



2014
Annual Report
Of
Sponsored Research

Office of
Research and
Creative Activities



O·R·C·A

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

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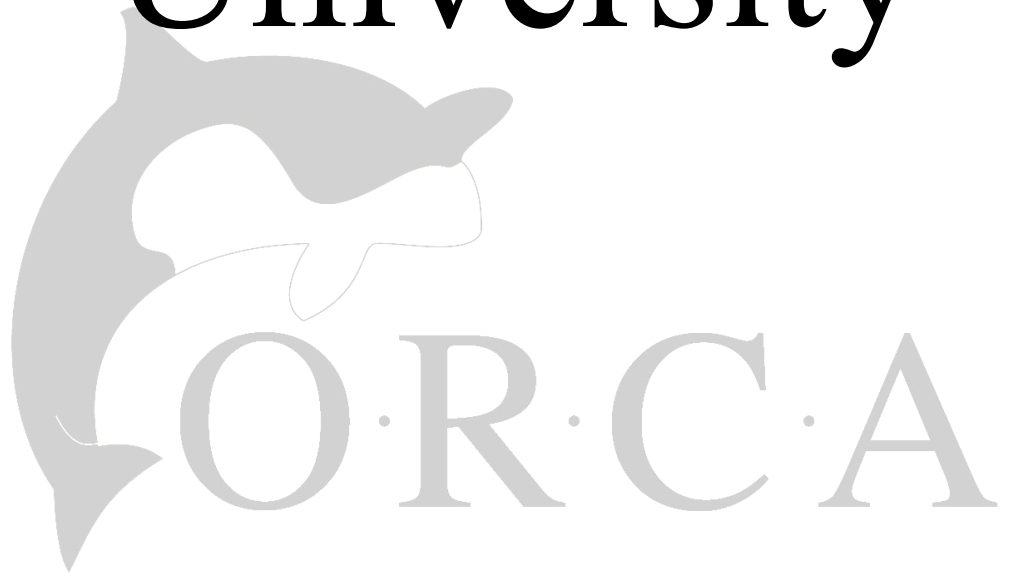
Preface

This report covers January 1, 2014 to December 31, 2014.

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

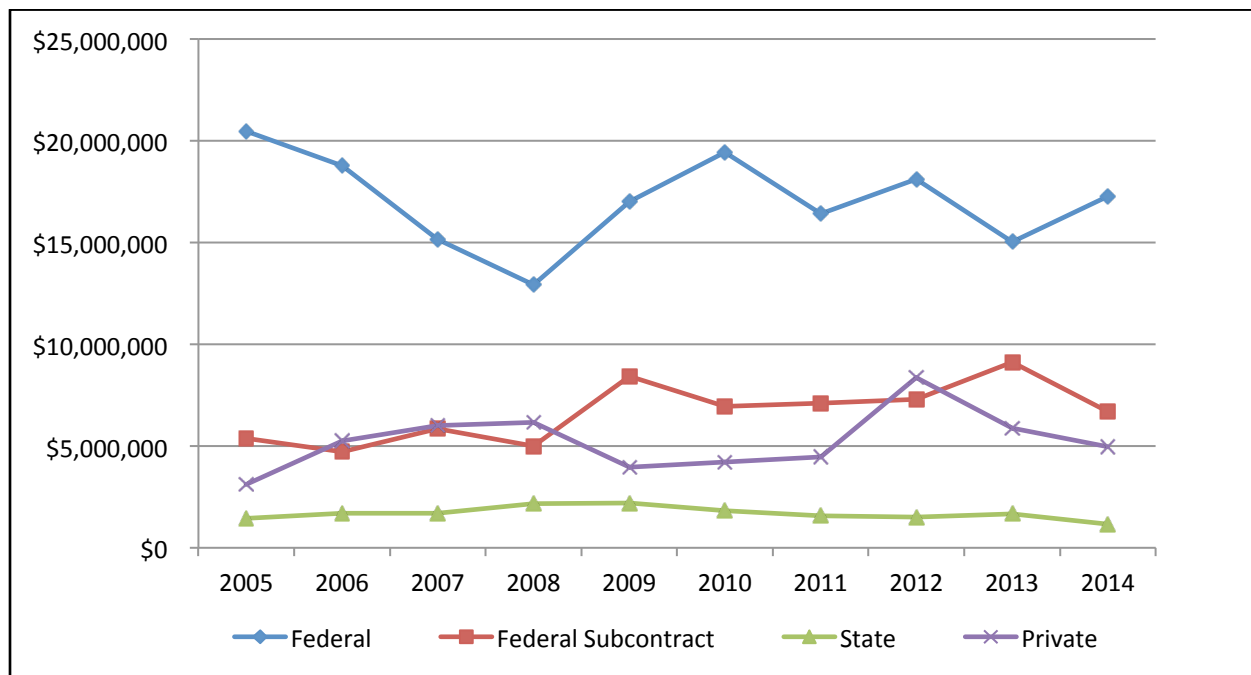
- ***Reports of Sponsored Programs:*** Sponsored programs at BYU are those funded by external sources through ORCA. They are largely research projects, but many include programs that are designed to develop or support instructional or service activities. Support for creative activities such as performance, 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



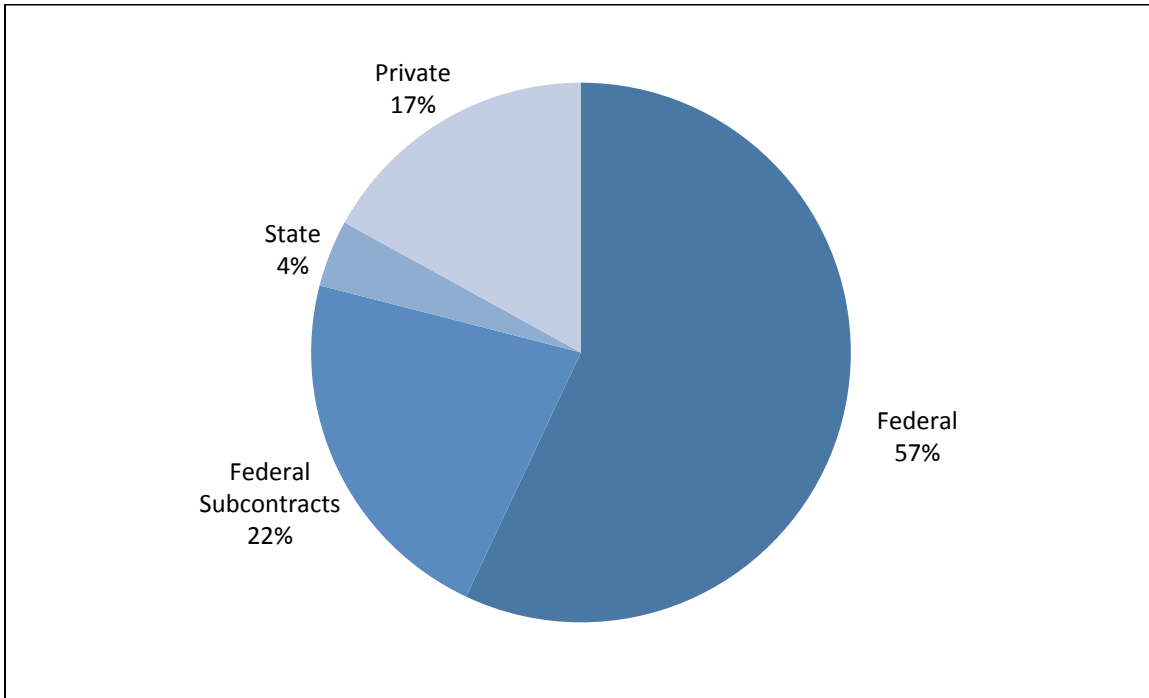
External Research Funding

Grants/Contracts						
Year	Federal	Federal Subcontract	State	Private	Total	%Federal
2005	\$20,464,956	\$5,366,648	\$1,449,466	\$3,098,213	\$30,379,283	85%
2006	\$18,789,401	\$4,716,016	\$1,686,117	\$5,263,840	\$30,455,374	77%
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	51%
2013	\$15,034,387	\$9,126,548	\$1,679,472	\$5,871,720	\$31,712,126	47%
2014	\$17,260,137	\$6,693,946	\$1,151,886	\$4,984,449	\$30,090,417	57%



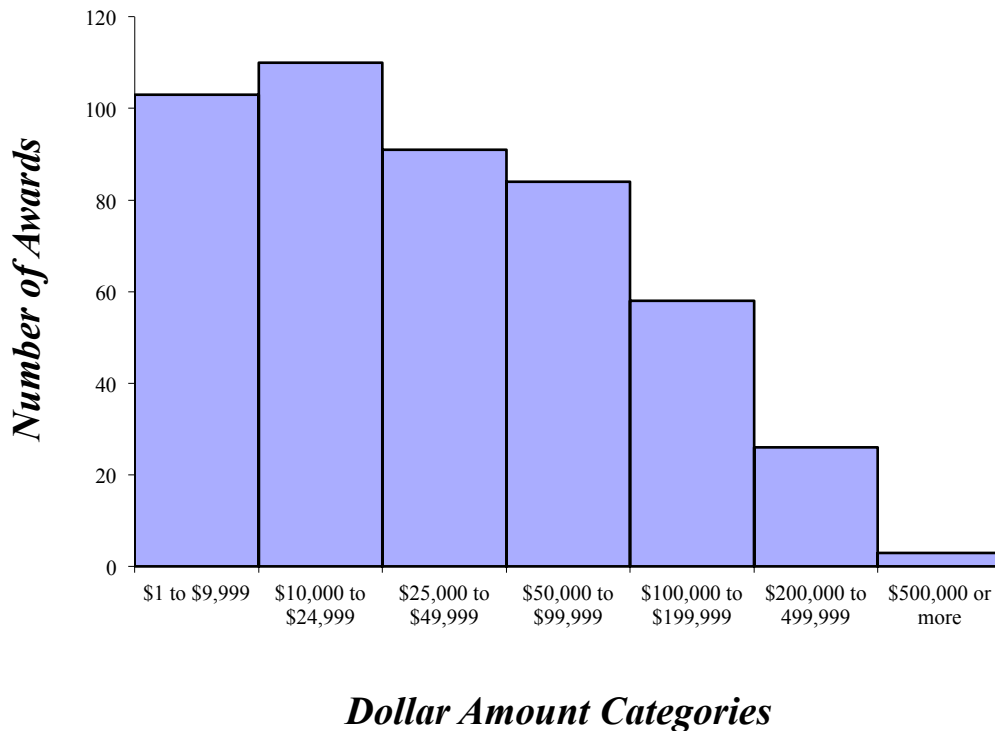
External Funds by Source—2014

Source	Amount	% of Total
Federal	\$16,415,455	57%
Federal Subcontracts	\$6,693,946	22%
State	\$1,151,886	4%
Private	\$4,984,449	17%
<i>Total Funding</i>	\$30,090,417	100%

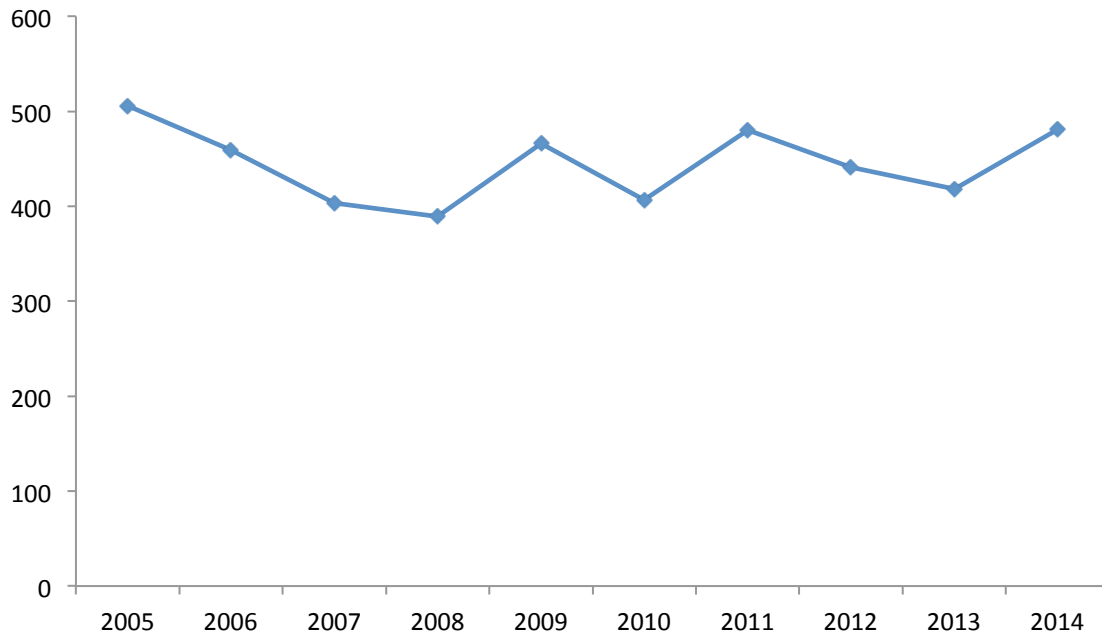


Grant/Contract Awards by Amount—2014

Dollar Amount Categories	# of Awards	% of Total Awards by #	\$ Awards	% of Total Awards by \$ Amount
\$1 to \$9,999	103	22%	\$498,652	2%
\$10,000 to \$24,999	110	23%	\$1,758,885	6%
\$25,000 to \$49,999	91	19%	\$3,200,207	10%
\$50,000 to \$99,999	84	18%	\$5,760,607	19%
\$100,000 to \$199,999	58	12%	\$7,907,950	26%
\$200,000 to \$499,999	26	5%	\$8,086,710	27%
more than \$500,000	3	1%	\$2,877,406	10%
Totals	475	100%	\$30,090,417	100%

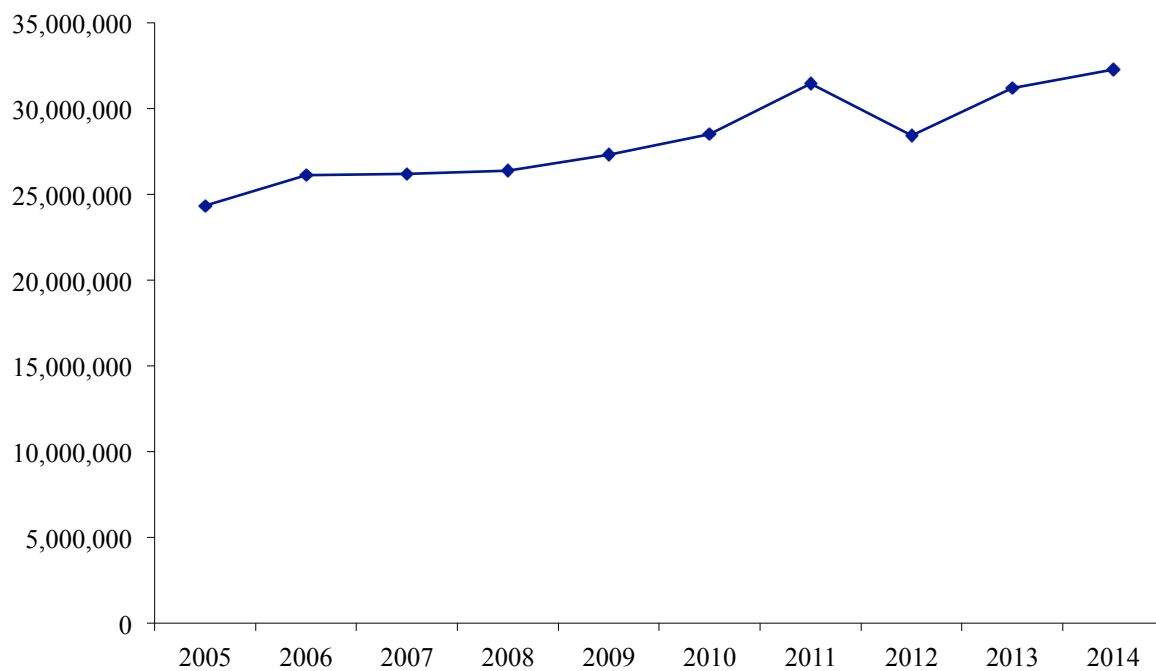


Proposals Submitted



Total Expenditures (Grants and Contracts)

