocky Mountain Research Station	Vegetation Succession in Post-Fire Seeding Treatments and Trends in Tintic Valley, Utah	7/29/2016	3/31/2018	R0202474	\$27,518	1
Petersen, Steven		Hill AFB	Natural Resources Program Support for Utah Test and Training Range	9/22/2014	9/21/2017	R0202433	\$245,000	1
Robinson, Todd		Alpaca Research Foundation	Developing probiotic and prebiotic treatments for low body condition in alpacas	9/1/2016	3/30/2019	R0502239	\$827	4
Smith, Thomas		Utah Zoological Society	Bryce Canyon Black Bear Study	3/1/2016	12/31/2016	R0502228	\$3,500	4
St. Clair, Sam		UDWR	Assessment of disturbance size and ecological conditions on wildlife impacts of aspen regeneration in Utah	7/1/2016	8/31/2017	R0402282	\$30,267	3

Stevens, Mikel		USDA Forest Service	Morphological and Genetic Characterization of Blue Penstemon	8/27/2015	4/20/2020	R0202455	\$17,501	1
Stewart, J. Ryan		National Institute of Horticultural and Herbal Science, RDA	Development of the technology to improve the color quality in succulent plants	3/1/2016	12/31/2018	R0570013	\$40,000	4
Stewart, J. Ryan		UTA	Vegatative Propagation of Historic Red Oak Tree on 300 East 700 North, Provo, Utah	8/15/2016	5/31/2017	R0402286	\$3,125	1
Stewart, Ryan		Dine College(USDA)	Weaving a Complete Picture of a Traditional Navajo Food and Fiber Crop: Characterization of the Nutritional and Physical	9/1/2015	8/31/2017	R0302642	\$8,250	2
Stewart, Ryan		Utah Dept of Agriculture & Foods	Spineless cactus (Opuntia ellisiana): a promising specialty corp for ethnic- and health-food markets in Utah	10/1/2016	9/30/2019	R0302705	\$30,000	2
Udall, Joshua	w/Bybee, Seth	NSF	MRI: Acquistiion of an PacBio Sequel System	9/1/2016	8/31/2019	R0112320	\$51,287	1
Udall, Joshua		NSF	Sequence Resources for Cotton, a Model System for Allopolyploid Crops	4/1/2016	3/31/2019	R0112307	\$2,175,537	1
Udall, Joshua		Cotton Inc.	Sequencing the genome of Gossypium longicalyx	1/1/2017	12/31/2017	R0602532	\$15,000	4
Udall, Joshua		USDA/Forest Service	Associating Genomic Properties to Adaptive Traits in Big Sagebrush	6/24/2013	6/30/2018	R0202408	\$9,900	1

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

Department Totals

Bean Museum	\$0
Biology	\$5,326,554
Microbiology & Molecular Biology	\$16,395
Exercise Science	\$0
Health Science	\$473,889
Nutrition, Dietetics & Food Science	\$392,500
Physiology & Developmental Biology	\$836,291
Plant & Wildlife Sciences	\$4,627,468
College Total:	\$11,673,097

Life Sciences

Source Breakdown of Grants and Contracts

Sponsor	No. Awarded	Amount
Federal Sponsors		
Forest Service	1	\$4,000
ARS-USDA	1	\$27,775
BLM	1	\$180,000
Great Basin National Park	1	\$122,333
Hill AFB	1	\$490,000
NIH	12	\$5,076,399
NSF	12	\$3,476,171
URM&CC	1	\$65,000
US Army (Dugway)	1	\$42,900
USDA, Forest Service, Rocky Mountain Research Station	1	\$27,518
USDA, Manti La-Sal National Forest	1	\$160,296
USDA/Forest Service	4	\$101,902
USDA/USFS	1	\$75,223
UTA	1	\$3,125
<i>Total</i>	39	\$9,852,642
Federal Subcontract Sponsors		
ASU (NSF)	1	\$378
Dine College (USDA)	1	\$16,500
NSF	1	\$38,915
NSF (EPSCOR)	1	\$1,890
Oregon State F&W (US F&WS)	2	\$200,000
U of Ariz. (USDA)	1	\$7,000
U of Mass-Amherst (NIH)	1	\$289,035
UC Davis (USDA)	1	\$5,000
University of North Carolina-Charlotte (NSF)	1	\$2,462,426
USDA	1	\$2,800
Utah Dept of Agriculture & Foods	1	\$30,000
Utah State U. (BUILD)	1	\$18,000
Utah State U. (NSF)	1	\$295,212
WAESO (ASU)	1	\$378
<i>Total</i>		\$890,534
State Sponsors		
UDWR	1	\$80,164
<i>Total</i>	1	\$80,164

Private Sponsors

(USU) Western Dairy Center	1	\$31,500
Alpaca Research Foundation	1	\$1,653
Colorado Parks & Wildlife	1	\$2,277
Cotton Inc.	1	\$15,000
Deseret Meats	2	\$73,000
Ecostats (Wyo Wildlife)	1	\$20,567
FAMRI	1	\$108,500
General Mills	4	\$450,000
HD Sports Limited	1	\$4,395
KP Biosciences	1	\$7,500
Monsanto Fund	1	\$20,000
NATA Foundation	1	\$2,500
National Institute of Horticultural and Herbal Science, RDA	1	\$40,000
S-Bio Med	5	\$15,171
State of Hawaii	2	\$22,194
The Nature Conservancy	1	\$22,500
US Figure Skating Assoc	1	\$2,500
USA Track and Field	1	\$7,000
Utah Zoological Society	1	\$3,500
<i>Total</i>	29	\$795,003

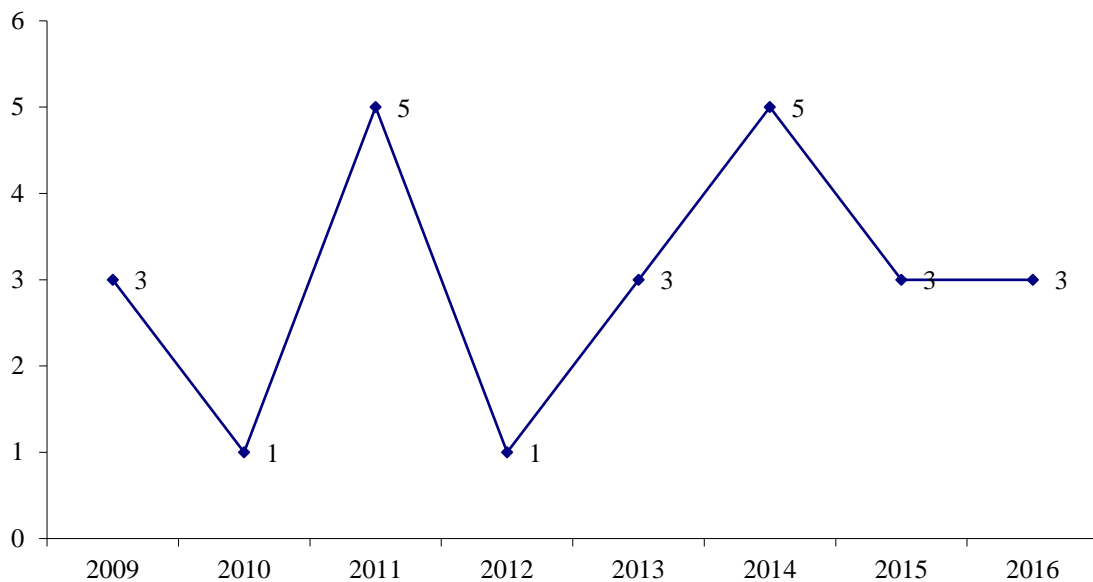


Marriott School of Management

Summary of Sponsored Research (Grants & Contracts)

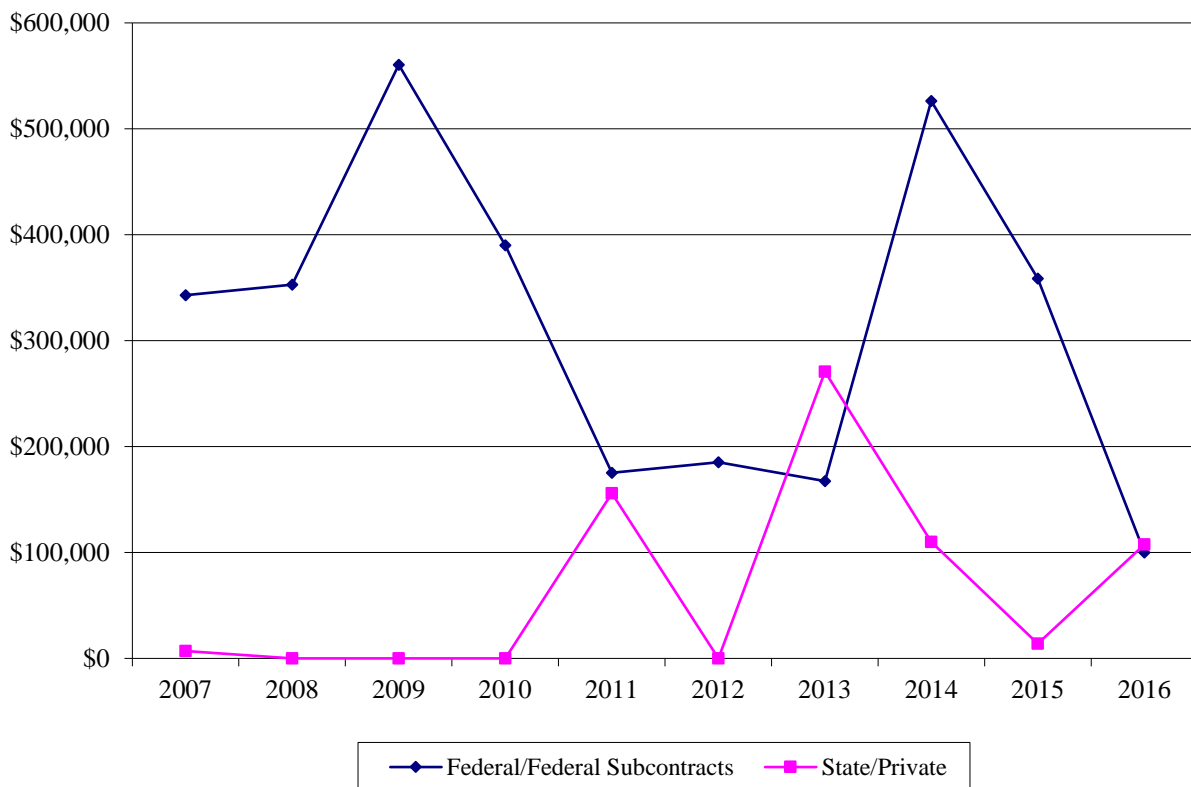
Department	# of Faculty Submitting	# of Proposals Submitted	# of Awards	Dollars Awarded
Business Management	0	0	0	\$0
Finance & Managerial Economics	0	0	0	\$0
Organizational Leadership & Strategy	1	1	1	\$102,500
Recreation Management & Youth Leadership	0	0	0	\$0
Romney Inst of Public Management	1	1	0	\$0
School of Accountancy	1	1	1	\$5,000
Information Systems	0	0	2	\$100,000
TOTALS	3	3	4	\$207,500

Proposal Submission Activity



External Research Funding (All Sources)

Year	Grants/Contracts		Total
	Federal/Federal Subcontracts	State/Private	
2007	\$343,000	\$7,000	\$350,000
2008	\$353,000	\$0	\$353,000
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



Marriot School of Management 2016 Awards

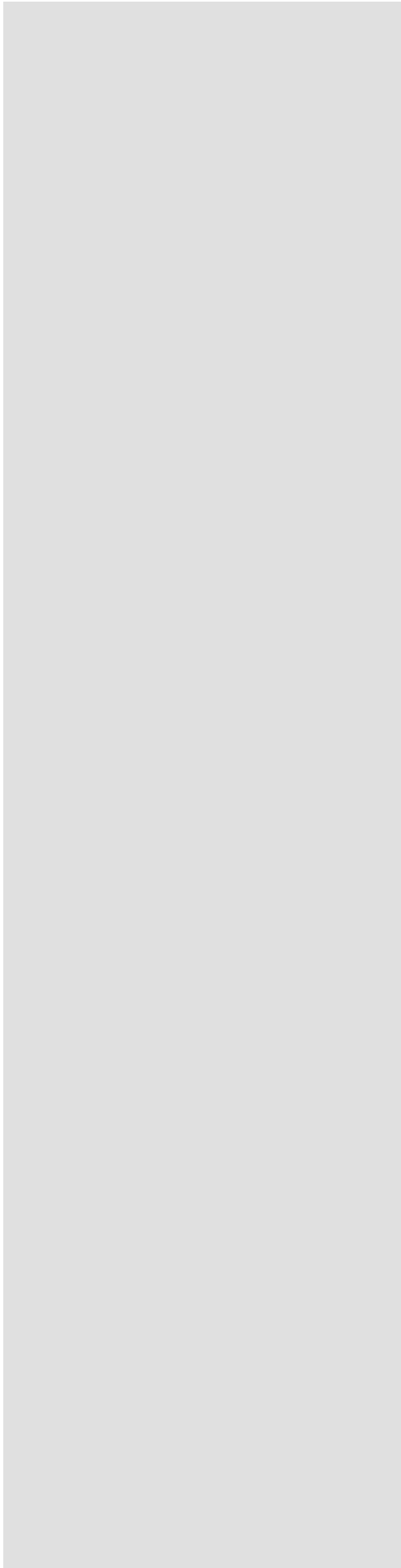
<u>PI</u>	<u>Co-PI</u>	<u>Sponsor</u>	<u>Title</u>	<u>Beg Date</u>	<u>End Date</u>	<u>Account</u>	<u>Amount</u>	<u>Type</u>
Information Systems								
Liddle, Stephen		NSF	I Corps Sites	3/1/2015	2/28/2018	R0112314	\$7,500	1
Liddle, Stephen		NSF	I Corps Sites	3/1/2015	2/28/2018	R0112274	\$42,500	1
Organizational Leadership-Strategy								
Dyer, Jeff		Sorenson Legacy Foundation	Innovation Leadership Research Block Grants	9/1/2015	12/31/2016	R0502230	\$102,500	4
School of Accountancy								
Wilks, Jeff		West Virginia Univ Research Corp (Inst for Fraud Prevention)	Melissa Lewis-Western: The Robin-Hood Effect: Broad-Based Employee Stock Option Plans and Earnings	11/9/2015	12/31/2016	R0502227	\$5,000	4