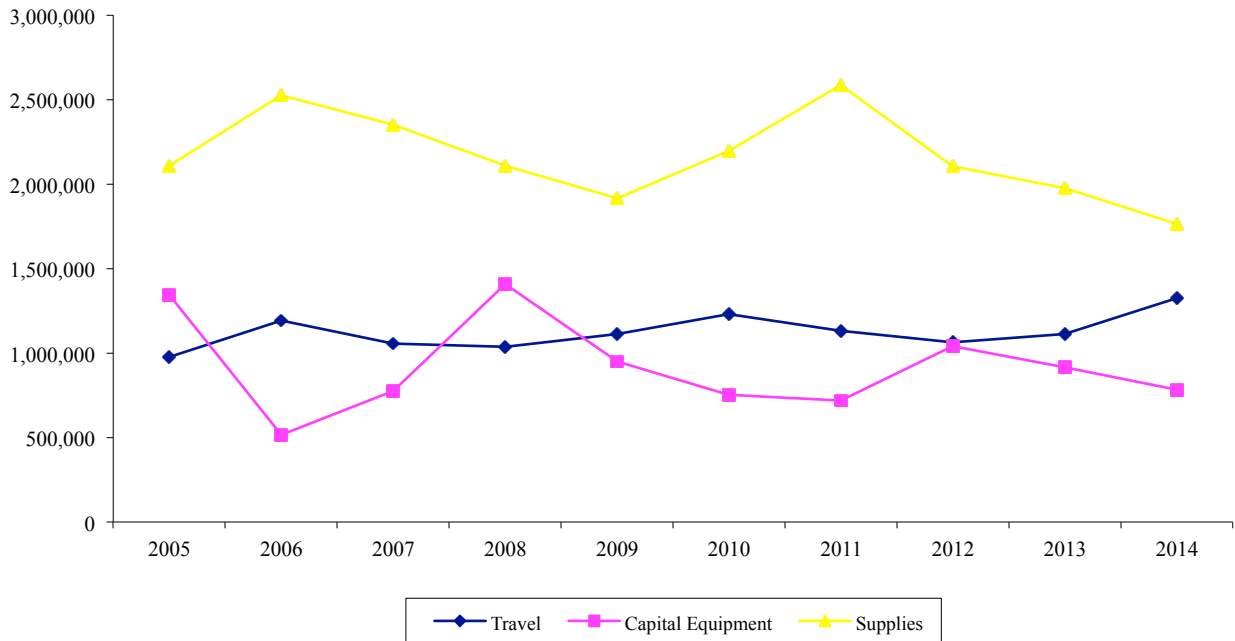
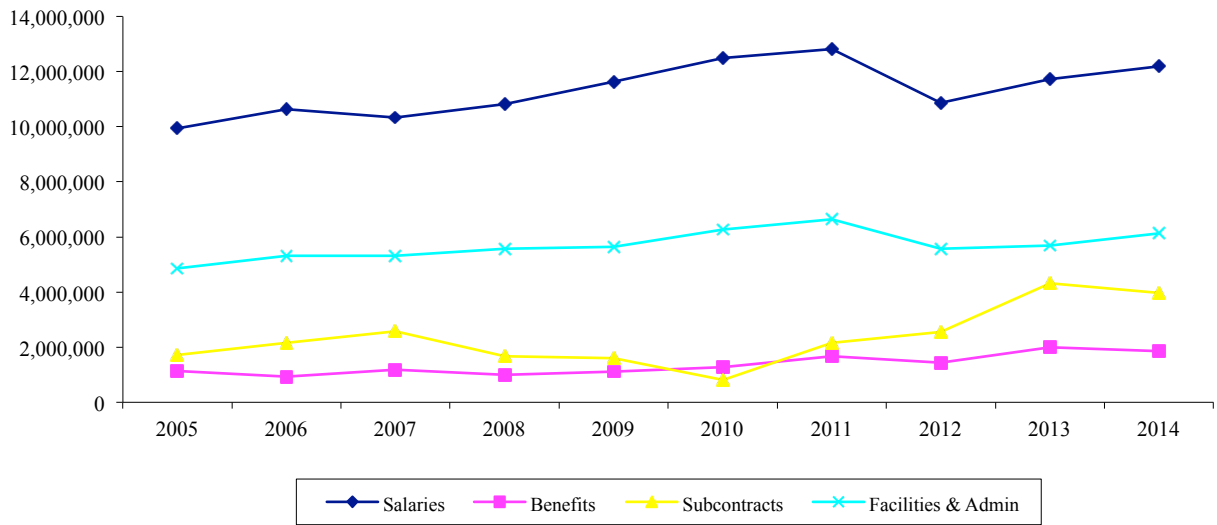
Year	Total Expenditures
2005	\$24,334,391
2006	\$26,117,033
2007	\$26,178,686
2008	\$26,364,124
2009	\$27,299,213
2010	\$28,503,008
2011	\$31,443,918
2012	\$28,438,600
2013	\$31,184,980
2014	\$32,258,073



2014 Research Contract/Grant Expenditures by Category

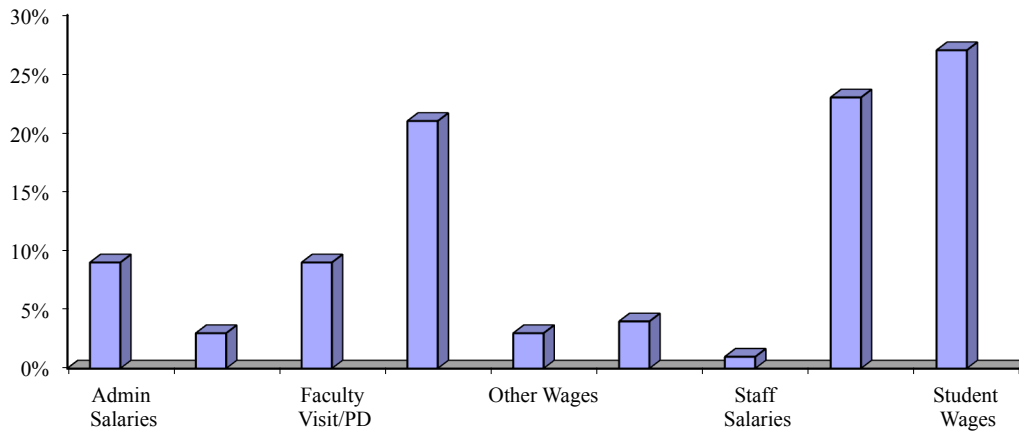
<i>Personnel Costs</i>	<i>Amount</i>
<i>Salaries & Wages</i>	
Administrative Salaries	991,894
Faculty Salaries	305,523
Faculty Sal-Visit-Health Ben	1,187,875
Faculty—Supplemental	2,395,010
Part-time Faculty Salaries	460,333
Other Wages	397,721
Staff Salaries	175,887
Student Contracts	2,873,394
Student Wages	3,401,008
Total Salaries & Wages	\$12,188,645
Fringe Benefits	\$1,866,552
Total Personnel Costs	\$14,055,197
<i>Other</i>	
Access Equipment	19,484
Advertising	663
Capital Equipment	784,150
Conference & Symposium Costs	503,283
Computer Serv-Campus-Contract	177
Consultants	599,816
Contract Services	884,841
Employee Development/Training	87,037
Equipment Repair & Maintenance	136,888
Exempt Account	-
Facilities Repair & Maintenance	-
Facilities & Administration	6,131,194
Hosting, Food, Entertainment	42,225
Non-Capital Equipment	33,856
Participant Stipends	9,607
Postage & Mailing	9,420
Printing & Copying	15,200
Program Income	-202,193
Purchase Discounts Earned	-207
Rental Expense	126,513
Research Fellowships	-
Research Publications Costs	13,317
Software Acquisitions/Support	26,073
Student Aid	1,893,903
Subcontracts	3,961,319
Supplies	1,764,034
Telecommunications	38,306
Travel	1,323,837
Uniforms/Costumes/Laundry	-
Utilities	133
Total Other Expenditures	\$18,202,876
Total Research Expenditures	\$32,258,073

Research Dollars Expended (Grants and Contracts Only)

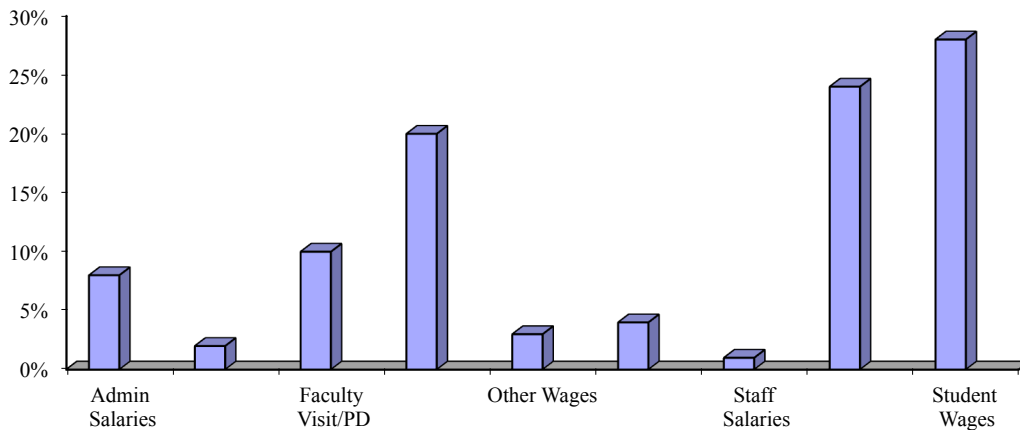


Salary and Wage Expenditures (Grants and Contracts Only)

2013
Total: \$11,714,631



2014
Total: \$12,188,645

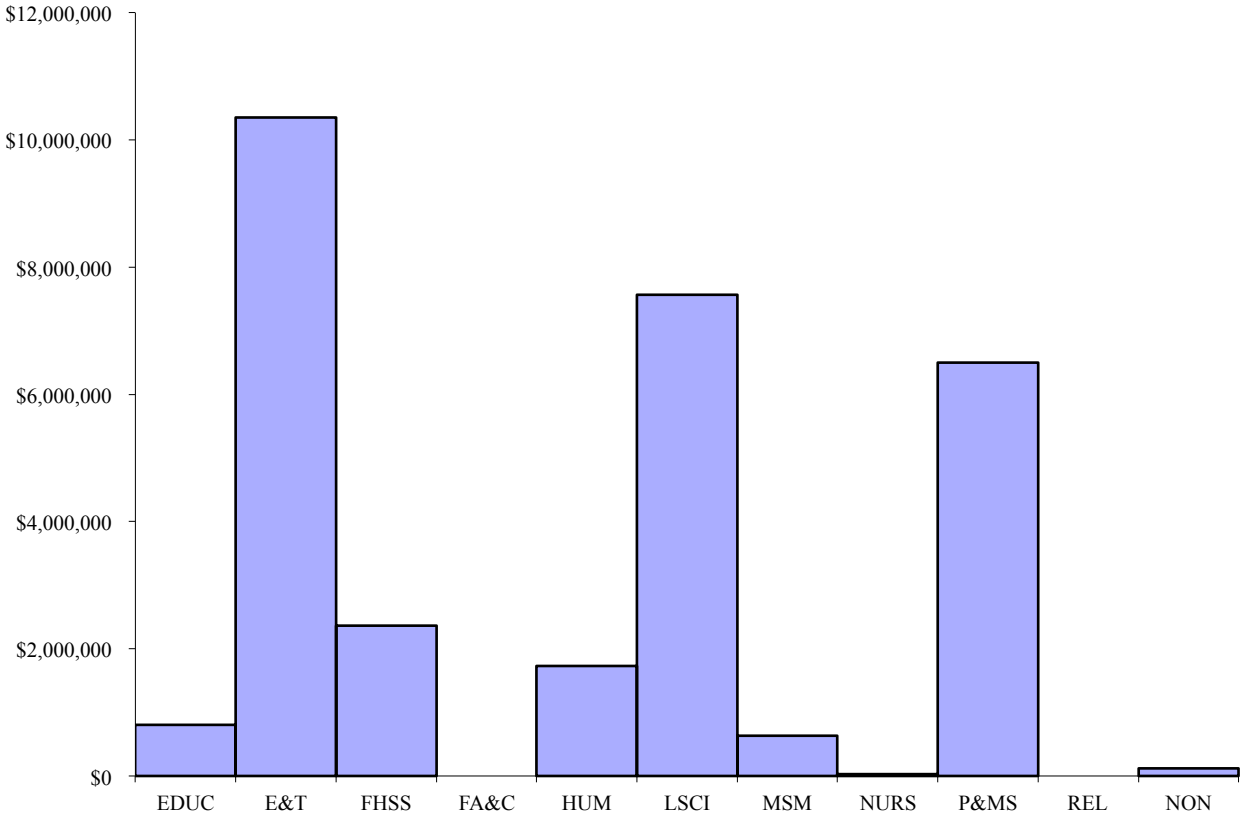




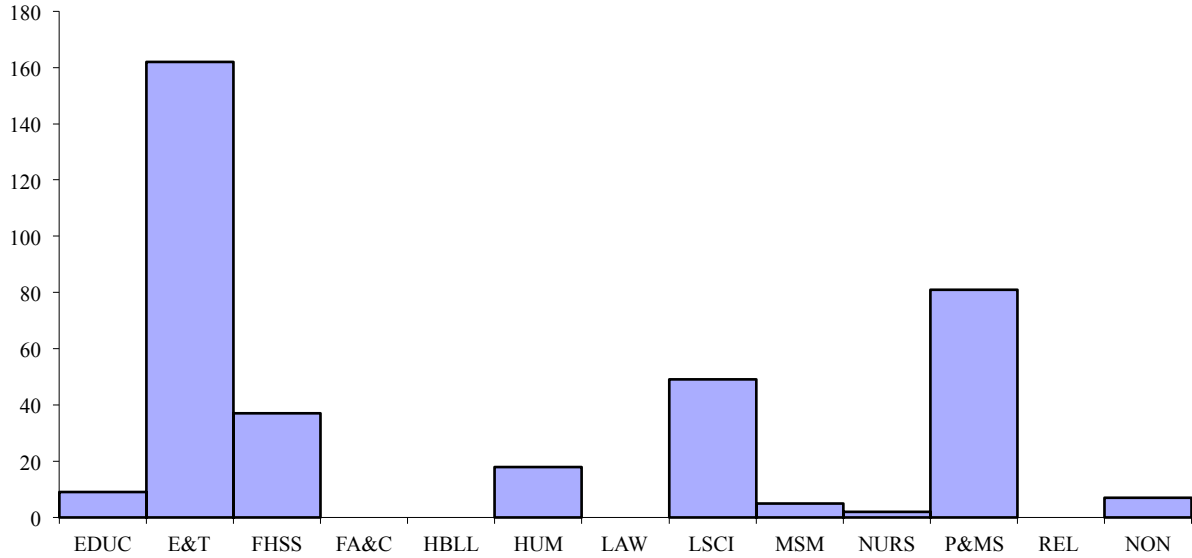
Information by College or School

Award Amount Totals 2014

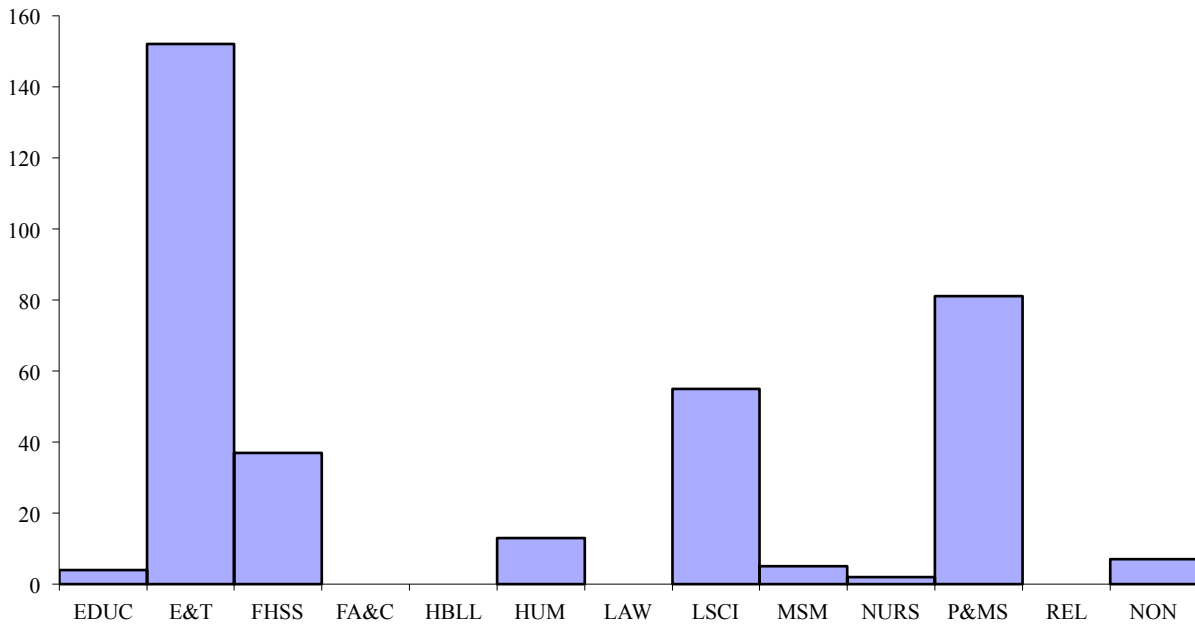
<i>College or School</i>	<i>Total</i>
Education	\$804,944
Engineering & Technology	\$10,352,371
Family, Home & Social Sciences	\$2,359,225
Fine Arts & Communications	\$0
Humanities	\$1,726,219
Life Sciences	\$7,567,498
Marriot School of Management	\$636,276
Nursing	\$25,500
Physical & Mathematical Sciences	\$6,496,568
Religious Education	\$0
Harold B. Lee Library	\$0
Non-College Units (with HBLL on Graph)	\$121,816
<i>University Total</i>	\$30,090,417



Number of Proposals 2014



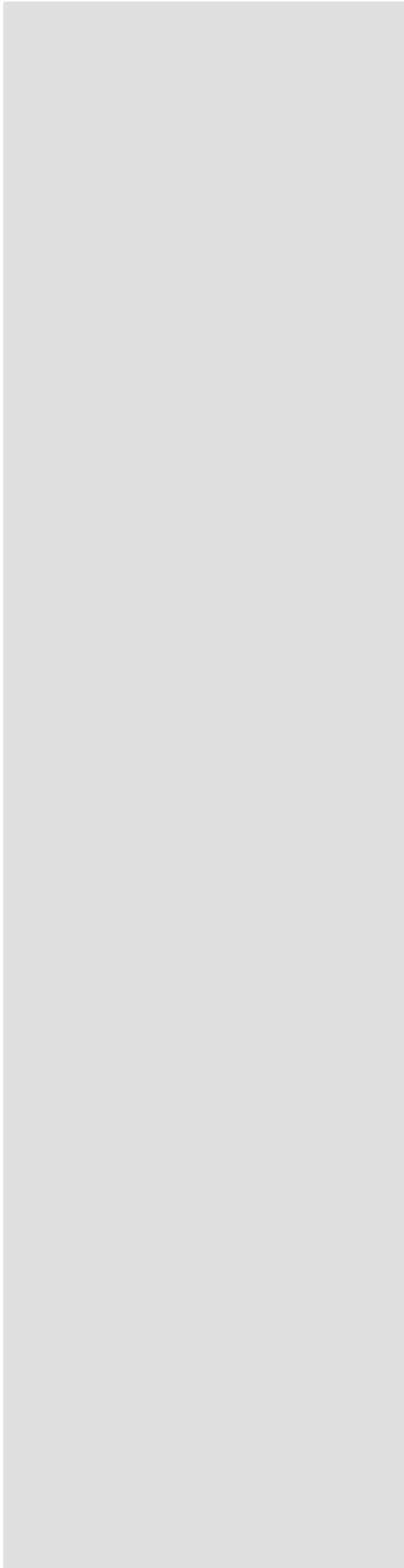
Number of Awards 2014



Research Contract/Grant Awards by College and Department 2014

<i>College and Department</i>	<i>Amount</i>
<u>Campus Life</u>	0
<u>Education</u>	
Center for Improvement of Teacher Education & Schooling	241,400
Communication Disorders	0
Counseling and Special Educ	164,799
Education Leadership & Foundations	0
Instructional Psychology	0
Teacher Education	398,745
TOTAL	\$804,944
<u>Engineering & Technology</u>	
Chemical Engineering	2,033,382
Civil and Environmental Eng	1,485,833
Electrical and Computer Eng	2,515,623
Mechanical Engineering	3,582,894
School of Technology	734,639
TOTAL	\$10,352,371
<u>Fine Art & Communications</u>	
FA&C	0
TOTAL	\$0
<u>Family Home & Social Sciences</u>	
Anthropology	5,000
Economics	192,370
Geography	70,289
History	0
Museum of Peoples & Cultures	11,205
Office of Public Archeology OPA	171,945
Political Science	635,991
Psychology	1,121,817
School of Family Life	33,904
Sociology	85,516
Social Work	31,188
TOTAL	2,359,225
<u>Humanities</u>	
Asian & Near East Languages	932,921
Linguistics	0
Center for Language Studies	426,465
English	28,000
Spanish & Portuguese	338,833

		TOTAL	\$1,726,219
<i>College and Department</i>		<i>Amount</i>	
<u>J. Reuben Clark Law School</u>			<u>\$0</u>
<u>Library</u>			<u>\$ 0</u>
<u>Life Sciences</u>	Bean Museum		24,000
	Biology		1,478,732
	Exercise Science		36,236
	Health Science		42,656
	Microbiology & Molecular Biology		1,101,522
	Nutrition, Dietetic, & Food Science		411,771
	Physiology & Developmental Biology		469,405
	Plant & Wildlife Sciences		4,021,176
	TOTAL		<u>\$7,567,498</u>
<u>Marriott School of Management</u>	Business Management		0
	Global Management Center		269,900
	Information Systems		196,228
	Organizational Leadership-Strategy		110,000
	Romney Institute of Public Management		60,148
	TOTAL		<u>\$636,276</u>
<u>Nursing</u>			<u>\$ 25,500</u>
<u>Office of Research & Creative Activities/ Other</u>			<u>\$121,816</u>
<u>Physical & Math Sciences</u>	Chemistry and Biochemistry		2,448,523
	Computer Science		950,651
	Earth Science Museum		0
	Geology		484,646
	Mathematics		277,749
	Physics & Astronomy		1,274,348
	Statistics		613,053
	TOTAL		<u>\$6,496,568</u>
Grand Total			<u>\$ 30,090,417</u>

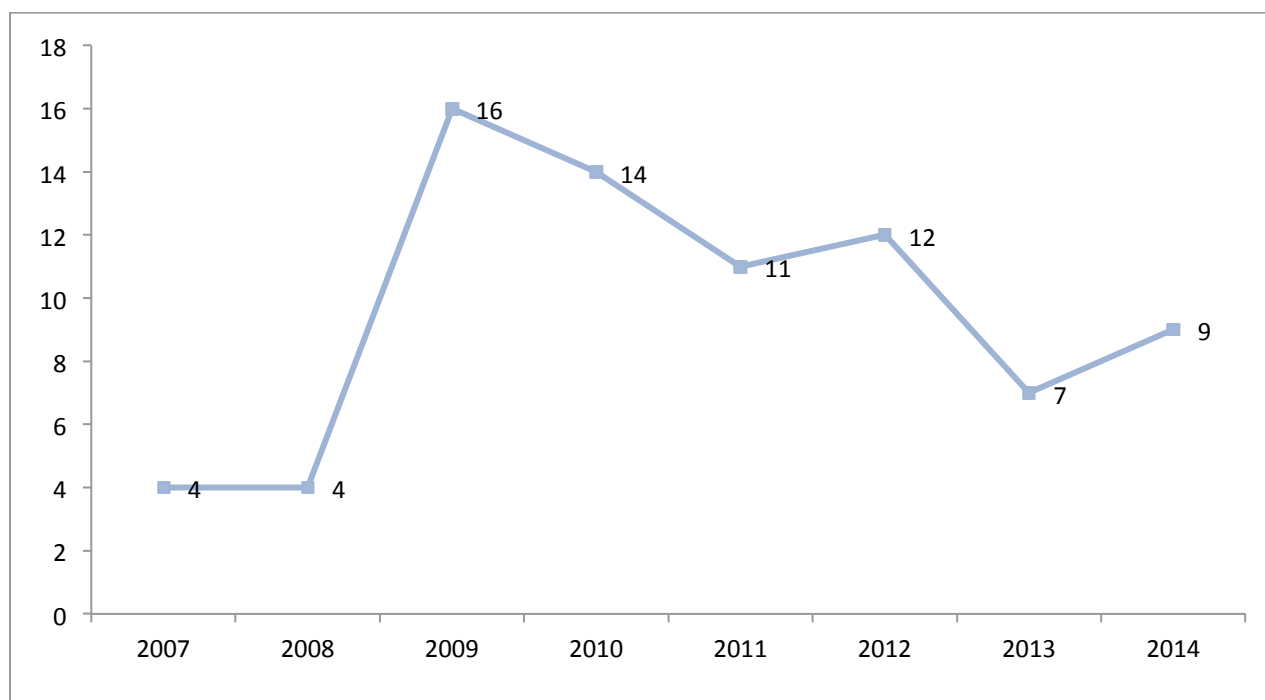


David O.
McKay
School
of Education

Summary of Sponsored Research (Grants & Contracts)

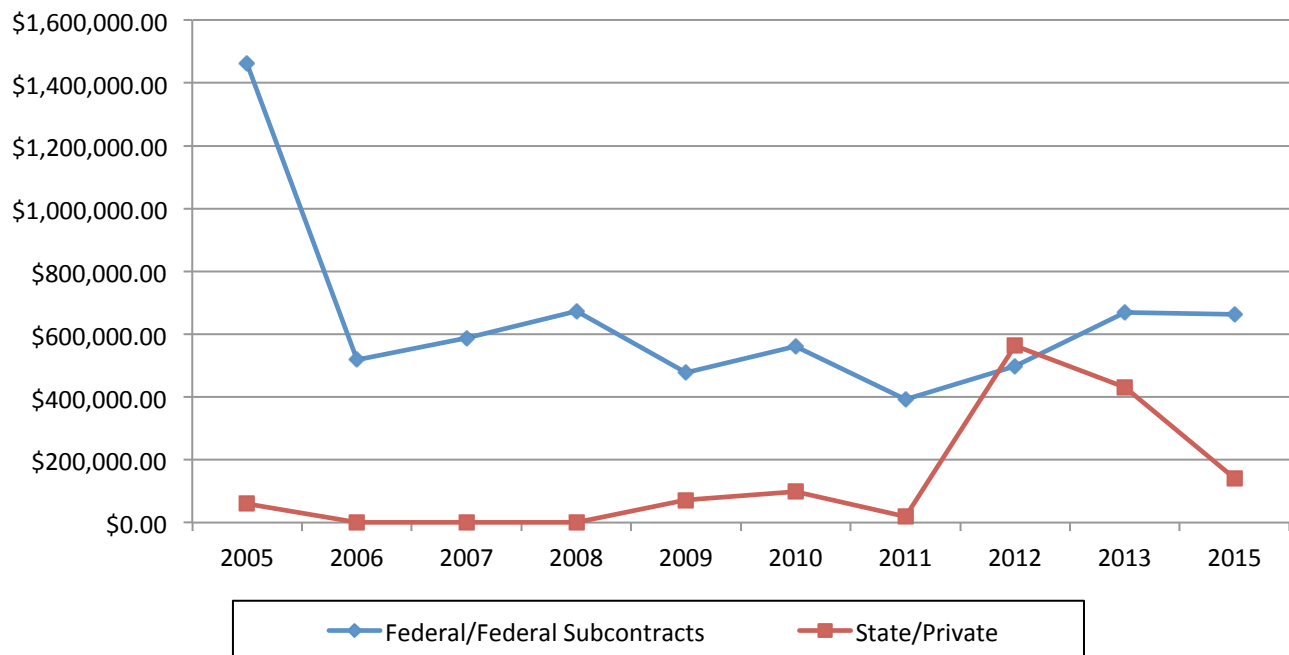
Department	# of Faculty Submitting	# of Proposals Submitted	# of Awards	Dollars Awarded
Center for Improvement of Teacher Education & Schooling	1	2	2	\$241,400
Communication Disorders	0	0	0	\$0
Counseling, Psychology, & Special Education	4	4	1	\$164,799
Education Leadership & Foundation	1	1	0	\$0
Instructional Psychology & Technology	1	1	0	\$0
Teacher Education	1	1	1	\$398,745
Totals:	8	9	4	\$804,944

Proposal Submission Activity



External Research Funding (All Sources)

Year	Grants/Contracts		Total
	Federal/Federal Subcontracts	State/Private	
2005	\$1,461,367	\$59,510	\$1,520,877
2006	\$519,011	\$0	\$519,011
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



David O. McKay School of Education 2014 Awards

PI	Co-PI	Sponsor	Title	Beg Date	End Date	Account	Amount	Type
Center for Improvement of Teacher Education & Schooling								
Caldarella, Paul		Univ of Kansas Center for Research Inc	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	6/30/2015	R0302473	\$100,400	2
Flox Cally		U of Utah (UT State Off of Education)	2014-15 BTSALP BYU Region Professional Development Plan	7/1/2014	9/30/2015	R0402256	\$141,000	3
Counseling, Psychology & Special Education								
Gibb, Gordon		USOE	2014 Summer Mentor Teachers - Literacy/Numbers	7/1/2014	6/30/2015	R0302561	\$64,400	2
Young, Richard	w/ Caldarella, Paul	Univ of Kansas Center for Research Inc	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	6/30/2015	R0302473	\$100,399	2
Teacher Education								
Pinnegar, Stefinee		USDEd	Education of English Learners through Professional Development for University Faculty and Public School Teachers	5/1/2012	4/30/2017	R0132022	\$398,745	1

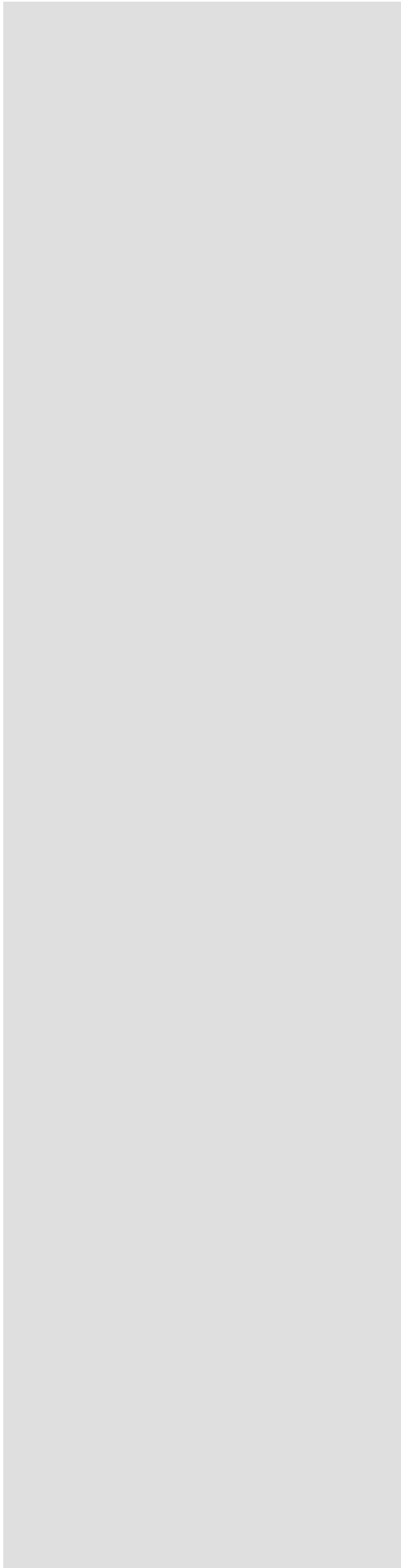
Type: 1=Federal; 2=Federal Subcontract; 3=State; 4=Private

Department Totals	
Communication Disorders	\$0
Center for Improvement of Teacher Education and Schooling (CITIES)	\$241,400
Continuing Education	\$0
Counseling Psychology & Special Education	\$164,799
Educational Leadership & Foundations	\$0
Instructional Psychology & Technology	\$0
Teacher Education	\$398,745
College Total:	\$804,944

Education

Source Breakdown of Grants and Contracts

Sponsor	Number Awarded	Total Amount
Federal		
US Dept of Education	1	\$398,745
<i>Total</i>	1	\$398,745
Subcontracts		
USOE	1	\$64,400
University of Kansas Research Center for Research Inc	2	\$200,799
<i>Total</i>	3	\$265,199
State		
U of U (UT State off of Education)	1	\$141,000
<i>Total</i>	1	\$141,000
Private		
<i>Total</i>		
Grand Total	5	\$804,944

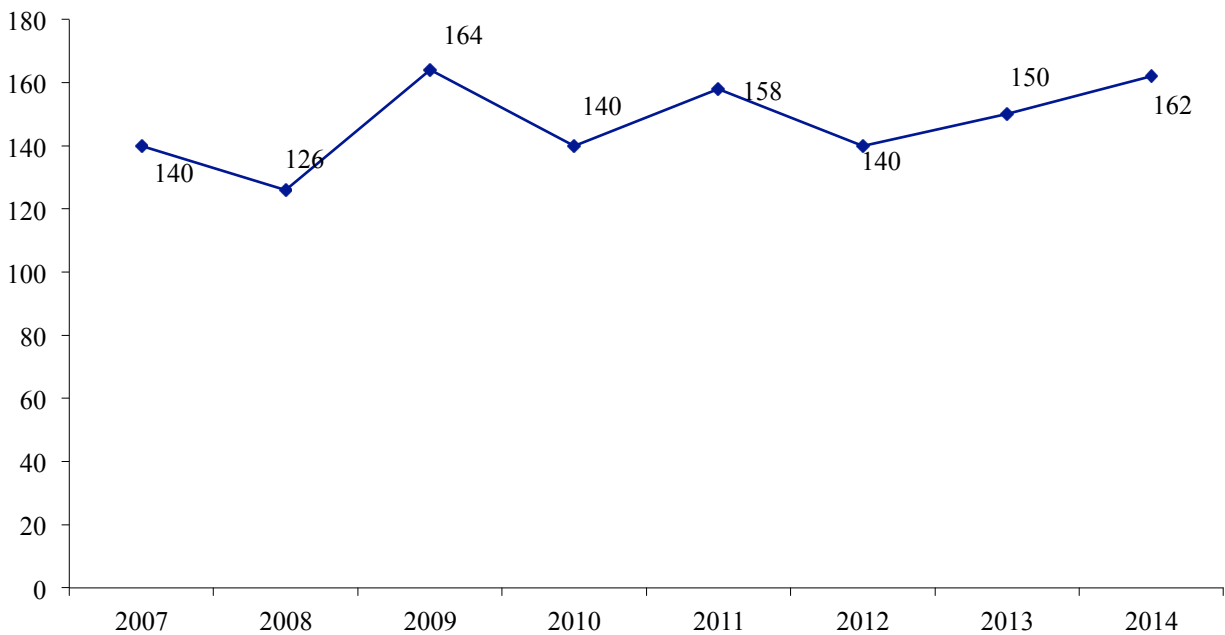


Fulton College of Engineering & Technology

Summary of Sponsored Research (Grants & Contracts)

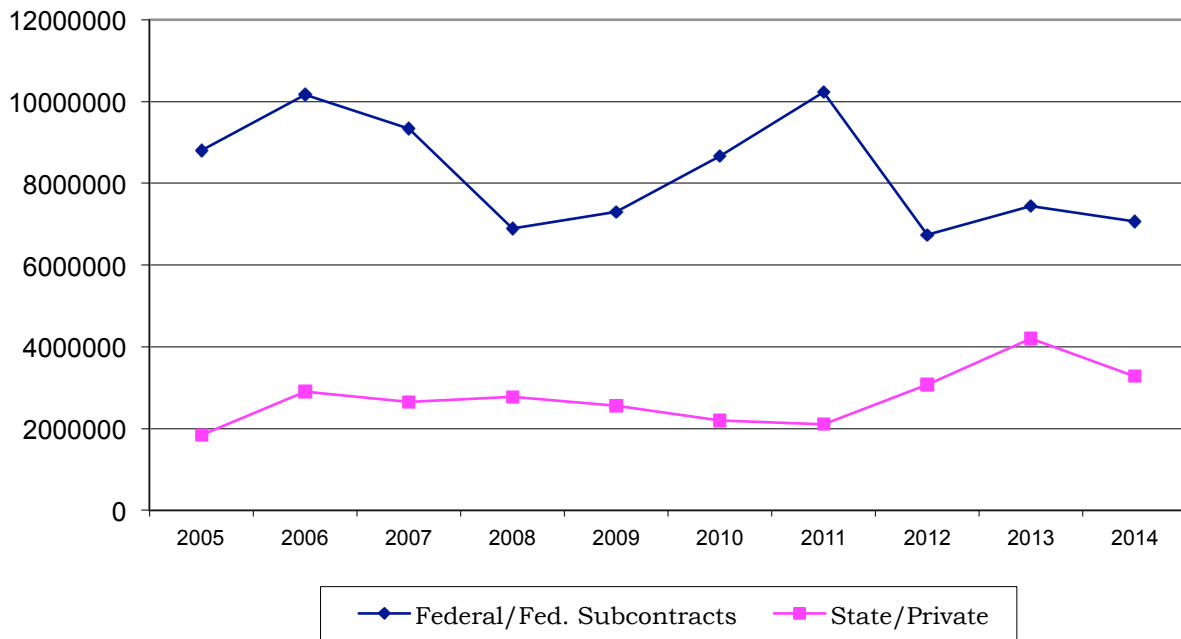
Department	# of Faculty Submitting	# of Proposals Submitted	# of Awards	Dollars Awarded
Civil & Environmental Engineering	14	32	24	\$1,485,833
Chemical Engineering	9	27	24	\$2,033,382
Electrical & Computer Engineering	14	38	35	\$2,515,623
Mechanical Engineering	29	58	60	\$3,582,894
School of Technology	12	7	9	\$734,639
Totals:	78	162	152	\$10,352,371