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

Department Totals	
Center for Economic Development	\$0
Business Management	\$0
Organizational Leadership & Strategy	\$102,500
Romney Inst of Public Management	\$0
School of Accountancy	\$5,000
Information Systems	\$100,000
College Total:	\$207,500

Marriot School of Management Source Breakdown of Grants and Contracts

Sponsor	Number Awarded	Total Amount
Federal		
NSF	2	\$100,000
<i>Total</i>	2	\$100,000
Subcontracts		
None	0	\$0
<i>Total</i>	0	\$0
State		
None	0	\$0
<i>Total</i>	0	\$0
Private		
Sorenson Legacy Foundation	1	\$102,500
West Virginia Univ Research Corp (Inst for Fraud Prevention)	1	\$5,000
<i>Total</i>	2	\$207,500

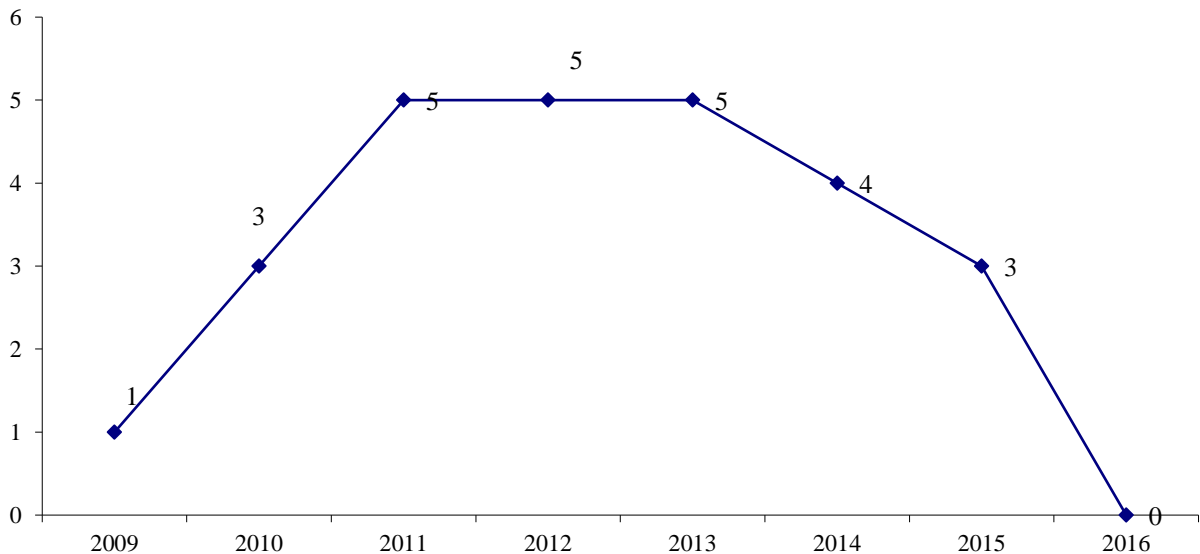


College of Nursing

Summary of Sponsored Research (Grants & Contracts)

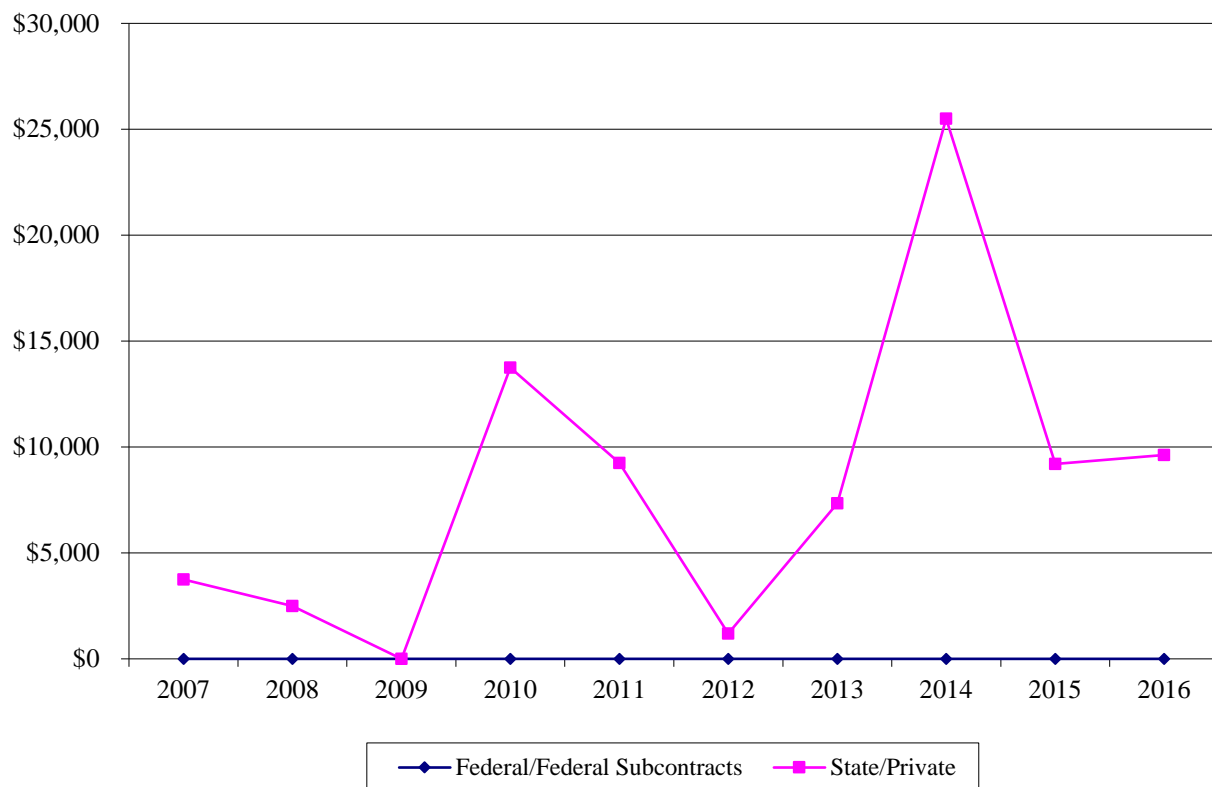
Department	# of Faculty Submitting	# of Proposals Submitted	# of Awards	Dollars Awarded
Nursing	0	0	1	\$9,626
TOTALS	0	0	1	\$9,626

Proposal Submission Activity



External Research Funding (All Sources)

Year	Grants/Contracts		Total
	Federal/Federal Subcontracts	State/Private	
2007	\$0	\$3,750	\$3,750
2008	\$0	\$2,500	\$2,500
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



Nursing 2016 Awards

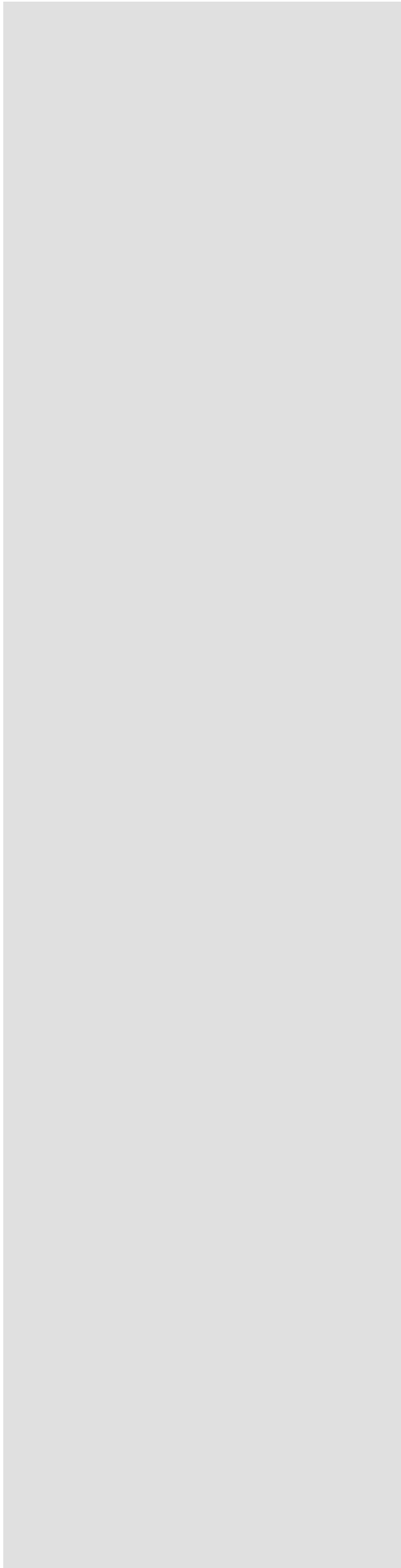
PI	Co-PI	Sponsor	Title	Beg. Date	End Date	Account	Amount	Type
<i>Nursing</i>								
Valentine, Julie		State of Utah	Examine How the Advancement in DNA Analysis Methods Impact Evidence Collection and Forensic Nursing Practice	7/1/2014	12/31/2016	R0402253	\$9,626	3

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

Department Totals		
Nursing		\$9,626
College Total:		\$9,626

Nursing Source Breakdown of Grants and Contracts

Sponsor	Number Awarded	Total Amount
Federal		
None	0	0
<i>Total</i>	0	0
Subcontracts		
None	0	0
<i>Total</i>	0	0
State		
State of Utah	1	\$9,626
<i>Total</i>	1	\$9,626
Private		
None	0	0
<i>Total</i>	0	\$0

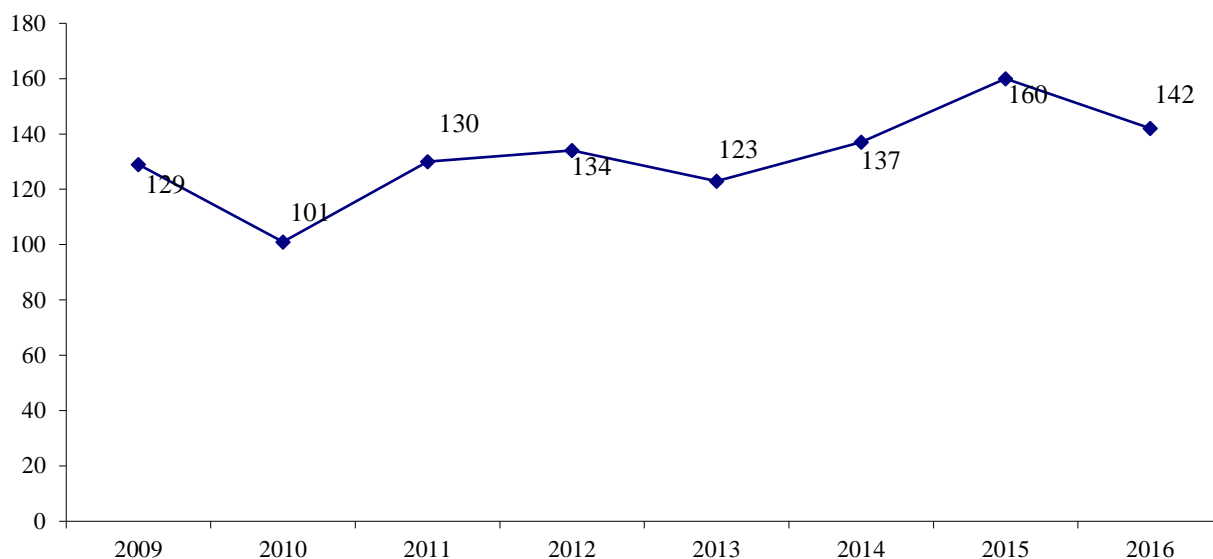


College of Physical & Mathematical Sciences

Summary of Sponsored Research (Grants & Contracts)

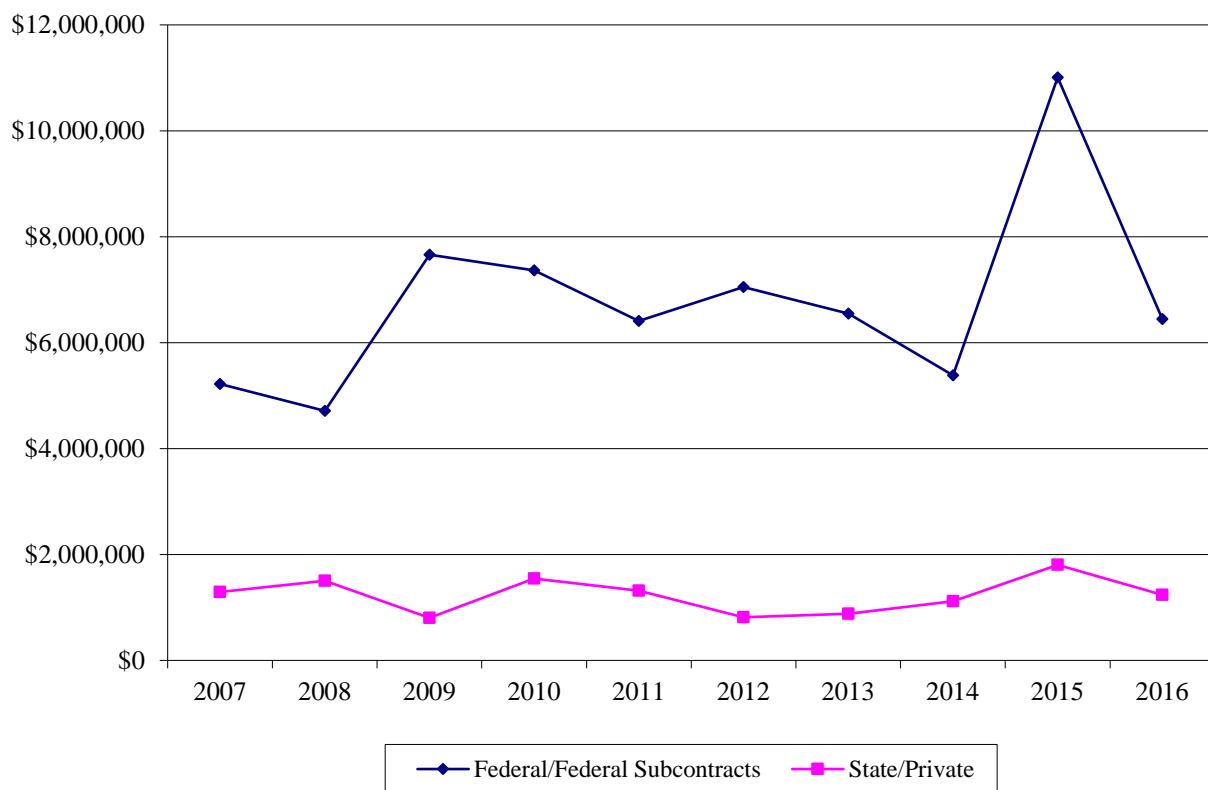
Department	# of Faculty Submitting	# of Proposals Submitted	# of Awards	Dollars Awarded
Chemistry & Biochemistry	20	40	35	\$2,826,543
Computer Science	13	17	7	\$1,485,893
Earth Science Museum	0		0	\$0
Geology	8	17	8	\$455,689
Mathematics	16	20	10	\$652,723
Mathematics Education	4	2	1	\$383,724
Physics & Astronomy	25	41	29	\$1,401,034
Statistics	6	5	5	\$481,878
TOTALS	92	142	92	\$7,687,484

Proposal Submission Activity



External Research Funding (All Sources)

Year	Grants/Contracts		Total
	Federal/Federal Subcontracts	State/Private	
2007	\$5,218,139	\$1,294,580	\$6,512,719
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



Physical & Mathematical Sciences 2016 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>
Chemistry & Biology								
Andersen, Joshua		Red Planet Laboratory	The Effects of ESD on DNA	6/10/2016	6/10/2017	R0602519	\$2,000	4
Austin, Daniel		NASA	Microorganism Survivability in High-velocity Impacts	6/15/2015	6/14/2018	R0162025	\$61,869	1
Burton, Greg		GWU (NIH)	BELIEVE: Bench to Bed Enhanced Lymphocyte Infusions to Engineer Viral Eradication	7/14/2016	11/14/2016	R0302690	\$19,385	2
Burton, Gregory		George Washington Univ (NIH)	BELIEVE: Bench to Bed Enhanced Lymphocyte Infusions to Engineer Viral Eradication	7/14/2016	11/14/2016	R0302690	\$19,385	2
Burton, Gregory		George Washing Univ (NIH)	BELIEVE: Bench to Bed Enhanced Lymphocyte Infusions to Engineer Viral Eradication	7/14/2016	1/14/2017	R0302690	34799	2
Castle, Steven		NIH	Bulky Dehydroamino Acids as Constraining and Stabilizing Components of Peptides	8/1/2016	7/31/2019	R0102077	\$435,000	1
Castle, Steven		USTAR	Bulky Dehydroamino Acids as Components of Peptide Drugs	12/1/2016	11/30/3021	R0402294	\$30,000	3
Christensen, Ken		NIH/NEI	Phage Display Selection of Antiangiogenic CMG2 Cyclic Peptide Antagonists	9/1/2015	7/31/2016	R0102076	\$197,854	1
Christensen, Kenneth		NIH/NEI	Phage Display Selection of Antiangiogenic CMG2 Cyclic Peptide Antagonists	9/1/2015	7/31/2016	R0102076	\$79,491	1
Christensen, Kenneth		Clemson (NIH)	Identification of kinteoplastid parasite glucose uptake and subcellular localization	12/1/2016	11/30/2018	R0302707	\$107,250	2
Ess, Daniel		Chevron Phillips Chemical Co. LP	Optimization of Homogeneous Alpha Olefin Catalysts	12/26/2013	12/26/2016	R0602446	\$60,000	4
Ess, Daniel		Rice (NIH)	Asymmetric N-H/N - alkyl olefin aziridinations and ring-opening transformations	6/1/2015	3/31/2016	R0302615	\$26,474	2
Ess, Daniel		Chevron Phillips Chemical Co LP	Optimization of Homogeneous Alpha Olefin Catalysts	12/26/2013	12/31/2017	R0602446	\$60,000	4
Graves, Steve		U of U	Serum Peptidomic Research	9/1/2015	12/31/2016	R0802038	\$5,000	4
Graves, Steven	w/ Woolley, Adam	NIH	Integrated microfluidic devices for preterm birth biomarker measurement	4/1/2006	5/31/2017	R0102023	\$148,837	1
Hansen, Jaron		UT Dept of Environmental Quality (EPA)	West Valley High Time Resolution Air Toxics Monitoring Campaign	10/1/2015	12/31/2017	R0302652	\$150,000	2

Harrison, Roger	WAESO (ASU)	Binding Studies of Pharmaceutical Contaminents to Macrocycles	1/4/2016	8/31/2016	R0302655	\$378	2
Linford, Matthew	InSilixa	Surface Chemistry Research	9/1/2015	12/31/2016	R0602490	\$120,000	4
Linford, Matthew	Moxtek	Project 21	1/1/2016	12/31/2017	R0602507	\$40,666	4
Linford, Matthew	Moxtek	Moxtek Sponsored Research	1/1/2016	12/31/2017	R0602507	\$40,666	4
Linford, Matthew	Restek Corporation	Development of SPME Methods and Procedures with Novel SPME Fibers	6/1/2015	6/30/2016	R0602480	\$15,970	4
Linford, Matthew	Corning Incorporated	Glass Surface Functional Group and Composition Analysis Methods	4/1/2015	6/30/2016	R0602472	\$70,000	4
Patterson, James	ONR	Use of Second Harmonic Generation for Determination of Aluminum Sensitization	9/1/2016	12/31/2016	R0202470	\$9,600	1
Price, JC	NuSkin (NSE Products)	Investigation of signal-specific changes in mRNA abundance changes	5/20/2016	9/20/2016	R0602518	\$13,125	4
Savage, Paul	VA Medical Center - Nashville	Synthesis of Biotinylated Immunostimulatory Compounds	1/1/2015	12/31/2017	R0202446	\$6,000	1
Savage, Paul	N8 Medical	Collection Account for Royalty Payments	5/12/2004	12/31/2016	R0802005	\$12,500	4
Savage, Paul	N8 Medical	Collection Account for Royalty Payments	5/12/2004	12/31/2016	R0802005	\$12,500	4
Savage, Paul	Scripps Research Institute	Molecular Pharmacology of NKT Cell Agonists	6/1/2016	5/31/2017	R0302676	\$120,540	2
Savage, Paul	N8 Medical	Collection Account for Royalty Payments	5/12/2004	12/31/2016	R0802005	\$12,500	4
Savage, Paul	Scripps (NIH)	Production of high affinity anti-glycan and anti-glycolipid antibodies	8/5/2016	7/31/2017	R0302691	\$57,208	2
Savage, Paul	N8 Medical	Collection Account for Royalty Payments	5/12/2004	12/31/2016	R0802005	\$12,500	4
Savage, Paul	Washington University (NIAID-DHHS)	Synthesis of Cationic Steroid Compounds for Detection of Bacterial Infection	7/1/2015	6/30/2017	R0302644	\$37,500	2
Stowers, Kara	American Chemical Society	Catalytic C-C bond formation to synthesize carboxylic acids using CO2	9/1/2016	8/31/2018	R0502231	\$110,000	4
Woodfield, Brian	DOE	The Energetics and Dynamics of Flexible Frameworks and Molecular Confinement	8/15/2016	8/14/2017	R0202469	\$181,257	1
Woolley, Adam	w/ Hawkins, Aaron	Multiplexed, Non-Amplified, Nucleic Acid-Based Identification of Multidrug Pathogens Using an Integrated Optofluidic Platform	3/1/2015	2/28/2017	R0102068	\$267,451	1
Woolley, Adam	NIH	Integrated microfluidic devices for preterm birth biomarker measurement	4/1/2006	5/31/2017	R0102023	\$148,838	1

Woolley, Adam		NSF	Collaborative Research: Parallel, Adaptive Manufacturing of Nanoscale Electrical Interconnects Using DNA Self-Assembly	9/1/2016	8/31/2019	R0112321	\$100,000	1	
Computer Science									
Clement, Mark	w/ Bybee, Seth	NSF	DEB Proposal: Phylogenomics, Revisionary Systematics, and Evolution of the Visual Systems in Dragonflies and Damselflies	2/15/2013	1/31/2019	R0112227	\$8,251	1	
Clement, Mark	w/ Bybee, Seth	NSF	Pylogenomics, Revisionary Systematics, and Evolution of the Visual Systems in Dragonflies and Damselflies(Insecta: Ononata)	2/15/2013	1/31/2019	R0112227	\$40,947	1	
Clement, Mark	w/Bybee, Seth	NSF	MRI: Acquisition of an PacBio Sequel System	9/1/2016	8/31/2019	R0112320	\$51,287	1	
Crandall, Jacob		ARL	Leveraging the Power of Hub-Based Colonies: Flexibility and Efficiency through Human-Swarm Interfaces	9/9/2016	9/8/2017	R0202478	\$49,565	1	
Farrell, Ryan	w/ Killpack, Marc	General Dynamics Land Systems (ARL-RCTA)	Information-Based Soldier-Robot Interaction	1/21/2015	1/20/2017	R0302631	\$16,666	2	
Goodrich, Michael	w/ Crandall, Jacob	ARL	Leveraging the Power of Hub-Based Colonies: Flexibility and Efficiency through Human-Swarm Interfaces	9/9/2016	9/8/2017	R0202478	\$49,564	1	
Goodrich, Michael	w/ Killpack, Marc	General Dynamics Land Systems (ARL-RCTA)	Information-Based Soldier-Robot Interaction	1/21/2015	1/20/2017	R0302631	\$16,667	2	
Goodrich, Michael	w/ McLain, Tim	NSF	I/CRC: Center for Unmanned Aircraft Systems (C-UAS)	3/1/2012	2/28/2017	R0112200	\$7,600	1	
Goodrich, Michael	w/ McLain, Timothy	NSF (NASA)	I/UCRC C-UAS Membership Dues for NASA-Armstrong	9/1/2012	2/28/2017	R0112221	\$13,280	1	
Goodrich, Michael		ONR	Swarms, Colonies, and Human Organizations: Towards a Science of Managed Bio-Inspired Collectives	9/1/2015	8/31/2019	R0202479	\$100,000	1	
Jones, Michael		NSF	CHS: Medium: Design Tools for Physical Computational Objects	8/1/2014	7/31/2018	R0112262	\$141,810	1	
Mercer, Eric		Google Inc	Google Summer of Code 2016	9/7/2016	12/31/2016	R0602526	\$7,200	4	
Seamons, Kent	w/ Zappala, Daniel	DHHS/PSC/AM S/DAM	TrustHub: A Platform for Deploying Certificate-Based Authentication Services	7/25/2016	7/24/2018	R0202472	\$131,766	1	
Sederberg, Tom	w/ Liddle, Stephen	NSF	I Corps Sites	3/1/2015	2/28/2018	R0112314	\$7,500	1	
Sederberg, Tom	w/ Liddle, Stephen	NSF	I Corps Sites	3/1/2015	2/28/2018	R0112274	\$42,500	1	
Seppi, Kevin	w/ Jones, Michael	NSF	CHS: Medium: Design Tools for Physical Computational Objects	8/1/2014	7/31/2018	R0112262	\$141,809	1	