Proposal Submission Activity



External Research Funding (All Sources)

Year	Grants/Contracts		Total
	Federal/Federal Subcontracts	State/Private	
2005	\$8,809,076	\$1,842,299	\$10,651,375
2006	\$10,164,290	\$2,905,036	\$13,069,326
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



College of Engineering & Technology 2014 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>
Civil & Environmental Engineering								
Ames, Daniel		Bureau of Reclamation	Prototype Tool for Integrated Climate Downscaling and Streamflow Prediction using Open South GIS	7/18/2013	5/30/2015	Ro202396	\$44,375	1
Balling, Richard	w/ Scott, Michael	USAF, AFRL	Integrated Isogeometric Approach to Engineering Design and Optimization of Aircraft Structures	6/15/2014	6/14/2017	Ro202420	\$69,470	1
Franke, Kevin		USGS	Development and Testing of Simplified Performance-Based Procedures for a Priori Prediction of Lateral Spread Displacement and Seismic Slope Displacement	3/1/2014	2/28/2015	Ro202412	\$78,380	1
Franke, Kevin		USGS	Probabilistic Liquefaction Triggering and Lateral Spread Hazard Maps for Utah County, Utah	8/1/2014	7/31/2015	Ro202427	\$25,839	1
Guthrie, Spencer		US DOT	Fellowshipt for Bryan Priebe	9/1/2014	9/1/2015	Ro202438	\$5,000	1
Jensen, David	w/ Scott, Michael	USAF, AFRL	Integrated Isogeometric Approach to Engineering Design and Optimization of Aircraft Structures	6/15/2014	6/14/2017	Ro202420	\$69,470	1
Knotts, Thomas		NSF	Modeling and Prediction of Protein and Protein/Ligand Behavior on Surfaces	3/1/2011	2/29/2016	Ro112182	\$85,466	1
Rollins, Kyle		NSF	RAPID: Pile Downdrag Behavior Based on Blast Liquefaction Testing	1/15/2014	12/31/2014	Ro112243	\$199,942	1
Rollins, Kyle		Federal Highway Administration	Supplemental Field Testing for Pile Downdrag Due to Liquefaction	3/12/2014	11/28/2014	Ro202441	\$10,000	1
Scott, Michael		USAF, AFRL	Integrated Isogeometric Approach to Engineering Design and Optimization of Aircraft Structures	6/15/2014	6/14/2017	Ro202420	\$69,470	1
Williams, Gus		US Fish & Wildlife Services	GIS Database Preliminary Study	9/5/2014	7/1/2015	Ro202439	\$4,717	1
Ames, Daniel		UC Berkley (NSF)	The Method of Anchored Distributions (MAD): Principles and Implementation as a Community Resource	9/12/2012	11/30/2014	Ro302481	\$55,328	2
Ames, Daniel		CUAHSI (NSF)	Facilities Support - The CUAHSI Water Data Center	4/1/2013	3/31/2016	Ro302554	\$40,000	2
Williams, Gus		USU (DOE)	RF Sensing and Signal Processing for Monitoring Proliferation Activity	8/1/2014	6/30/2017	Ro302594	\$278,875	2
Franke, Kevin		UDOT	Simplified SPT Performance-Based Assessment of Liquefaction and Effects	3/6/2014	11/30/2016	Ro402235	\$88,000	3
Franke, Kevin		UDOT	Probabilistic Liquefaction and Lateral Spread Hazard Mapping for Utah County	8/19/2014	3/31/2016	Ro402251	\$25,000	3
Guthrie, Spencer		UDOT	Condition Assessment of Concrete Bridge Decks Treated with Asphalt	4/22/2014	12/31/2014	Ro402239	\$13,500	3

			Overlays						
Guthrie, Spencer		UDOT	Evaluation of Internal Curing of Concrete Bridge Decks	3/1/2012	12/31/2016	Ro402204	\$5,000	3	
Guthrie, Spencer		UDOT	Vertical Impedance Testing and Air-Coupled Impact-Echo Testing of Concrete Bridge Decks	6/26/2014	8/31/2015	Ro402243	\$19,993	3	
Rollins, Kyle		UDOT	Passive Force-Displacement Relationships for Skewed Abutments	8/13/2012	12/15/2015	Ro402213	\$15,000	3	
Schultz, Grant		UDOT	1-15 HOT Lanes Study	12/13/2013	9/30/2014	Ro402231	\$33,004	3	
Schultz, Grant		UDOT	I-15 HOT Lanes Study - Phase II	7/10/2014	1/31/2015	Ro402244	\$35,004	3	
Schultz, Grant		UDOT	Impact of Bicycle Corridors on Travel Demand in Utah	12/1/2014	6/30/2016	Ro402259	\$50,000	3	
Fonseca, Fernando		Endura Marketing & Sales	Development of Seismic Performance Factors for the Endura Wall System	6/16/2014	12/31/2015	Ro602449	\$90,000	4	
Rollins, Kyle		Pacific Earthquake Eng. Research (State of CA)	Supplemental Field Testing of Pile Down Drag Due to Liquefaction	12/16/2013	7/31/2014	Ro470000	\$25,000	4	
Rollins, Kyle		U of Arkansas (Arkansas State Highway & Transportation)	Evaluating the Capacity of Deep Soils Foundation	11/10/2014	6/30/2015	Ro470001	\$50,000	4	
Chemical Engineering									
Bundy, Bradley		DARPA	Optimized Cell-free Synthetic Systems to Expand the Language of Biology	8/1/2013	7/31/2015	Ro202397	\$249,303	1	
Bundy, Bradley		NSF	REU Supplement - CAREER: Controlled Enzyme Biocatalyst Immobilization	7/15/2013	6/30/2018	Ro112235	\$6,000	1	
Fletcher, Thomas		US Forest Service	Determination of Effects of Heating Mechanisms of Ignition of Live Fuels	8/31/2011	8/30/2015	Ro202347	\$4,700	1	
Fletcher, Thomas		US Forest Service	Deriving & Validating Shrub Fuel Load for 3-D Fire Behavior Modeling using Terrestrial Laser Scanning	9/8/2011	9/30/2015	Ro202346	\$5,000	1	
Hedengren, John	w/ McLain, Timothy	NSF	I/UCRC: Center for Unmanned Aircraft Systems	3/1/2012	2/18/2017	Ro112200	\$39,986	1	
Lignell, David		NSF	Simulation and Modeling of Soot Formation and Transport in Turbulent Flames	9/1/2014	8/31/2017	Ro112247	\$205,213	1	
Fletcher, Thomas		UofU (DOE PSAAP II)	High Performance Computing on Oxyfired Combuster	3/1/2014	2/28/2015	Ro302552	\$61,802	2	
Fletcher, Thomas		U of Utah (DOE)	Case from Unconventional Fuels	4/27/2011	9/30/2014	Ro302392	\$25,000	2	
Fletcher, Thomas		Uof U (DOE PSAAP)	High Performance Computing on Oxyfired Combuster	3/1/2014	2/28/2015	Ro302552	\$26,508	2	
Fletcher, Thomas		Conductive Composites (AFRL)	A Low-Cost CO Generator from CO ₂ and Carbon	12/16/2014	6/30/2015	Ro302600	\$17,400	2	
Fletcher, Thomas		U of U (DOE PSAAP II)	High Performance Computing on Oxyfired Combuster	3/1/2014	2/28/2015	Ro302552	\$35,544	2	
Hedengren, John	w/ McLain, Timothy	Utopia Compression (Air Force)	C-UAS I/UCRC Membership Dues	11/1/2014	10/31/2015	Ro302584		2	
Lignell, David		Uof U (DOE PSAAP)	High Performance Computing on Oxyfired	3/1/2014	2/28/2015	Ro302553	\$31,610	2	

			Combuster					
Lignell, David		Sandia National Labs	Fundamental Investigations of soot-mixture fraction-enthalpy evolution in piloted ethylene jet flames using ODT	4/21/2011	8/31/2014	Ro302387	\$28,082	2
Lignell, David		UofU (DOE PSAAP II)	High Performance Computing on Oxyfired Combuster	3/1/2014	2/28/2015	Ro302553	\$34,998	2
Lignell, David		U of U (DOE PSAAP II)	High Performance Computing on Oxyfired Combuster	3/1/2014	2/28/2015	Ro302553	\$3,263	2
Wheeler, Dean		U of California (LBNL)	Predicting Electrode Microstructure and Performance for Optimal Cell Fabrication	4/10/2013	4/1/2017	Ro302504	\$89,000	2
Hedengren, John		U of Utah (Utah Office of Energy Development)	Characterization of Waxy Crude Deposition in Pipelines	3/1/2014	2/28/2015	Ro402241	\$19,500	3
Baxter, Larry		Sustainable Energy Solutions, LLC	Cryogenic CO2 Capture Research	4/5/2009	12/31/2014	Ro602280	\$55,000	4
Baxter, Larry		Sustainable Energy Solutions	Cryogenic CO2 Capture Research	4/5/2009	12/31/2014	Ro602280	\$55,000	4
Harb, John		CD-adapco	Fundamental Modeling of Corrosion and Other Electrochemical Phenomena in STAR-CCM+	9/1/2013	8/31/2016	Ro602420	\$192,000	4
Hecker, William		Cosmas, Inc	Effect of Promoters on the Performance of Cobalt Catalysts Supported on Thermally Treated Silica-Doped Alumina (SDA)	3/1/2014	6/30/2014	Ro602441	\$22,473	4
Hecker, William		SGC Energia	Fischer Tropsch Consortium Membership Dues	4/22/2013	12/31/2014	Ro602216	\$20,000	4
Hecker, William		Ceramatec	Fischer Tropsch Consortium Membership Dues	11/1/2010	2/15/2015	Ro602216	\$18,000	4
Hedengren, John		National Oilwell Varco	Multivariate Control for Managed Pressure Drilling Systems Using High Speed Telemetry	5/1/2014	4/30/2016	Ro602443	\$150,000	4
Knotts, Thomas	w/ Wilding, Vince	AIChE/DIPPR	Evaluated Process Design Data	1/1/1998	12/31/2015	Ro601001	\$275,000	4
Pitt, William		Alcon Research	Thermal Loading of Phospholipids	3/1/2014	12/31/2014	Ro602439	\$45,000	4
Wilding, Vince		AIChE/DIPPR	Evaluated Process Design Data	1/1/1998	12/31/2015	Ro601001	\$275,000	4
William, Hecker		Cosmas, Inc.	Evaluation of Cobalt Catalysts on Thermally-treated SDA	3/1/2014	6/15/2015	Ro602441	\$43,000	4
Electrical & Computer Engineering								
Bangerter, Neal		US Dept of Veteran's Affairs	A Pilot Trial to Assess Low-Intensity Ultrasound in Osteoarthritis	9/1/2014	8/31/2014	Ro202431	\$30,000	1
Beard, Randal	w/ McLain, Timothy	NSF	I/UCRC: Center for Unmanned Aircraft Systems	3/1/2012	2/18/2017	Ro112200	\$39,985	1
Beard, Randal		ONR	Senior Design Project	10/1/2014	9/15/2015	Ro202422	\$25,000	1
Beard, Randal	w/ McLain, Timothy	NSF	I/UCRC: Center for Unmanned Aircraft Systems	3/1/2012	2/28/2017	Ro112200	\$16,000	1
Beard, Randal	w/ McLain, Timothy	NSF	I/UCRC Center for Unmanned Aircraft Systems REU Supplement	3/1/2012	2/28/2017	Ro112200	\$8,000	1
Beard,		AFRL	A Novel Algorithm for	9/30/2013	9/30/2015	Ro202401	\$115,000	1

Randal			Tracking Multiple Targets with Significant Background Clutter						
Hawkins, Aaron		NSF	Ultrasensitive Cancer Biomaker Detection on Biophotonic Chips - REU Supplement	7/1/2012	6/30/2015	Ro112213	\$6,000	1	
Hawkins, Aaron		NSF	REU Supplement - Ultrasensitive Cancer Biomarker Detection on Biophotonic Chips	7/1/2012	6/30/2015	Ro112213	\$6,000	1	
Hawkins, Aaron		NSF	Collaborative Research: Nanopore-gated on-chip trapping for single bioparticle sensing	6/1/2014	5/31/2017	Ro112250	\$199,854	1	
Hawkins, Aaron	w/ Austin, Daniel	NSF	Miniaturized Mass Spectrometry Using Lithographically Patterned Electrodes	7/15/2014	6/30/2017	Ro112255	\$210,000	1	
Hawkins, Aaron		NSF	REU Supplement - Slow and Stopped Light Photonics with Atomic Spectroscopy Chips	6/4/2014	4/30/2015	Ro112259	\$6,000	1	
Hawkins, Aaron	w/ Mazzeo, Brian	US Army	Dugway Proving Grounds Student Intern Support	9/26/2012	9/23/2015	Ro202375	\$10,000	1	
Hutchings, Brad	w/ Hutchings, Brad	NSF	CHREC Phase II-BYU Site Annual Support	4/1/2013	3/31/2018	Ro112225	\$13,333	1	
Hutchings, Brad	w/ Hutchings, Brad	AFRL (NSF)	Kirtland AFB CHREC I/UCRC Membership Dues	4/1/2013	3/31/2018	Ro112266	\$13,333	1	
Jensen, Michael		US Army Research Office	Propagation Analysis and Performance Assessment for Multi-Antenna Communications in Combat Environments	9/4/2012	3/3/2015	Ro202394	\$106,000	1	
Long, David		NASA	An Improved, Enhanced-resolution, Gridded Passive Microwave ESDR for Monitoring Cryospheric and Hydrologic Time Series	3/15/2013	3/14/2017	Ro162017	\$101,056	1	
Long, David		NASA	Extending the Scatterometer Wind and Backscatter Climate Record	8/1/2014	7/31/2018	Ro162020	\$54,991	1	
Long, David		NASA	Extending the Scatterometer Wind and Backscatter Climate Record	8/1/2014	7/31/2018	Ro162020	\$102,126	1	
Mazzeo, Brian		US Army	Dugway Proving Grounds Student Intern Support	9/26/2012	9/23/2015	Ro202375	\$10,000	1	
Nelson, Brent	w/ Wirthlin, Michael	NSF	CHREC Phase II-BYU Site Annual Support	4/1/2013	3/31/2018	Ro112225	\$13,333	1	
Nelson, Brent	w/ Wirthlin, Michael	AFRL (NSF)	Kirtland AFB CHREC I/UCRC Membership Dues	4/1/2013	3/31/2018	Ro112266	\$13,333	1	
Rice, Michael		US Army PEO STRI	Preamble Assisted Equalization for Aeronautical Telemetry	3/6/2014	12/5/2014	Ro202386	\$388,790	1	
Rice, Michael		PEO-STRI - Army	Preamble Assisted Equalization for Aeronautical Telemetry	3/6/3013	12/5/2014	Ro202386	\$247	1	
Schultz, Stephen		US Army PEO STRI	Optical Fiber Sensors for Non-intrusive Voltage Measurements in HPM Targets	2/3/2013	2/3/2015	Ro202384	\$116,500	1	
Selfridge, Richard	w/ Schultz, Stephen	US Army PEO STRI	Optical Fiber Sensors for Non-intrusive Voltage Measurements in HPM	2/3/2013	2/3/2015	Ro202384	\$116,500	1	

			Targets					
Warnick, Karl	w/ McLain, Timothy	NSF	I/UCRC Center for Unmanned Aircraft Systems (C-UAS) REU Supplement	3/1/2012	2/28/2017	RO112200	\$8,000	1
Warnick, Karl	w/ McLain, Timothy	NSF	I/UCRC: Center for Unmanned Aircraft Systems	3/1/2012	2/28/2017	RO112200	\$16,000	1
Warnick, Karl	w/ McLain, Timothy	NSF	I/UCRC: Center for Unmanned Aircraft Systems	3/1/2012	2/18/2017	RO112200	\$39,986	1
Warnick, Karl	w/ Beard, Randy	ONR	Senior Design Project	10/1/2014	9/15/2015	RO202422	\$25,000	1
Wirthlin, Michael		NSF	I/UCRC CHREC Phase II - BYU Site REU Supplement	4/1/2013	3/31/2018	RO112225	\$16,000	1
Wirthlin, Michael		NSF	CHREC Phase II-BYU Site Annual Support	4/1/2013	3/31/2018	RO112225	\$13,334	1
Wirthlin, Michael		AFRL (NSF)	Kirtland AFB CHREC I/UCRC Membership Dues	4/1/2013	3/31/2018	RO112266	\$13,334	1
Beard, Randal		MLB Company (Air Force SBIR)	Long Endurance VTOL Tailsiter UAV	2/1/2013	1/31/2015	RO302502	\$43,608	2
Beard, Randal	w/ Seppi, Kevin	UtopiaCompression	Enhancing Cooperative Control with Hierarchical Intelligence and Learning - Phase II	11/1/2014	10/31/2015	RO502583		2
Beard, Randal	w/ McLain, Timothy	UtopiaCompression (Air Force)	C-UAS I/UCRC Membership Dues	11/1/2014	10/31/2015	RO302584		2
Beard, Randal		UtopiaCompression (Air Force SBIR)	Intelligent Cooperative Control for Urban Target Tracking with UAV's (C-UAS I/UCRC Add-on project)	11/1/2014	10/31/2015	RO302586	\$22,430	2
Beard, Randal	w/ McLain, Timothy	Wright Brothers Institute (AFRL)	Back-end Optimization in a Relative Navigation Architecture (AFRL C-UAS I/UCRC Membership Dues)	12/3/2014	12/5/2015	RO302598	\$6,250	2
Hawkins, Aaron		UC Santa Cruz (NIH)	Hybrid Integrated Molecular Analysis (HIMAS) for Point-of-Care Diagnostics	6/1/2012	5/31/2015	RO302466	\$101,000	2
Lee, D.J.		Smart Vision Works (USDA)	Improve Competitiveness of Specialty Crop Production through a New Product Quality Verification Method	6/1/2014	1/31/2015	RO302557	\$33,000	2
Long, David		U of Utah (NASA)	Rocky Mountain Space Grant Consortium Student Fellowship	5/6/2010	5/5/2014	RO302349	\$6,000	2
Long, David		University of Utah (NASA)	Rocky Mountain Space Grant Consortium Student Fellowship	5/6/2011	5/5/2015	RO302349	\$70,100	2
Mazzeo, Brian	w/Wheeler, Dean	U of California (LBNL)	Predicting Electrode Microstructure and Performance for Optimal Cell Fabrication	4/10/2013	4/1/2017	RO302504	\$89,000	2
Nelson, Brent	w/ Wirthlin, Michael	LANL	I/UCRC CHREC Membership Dues	12/1/2007	12/1/2014	RO302240	\$20,000	2
Rice, Michael		Open Door Technologies	MART Project (Modulation Agile Radio for Aeronautical Telemetry)	7/8/2013	7/7/2015	RO302525	\$98,708	2
Smalley, Daniel		TIPD LLC (AFRL)	TIPD Full-Parallax Phase II	8/1/2014	9/30/2016	RO302573	\$52,500	2
Warnick, Karl	w/ McLain, Timothy	UtopiaCompression (Air Force)	C-UAS I/UCRC Membership Dues	11/1/2014	10/31/2015	RO302584		2
Wirthlin, Michael		Sandia National Labs	CHREC I/UCRC Membership Dues	8/1/2007	3/31/2018	RO302219	\$40,000	2

Wirthlin, Michael		LANL	I/UCRC CHREC Membership Dues	12/1/2007	12/1/2014	Ro302240	\$20,000	2
Mazzeo, Brian	w/ Guthrie, Spencer	UDOT	Vertical Impedance Testing and Air-Coupled Impact-Echo Testing of Concrete Bridge Decks	6/26/2014	8/31/2015	Ro402243	\$19,992	3
Hutchings, Brad	w/ Wirthlin, Michael	National Instruments	I/UCRC CHREC Membership Dues	11/27/2007	3/31/2018	Ro602229	\$13,333	4
Nelson, Brent	w/ Wirthlin, Michael	National Instruments	I/UCRC CHREC Membership Dues	11/27/2007	3/31/2018	Ro602229	\$13,333	4
Wirthlin, Michael		National Instruments	I/UCRC CHREC Membership Dues	11/27/2007	3/31/2018	Ro602229	\$13,334	4
Mechanical Engineering								
Bowden, Anton	w/ Fullwood, David	NSF	Piezoresistive Nano-composite Sensors for Wide-range Strain: Applications in Biological Soft Tissue - REU Supplement	9/1/2012	8/31//2015	Ro112219	\$5,000	1
Colton, Mark		US Army	Towards Heads-Up Management of Micro-Robot Teams	9/8/2014	9/7/2015	Ro202430	\$49,917	1
Crockett, Julie	w/ Maynes, Daniel	NSF	REU Supplement, Turbulent Flow Drag Reduction Using Surfaces Exhibiting Superhydrophobicity and Riblets	6/1/2011	5/31/2014	Ro112189	\$3,333	1
Fullwood, David		NSF	Piezoresistive Nano-composite Sensors for Wide-range Strain: Applications in Biological Soft Tissue - REU Supplement	9/1/2012	8/31//2015	Ro112219	\$5,000	1
Fullwood, David		NSF	Microstructural Foundations of Magnesium Performance: A Data Mining Approach to High-Throughput HREBSD	9/1/2014	8/31/2017	Ro112260	\$173,431	1
Fullwood, David		DOE	Grain Boundary - Dislocation Interactions in Polycrystals	8/15/2014	8/14/2015	Ro202437	\$63,327	1
Goodrich, Michael	w/ Colton, Mark	US Army	Towards Heads-Up Management of Micro-Robot Teams	9/8/2014	9/7/2015	Ro202430	\$49,916	1
Gorrell, Steve		AEDC/PZO	Validation and Application of Firebolt 2.0 for Inlet-Fan Interaction	3/20/2014	2/20/2015	Ro202414	\$100,000	1
Hedengren, John	w/ McLain, Timothy	NSF	I/UCRC: Center for Unmanned Aircraft Systems	3/1/2012	2/28/2017	Ro112200	\$16,000	1
Homer, Eric		NSF	Collaborative Research: Elucidating the Mechanics of Shear Delocalization in Metallic Glass Matrix Composites	6/1/2014	5/31/2017	Ro112249	\$182,606	1
Homer, Eric	w/ Fullwood, David	DOE	Grain Boundary - Dislocation Interactions in Polycrystals	8/15/2014	8/14/2015	Ro202437	\$63,327	1
Howell, Larry		NASA	NSTRF Fellowship - Ezekiel Merriam	9/1/2013	8/31/2017	Ro162018	\$68,000	1
Howell, Larry		NASA	NSTRF Fellowship - Shannon Zirbel	8/1/2012	7/31/2016	Ro162015	\$27,525	1
Jensen, Greg		NSF	I/UCRC BYU v-Cax Research Site, Center for e-Design	2/15/2011	1/31/2017	Ro112181	\$27,500	1
Jensen, Greg		Army ManTech (via NSF)	Interperable Multi-User Cax System - Center for e-Design support	7/9/2014	1/31/2017	Ro112257	\$51,794	1

Killpack, Marc		NASA	Model Predictive Control of an Underdamped, Pneumatically Actuated, Soft Robot with Flexible Links for Unmodeled Environments	9/5/2014	9/4/2017	Ro162021	\$394,773	1
Maynes, Daniel		NSF	REU Supplement, Turbulent Flow Drag Reduction Using Surfaces Exhibiting Superhydrophobicity and Riblets	6/1/2011	5/31/2014	Ro112189	\$3,333	1
McLain, Timothy		NSF	I/UCRC Center for Unmanned Aircraft Systems (C-UAS) REU Supplement	3/1/2012	2/28/2017	Ro112200	\$8,000	1
McLain, Timothy		NSF	I/UCRC: Center for Unmanned Aircraft Systems	3/1/2012	2/28/2017	Ro112200	\$16,000	1
McLain, Timothy		NSF	I/UCRC Center for Unmanned Aircraft Systems REU Supplement	3/1/2012	2/28/2017	Ro112200	\$8,000	1
McLain, Timothy		NASA (NSF)	NASA Armstrong Flight Research Center C-UAS Membership Dues	9/1/2012	2/28/2017	Ro112221	\$39,845	1
McLain, Timothy		NSF	I/UCRC: Center for Unmanned Aircraft Systems	3/1/2012	2/18/2017	Ro112200	\$39,986	1
Nelson, Tracy	w/ Miles, Mike	NSF	GOAL: Crack Repair of Irradiated Stainless Steel by Friction Stir Processing	7/1/2014	6/30/2017	Ro112245	\$149,999	1
Red, Ed	w/ Jensen, Greg	NSF	I/UCRC BYU v-Cax Research Site, Center for e-Design	2/15/2011	1/31/2017	Ro112181	\$27,499	1
Red, Ed	w/ Jensen, Greg	Army ManTech (via NSF)	Interperable Multi-User Cax System - Center for e-Design support	7/9/2014	1/31/2017	Ro112257	\$51,793	1
Sorensen, Carl		Naval Research Lab	Mechanic Robotic Neck Project - Capstone	6/3/2014	7/3/2014	Ro202418	\$12,500	1
Trent, Jim	w/ Sorensen, Carl	Naval Research Lab	Mechanic Robotic Neck Project - Capstone	6/3/2014	7/3/2014	Ro202418	\$12,500	1
Truscott, Tadd		ONR	Water Surface Skipping of Elastic Bodies	4/15/2013	12/31/2014	Ro202390	\$75,000	1
Warnick, Gregg		NSF	Foundations of Social and Ethical Responsibility Among Undergraduate Engineering Students	5/15/2015	4/30/2020	Ro112271	\$60,148	1
Webb, Brent	w/ Maynes, Daniel	NSF	REU Supplement, Turbulent Flow Drag Reduction Using Surfaces Exhibiting Superhydrophobicity and Riblets	6/1/2011	5/31/2014	Ro112189	\$3,334	1
Crockett, Julie		UofU (NASA)	Droplet Mobility in Superhydrophobic Channels	5/6/2014	5/5/2015	Ro302558	\$7,167	2
Gorrell, Steve		Intelligent Light (Air Force)	Phase II SBIR: Extract Plug-in Scalable Overarching Data Environment	12/20/2013	11/25/2015	Ro302527	\$64,342	2
Gorrell, Steve		High Performance Technologies, Inc (DOD)	Impact of Harmonic Distortion Pattern Content upon Isolated Fan	3/5/2014	8/31/2014	Ro302550	\$40,418	2
Gorrell, Steve	w/ Maynes, Daniel	Concepts NREC (Air Force SBIR)	Optimizing the Design of a Stability Control Device in Turbopump Inducers	5/14/2014	12/31/2014	Ro302560	\$26,137	2
Gorrell, Steve		High Performance Technologies, Inc.	Impact of Harmonic Distortion Pattern Content Upon Isolated Fan	9/1/2014	8/31/2015	Ro302577	\$10,696	2
Iverson,		UofU (NASA)	Droplet Mobility in	5/6/2014	5/5/2015	Ro302558	\$7,166	2

Brian			Superhydrophobic Channels					
Iverson, Brian		University of Utah (NASA EPSCoR)	Dynamic Control of Surface Radioactive Properties through Actuation of Origami-Inspired Surface Topographies	10/18/2014	10/17/2015	Ro302591	\$12,426	2
Jones, Matthew	w/ Gorrell, Steve	Intelligent Light (Air Force)	Phase II SBIR: Extract Plug-in Scalable Overarching Data Environment	12/20/2013	11/25/2015	Ro302527	\$64,342	2
Jones, Matthew	w/ Iverson, Brian	University of Utah (NASA EPSCoR)	Dynamic Control of Surface Radioactive Properties through Actuation of Origami-Inspired Surface Topographies	10/18/2014	10/17/2015	Ro302591	\$12,425	2
Maynes, Daniel		UofU (NASA)	Droplet Mobility in Superhydrophobic Channels	5/6/2014	5/5/2015	Ro302558	\$7,167	2
Maynes, Daniel		Concepts NREC (Air Force SBIR)	Optimizing the Design of a Stability Control Device in Turbopump Inducers	5/14/2014	12/31/2014	Ro302560	\$26,137	2
McLain, Timothy	w/ Beard, Randal	MLB Company (Air Force SBIR)	Long Endurance VTOL Tailster UAV	2/1/2013	1/31/2015	Ro302502	\$43,607	2
McLain, Timothy		Wright Brothers Institute (AFRL)	Back-end Optimization in a Relative Navigation Architecture (AFRL C-UAS I/UCRC Membership Dues)	12/3/2014	12/5/2015	Ro302598	\$6,250	2
McLain, Timothy		U of Colorado (AFRL)	C-UAS Summer Intern funded by AFRL Aerospace Systems Directorate	4/1/2013	8/30/2013	Ro302555	\$5,816	2
McLain, Timothy		UtopiaCompression (Air Force)	C-UAS I/UCRC Membership Dues	11/1/2014	10/31/2015	Ro302584	\$40,000	2
McLain, Timothy	w/ Beard, Randal	UtopiaCompression (Air Force SBIR)	Intelligent Cooperative Control for Urban Target Tracking with UAV's (C-UAS I/UCRC Add-on project)	11/1/2014	10/31/2015	Ro302586		2
Ning, Andrew		NREL (DOE)	Systems and Engineering of Wind Turbines and Plants	9/24/2014	9/23/2015	Ro302576	\$63,472	2
Sorensen, Carl		Technology Service Corp (AFRL)	University Engineering Design Challenge - Capstone	8/15/2014	8/14/2015	Ro302568	\$20,000	2
Sorensen, Carl		LANL (DOE)	Los Alamos National Lab Capstone Project	9/9/2014	4/30/2015	Ro302571	\$23,500	2
Sorensen, Carl		UTC (AFRL)	Capstone Project: Double the Flying Time of a Tube Launched Unmanned Aerial Vehicle	11/16/2014	4/30/2015	Ro302593	\$24,000	2
Gorrell, Steve		High Performance Technologies, Inc.	Impact of Harmonic Distortion Pattern Content upon Isolated Fan	3/4/2014	8/31/2015	Ro302577	\$18,365	3
Argyle, Morris		ExxonMobil	BTLX DILCHILL Flow Nozzle Pressure Drop Correlation	4/23/2014	12/31/2014	Ro602447	\$10,000	4
Ed, Red	w/ Jensen, Greg	CD-Adapco	I/UCRC Center for e-Design Membership Dues	1/1/2011	12/31/2016	Ro602349	\$3,750	4
Ed, Red	w/ Jensen, Greg	PCC Airfoils	I/UCRC Center for e-Design Membership Dues	1/1/2011	12/31/2016	Ro602349	\$7,500	4
French, David	w/ Red, Ed	Pratt & Whitney	Advancing Multi-User Collaboration Tools	1/6/2014	12/31/2014	Ro602436	\$37,500	4
Fullwood, David	w/ Nelson, Tracy	ArcelorMittal Global R&D	Microstructural Effects on Hydrogen Trapping on Hydrogen Assisted Cracking in AHSS	8/1/2014	8/1/2016	Ro602452	\$54,500	4

Hepworth, Ammon	w/ Red, Ed	Pratt & Whitney	Model Based Design	1/13/2014	12/31/2014	Ro602435	\$50,000	4
Hepworth, Ammon	w/ Red, Ed	Pratt & Whitney	Piloting Advanced Collaboration Tools	1/6/2014	12/31/2014	Ro602436	\$27,500	4
Hepworth, Ammon	w/ Jensen, Greg	Boeing	Simultaneous Multi-user Drafting	2/13/2014	9/24/2014	Ro602438	\$51,333	4
Howell, Larry	w/ Magleby, Spencer	Intuitive Surgical, Inc.	Flexure-Based Small Instrument Mechanism Research	6/10/2013	12/18/2015	Ro602417		4
Jensen, Brian		Intuitive Surgical, Inc.	Flexure-Based Small Instrument Mechanism Research	6/10/2013	12/18/2015	Ro602417	\$60,000	4
Jensen, Brian		Flexous BV	Fabrication of Carbon Nanotube Composite Mechanisms for Material Property Testing	10/15/2014	4/15/2015	Ro602458	\$17,700	4
Jensen, Greg		Boeing	Simultaneous Multi-user Drafting	2/13/2014	9/24/2014	Ro602438	\$51,334	4
Jensen, Greg		CD-Adapco	Center for E-Design I/UCUC Membership Dues	1/1/2011	12/31/2016	Ro602349	\$3,750	4
Jensen, Greg		Belcan Corporation	Center for e-Design, I/UCRC Membership Dues	3/14/2011	3/13/2015	Ro602349	\$15,000	4
Jensen, Greg		CD-Adapco	I/UCRC Center for e-Design Membership Dues	1/1/2011	12/31/2016	Ro602349	\$3,750	4
Jensen, Greg		Boeing	I/UCRC Center for e-Design Membership Dues	2/1/2011	1/31/2015	Ro602349	\$15,000	4
Jensen, Greg		Pratt & Whitney	I/UCRC Center for e-Design Membership Dues	11/30/2010	11/30/2015	Ro602349	\$15,000	4
Jensen, Greg		CD-Adapco	I/UCRC Center for e-Design Membership Dues	1/1/2011	12/31/2016	Ro602349	\$3,750	4
Jensen, Greg		PCC Airfoils	I/UCRC Center for e-Design Membership Dues	1/1/2011	12/31/2016	Ro602349	\$7,500	4
Jensen, Greg		UTC Aerospace	I/UCRC Center for e-Design Membership Dues	1/1/2011	12/31/2016	Ro602349	\$15,000	4
Magleby, Spencer	w/ Jensen, Brian	Intuitive Surgical, Inc.	Flexure-Based Small Instrument Mechanism Research	6/10/2013	12/18/2015	Ro602417		4
Maynes, Daniel		Union Pacific	Aerodynamic Studies of Intermodal Rail Cars	5/20/2011	12/31/2015	Ro602364	\$55,625	4
Nelson, Tracy		JFE Steel	Friction Stir Processing I/UCRC Membership Dues	1/1/2011	8/31/2014	Ro602342	\$4,375	4
Nelson, Tracy		Manufacturing Technology	Friction Stir Processing I/UCRC Membership Dues	4/1/2010	8/31/2014	Ro602312	\$4,375	4
Nelson, Tracy		ArcelorMittal Global R&D	Microstructural Effects on Hydrogen Trapping on Hydrogen Assisted Cracking in AHSS	8/1/2014	8/1/2016	Ro602452	\$54,500	4
Nelson, Tracy		JFE Steel	Friction Stir Processing I/UCRC Membership Dues	1/1/2011	12/31/2014	Ro602342	\$4,375	4
Red, Ed		Pratt & Whitney	Model Based Design	1/13/2014	12/31/2014	Ro602435	\$50,000	4
Red, Ed		Pratt & Whitney	Piloting Advanced Collaboration Tools	1/6/2014	12/31/2014	Ro602436	\$27,500	4
Red, Ed	w/ Jensen, Greg	Boeing	Simultaneous Multi-user Drafting	2/13/2014	9/24/2014	Ro602438	\$51,333	4
Red, Ed	w/ Jensen, Greg	CD-Adapco	Center for E-Design I/UCUC Membership Dues	1/1/2011	12/31/2016	Ro602349	\$3,750	4
Red, Ed	w/ Jensen, Greg	CD-Adapco	I/UCRC Center for e-Design Membership Dues	1/1/2011	12/31/2016	Ro602349	\$3,750	4
Red, Ed	w/ Jensen, Greg	Boeing	I/UCRC Center for e-Design Membership Dues	2/1/2011	1/31/2015	Ro602349	\$15,000	4
Red, Ed	w/ Jensen, Greg	Pratt & Whitney	I/UCRC Center for e-Design Membership Dues	11/30/2010	11/30/2015	Ro602349	\$15,000	4
Red, Ed		Pratt & Whitney	Advancing Multi-User Collaboration Tools	1/6/2014	12/31/2014	Ro602436	\$37,500	4