Warnick, Sean	w/ Hedengren, John	NSF	REU: Supplement to EAGER: Cybermanufacturing Integration of Process Control and Optimization Mission Impact Situational	1/1/2016	12/31/2017	R0112311	\$6,000	2
Warnick, Sean		Department of Homeland Security	Awareness Tool for Distributed Operations Management of Cyber-Physical-Human Critical Infrastructures	8/28/2015	8/27/2017	R0202461	\$272,667	1
Wingate, David		AFRL	Scalable Probabilistic Programming for Learning and Acting in Complex Domains	6/6/2016	12/6/2017	R0202468	\$249,047	1
Zappala, Daniel		DHHS/PSC/AMS/DAM	TrustHub: A Platform for Deploying Certificate-Based Authentication Services	7/25/2016	7/24/2018	R0202472	\$131,767	1
Geology								
Bickmore, Barry		NSF	The Valence Multipole Model: Linking Structure and Reactivity	9/1/2014	8/31/2017	R0112261	\$132,576	1
Carling, Greg	w/Aanderud, Zachary	Utah State U. (NSF)	Critical Zone Processes Mediating and Responding to Dust Generation and Transport	8/1/2012	7/31/2017	R0302477	\$73,802	2
Carling, Greg		Provo City Water Resources	Literature review of arsenic geochemistry and remediation options in groundwater	5/27/2016	9/1/2016	R0492045	\$2,880	3
Carling, Greg		NSF	Collaborative Research: Investigation of the Fate and Transport of Dust-Borne Trace Metals and Solutes During Snowmelt	7/15/2015	6/30/2018	R0112291	\$29,954	1
Harris, Ron		Society for Exploration Geophysicist (SEG)	Bridge Over Troubled Waters: Building Resiliency to Tsunami Hazards by Training Indonesian Geoscientists and Local Communities to Develop and Field Check Tsunami Inundation Maps and Conduct Evacuation Drill in Coastal Cities of Java, Indonesia	11/1/2015	12/31/2017	R0502225	\$49,995	4
Hudson, Samuel		BP Exploration	Evolution of the South Caspian Basin	7/1/2016	6/30/2017	R0602517	\$60,000	4
Hudson, Samuel		Questar Wexpro	Reservoir architecture of the Trail Member fluvial sandstones, Mesaverde Group	8/15/2016	12/1/2017	R0602528	\$18,750	4
Hudson, Samuel		ConocoPhillips	Salt, Sediment and Orogenies – Evolution and Timing of Key Tectonic and Sedimentary Events within the Paradox Basin, Utah	9/1/2015	12/31/2017	R0602492	\$8,125	4
McBride, John		U of Illinois (DOE)	Assessment of the Geological Carbon Sequestration Options in the Illinois Basin: Phase II and Phase III	12/18/2007	12/17/2017	R0302254	\$49,653	2
Nelson, Steve	w/ Carling, Greg	NSF	Collaborative Research: Investigation of the Fate and Transport of Dust-Borne Trace Metals and Solutes During Snowmelt	7/15/2015	6/30/2018	R0112291	\$29,954	1

Mathematics

Allen, Mark	w/ Whitehead, Jared	NSF	Rocky Mountain Partial Differential Equations Conference	3/1/2017	2/28/2018	R0112330	\$5,958	1
Baker, Roger		Simons Foundation	Prime numbers in arithmetic progressions	9/1/2016	8/31/2021	R0502238	\$7,000	4
Barker, Blake	w/ Whitehead, Jared	NSF	Rocky Mountain Partial Differential Equations Conference	3/1/2017	2/28/2018	R0112330	\$5,958	1
Conner, Gregory		Simons Foundation	Wild Topology, Attractors, and Algebraic invariants	9/1/2012	8/31/2017	R0502163	\$7,000	4
Fisher, Todd		Simons Foundation	Entropy for Smooth Dynamical Systems	9/1/2012	8/31/2017	R0502162	\$7,000	4
Forcade, Rodney	w/ Hart, Gus	Duke (DOD- ONR)	Topological Decompositions and Spectral Sampling Algorithms for Element Substitution in Critical Technologies	7/1/2013	6/30/2017	R0302530	\$158,575	2
Humpherys, Jeff		DTRA: Defense Threat Reduction Agency	Spectral Graph Theory, Tree Decomposition, and Pseudospectral Graph Theory	5/15/2015	5/14/2018	R0202450	\$150,000	1
Jarvis, Tyler		NSF	FRG Collaborative Research (participant)	7/1/2016	6/30/2019	R0112315	\$105,300	1
Jarvis, Tyler		NSF	FRG Collaborative Research (non participant)	7/1/2016	6/30/2019	R0112315	\$113,932	1
Jenkins, Paul		Simons Foundation	Weakly Holomorphic Modular Forms	9/1/2016	8/31/2017	R0502182	\$7,000	4
Lu, Kening		NSF	Collaborative Research: Topics in Infinite- Dimensional and Stochastic Dynamical Systems	7/15/2014	6/30/2017	R0112256	\$59,041	1
Nielsen, Pace		NSA	Computational Number Theory: Covering Systems, Probabilistic Methods, and Sieves	3/21/2016	3/20/2017	R0202465	\$20,000	1
Whitehead, Jared		NSF	Rocky Mountain Partial Differential Equations Conference	3/1/2017	2/28/2018	R0112330	\$5,959	1

Mathematic Education

Teuscher, Dawn		NSF	Collaborative Research: Investigating Middle School Mathematics Teachers' Curricular Reasoning	9/1/2016	8/31/2019	R0112326	\$383,724	1
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Physics & Astronomy

Allred, David		WAESO (ASU)	Use of Evolutionary Algorithm to Optimize Reflectance of an XUV Multilayer	1/4/2016	8/31/2016	R0302654	\$378	2
Allred, David		NIA/NASA	Sariah: Station Architecture for Revolutionary Investigation of Autonomous Habitats: RASC-AL 2016: Crew- tended co-orbiting ISS facility	5/1/2016	8/1/2016	R0302661	\$5,500	2
Allred, David		WAESO (ASU)	Involving Students in Development & Testing of Oxide-Blocking Coating on	5/1/2016	8/31/2016	R0302670	\$378	2

aluminum mirrors for spacecraft for UV astronomy

Anderson, Brian		Los Alamos (DOE)	Conduct Acoustic and Ultrasonic Measurements	5/12/2016	9/30/2018	R0302665	\$35,862	2
Anderson, Brian		Los Alamos National Laboratory	Conduct Acoustic and Ultrasonic Measurements	5/12/2016	9/30/2017	R0302665	\$34,777	2
Bergeson, Scott		NSF	Collaborative Research: Plasma Physics at Small Coulomb Logarithms: Equilibration Studies in a Strongly-coupled Dual-species Ultracold Neutral Plasma (participant)	9/15/2015	8/31/2018	R0112319	\$7,600	1
Bergeson, Scott		NSF	Collaborative Research: Plasma Physics at Small Coulomb Logarithms: Equilibration Studies in a Strongly-coupled Dual-species Ultracold Neutral Plasma (non-participant)	9/15/2015	8/31/2018	R0112301	\$117,400	1
Chesnel, Karine		WAESO (ASU)	Magnetic Domain Memory in Ferromagnets	5/1/2016	8/31/2016	R0302671	\$378	2
Colton, John		WAESO (ASU)	Ferritin-Based Nanoparticles for Solar Energy Harvesting	5/1/2016	8/31/2016	R0302668	\$378	2
Davis, Robert	w/ VanFleet, Richard	GE	Development of Next Generation Approaches for Deep Brain Stimulation and Brain Machine Interfaces	3/1/2016	2/28/2017	R0602508	\$56,625	4
Davis, Robert	w/ Vanfleet, Richard	Moxtek	X-ray Windows and Filters	1/4/2012	6/30/2017	R0602313	\$65,000	4
Gee, Kent		ONR	Wavepacket-based Source Characterization of Military Jet Aircraft Noise	7/1/2014	6/30/2017	R0202423	\$63,411	1
Gee, Kent		Zodiac Aerospace, Water and Waste Systems	Exploratory Investigation of Zodiac Revolution Toilet Acoustics	7/15/2016	9/15/2016	R0602520	\$4,247	4
Gee, Kent		Blue Ridge Research (AFRL)	Connecting High-Power Jet Noise Characteristics with Human Annoyance	9/15/2016	12/15/2018	R0302692	\$50,000	2
Gee, Kent		Zodiac Aerospace Water and Waste System	Phase II: Revolution Toilet Noise Reduction	10/15/2016	10/31/2017	R0602530	\$23,168	4
Hart, Gus		Duke (DOD-ONR)	Topological Decompositions and Spectral Sampling Algorithms for Element Substitution in Critical Technologies	7/1/2013	6/30/2017	R0302530	\$158,575	2
Hirschmann, Eric	w/ Neilsen, David	NSF	Collaborative Research: Compact Binary Mergers in the Advanced LIGO Era	9/1/2016	8/31/2019	R01122316	\$47,883	1
Leishman, Timothy		Michigan State University (NIH)	Gender Differences and Speech Accomodation in Occupational Settings	4/1/2014	3/31/2017	R0302551	\$45,465	2
Neilsen, David		Indiana U. (NASA)	Fully Relativistic Simulations of Black Holes and Neuron Stars with Global Magnetic Fields	3/1/2013	8/31/2016	R0302507	\$39,622	2

Neilsen, David		NSF	Collaborative Research: Compact Binary Mergers in the Advanced LIGO Era	9/1/2016	8/31/2019	R01122316	\$47,883	1
Neilsen, TraciAnne	w/ Gee, Kent	ONR	Wavepacket-based Source Characterization of Military Jet Aircraft Noise	7/1/2014	6/30/2017	R0202423	\$63,410	1
Neilsen, TraciAnne	w/ Gee, Kent	Blue Ridge Research (AFRL)	Connecting High-Power Jet Noise Characteristics with Human Annoyance	9/15/2016	12/15/2018	R0302692	\$50,000	2
Peatross, Justin		U of Nebraska-Lincoln (Air Force)	Relativistic Optics - Interactions of Electrons with Laser Light at Highly Relativistic Intensities	9/30/2014	5/31/2017	R0302602	\$8,000	2
Ragazzine, Darin		Penn State Univ (NASA)	Inferring the Architectures of Planetary Systems from Kepler Results with SysSim	9/24/2016	6/25/2017	R0302710	\$41,825	2
Ragozzine, Darin		STScI	The Intriguing Formation of Haumea's Satellites	11/1/2016	11/30/2017	R0302706	\$2,477	2
Ragozzine, Darin		Space Telescope Science Institute (NASA)	Spinny TNO Triples: New Analyses of the Spin+Orbit Dynamics of Haumea and 1996 TC36	10/1/2016	9/30/2019	R0302703	\$29,256	2
Sommerfeldt, Scott	w/ Gee, Kent	Zodiac Aerospace, Water and Waste Systems	Exploratory Investigation of Zodiac Revolution Toilet Acoustics	7/15/2016	9/15/2016	R0602520	\$4,246	4
Sommerfeldt, Scott	w/ Gee, Kent	Zodiac Aerospace Water and Waste System	Phase II: Revolution Toilet Noise Reduction	10/15/2016	10/31/2017	R0602530	\$23,166	4
Sommerfeldt, Scott		Caterpillar, Inc	Acoustic Modeling of Resonators and Development of a Multi-Driver Volume Velocity Source	1/1/2014	12/31/2016	R0602437	\$70,005	4
Turley, Steve		WAESO (ASU)	Oxidation of Bar Aluminum Mirrors	5/1/2016	8/31/2016	R0302672	\$378	2
Turley, Steve		NSF	REU Site: Physics Research at BYU (non-participant expenses)--see also R0112289 for participant costs	5/1/2015	4/30/2018	R0112284	\$27,027	1
Turley, Steve		NSF	REU Site: Physics Research at BYU (participant expenses: no F&A)--see also R0112284	5/1/2015	4/30/2018	R0112289	\$50,980	1
Turley, Steve		NSF	REU Site: Physics Research at BYU (participant expenses: no F&A)--see also R0112284	5/1/2015	4/30/2018	R0112289	\$12,863	1
Van Huele, Francois	w/ Turley, Steve	NSF	REU Site: Physics Research at BYU (non-participant expenses)--see also R0112289 for participant costs	5/1/2015	4/30/2018	R0112284	\$27,027	1
Van Huele, Francois	w/ Turley, Steve	NSF	REU Site: Physics Research at BYU (participant expenses: no F&A)--see also R0112284	5/1/2015	4/30/2018	R0112289	\$50,979	1
Van Huele, Francois	w/ Turley, Steve	NSF	REU Site: Physics Research at BYU (participant expenses: no F&A)--see also R0112284	5/1/2015	4/30/2018	R0112289	\$12,862	1
Van Huele, Francois		WAESO (ASU)	Quantum Dynamics for Coupled Systems	5/1/2016	8/31/2016	R0302673	\$378	2