Red, Ed	w/ Jensen, Greg	Belcan Corporation	Center for e-Design, I/UCRC Membership Dues	3/14/2011	3/13/2015	Ro602349	\$15,000	4
Red, Ed	w/ Jensen, Greg	UTC Aerospace	I/UCRC Center for e-Design Membership Dues	1/1/2011	12/31/2016	Ro602349	\$15,000	4
Sorensen, Carl	w/ Nelson, Tracy	JFE Steel	Friction Stir Processing I/UCRC Membership Dues	1/1/2011	8/31/2014	Ro602342	\$4,375	4
Sorensen, Carl	w/ Nelson, Tracy	Manufacturing Technology	Friction Stir Processing I/UCRC Membership Dues	4/1/2010	8/31/2014	Ro602312	\$4,375	4
Sorensen, Carl	w/ Nelson, Tracy	JFE Steel	Friction Stir Processing I/UCRC Membership Dues	1/1/2011	12/31/2014	Ro602342	\$4,375	4
Tree, Dale		American Air Liquide	Strategic Oxygen Enhancement for Improved Burnout of Low Quality Biofuels	4/1/2014	3/31/2017	Ro602442	\$225,000	4
Tree, Dale		Air Liquide	Strategic Oxygen Enhancement for Improved Burnout of Low Quality Biofuels	4/1/2014	3/31/2017	Ro602442	\$225,000	4
School of Technology								
Miles, Michael		NSF	GOAL: Crack Repair of Irradiated Stainless Steel by Friction Stir Processing	7/1/2014	6/30/2017	Ro112245	\$150,000	1
Miles, Michael	w/Fullwood, David	NSF	Microstructural Foundations of Magnesium Performance: A Data Mining Approach to High-Throughput HREBSD	9/1/2014	8/31/2017	Ro112260	\$173,431	1
Miles, Michael		UT-Battelle, LLC (Oak Ridge National Lab - DOE)	Solid-State Body-in-White Spot Joining of Al to AHSS at Prototype Scale	11/13/2014	10/26/2017	Ro302592	\$100,000	2
Farnsworth, Clifton		UDOT	Evaluation of Finite Difference Approach to Estimating Consolidation Settlement	7/22/2014	6/30/2016	Ro402245	\$15,000	3
Fullwood, David	w/ Miles, Michael	American Iron and Steel Institute	Microscopic Fracture Mechanisms Evaluation of AHSS by Dislocation Microscopy and Micro DIC	9/25/2013	12/31/2014	Ro502195	\$15,000	4
George, Andrew		MAG Aerospace Industries/Zodiac	Composites Process Optimization for an Aerospace Demonstrator	9/1/2014	8/31/2017	Ro602444	\$121,374	4
George, Andrew		ZF do Brazil Ltda	Development of Novel Composite Clutch Facings	8/1/2014	7/31/2016	Ro602453	\$131,500	4
Lunt, Barry		Millenniata Inc.	Manufacturability of Permanent Solid-State Memory	9/1/2014	4/30/2015	Ro602456	\$13,334	4
Miles, Michael		American Iron and Steel Institute	Microscopic Fracture Mechanisms Evaluation of AHSS by Dislocation Microscopy and Micro DIC	9/25/2013	12/31/2014	Ro502195	\$15,000	4

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

Department Totals	
Chemical Engineering	\$2,033,382
Civil & Environmental Engineering	\$1,485,833
Electrical & Computer Engineering	\$2,515,623
Mechanical Engineering	\$3,582,894
School of Technology	\$734,639
College Total:	\$10,352,371

Engineering & Technology Source Breakdown of Grants and Contracts

Sponsor	No. Awarded	Amount
Federal Sponsors		
AEDC/ PZO	1	\$100,000
AFRL	1	\$155,000
Army ManTech	1	\$103,587
Bureau of Reclamation	1	\$44,375
DARPA	1	\$249,303
DOE	1	\$126,654
Federal Highway Administration	1	\$10,000
NASA	7	\$788,316
Naval Research Lab	1	\$25,000
NSF	21	\$2,201,032
ONR	2	\$125,000
US Army	6	\$847,870
US Veteran's Affairs	1	\$30,000
US DOT	1	\$5,000
US F&WS	1	\$4,717
US Forest Service	2	\$9,700
USAF	1	\$209,410
USGS	2	\$104,219
<i>Total</i>	52	\$5,138,183

Engineering & Technology

Source Breakdown of Grants and Contracts

Federal Subcontracts Sponsors

Concepts (NREC)	1	\$52,274
Conductive Composites (AFRL)	1	\$17,400
CUAHSI (NSF)	1	\$40,000
High Performance Tech, Inc (DOD)	2	\$51,114
Intelligent Light (Air Force)	1	\$128,684
LANL	1	\$40,000
LANL (DOE)	1	\$23,500
MLB (Air Force SBIR)	1	\$87,215
NREL (DOE)	1	\$63,472
Open Door Technologies	1	\$98,708
Sandia National Labs	2	\$68,082
Smart Vision Works (USDA)	1	\$33,000
Technology Service Corp (AFRL)	1	\$20,000
TIPD LLC (AFRL)	1	\$52,500
U of California (LBNL)	1	\$178,000
U of Colorado (AFRL)	1	\$5,816
U of U (DOE PSAAP II)	6	\$193,725
U of U (NASA EPSCoR)	3	\$100,951
UC Berkley (NSF)	1	\$55,328
UC Santa Cruz (NIH)	1	\$101,000
USU (AFRL)	1	\$24,000
UT Battelle, LLC (Oak Ridge DOE)	1	\$100,000
UTC (AFRL)	1	\$24,000
Utopia Compression (Air Force)	2	\$62,430
Wright Brothers Institute (AFRL)	2	\$12,500
<i>Total</i>	36	\$1,935,074

Engineering & Technology

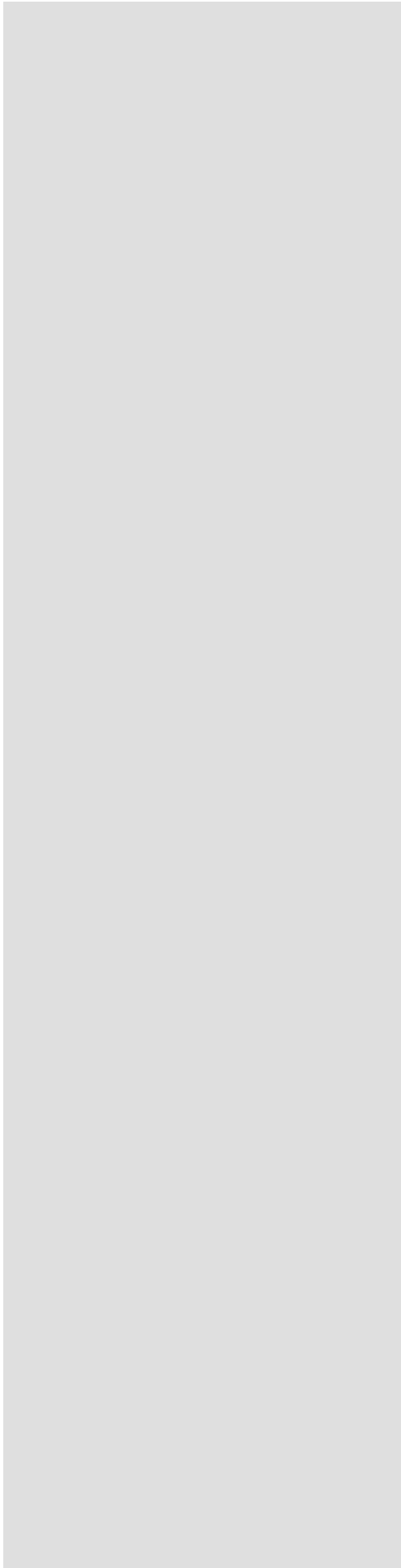
Source Breakdown of Grants and Contracts

State Sponsors

High Performance Tech, Inc.	1	\$18,365
U of U (Utah Office of Energy)	1	\$19,500
UDOT	10	\$319,493
<i>Total</i>	12	\$357,358

Private Sponsors

AICHE/ DIPPR	1	\$550,000
Air Liquide	1	\$225,000
Alcon Research	1	\$45,000
American Air Liquide	1	\$225,000
American Iron and Steel Institute	1	\$30,000
ArcelorMittal Global R&D	1	\$109,000
Belcan Corporation	1	\$30,000
Boeing	2	\$184,000
CD-Adapco	4	\$241,500
Ceramatec	1	\$18,000
Cosmas, Inc.	2	\$65,473
Endura Marketing & Sales	1	\$90,000
ExxonMobil	1	\$10,000
Flexous BV	1	\$17,700
Intuitive Surgical, Inc.	1	\$60,000
JFE Steel	2	\$17,500
MAG Aerospace Industries/ Zodiac	1	\$121,374
Manufacturing Technology	1	\$8,750
Millenniata Inc.	1	\$13,334
National Instruments	1	\$40,000
National Oilwell Varco	1	\$150,000
Pacific Earthquake Eng. Res. (CA)	1	\$25,000
PCC Airfoils	1	\$15,000
Pratt & Whitney	4	\$260,000
SGC Energia	1	\$20,000
Sustainable Energy Solutions	2	\$110,000
U of Arkansas (Arkansas State H&T)	1	\$50,000
Union Pacific	1	\$55,625
UTC Aerospace	1	\$30,000
ZF do Brazil Ltda	1	\$131,500
<i>Total</i>	40	\$2,921,756

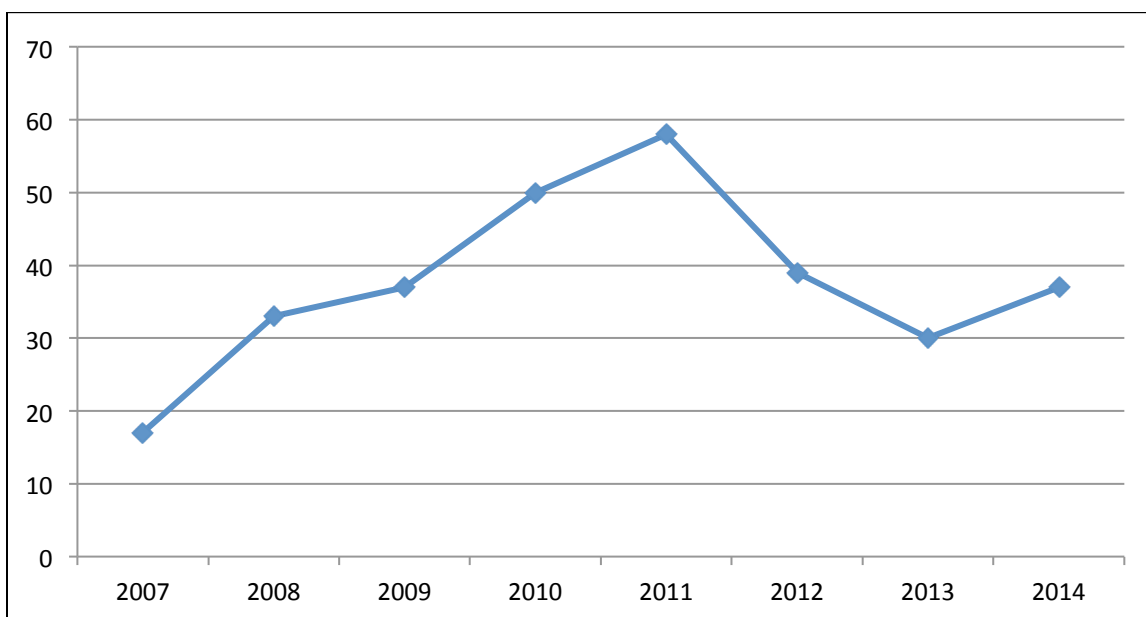


College of Family, Home & Social Sciences

Summary of Sponsored Research (Grants & Contracts)

Department	# of Faculty Submitting	# of Proposals Submitted	# of Awards	Dollars Awarded
Anthropology	5	8	1	\$5,000
Center for Studies of the Family	0	0	0	\$0
Economics	2	2	1	\$192,370
Geography	2	1	1	\$70,289
History	0	0	0	\$0
Home & Family Living	0	0	0	\$0
Joseph Fielding Smith Institute	0	0	0	\$0
Marriage & Family Therapy	0	0	0	\$0
Marriage, Family & Human Development	0	0	0	\$0
Museum of Peoples & Cultures	1	1	1	\$11,205
Office of Public Archeology	1	2	9	\$171,945
Political Science	5	9	8	\$635,991
Psychology	3	5	8	\$1,121,817
School of Family Life	4	5	1	\$33,904
Sociology	2	3	5	\$85,516
Social Work	1	1	2	\$31,188
Totals:	26	37	74	\$2,359,225

Proposal Submission Activity



External Research Funding (All Sources)

Year	Grants/Contracts		Total
	Federal/Federal Subcontracts	State/Private	
2005	\$1,105,425	\$414,243	\$1,519,668
2006	\$1,063,435	\$1,272,255	\$2,335,690
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



Family, Home & Social Sciences 2014 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>Anthropology</i>								
Talbot, Richard		School & Institutional Trust Lands Administration	SITLA Yuba Dam PS8550	8/27/2014	10/23/2014	R0402255	\$5,000	3
<i>Economics</i>								
Pope, Arden		U of Louisville (NIH)	Endothelial Progenitor Cells and Particulate Air Pollution	9/23/2011	4/30/2015	R0302427	\$192,370	2
<i>Geography</i>								
Jensen, Ryan	w/Aanderud, Zachary	Utah State U. (NSF)	iUtah- Innovative Urban Transitions and Aridregion Hydro-Systainability	8/1/2012	7/31/2015	R0302477	\$70,289	2
<i>Museum of Peoples & Cultures</i>								
Stavast, Paul		Utah Depart of Heritage & Arts	New Exhibits	7/1/2014	6/30/2015	R0402252	\$11,205	3
<i>Office of Public Archeology</i>								
Talbot, Richard		Provo City	Duncan Aviation Survey - Provo Airport	3/31/2014	6/30/2014	R0492039	\$1,900	3
Talbot, Richard		State of Utah	Archeology Trench Digs at Provo Airport	3/31/2014	8/31/2014	R0492039	\$3,000	3
Talbot, Richard		UT DOGM	DOGM Price - Indian Survey	3/18/2014	3/31/2015	R0402257	\$41,688	3
Talbot, Richard		UT SITLA	Yuba Dam Study	8/27/2014	10/23/2015	R0402258	\$5,000	3
Talbot, Richard		Bill Barrett Corp.	Promontory Caves Artifact Preparation	9/3/2013	5/1/2014	R0602422	\$3,979	4
Talbot, Richard		Stanley Consultants	Provo Westside Connector	4/1/2014	12/31/2015	R0602445	\$86,737	4
Talbot, Richard		U of Alberta	Promontory Caves Artifact Preparation	6/24/2013	12/31/2014	R0570000	\$5,000	4

Talbot, Richard		Washington County	Cultural Resource Inventory	8/11/2014	12/8/2014	R0492041	\$19,835	4
Talbot, Richard		Colorado Plateau Arch. Alliance	CPAA Grant	9/23/2014	12/31/2015	R0502205	\$4,806	4
Political Science								
Bowen, Donna Lee		TAMU (DOD)	Household Formation Systems, Marriage Markets and Societal Stability/Resilience	9/1/2014	8/31/2015	R0302575	\$45,903	2
Hyer, Eric		U of Utah (DOE)	Intermountain Consortium for Asian and Pacific Studies Title VI NRC Grant	8/15/2014	8/14/2015	R0302596	\$111,163	2
Hyer, Eric		U of Utah (DOE)	Intermountain Consortium for Asian and Pacific Studies Title VI FLAS Grant	8/15/2014	8/14/2015	R0302597	\$334,500	2
Nielson, Daniel		William & Mary(USAID)	Where Money Goes: Mapping Aid for Better Impact	10/1/2012	9/30/2015	R0302482	\$45,000	2
Nielson, Daniel		World Bank	Uganda: Resource Curse & Aid Dependence	5/8/2014	6/30/2014	R0570005	\$99,425	4
Psychology								
Kirwan, Brock	w/ Anderson, Bonnie	NSF	The Force of Habit: Using MRI to Explain User's Habituation to Security Warnings	9/1/2014	8/31/2016	R0112267	\$98,113	1
Steffensen, Scott		NIH	Nicotine and Alcohol Co-Dependence	6/1/2014	5/31/2015	R0102066	\$420,967	1
Steffensen, Scott		NIH	Neuroplasticity for Alcohol Dependence	8/1/2012	7/31/2015	R0102059	\$289,296	1
Bigler, Erin		Virginia Commonwealth (US Army Medical Research)	Chronic Effects of Neurotrauma Consortium(CENC)	9/30/2013	9/29/2014	R0302548	\$77,679	2
Bigler, Erin		USCD(NIH)	A Psychiatric and Imaging Study of Pediatric Mild Traumatic Brain Injury	9/1/2011	6/30/2015	R0302450	\$72,894	2
Bigler, Erin		Nationwide Children's Hospital(NIH)	Predicting Outcomes in Children with Mild Traumatic Brain Injury	8/23/2013	5/31/2015	R0302540	\$66,276	2
Bigler, Erin		Virginia Commonwealth U.	Chronic Effects of Neurotrauma Consortium(CENC)	9/30/2013	9/29/2015	R0302548	\$79,823	2
Bigler, Erin		UC Davis (NIH)	Visuospatial Cognitive Deficit in Del22q11.2 Syndrome	10/15/2014	5/14/2015	R0302585	\$16,269	2

Bigler, Erin		US District Court	Neuroimaging Forensic Work	4/30/1991	12/31/2014	R0600381	\$500	4
School of Family Life								
Yorgason, Jeremy		Veteran's Administration	Veteran's Rural Health Resource Center	10/1/2014	9/30/2015	R0202445	\$33,904	1
Sociology								
Erickson, Lance		Veteran's Administration	Veteran's Rural Health Resource Center	10/1/2014	9/30/2015	R0202444	\$31,779	1
Ward, Carol		Chief Dull Knife College(NSF)	Research Engagement Across Curricular Tracks	10/6/2014	9/30/2015	R0302590	\$8,912	2
Ward, Carol		Chief Dull Knife College(NSF)	Connecting Research To Student Success	10/6/2014	10/6/2015	R0302505	\$9,200	2
Brown, Ralph		Rural Sociological Society	Treasurer & Executive Director appointment	2/8/2012	8/30/2015	R0502112	\$10,000	4
Brown, Ralph		Rural Soc. Society	Treasurer and Executive Director Appointment Support for Society	2/8/2012	8/30/2015	R0502112	\$25,625	4
Social Work								
Clark, Charlene		Utah Commission on Volunteers	AMERICORP SERVICES 2014-15	8/15/2014	8/14/2015	R0302572	\$20,188	2
Limb, Gordon		Provo Canyon Behavioral Hospital	Student Internship Partnership	1/10/2014	1/9/2024	R0602440	\$11,000	4

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

Department Totals	
Anthropology	\$5,000
Economics	\$192,370
Geography	\$70,289
History	\$0
School of Family Life	\$33,904
Joseph Fielding Smith Institute	\$0
Marriage & Family Therapy	\$0
Museum of Peoples & Cultures	\$11,205
Office of Public Archaeology	\$171,945
Political Science	\$635,991
Psychology	\$635,991
Social Work	\$31,188
Sociology	\$85,516
College Total:	\$2,359,225

Family, Home & Social Sciences

Source Breakdown of Grants and Contracts

Sponsor	No. Awarded	Amount
Federal Sponsors		
NIH	2	\$710,263
NSF	1	\$98,113
Veteran's Administration	2	\$65,683
<i>Total</i>	5	\$874,059
Federal Subcontract Sponsors		
Chief Dull Knife College (NSF)	2	\$18,112
TAMU (DOD)	1	\$45,903
U of Louisville (NIH)	1	\$192,370
U of U (DOE)	2	\$445,663
UC Davis (NIH)	1	\$16,269
USCD (NIH)	1	\$72,894
Utah Commission on Volunteers	1	\$72,894
Utah State U (NSF)	1	\$70,289
Virginia Commonwealth U (US Army)	1	\$77,679
Virginia Commonwealth U	1	\$79,823
William & Mary (USAID)	1	\$45,000
<i>Total</i>	13	\$1,150,466
State Sponsors		
Provo City	1	\$1,900
School & Institutional Trust Lands Admin	1	\$5,000
State of Utah	1	\$3,000
UT DOGM	1	\$41,688
UT SITLA	1	\$5,000
UT Department of Heritage & Arts	1	\$11,205
<i>Total</i>	6	\$67,793
Private Sponsors		
Bill Barrett Corp.	1	\$3,979
Colorado Plateau Arch Alliance	1	\$4,806
Provo Canyon Behavioral Hospital	1	\$11,000
Rural Sociological Society	2	\$35,625
Stanley Consultants	1	\$86,737
U of Alberta	1	\$5,000
US District Court	1	\$500
Washington County	1	\$19,835
World Bank	1	\$99,425
<i>Total</i>	10	\$266,907

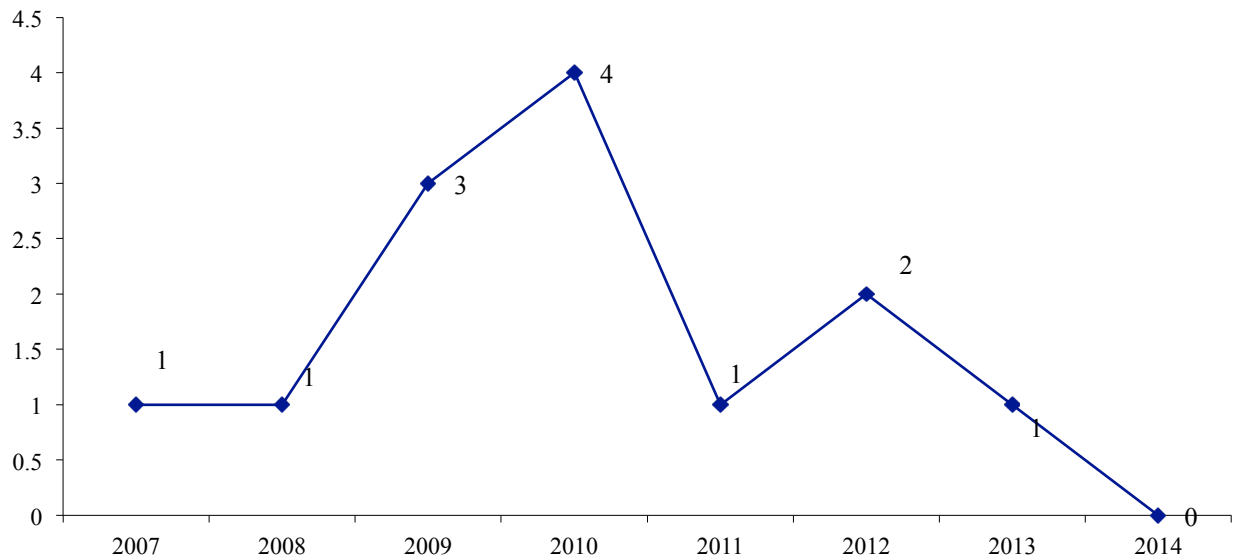


College of Fine Arts & Communications

Summary of Sponsored Research (Grants & Contracts)

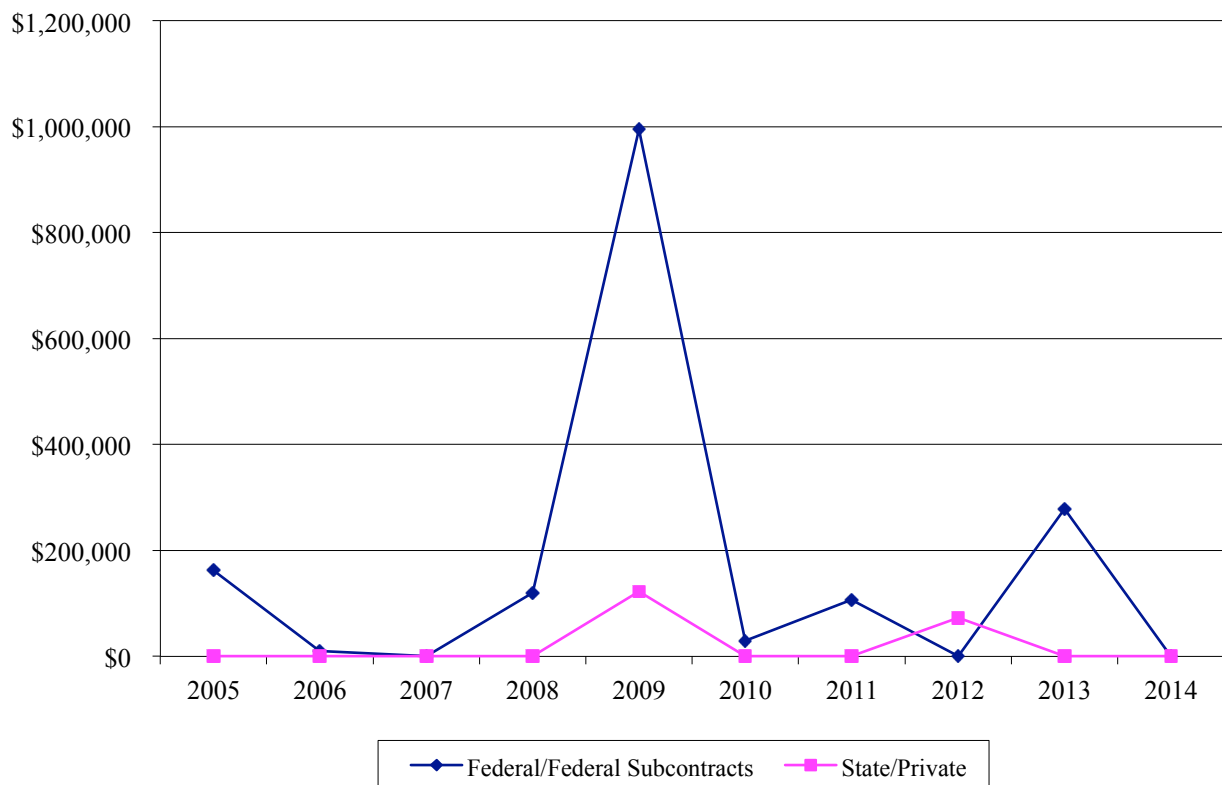
Department	# of Faculty Submitting	# of Proposals Submitted	# of Awards	Dollars Awarded
Communication	0	0	0	\$0
Dance	0	0	0	\$0
Museum of Art	0	0	0	\$0
School of Music	0	0	0	\$0
Theatre & Media Arts	0	0	0	\$0
Visual Arts	0	0	0	\$0
TOTALS	0	0	0	\$0

Proposal Submission Activity



External Research Funding (All Sources)

Year	Grants/Contracts		Total
	Federal/Federal Subcontracts	State/Private	
2005	\$162,521	\$0	\$162,521
2006	\$10,000	\$0	\$10,000
2007	\$0	\$0	\$0
2008	\$120,000	\$0	\$120,000
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



Fine Arts & Communications

Source Breakdown of Grants and Contracts

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

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

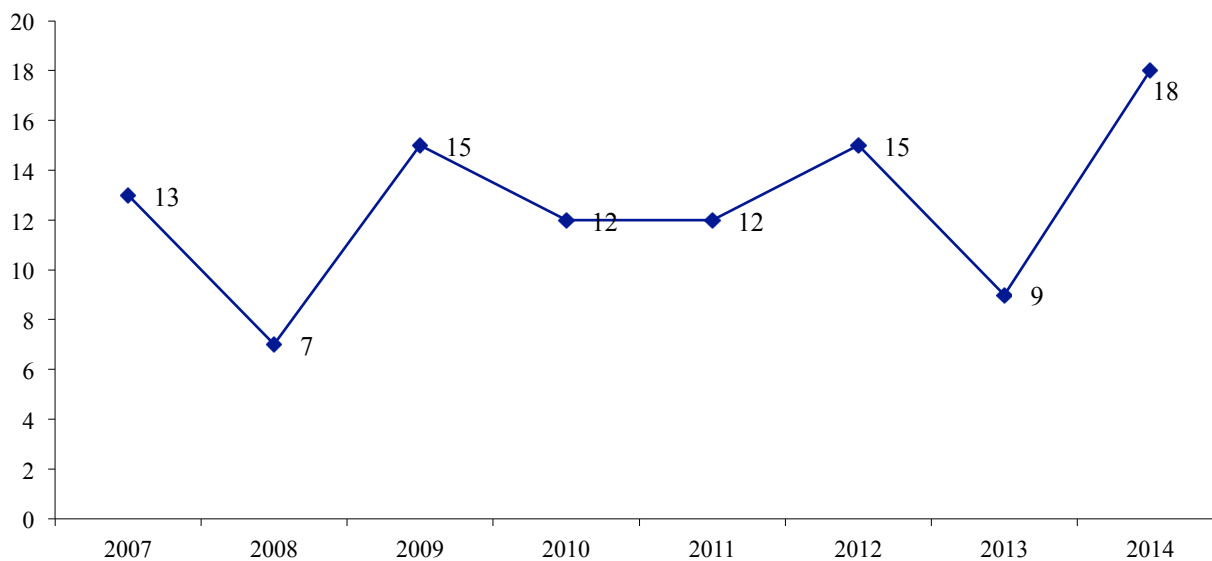


College of Humanities

Summary of Sponsored Research (Grants & Contracts)

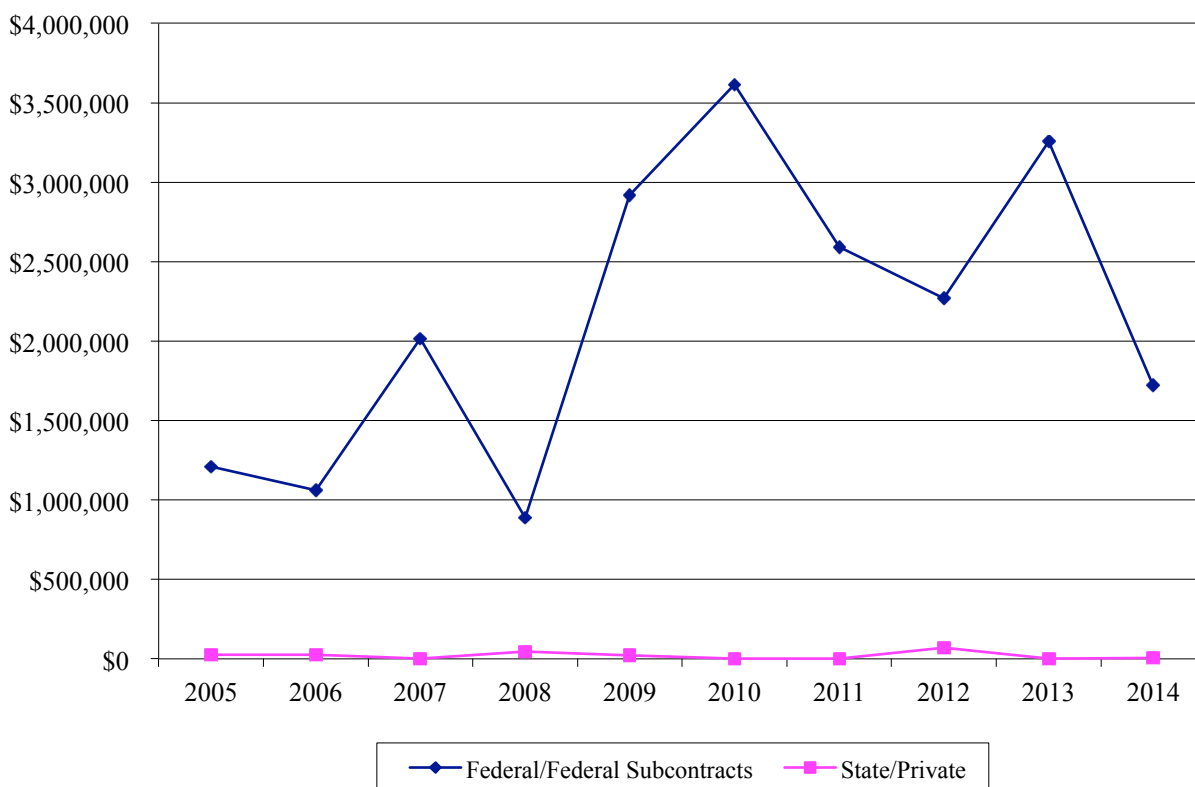
Department	# of Faculty Submitting	# of Proposals Submitted	# of Awards	Dollars Awarded
Asian & Near Eastern Languages	3	7	2	\$932,921
Center for Language Studies	2	3	5	\$426,465
English	0	3	4	\$28,000
French & Italian	0	0	0	\$0
German & Slavic Languages	0	0	0	\$0
Humanities, Classic & Compatarive Literature	1	1	0	\$0
Linguistics	1	1	0	\$0
Philosophy	0	0	0	\$0
Spanish & Portuguese	2	3	2	\$338,833
Totals:	9	18	13	\$1,726,219

Proposal Submission Activity



External Research Funding (All Sources)

Year	Grants/Contracts		Total
	Federal/Federal Subcontracts	State/Private	
2005	\$1,209,231	\$25,237	\$1,234,468
2006	\$1,060,844	\$24,000	\$1,084,844
2007	\$2,016,930	\$0	\$2,016,930
2008	\$887,113	\$48,000	\$935,113
2009	\$2,916,487	\$20,477	\$2,936,964
2010	\$3,616,093	\$0	\$3,616,093
2011	\$2,591,182	\$0	\$2,591,182
2012	\$2,270,998	\$71,200	\$2,342,198
2013	\$3,255,497	\$3,420	\$3,258,917
2014	\$1,720,219	\$6,000	\$1,726,219