VanFleet, Richard		GE	Development of Next Generation Approaches for Deep Brain Stimulation and Brain Machine Interfaces	3/1/2016	2/28/2017	R0602508	\$56,625	4
Vanfleet, Richard		Moxtek	X-ray Windows and Filters	1/4/2012	6/30/2017	R0602313	\$65,000	4
Statistics								
Berrett, Candace		LANL	Assess performance of Sensors, Algorithms, and models developed for an NNSA/CNN project	9/6/2016	8/30/2017	R0302687	\$79,998	2
Berrett, Candace	w/ Heaton, Matt	NIH/NIEHS	Modeling Environmental Impacts on Health in the Presence of Spatial Uncertainty	4/15/2015	3/31/2017	R0102070	\$23,428	1
Berrett, Candace	w/ Heaton, Matt	NSF	Scalable Statistical Validation and Uncertainty Quantification for Large-Spatio Temporal Datasets	8/1/2014	7/31/2017	R0112269	\$22,333	1
Christensen, William	w/ Reese, Shane	U of U (NASA)	Precipitation and Glacier Mass Balance in High Mountain Asia Over the Common Era	8/16/2016	8/17/2019	R0302695	\$23,500	2
Heaton, Matt		NIH/NIEHS	Modeling Environmental Impacts on Health in the Presence of Spatial Uncertainty	4/15/2015	3/31/2017	R0102070	\$23,428	1
Heaton, Matt		NSF	Scalable Statistical Validation and Uncertainty Quantification for Large-Spatio Temporal Datasets	8/1/2014	7/31/2017	R0112269	\$22,334	1
Nielsen, Perpetua	w/Bowen, Donna Lee	TAMU(DoD)	Household Formation Systems, Marriage Markets, and Societal Stability/Resilience	9/1/2014	8/31/2017	R0302575	\$75,347	2
Nielsen, Perpetua Lynne	w/ Bowen, Donna Lee	Texas A&M U. (DOD)	Household Formation Systems, Marriage Markets and Society	9/1/2014	8/31/2016	R0302575	\$13,382	2
Reese, Shane	w/ Heaton, Matt	NSF	Stability/Resilience Scalable Statistical Validation and Uncertainty Quantification for Large-Spatio Temporal Datasets	8/1/2014	7/31/2017	R0112269	\$22,333	1
Reese, Shane		U of U (NASA)	Bayesian Quantification of Antarctic Surface Mass Balance	5/2/2016	5/1/2017	R0302675	\$72,854	2
Reese, Shane		U of U (NASA)	Precipitation and Glacier Mass Balance in High Mountain Asia Over the Common Era	8/16/2016	8/17/2019	R0302695	\$23,501	2
Tolley, Dennis	w/ Iverson, Brian	PerkinElmer	Compact Next-generation GC and MS Instrumentation	6/1/2015	12/31/2017	R0602482	\$79,440	4

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

Department Totals

Chemistry & Biochemistry	\$2,826,543
Computer Science	\$1,485,893
Earth Science Museum	\$0
Geology	\$455,689
Mathematics	\$652,723
Mathematics Education	\$383,724
Physics & Astronomy	\$1,401,034
Statistics	\$481,878

College Total:

\$7,687,484

Physical & Mathematical Sciences

Source Breakdown of Grants and Contracts

Sponsor	No. Awarded	Amount
Federal Sponsors		
AFRL	1	\$249,047
ARL	1	\$99,129
Department of Homeland Security	1	\$272,667
DHHS/PSC/AMS/DAM	1	\$263,533
DOE	1	\$181,257
DTRA: Defense Threat Reduction Agency	1	\$150,000
NASA	1	\$61,869
NIH	2	\$1,000,126
NIH/NEI	2	\$277,345
NIH/NIEHS	1	\$46,856
NSA	1	\$20,000
NSF	16	\$1,883,564
NSF (NASA)	1	\$13,280
ONR	3	\$236,421
VA Medical Center - Nashville	1	\$6,000
<i>Total</i>	34	\$4,761,094
Federal Subcontract Sponsors		
Blue Ridge Research (AFRL)	1	\$100,000
Clemson (NIH)	1	\$107,250
Duke (DOD-ONR)	1	\$317,150
General Dynamics Land Systems (ARL)	2	\$33,333
George Washington Univ (NIH)	3	\$73,569
Indiana U. (NASA)	1	\$39,622
LANL	2	\$114,775
Los Alamos (DOE)	1	\$35,862
Michigan State University (NIH)	1	\$45,465
NIA/NASA	1	\$5,500
NSF	1	\$6,000
Penn State Univ (NASA)	1	\$41,825
Rice (NIH)	1	\$26,474
Scripps (NIH)	1	\$57,208
Scripps Research Institute	1	\$120,540
Space Telescope Science Institute (NASA)	1	\$29,256
STScI	1	\$2,477
TAMU (DoD)	2	\$88,729
U of Illinois (DOE)	1	\$49,653
U of Nebraska-Lincoln (Air Force)	1	\$8,000
U of U (NASA)	2	\$119,855
UT Dept of Environmental Quality (EPA)	1	\$150,000
Utah State U. (NSF)	1	\$73,802
WAESO (ASU)	7	\$2,646
Washington University (NIAID-DHHS)	1	\$37,500

<i>Total</i>	37	\$1,686,491
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State Sponsors

Provo City Water Resources	1	\$2,880
USTAR	1	\$30,000
<i>Total</i>	2	\$32,880

Private Sponsors

American Chemical Society	1	\$110,000
BP Exploration	1	\$60,000
Caterpillar, Inc.	1	\$70,005
Chevron Phillips Chemical Co LP	2	\$120,000
ConocoPhillips	1	\$8,125
Corning Incorporated	1	\$70,000
GE	1	\$113,250
Google Inc.	1	\$7,200
InSilixa	1	\$120,000
Moxtek	3	\$211,332
N8 Medical	4	\$50,000
NuSkin (NSE Products)	1	\$13,125
PerkinElmer	1	\$79,440
Questar Wexpro	1	\$18,750
Red Planet Laboratory	1	\$2,000
Restek Corporation	1	\$15,970
Simons Foundation	4	\$28,000
Society of Exploration Geophysicist (SEG)	1	\$49,995
U of U	1	\$5,000
Zodiac Aerospace Water and Waste Systems	2	\$54,827
<i>Total</i>	28	\$1,207,019

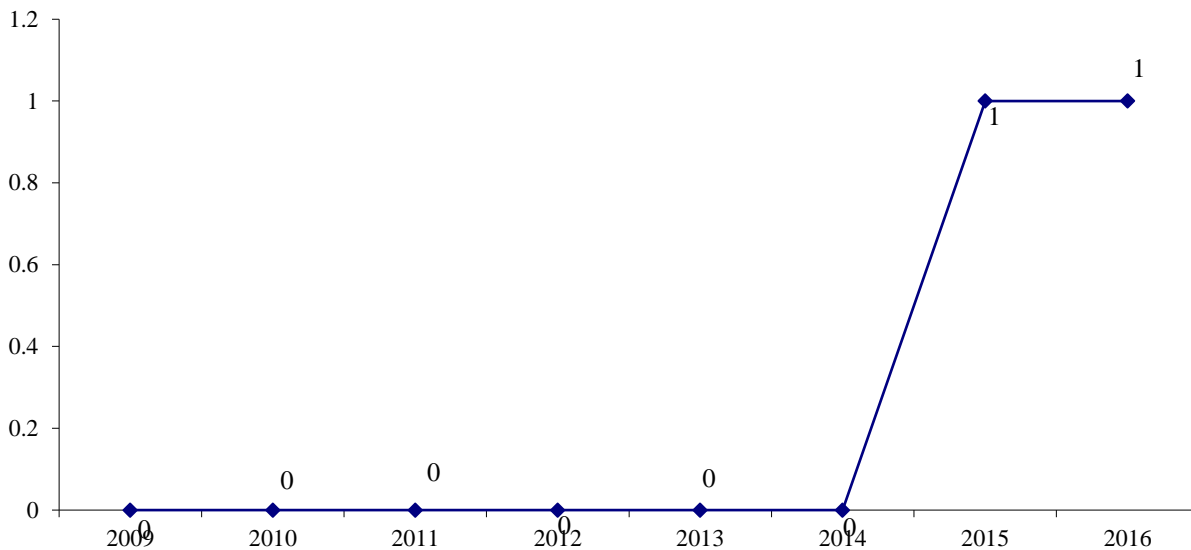


Religious Education

Summary of Sponsored Research (Grants & Contracts)

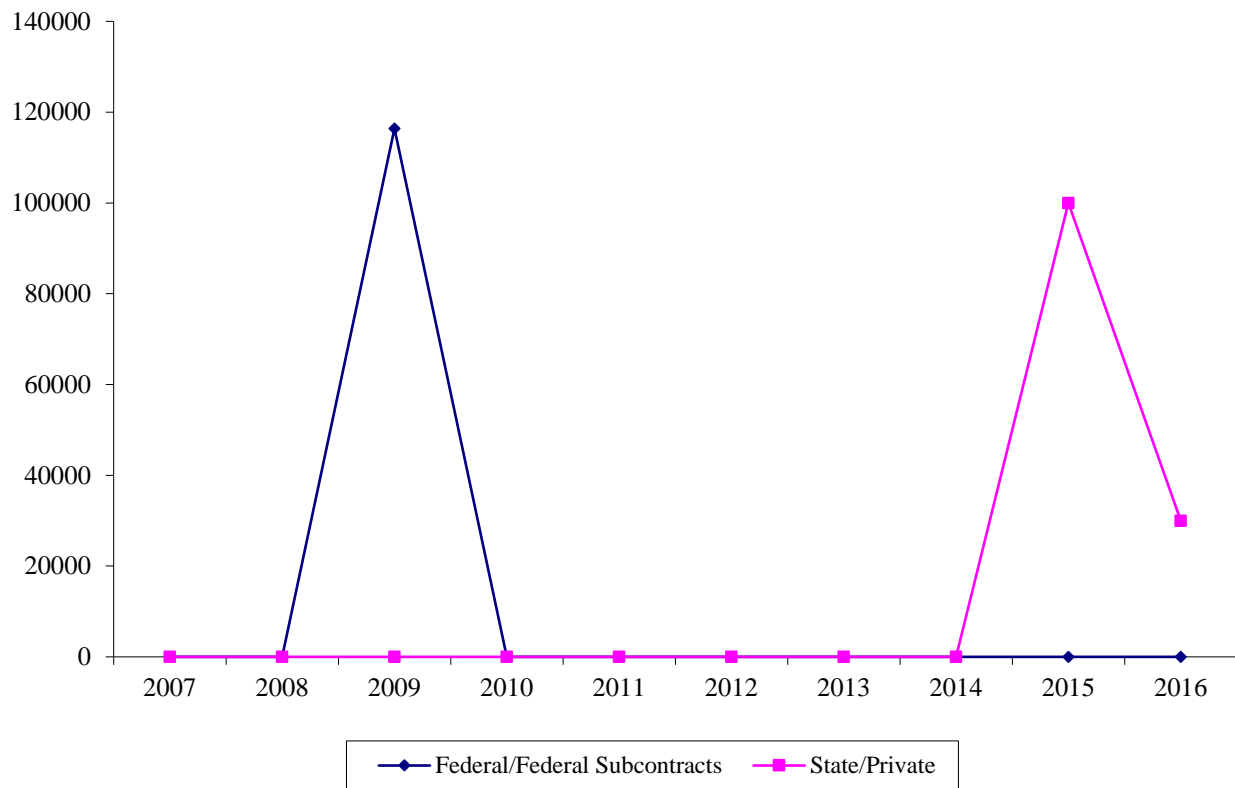
Department	# of Faculty Submitting	# of Proposals Submitted	# of Awards	Dollars Awarded
Ancient Scripture	2	1	1	\$30,000
Church History & Doctrine	1	0	0	\$0
<i>TOTALS</i>	3	1	1	\$30,000

Proposal Submission Activity



External Research Funding (All Sources)

Year	Grants/Contracts		Total
	Federal/Federal Subcontracts	State/Private	
2007	\$0	\$0	\$0
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



Religious Education 2016 Awards

<u>PI</u>	<u>Co-PI</u>	<u>Sponsor</u>	<u>Title</u>	<u>Beg Date</u>	<u>End Date</u>	<u>Amount</u>	<u>Type</u>
<i>Ancient Scripture</i>							
Hilton, John		OpenContent Foundation	Capacity Building for Open Licenses	9/1/2016	2/28/2018	R0502237	4

Department Totals

Ancient Scripture

\$30,000

Church History & Doctrine

\$0

College Total:

\$30,000

Religious Education

Source Breakdown of Grants and Contracts

Sponsor	Number Awarded	Total Amount
Federal		
None	0	0
<i>Total</i>	0	0
Subcontracts		
None	0	0
<i>Total</i>	0	0
State		
None	0	0
<i>Total</i>	0	0
Private		
OpenContent	1	\$30,000
<i>Total</i>	1	\$30,000

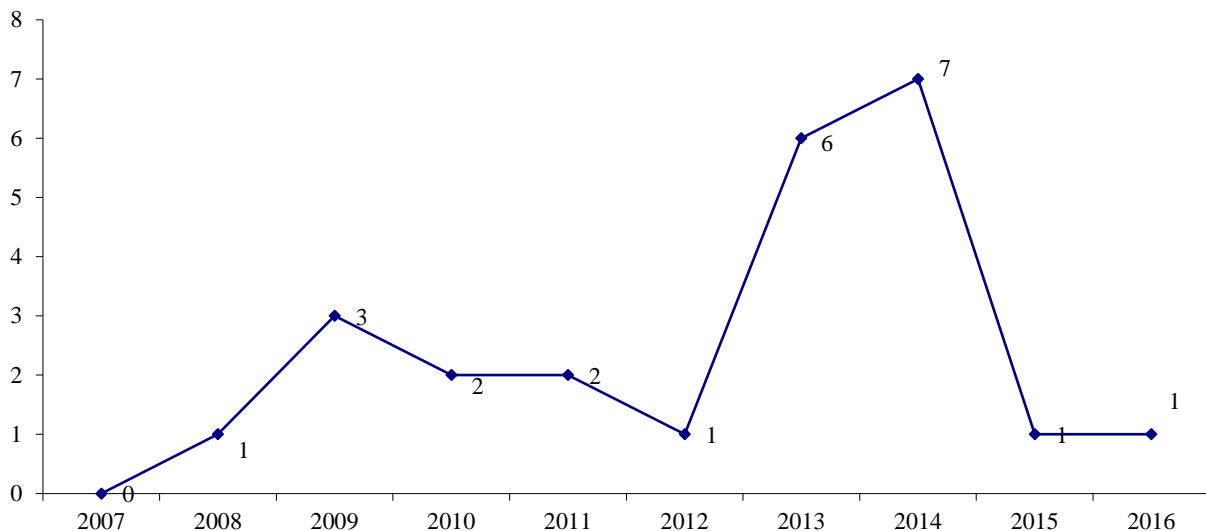


Non-College Units

Summary of Sponsored Research (Grants & Contracts)

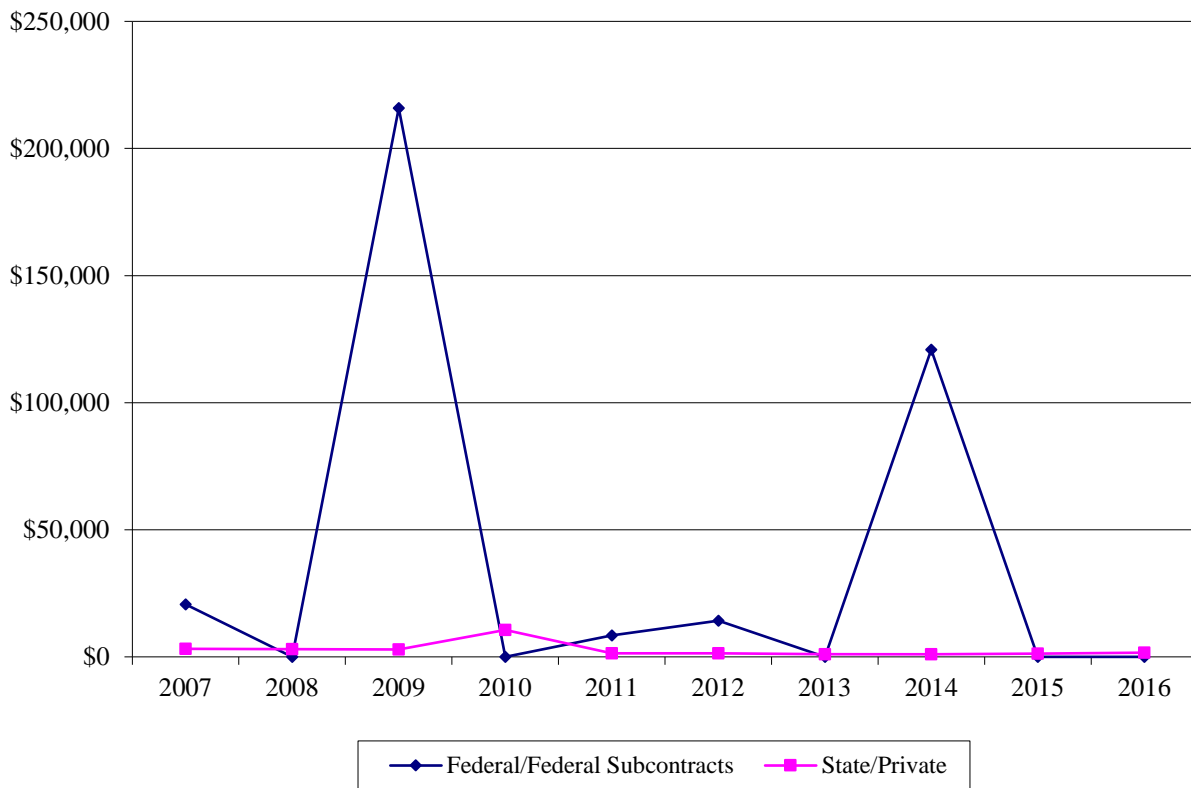
Department	# of Proposals Submitted	# of Awards	Dollars Awarded
Academic Internship	0	0	0
Admissions & Records	0	0	0
Associate Academic Vice President	0	0	0
Campus Life	0	0	0
Center for Instructional Design	0	0	0
Center for Service and Learning	0	0	0
Church Educational System	0	0	0
Faculty Center	0	0	0
General Education & Honors	0	0	0
Harold B. Lee Library	1	0	0
Information Technology Services	0	0	0
Neal A. Maxwell Institute for Religious Scholarship	0	0	0
Jacobsen Center	0	0	0
Media Services	0	0	0
Office of Research and Creative Activities	0	6	\$1,588
Technology Transfer	0	0	0
University Accessibility Center	0	0	0
University Computing Services	0	0	0
TOTALS	1	6	\$1,588

Proposals Submitted



External Research Funding (All Sources)

Year	Grants/Contracts		Total
	Federal/Federal Subcontracts	State/Private	
2007	\$20,718	\$3,100	\$23,818
2008	\$0	\$3,028	\$3,028
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



Non-College Units 2016 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>ORCA</i>								
Garrett, Sandra		Lost Paws	Vet Practicum	1/1/2007	12/31/2018	R0602182	\$415	4
Garrett, Sandra		Lost Paws	Vet Practicum	1/1/2007	12/31/2018	R0602182	\$225	4
Garrett, Sandra		Lost Paws	Vet Practicum	1/1/2007	12/31/2018	R0602182	\$25	4
Garrett, Sandra		Lost Paws	Vet Practicum	1/1/2007	12/31/2018	R0602182	\$200	4
Garrett, Sandra		Lost Paws	Vet Practicum	1/1/2007	12/31/2018	R0602182	\$423	4
Garrett, Sandy		Lost Paws	Vet Practicum	1/1/2007	12/31/2018	R0602182	\$300	4

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

Department Totals

Academic Internship	\$0
Admissions & Records	\$0
Associate Academic Vice President	\$0
Campus Life	\$0
Center for Instructional Design	\$0
Center for Service and Learning	\$0
Church Educational System	\$0
Faculty Center	\$0
General Education & Honors	\$0
Harold B. Lee Library	\$0
Information Technology Services	\$0
Neal A. Maxwell Institute for Religious Scholarship	\$0
Office of Research and Creative Activities	\$1,588
Jacobsen Center	\$0
Media Services	\$0
Technology Transfer	\$0
University Accessibility Center	\$0
University Computing Services	\$0
College Total:	\$1,588

Non-College Units

Source Breakdown of Grants and Contracts

Sponsor	Number Awarded	Total Amount
Federal		
None	0	0
<i>Total</i>	0	0
Subcontracts		
None	0	0
<i>Total</i>	0	0
State		
None	0	0
<i>Total</i>	0	0
Private		
Lost Paws	6	\$1,588
<i>Total</i>	6	\$1,588



Administrative Support of Compliance Committees & Regulations

Compliance and Certification

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. The following pages contain a record of official actions taken by these committees during the January 2016 through December 2016 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. Their 2016 activities are on subsequent pages.

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.

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.

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.

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

The Institutional Review Board (IRB)

Research involving human subjects requires approval of the university's IRB committee. This committee works closely with departmental or college communities and administrators.

The actions of the IRB committee for 2016 are summarized by the following table.

IRB Protocol Activity 2011

College	New Protocols
McKay School of Education	75
Fulton College of Engineering & Technology	13
Fine Arts & Communications	17
Family Home & Social Sciences	143
Humanities	46
LSCI	79
LAW	2
Marriott School of Management	26
Nursing	18
Physical & Mathematical Sciences	28
Religious Education	6
Non-College Units	22
<i>TOTALS</i>	494

There were also approximately 400 re-reviews and other administrative actions.

The Institutional Animal Care & Use Committee (IACUC)

The IACUC is a required university committee that oversees animal care and use, whether in research or instructional programs.

The actions of the IACUC committee for 2016 are summarized by the following table.

IACUC Protocol Activity 2011

College	New Approvals	Continuing	Pending
E&T	2	1	0
FHSS	1	5	0
LSCI	23	60	0
P&MS	1	2	0
ORCA	0	2	0
TOTALS	27	70	0

The Institutional Biosafety Committee (IBC)

The Biosafety Committee supervises the use of recombinant DNA and other biological safety and hazard issues within the university to insure that the federal guidelines pertaining to this activity are satisfied. The committee is also responsible for the supervision of all infectious materials used on campus in order to insure that local, state, and federal rules and regulations are understood and observed.

There were twenty-four new projects reviewed by the Biosafety Committee during the 2016 year.



Faculty 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 Technology Transfer Office also selects one or more individuals who have contributed to the process of transferring research results to societal uses. Both awards are presented at the annual Sponsored Research Luncheon.

The list below includes the most recent winners as well as the winners of the past three years. This group of past winners works with ORCA in selecting those to be recognized the next year.

ORCA

<i>Year</i>	<i>Recipient</i>
2016	Jani Radebaugh
2015	John Kauwe
2014	Anton Bowden
2013	Ramona Hopkins
2012	Tom Fletcher

Technology Transfer

<i>Year</i>	<i>Recipient</i>
2016	Julianne Grose, Sandra Hope, Don Breakwell
2015	Steven Graves
2014	R. Kirk Belnap
2013	Charles Knutson
2012	Tom Sederberg

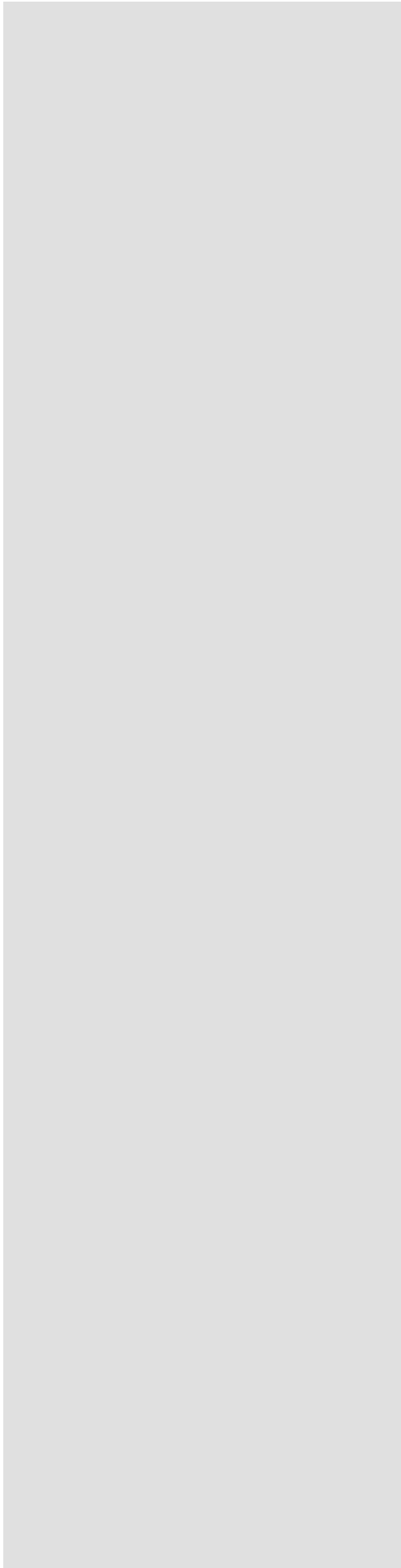
2016 Mentoring Environment Grant Recipients

The grant proposals are first reviewed at the department and college levels. The awards range in value according to the proposal and are given in January to be worked on over a two-year period. Final reports are received from the faculty at the end of the second year.

<u>Recipient</u>	<u>Department</u>	<u>College</u>
Bonnie Brinton	COMD	EDUC
Blake Hansen	CP&SE	EDUC
Christian Sabey	CP&SE	EDUC
P Richards	CP&SE	EDUC
Ryan Kellems	CP&SE	EDUC
Terisa Gabrielsen	CP&SE	EDUC
Donald Baum	EDLF	EDUC
Randall Davies	IP&T	EDUC
Royce Kimmons	IP&T	EDUC
Bryant Jensen	TED	EDUC
Ryan Nixon	TED	EDUC
Timothy Morrison	TED	EDUC
Dean Wheeler	CHEME	ET
Everett Nelson	CEEn	ET
Kevin Franke	CEEn	ET
Kyle Rollins	CEEn	ET
Michael Scott	CEEn	ET
Paul Richards	CEEn	ET
W. Spencer Guthrie	CEEn	ET
Aaron Hawkins	ECEn	ET
Brian Mazzeo	ECEn	ET
David Long	ECEn	ET
Greg Nordin	ECEn	ET
Shiuh-hua Wood	ECEn	ET
Chiang		ET
Brian Iverson	ME	ET
Brian Jensen	ME	ET
David Fullwood	ME	ET
Marc Killpack	ME	ET
Oliver Johnson	ME	ET
Julie Crockett	ME	ET
Dale Rowe	TECH	ET

Derek Hansen	TECH	ET
Justin Weidman	TECH	ET
Mark Graham	ART	FAC
Steven Thomsen	COMM	FAC
Jiamin Huang	DANCE	FAC
Kate Monson	DANCE	FAC
Shayla Bott	DANCE	FAC
Adrian Pulfer	DES	FAC
Linda Reynolds	DES	FAC
Paul Adams	DES	FAC
Robert Graham	DES	FAC
April Clayton	MUSC	FAC
Darrell Babidge	MUSC	FAC
Jeremy Grimshaw	MUSC	FAC
Gregory Thompson	ANTHRO	FHSS
Jacob Hickman	ANTHRO	FHSS
Olga Stoddard	ECON	FHSS
Erin Holmes	SFL	FHSS
Roy Bean	SFL	FHSS
Brandon Plewe	GEOL	FHSS
Leslie Hadfield	HIST	FHSS
Shawn Miller	HIST	FHSS
Edward Stratford	HIST	FHSS
Celeste Beesley	POLISCI	FHSS
Christopher Karpowitz	POLISCI	FHSS
David Magleby	POLISCI	FHSS
Jessica Preece	POLISCI	FHSS
Michael Barber	POLISCI	FHSS
Jay Goodliffe	POLISCI	FHSS
Brock Kirwan	PSYCH	FHSS
Gary Burlingame	PSYCH	FHSS
James Higley	PSYCH	FHSS
Jared Warren	PSYCH	FHSS
Michael Larson	PSYCH	FHSS
Mikle South	PSYCH	FHSS
Patrick Steffen	PSYCH	FHSS
Sam Hardy	PSYCH	FHSS
Steven Luke	PSYCH	FHSS
Wendy Birmingham	PSYCH	FHSS
Niwako Yamawaki	PSYCH	FHSS

Scott Steffensen	PSYCH	FHSS
Gordon Limb	SW	FHSS
Kevin Shafer	SW	FHSS
Mikaela Dufur	SOC	FHSS
Renata Forste	SOC	FHSS
Tim Heaton	SOC	FHSS
Carol Ward	SOC	FHSS
Rachel Yu Liu	A&NEL	HUM
Dawan Coombs	ENG	HUM
Jonathan Balzotti	ENG	HUM
Jill Rudy	ENG	HUM
Michelle James	G&R	HUM
Roger Macfarlane	CAL	HUM
Don Chapman	LING	HUM
Jeffrey Turley	S&P	HUM
Douglas Smith	LAW	LAW
David Galbraith	HBLL	LIB
John Kauwe	BIO	LSCI
Perry Ridge	BIO	LSCI
Richard Gill	BIO	LSCI
Roger Koide	BIO	LSCI
Shawn Clark	BIO	LSCI
Steven Peck	BIO	LSCI
Seth Bybee	BIO	LSCI
Robert Hyldahl	ES	LSCI
Sarah Ridge	ES	LSCI
Benjamin Crookston	HSCI	LSCI
Joshua West	HSCI	LSCI
Cougar Hall	HSCI	LSCI
Bradford Berges	M&MB	LSCI
Brent Nielsen	M&MB	LSCI
Brian Poole	M&MB	LSCI
Eric Wilson	M&MB	LSCI
Julianne Grose	M&MB	LSCI
Kim O'Neill	M&MB	LSCI
Laura Bridgewater	M&MB	LSCI
Richard Robison	M&MB	LSCI
Scott Weber	M&MB	LSCI
Chad Hancock	ND&FS	LSCI
Jeffery Tessem	ND&FS	LSCI
Laura K. Jefferies	ND&FS	LSCI



Student Recognition

2016 ORCA Grant Recipients

This group is selected by a process resembling the faculty pursuit of external research funding. Students prepare proposals for undergraduate research or creative projects and select faculty mentors. Faculty and administrators in each college carefully evaluate all proposals and select those deemed outstanding. The \$1,500 student grants and \$300 mentor stipends are awarded in winter semester and a report on the work is due within a year. These reports are tabulated as the Brigham Young University Journal of Undergraduate Research and Creative Activities, which is published on the Internet (<http://jur.byu.edu>).

<u>Student First Name</u>	<u>Student Last Name</u>	<u>Mentor Name</u>	<u>College</u>
Sydney	Boyer	Jennifer Wimmer	EDUC
Emily	Duncan	Ron Channell	EDUC
Alyssa	Grenfell	Christopher Crowe	EDUC
Annika	Stark	Barbara Culatta	EDUC
Chelsi	Tolbert	Jennifer Wimmer	EDUC
Jordan	Argyle	Matthew Memmott	ET
Tomonori	Baba	Alonzo Cook	ET
Jared	Baxter	Brian Mazzeo	ET
Kelly	Bickham	Dustin Bruening	ET
William	Bradley	Bradley Bundy	ET
Braquel	Burnett	Julie Crockett	ET
Arthur	Castleton	Alonzo Cook	ET
Caleb	Duncan	John Salmon	ET
Conner	Earl	Bradley Bundy	ET
Elise	Estep	Everett Nelson	ET
Michael	Farnsworth	Brian Iverson	ET
Lia	Gale	Brian Jensen	ET
Nathaniel	Gates	David Kryscynski	ET
Justin	Halversen	John Salmon	ET
Shaun	Hilton	W. Spencer Guthrie	ET
Joel	Johnson	Matthew Memmott	ET
Jacob	Ladd	Matthew Memmott	ET
Stefan	Leimer	David Morgan	ET
Mark	Lindsay	William Hecker	ET
Jarrold	Lund	Oliver Johnson	ET
Jaron	Lundwall	Alonzo Cook	ET
Austin	Maxwell	Julie Crockett	ET
Taylor	Mc Donnell	Tim McLain	ET
Benjamin	Murdoch	Marc Killpack	ET
Angela	Nakalembe	Alonzo Cook	ET

		Shiuh-hua Wood	
Matt	Padilla	Chiang	ET
Alessandro	Perego	John Colton	ET
Zach	Pribyl	Kara Stowers	ET
Tysum	Ruchti	Anton Bowden	ET
Zachary	Sadler	Matthew Jones	ET
Peter	Schleede	Larry Howell	ET
Robert	Stevens	W. Spencer Guthrie	ET
Matthew	Usevitch	Alonzo Cook	ET
David	Usevitch	Mark Colton	ET
Kennedy	Wandelt	Alonzo Cook	ET
		Shiuh-hua Wood	
Nathan	Whitehead	Chiang	ET
Nathan	Wohlgemuth	Daniel Ess	ET
Zac	Adamson	Scott Holden	FAC
Erica	Allen	Paul Adams	FAC
Asher	Bay	Christian Asplund	FAC
Anne	Bennion	Alexander Woods	FAC
Melody	Chow	Sharon Swenson	FAC
Jane	Christensen	Peter Everett	FAC
Amy	Clegg	Robert Barrett	FAC
Aloe	Corry	Peter Everett	FAC
Michael	Draut	Paul Broomhead	FAC
Mandy	Elsmore	Gary Barton	FAC
Victoria	Estrada	Edward Carter	FAC
Alissa	Freeman	Scott Holden	FAC
Ellie	Goldrup	Joseph Parry	FAC
Christian	Hales	Eric Hansen	FAC
Cassidy	Hansen	Edward Carter	FAC
Jasmine	Harouny	Quint Randle	FAC
Krissa	Hendricks	Don Cook	FAC
Tessa	Homer	Kate Monson	FAC
Forrest	Howell	Scott Holden	FAC
Sydney	Hughes	Darrell Babidge	FAC
Christopher	Madsen	Rosalind Hall	FAC
Maren	McInnes	Steven Thomsen	FAC
Erin	Meeks	Jeff Parkin	FAC
Jason	Murray	Steven Thomsen	FAC
Abigail	Norton	Steven Thomsen	FAC
Erica	Palmer	Quint Randle	FAC
Allyssa	Pehrson	Brittany May	FAC

Kristin	Perkins	Megan Sanborn Jones	FAC
Alena	Randolph	Bryon Draper	FAC
David	Seay	Michelle James	FAC
Kieren	Smith	Jeremy Grimshaw	FAC
Emily	Smith	Marilyn Berrett	FAC
McKinley	Stauffer	Steven Thomsen	FAC
Adrian	Tidd	Linda Reynolds	FAC
Ryan	Turner	Steven Thomsen	FAC
Kirsten	Watkins	Mary Farahnakian	FAC
Scott	Whipple	George Nelson	FAC
Drake	Withers	Robert Graham	FAC
Margo	Andersen	Renata Forste	FHSS
Stephanie	Bair	Scott Steffensen	FHSS
Lauren	Barden	Celeste Beesley	FHSS
Daniela	Barriga	Kristie Phillips	FHSS
Anne	Barton	Tim Heaton	FHSS
Kenneth	Bedwell	Jay H. Buckley	FHSS
Eric	Brighton	Brock Kirwan	FHSS
Holden	Brimhall	Julie Valentine	FHSS
Haley	Bronson	Jeremy Yorgason	FHSS
Seth	Cannon	Rob McFarland	FHSS
Christian	Carr	Scott Steffensen	FHSS
Justine	Carre	Karen Carter	FHSS
Zach	Christensen	Erin Bigler	FHSS
Jeff	Clawson	Kerk Phillips	FHSS
Amanda	Coffelt	Mikaela Dufur	FHSS
Joseph	Cooprider	Brigham Frandsen	FHSS
Corinne	DeVault	Brock Kirwan	FHSS
Tanner	Eastmond	Joseph Price	FHSS
Mandi	Ellgen	Brock Kirwan	FHSS
Kathryn	Erickson	Jacob Hickman	FHSS
Lee	Essig	Sarah Coyne	FHSS
Kyle	Eversole	Wendy Birmingham	FHSS
Hayden	Galloway	Michael Barber	FHSS
Justin	Gardiner	Richard Evans	FHSS
Kevin	Garland	Jeffery Tessem	FHSS
Alejandra	Gimenez	Jeremy Pope	FHSS
Clarissa	Gregory	David Magleby	FHSS
Darren	Guenther	Ross Flom	FHSS
Angela	Gulisane	Todd Manwaring	FHSS
Zhicheng	Han	Renata Forste	FHSS

Samantha	Heley	Renata Forste	FHSS
Celeste	Hook	Scott Braithwaite	FHSS
Athena	Howell	Brock Kirwan	FHSS
Trevor	Huff	Erin Bigler	FHSS
Charlene	Humpherys	Gregory Wilkinson	FHSS
Taylor	Hyde	Scott Steffensen	FHSS
Sam	Jackson	Scott Braithwaite	FHSS
Andrew	Jensen	David Magleby	FHSS
Steven	Jones	Daniel Ess	FHSS
Keaton	Karlinsey	Alonzo Cook	FHSS
Jordan	Kezele	Michael MacKay	FHSS
Carly	Landgrave	Renata Forste	FHSS
Natalie	Lange	James Higley	FHSS
Daniel	Lathen	Jeffery Tessem	FHSS
Gilbert	Marchant	Scott Steffensen	FHSS
David	Matthews	Scott Steffensen	FHSS
Donald	McArthur	Richard Evans	FHSS
Spencer	McCarthy	Scott Steffensen	FHSS
Aaron	Miller	Chad Jensen	FHSS
Susannah	Morrison	Miranda Wilcox	FHSS
Garret	Nash	Gregory Thompson	FHSS
Spencer	Nielson	Wendy Birmingham	FHSS
Rebecca	Oliphant	Scott Steffensen	FHSS
Emily	Peterson	Gregory Thompson	FHSS
Joshua	Peterson	Jason Kenealey	FHSS
Jared	Peterson	Scott Steffensen	FHSS
Dustin	Phelps	Jay Goodliffe	FHSS
Meagan	Rainock	Renata Forste	FHSS
Nick	Randall	Michael Larson	FHSS
Adam	Roberts	Joseph Price	FHSS
Jennifer	Robison	Kristie Phillips	FHSS
Parker	Rogers	Richard Evans	FHSS
Collin	Sanderson	Alonzo Cook	FHSS
Daniel	Sands	Erin Bigler	FHSS
Bryan	Seegmiller	Brian Boyer	FHSS
Jordan	Sgro	Wendy Birmingham	FHSS
Sarah	Shepard	David Nelson	FHSS
Rebecca	Shuel	Michael Barber	FHSS
Jack	Silcox	Bruce Brown	FHSS
Seth	Spencer	Brock Kirwan	FHSS
Kiana	Stewart	Daryl Lee	FHSS

Taylor	Tribett	Scott Steffensen	FHSS
Matthew	Walden	Celeste Beesley	FHSS
Anna	Ward	Benjamin Ogles	FHSS
Spencer	Waters	James Higley	FHSS
Mckenna	Westra	Jay Goodliffe	FHSS
Claire	Woodward	Craig Harline	FHSS
Shawn	Wortham	Matthew Bekker	FHSS
Kaitlynn	Wright	Wendy Birmingham	FHSS
Greg	Wurm	Joseph Franklin	FHSS
Talia	Abbott	Julie Damron	HUM
Kari	Allsup	Dawan Coombs	HUM
Jill	Bentley	Allen J. Christenson	HUM
Katie	Bowman	Frank Christianson	HUM
Rachel	Cannon	Dan Dewey	HUM
Hope	Collins	Frank Christianson	HUM
Nancy	Eyre	Michelle James	HUM
Karen	Fuhriman	Allen J. Christenson	HUM
Jason	Gassman	Paul Reynolds	HUM
Angela	Grundvig	Rex Nielson	HUM
Stephanie	Harrison	Dennis Packard	HUM
Joseph	Heath	William Eggington	HUM
Kelsey	Herdman	Newel Brown	HUM
Asa	Laws	Rex Nielson	HUM
Joshua	Mathias	Deryle Lonsdale	HUM
Catie	Nuckols	Allen J. Christenson	HUM
Adriana	Pace	Kirk Belnap	HUM
Sondra	Sasser	Dennis Packard	HUM
Joshua	Sims	Dirk Elzinga	HUM
Tamara	Thomson	Stephen Tuttle	HUM
Michelle	Turner	Rex Nielson	HUM
Heather	Baird	Trevor Alvord	LIB
Kayla	Alder	Brock Kirwan	LSCI
Russell	Anderson	Shawn Clark	LSCI
Paul	Baker	Jeff Edwards	LSCI
Benjamin	Bitner	Jeffery Tessem	LSCI
Andrew	Bratsman	John Chaston	LSCI
Rachel	Brog	Kim O'Neill	LSCI
Evan	Buckmiller	Alonzo Cook	LSCI
Abram	Campbell	Greg Jolley	LSCI
Rebecca	Clement	Riley Nelson	LSCI
Theresa	Conley	Leigh Johnson	LSCI

Caitlynn	Cooper	Arminda Suli	LSCI
Justin	Crandall	Scott Weber	LSCI
Kristen Laura	Crofts	John Kauwe	LSCI
Blake	Dallon	Benjamin Bikman	LSCI
Ethan	Damron	Mark Belk	LSCI
Jonathan	Dayton	Stephen Piccolo	LSCI
Matt	Durrant	Mary Davis	LSCI
Jared	Duval	David Michaelis	LSCI
Kalare	Eberling	Brian Poole	LSCI
Alyssa	Evans	Matthew Seeley	LSCI
Christopher	Fajardo	John Chaston	LSCI
Donald	Ford	John Chaston	LSCI
Scott	Frodsham	Mary Davis	LSCI
Jacob	Fullmer	Randy Larsen	LSCI
Brandon	Garcia	Sandra Burnett	LSCI
Ellie	Gillett	Mark Graham	LSCI
Logan	Groscost	Robert Hyldahl	LSCI
Trevor	Gruwell	Bruce Roundy	LSCI
Anna	Guyer	Stephen Piccolo	LSCI
Bryan	Hair	Bradford Berges	LSCI
David	Hallan	Dixon Woodbury	LSCI
Michael	Harding	Evan Thacker	LSCI
Douglas	Hawkes	Stephen Piccolo	LSCI
Katelyn	Hendricks	Byron Adams	LSCI
Amanda	Hobson	Jeffery Tessem	LSCI
Trevor	Hodson	Donald Breakwell	LSCI
Karlee Rochel	Humrich	Mathew Madsen	LSCI
Jacob	Ivey	Arminda Suli	LSCI
Samantha	Jensen	John Kauwe	LSCI
Ratchapong	Kaosucharit	Jamie Jensen	LSCI
Joshua	Kelley	Lance Davidson	LSCI
Kyle	Kener	Jeffery Tessem	LSCI
Curtis	Killpack	Michael Larson	LSCI
Taylor	King	Seth Bybee	LSCI
Randy	Klabacka	Jack Sites	LSCI
Kadie	Kovach	Eugene Cole	LSCI
Lindy	Koyle	John Chaston	LSCI
Sarah	Livingston	Alonzo Cook	LSCI
Kyle	Lyons	David Thomson	LSCI
Ryan	Mackay	Jason Hansen	LSCI
Ethan	Marston	David Stock	LSCI

Jessica	Martinez	Eugene Cole	LSCI
Megan	McGhie	Jack Sites	LSCI
Jared	Meek	Brigham Daniels	LSCI
Wei	Meng	Kim O'Neill	LSCI
Nicholas	Nelson	Elizabeth Bailey	LSCI
Chris	Nielson	William McCleary	LSCI
Connor	Ogden	Neil Peterson	LSCI
Scooter	Page	James Higley	LSCI
Sheradyn	Parker	John Kauwe	LSCI
Jacob	Parmley	Robert Hyldahl	LSCI
Jenny	Pattison	Julianne Grose	LSCI
Jason	Paxman	Dixon Woodbury	LSCI
Connor	Peck	Kim O'Neill	LSCI
Corinne	Penrod	John Chaston	LSCI
Jordan	Peterson	J. Brent Feland	LSCI
Caleb	Porter	Scott Steffensen	LSCI
Taalín	Rasmussen	Bradford Berges	LSCI
Jordan	Read	Jon Hopkins	LSCI
Frank	Robertson	Harold Miller	LSCI
Tanner	Robinson	William McCleary	LSCI
Kerri	Russell	Bryan Hopkins	LSCI
Carson	Russell	Jonathon Hill	LSCI
Miranda	Ruth	Bryan Hopkins	LSCI
Tim	Siebach	David Erickson	LSCI
Matthew	Smith	Bradford Berges	LSCI
Devon	Smith	Jonathan Wisco	LSCI
Jeremy	Struk	Alonzo Cook	LSCI
Anne	Thomas	Richard Gill	LSCI
Mark	Wadsworth	Perry Ridge	LSCI
Sage	Wright	John Kauwe	LSCI
Erin	Wu	David Erickson	LSCI
Mitchell	Young	Seth Bybee	LSCI
Drew	Allen	David Wood	MSM
Rebekah	Brau	Nile Hatch	MSM
Lora	Hughes	Neil Lundberg	MSM
Brock	Johanson	Bonnie Anderson	MSM
Mark	Johnson	Taylor Nadauld	MSM
Jeff	Mecham	Jason Kenealey	MSM
Amanda	Merrill	Neil Lundberg	MSM
Andrew	Petersen	William Tayler	MSM
Coray	Preece	Robert Hyldahl	MSM

Derick	Simmons	Jeffrey Bednar	MSM
Scott	Tolton	Michael Drake	MSM
Hannah	Whipple	Bryan Stewart	MSM
Parker	Williams	Jeffrey Jenkins	MSM
Annica	Cooper	Frost Steele	Not Listed
Michaela	Fordham	Mary Farahnakian	Not Listed
Alistair	Hilton	Jonathan Wisco	Not Listed
Ari	Kokol	Blake Hansen	Not Listed
Rebekah Marie	Leavitt	Renea Beckstrand	Not Listed
Cait	Shill	Marilyn Berrett	Not Listed
Lindsay	Dixon	Karen Whitt	NURS
Lisa	Echols	Bret Lyman	NURS
Rebecca	Edmunds	Neil Peterson	NURS
Jamie	Gettys	Cheryl Corbett	NURS
Robin	Grigg	Renea Beckstrand	NURS
Brooke	Holman	Katreena Merrill	NURS
Deven	Jennings	Stacie Hunsaker	NURS
Elizabeth	Kerr	Donna Freeborn	NURS
Emily	Mather	Janelle Macintosh	NURS
Mike	McNeil	Gaye Ray	NURS
Cory	Paul	Renea Beckstrand	NURS
Lindsey	Shaw	Bret Lyman	NURS
Lisa	Smith	Renea Beckstrand	NURS
Brooke	Stacey	Lacey Eden	NURS
Austen	Tullis	Neil Peterson	NURS
Abigail	Wilkerson	Katreena Merrill	NURS
Sage	Williams	Julie Valentine	NURS
Hyrum	Wright	Karen Whitt	NURS
Jake	Bagley	Jeremy Johnson	PMS
Joel	Barker	Eric Christiansen	PMS
Benjamin	Bay	Jack Sites	PMS
John	Bohman	Joseph Moody	PMS
Jacob	Brewer	Sean Warnick	PMS
James	Broadbent	Jeffery Barrow	PMS
Mariah	Chambers	Ronald Harris	PMS
Strom	Clark	Mark Transtrum	PMS
Joel	Eliason	Benjamin Webb	PMS
Aaron	Escamilla	Ronald Harris	PMS
Kaitlin	Gibson	Matthew Heaton	PMS
Jeremy	Goodsell	Daniel Smalley	PMS
Chris	Hair	Bronson Argyle	PMS

Colin	Hale	Gregory Carling	PMS
Jake	Hansen	Gus Hart	PMS
Andrew	Henrichsen	John Colton	PMS
Jenna	Jackson	James Higley	PMS
Sean	Kang	Jeffery Tessem	PMS
Aaron	Kubosumi	Steven Castle	PMS
Jacob	Lefler	Kenneth Christensen	PMS
William	Ludlam	Barry Willardson	PMS
Leanne	Lunsford	Eric Hintz	PMS
Seth	Luo	Steven Castle	PMS
Cole	Lyman	Mark Clement	PMS
Kyle	Matt	Denise Stephens	PMS
Jacob	O'Bryant	Yiu-Kai Ng	PMS
Matthew	Proctor	Daniel Ess	PMS
McKinley	Pugh	Dallin Durfee	PMS
Jason	Ray	Jeffery Tessem	PMS
Christopher	Rytting	Richard Evans	PMS
Adam	Shumway	Joseph Price	PMS
Justin	Snyder	Daniel Ess	PMS
Ryjul	Stokes	David Michaelis	PMS
Hannah	Waddel	Armindia Suli	PMS
Andrew	White	Mark Transtrum	PMS
Zachary	White	William Christensen	PMS
Curtis	Wigington	William Barrett	PMS
Haley	Wilson	Thomas Wayment	REL



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 staff consists of a Director, an Associate Director, three Research Administrators, and office staff.

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 Accounting Office for post-award grant and contract accounting, and with the Faculty Personnel Office for payment of research compensation.

Personnel.

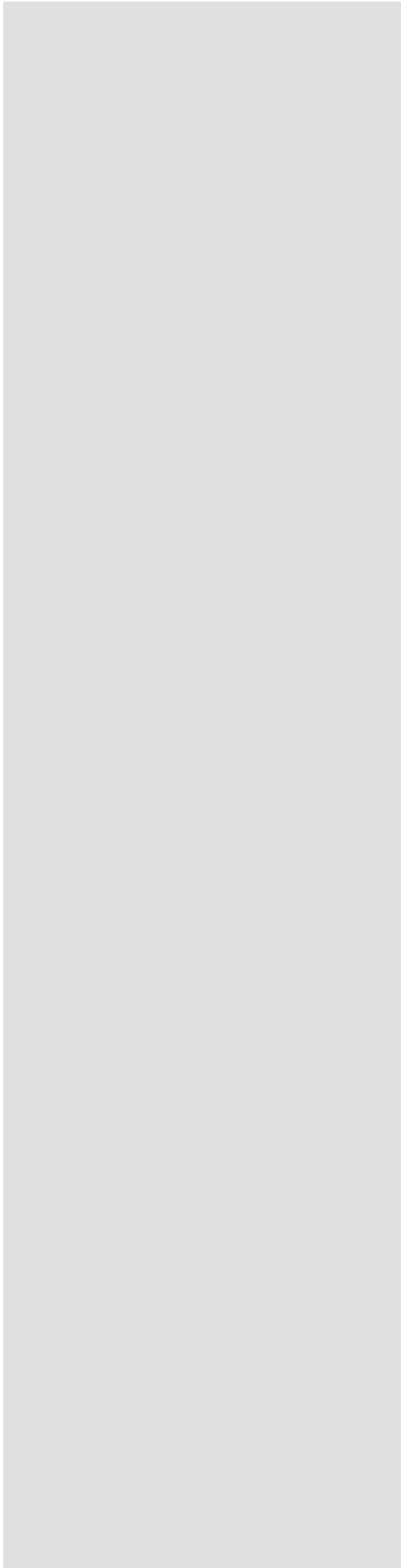
Director:	Gary Reynolds
Associate Director:	Gene Larson
Research Administrator:	Debbie Silversmith
Research Administrator:	Susie Quartey
IRB Administrator:	Sandee Aina
Office Manager/Secretary:	Rachel Teki
IACUC/IBC Secretary:	Sarah Webb
Student Secretaries:	Bethany Winn, Natalie Moeller, Rebecca Burr, Madison Zeagler
Student Webmaster:	Jonathan Snyder, Daniel Lee

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. Policies must not conflict with the Uniform Guidance document provided by the Federal Government, but must also fit within the culture of BYU.
- 2) Opportunity and Expertise Matching
 - ◆ Represent the university's research program to other research organizations, funding agencies, and other universities.
 - ◆ Match-making (requests for proposals and faculty).
 - ◆ Monitor requests for proposals and deadlines.

- ◆ Disseminate information on funding opportunities to faculty.
 - ◆ Maintain up-to-date reference files of funding sources, agency directories, and BYU faculty research.
- 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.
 - ◆ Track, manage 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 (IRB, IACUC, and IBC) and assist them through secretarial support for meetings, correspondence, and proposal approval.
 - ◆ Assure each of the three Compliance Committees has sufficient resources and manpower to effectively complete their stewardships.
- 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 Service's office of Grants & Contracts Accounting (G&CA)
 - ◆ Monitor research accounts in conjunction with G&CA 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, other university offices, and sponsors to facilitate and administrate management of projects.
 - ◆ Administer the activities of the office dealing with the management of research contracts.
- 8) Student Mentoring Program
- ◆ Oversee and administer undergraduate ORCA grant program
 - ◆ Oversee and administer faculty Mentoring Environment Grant (MEG) program
 - ◆ Represent the university in national, regional, and state research organizations.
 - ◆ Administer recognition awards.
 - ◆ Assist in coordinating graduate fellowships.
- 9) 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.
- 10) University Negotiations/Trouble Shooting
- ◆ Participate in DHHS indirect costs justification.

- ◆ Review/respond to internal and external audits.
 - ◆ Direct negotiations with sponsors/federal agencies on problems such as termination or nonpayment of invoices.
- 11) Administer Animal Research Facility
- ◆ Train employees and students in proper animal facility procedures
 - ◆ Comply with Federal and State regulations governing animal facility operations
 - ◆ Participate on the IACUC
 - ◆ Train Faculty and research students in proper animal handling.
 - ◆ Clean all cages, feed all animals
- 12) Office Management
- ◆ 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.
 - ◆ Compile and distribute a monthly Funding Activity Report (FAR).
 - ◆ Generate supplemental research payments.
 - ◆ Assist in preparation of reports and paperwork.
 - ◆ Maintain the Journal of Undergraduate Research and Creative Activities.
 - ◆ Maintain ORCA homepage (<http://orca.byu.edu>).
- 13) Faculty Outreach
- ◆ Educate principal investigators
 - ◆ Host Annual Sponsored Research Achievement Luncheon and present Sponsored Research Achievement Award
 - ◆ Participation in Faculty Center Grant Writing Workshop
 - ◆ Attend New Faculty Fair each fall



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)