Humanities 2014 Awards

<u>Investigators</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, Matthew		NSEP	BYU Chinese Flagship Center	6/1/2012	5/31/2015	R0302468	\$429,390	2
Christensen, Matthew		IIE	Chinese Overseas Flagship Program (2014-15)	6/1/2014	5/31/2015	R0302579	\$503,531	2
Center for Language Studies								
Bourgerie, Dana		NSA	BYU STARTALK Student Program	4/16/2014	2/28/2015	R0202416	\$89,944	1
Clifford, Ray		NEH	Authors in Prado	10/1/2014	10/31/2015	R0202429	\$149,813	1
Bush, Michael		IDA	Task 4: Natural Language Processing Assessment (Metaphor Project)	1/6/2014	12/31/2014	R0302503	\$88,130	2
Bush, Michael		Int for Defense Analysis	Metaphorical Language Sample Collection - Task #5	6/13/2014	8/31/2014	R0302564	\$39,377	2
Bush, Michael		IDA	Metaphorical Language Sample Collection	4/1/2013	2/13/2015	R0302503	\$59,201	2
English								
Crowe, Chris		NEA (Art Works)	The Art of Writing about the Arts: A Summer Youth Camp - Summer 2015	4/1/2015	10/31/2015	R0202432	\$10,000	1
Dean, Deborah		NWP (Univ of Cal)	2014-2016 SEED Teacher-Leadership Grant	5/1/2014	8/31/2016	R0302550	\$10,000	2
Dean, Deborah		NWP	Assignments Matter Grant	10/1/2014	12/31/2015	R0502203	\$2,000	2
Rudy, Jill		U of Winnipeg (SSHRC)	Fairy Tale Cultures and Media Today	4/1/2014	3/31/2018	R0570006	\$6,000	4
Spanish & Portuguese								
Lund, Christopher		U of U (DOE)	Title VI NRC FLAS	8/14/2014	8/14/2015	R0302595	\$252,000	2
Lund, Christopher		U of U (DOE)	Title VI NRC FLAS (Latin American Studies)	8/14/2014	8/15/2015	R0302599	\$86,833	2

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

Department Totals	
Asian & Near Eastern Languages	\$932,321
Center for Language Studies	\$426,465
English	\$28,000
French & Italian	\$0
German & Slavic Languages	\$0
Hum, Classics & Comparative Lit	\$0
Humanities Research Center	\$0
Linguistics	\$0
Philosophy	\$0
Spanish & Portuguese	\$338,833
College Total:	\$1,726,219

Humanities

Source Breakdown of Grants and Contracts

Sponsor	No. Awarded	Amount
Federal Sponsors		
NEA (Art Works)	1	\$10,000
NEH	1	\$149,813
NSA	1	\$89,944
<i>Totals</i>	3	\$249,757
Federal Subcontracts Sponsors		
IDA	2	\$147,331
IIE	1	\$503,531
Institute for Defense Analysis	1	\$39,377
NSEP	1	\$429,390
NWP	1	\$2,000
NWP (U of Cal)	1	\$10,000
U of U (DOE)	2	\$338,833
<i>Totals</i>	9	\$1,470,462
Private		
U of Winnipeg (SSHRC)	1	\$6,000
<i>Totals</i>	1	\$6,000

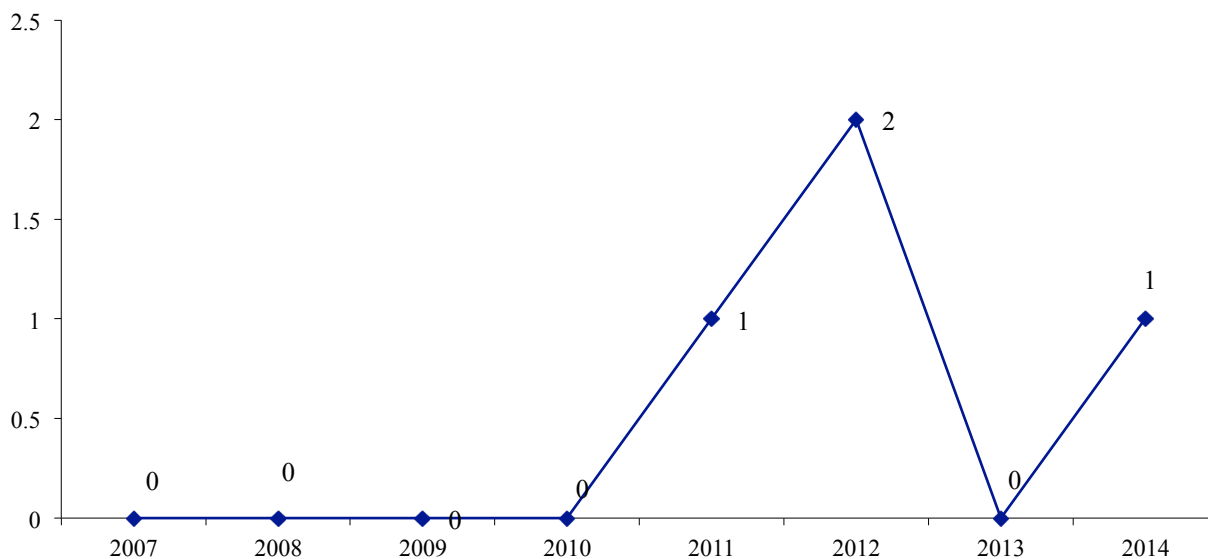


J. Reuben Clark Law School

Summary of Sponsored Research (Grants & Contracts)

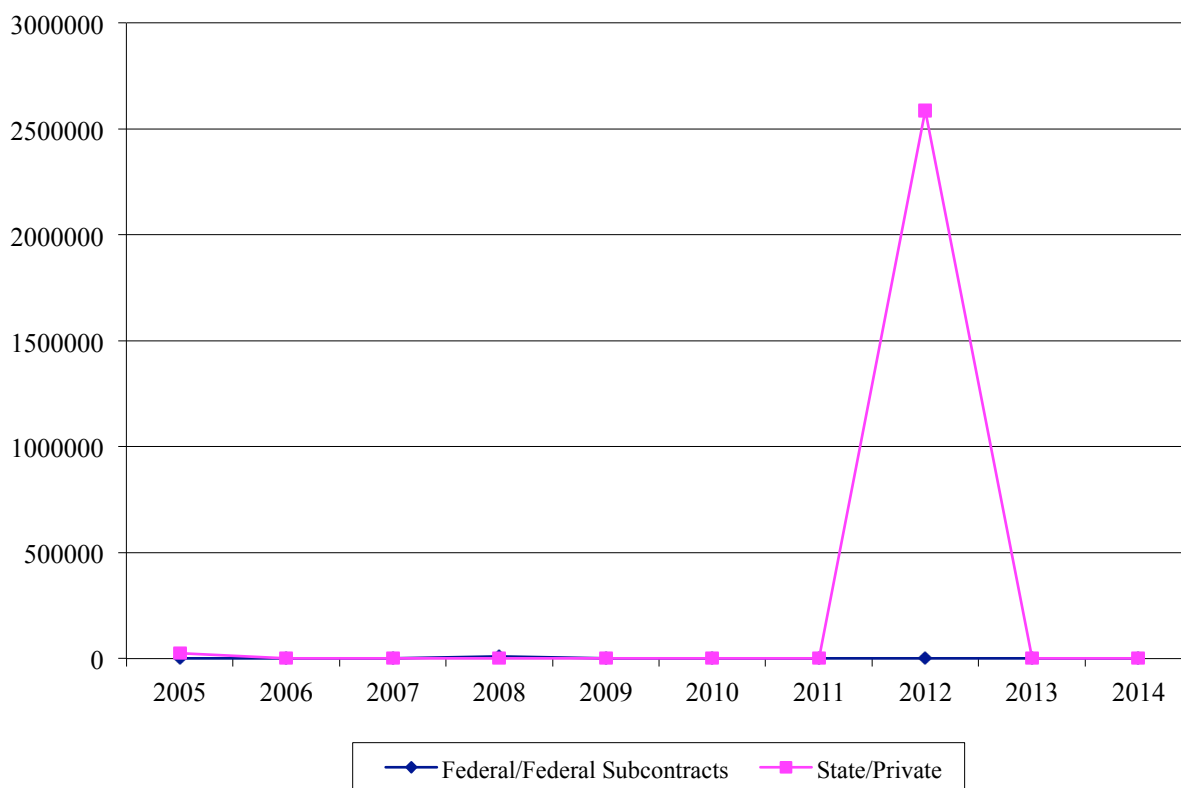
Department	# of Faculty Submitting	# of Proposals Submitted	# of Awards	Dollars Awarded
Law School	0	0	0	\$0
TOTALS	0	0	0	\$0

Proposal Submission Activity



External Research Funding (All Sources)

Year	Grants/Contracts		Total
	Federal/Federal Subcontracts	State/Private	
2005	\$0	\$24,799	\$24,799
2006	\$0	\$0	\$0
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



Department Totals	
Law School	\$0
College Total:	\$0

J. Reuben Clark Law School

Source Breakdown of Grants and Contracts

Sponsor	Number Awarded	Total Amount
Federal		
None		
	<i>Total</i>	_____
Subcontracts		
None		
	<i>Total</i>	_____
State		
None		
	<i>Total</i>	_____
Private		
None		
	<i>Total</i>	_____

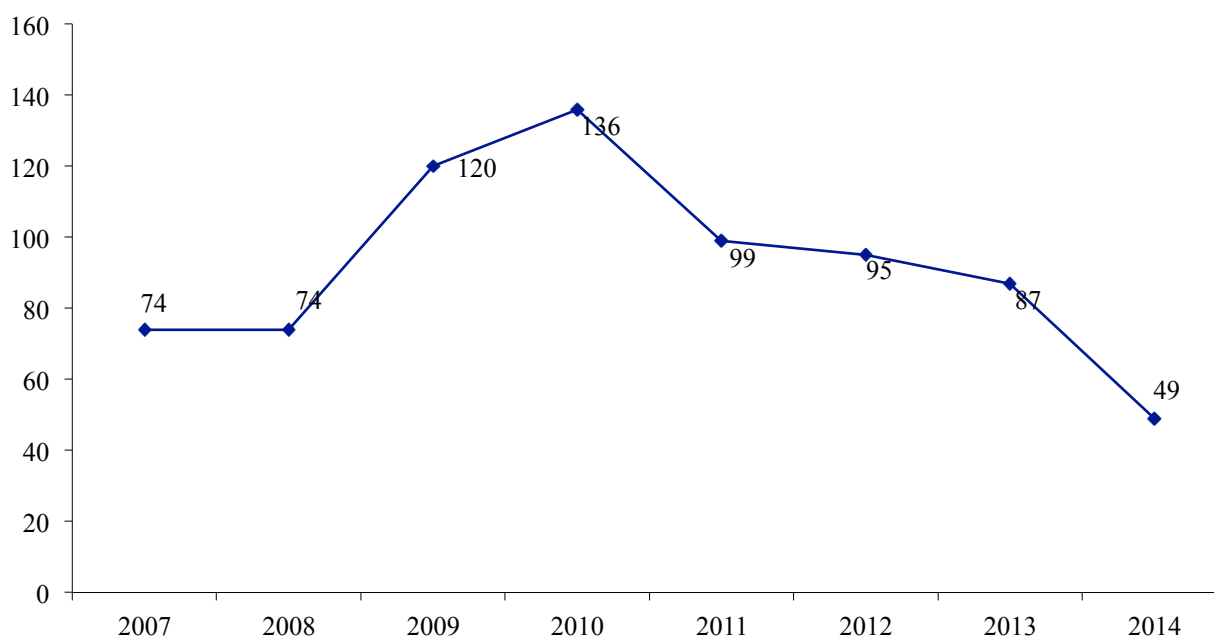


College of Life Sciences

Summary of Sponsored Research (Grants & Contracts)

Department	# of Faculty Submitting	# of Proposals Submitted	# of Awards	Dollars Awarded
Biology	21	24	17	\$1,478,732
Microbiology & Molecular Biology	8	15	12	\$1,101,522
Monte Bean Life Science Museum	0	0	1	\$24,000
Exercise Science	7	7	4	\$36,236
Health Science	7	4	2	\$42,656
Nutrition, Dietetic & Food Science	10	13	4	\$411,771
Physiology & Developmental Biology	9	10	4	\$469,405
Plant & Wildlife Sciences	20	33	28	\$4,021,176
Ezra T. Benson Institute	0	0	0	\$0
Totals:	41	49	55	\$7,567,498

Proposal Submission Activity



External Research Funding (All Sources)

Year	Grants/Contracts		Total
	Federal/Federal Subcontracts	State/Private	
2005	\$5,974,159	\$755,983	\$6,805,888
2006	\$2,763,746	\$1,054,773	\$3,818,519
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



College of Life Sciences 2014 Awards

<u>PI</u>	<u>Co-PI</u>	<u>Sponsor</u>	<u>Title</u>	<u>Beg Date</u>	<u>End Date</u>	<u>Account</u>	<u>Amount</u>	<u>Type</u>
Monte Bean Life Science Museum								
St.Clair, Larry		Alpine School District	CITES	11/30/2009	12/31/2015	R0502113	\$24,000	4
Biology								
Belk, Mark		BLM	Trophic Niche Influence on Population Movement and Growth Rate of Northern Leatherside Chub	9/15/2012	9/30/2017	R0202377	\$20,000	1
Belk, Mark		BLM Wyoming	HDD Northern Leatherside Study	1/6/2010	12/31/2015	R0202297	\$20,000	1
Bybee, Seth		NSF	Phylogenomics, Revisionary Systematics, and Evolution of the Visual Systems in Dragonflies and Damselflies	2/15/2013	1/31/2018	R0112227	\$147,516	1
Bybee, Seth		USDA-APHIS	An Identification Tool to the Metallic Wood Boring Beetle Genera of the World	9/25/2014	9/24/2015	R0202434	\$126,500	1
Clark, Shawn		NSF	Digitization PEN: Ground-dwelling Insects in the BYU Collection, Enhancement to Scan	6/15/2014	5/31/2017	R0122254	\$55,663	1
Johnson, Jerald		NSF	Graduate Research Fellowship	9/1/2014	8/31/2014	R0112218	\$44,000	1
Johnson, Leigh		NSF	SG: Arts: Toward a Monographic Treatment of Calyceraceae: fieldwork, phylogeny, and character evolution	6/1/2014	5/31/2017	R0122253	\$146,851	1
Johnson, Leigh	w/Stevens, Mikel	BLM	BLM VFO Molecular Characterization of White River Beardtongue, Penstemon Scariosus	5/1/2014	7/31/2015	R0202419	\$7,653	1
Johnson, Leigh		BLM Utah	Population Genetics Relative to Other Cycladenia Varieties and Populations Inferred From Low Copy Nuclear Gene	7/15/2014	6/30/2019	R0202435	\$18,000	1
Johnson, Robert	w/Stewart, Ryan	US Army Dugway	Tree Nursery and Propagation Beds to Enhance Growth and Survival of Ornamental Trees	1/1/2014	8/31/2015	R0202409	\$46,865	1
Johnson, Robert	w/Stevens, Mikel	BLM	BLM VFO Molecular Characterization of White River Beardtongue, Penstemon Scariosus	5/1/2014	7/31/2015	R0202419	\$7,654	1
Kauwe, John		NIH	Pleiotropic and interaction Effects on Alzheimer's disease Risk and Progression	9/1/2012	12/31/2014	R0102062	\$229,310	1
Nelson, Riley	w/ Clark, Shawn	NSF	Digitization PEN: Ground-dwelling Insects in the BYU Collection, Enhancement to Scan	6/15/2014	5/31/2017	R0122254	\$55,663	1
Sites, Jack		NSF	REU Supplement - Quantifying Climate Forced Extinction for Lizards, Amphibians, Fishes & Plants	6/11/2014	2/28/2017	R0112258	\$12,500	1
St. Clair, Larry		US Forest Service	Recommending Establishment of a Lichen Air Quality Bio-Monitoring Programme and Baseline in Five USDA Regional Wilderness Areas	4/25/2014	12/31/2016	R0202417	\$17,723	1
St. Clair, Larry		US Forest Service	AQ Bio-Monitoring Program	7/27/2012	9/30/2015	R0202369	\$50,000	1
St. Clair, Larry		USDA-Nat Forest	Extend Air Quality Bio-monitoring System- South Unit- Ashley National Forest	9/7/2011	5/31/2015	R0202352	\$4,385	1
Whipple, Clinton		NSF	CAREER: Genetic Networks of Bract Suppression in Maize	5/1/2013	4/30/2018	R0112228	\$139,000	1

Whiting, Michael	w/ Clark, Shawn	NSF	Digitization PEN: Ground-dwelling Insects in the BYU Collection, Enhancement to Scan	6/15/2014	5/31/2017	R0122254	\$55,663	1
Adams, Byron		U. of Colorado (NSF)	Increased Connectivity in a Polar Desert Resulting from Climate Warming: McMurdo Dry Valley LTER Program	4/15/2011	3/31/2015	R0302397	\$38,915	2
Gill, Richard	w/Aanderud, Zachary	Utah State U. (NSF)	iUtah- Innovative Urban Transitions and Aridregion Hydro-Sustainability	8/1/2012	7/31/2015	R0302477	\$70,288	2
Whipple, Clinton		Oklahoma U.(NSF)	The Genetic Architecture of TILLERING in Panicoid Cereals	6/1/2014	5/31/2015	R0302562	\$139,104	2
Kauwe, John		NIH	Pleiotropic and Interaction Effects on Alzheimer's Disease Risk and Progression	9/1/2012	12/31/2017	R0102062	\$25,479	1
Exercise Science								
Davidson, Lance		U. of Utah(NIH)	Morbidity and Mortality Related to Gastric Bypass Surgery	8/1/2013	7/31/2014	R0302563	\$11,118	2
Davidson, Lance		U of Utah(NIH)	Morbidity and Mortality Related to Gastric Bypass Surgery	8/1/2013	7/31/2015	R0302563	\$11,118	2
Hunter, Iain		USA Track & Field	Analysis of Distance Running	11/26/2013	11/30/2014	R0502040	\$7,000	4
Hunter, Iain		US Track & Field	Analysis of Distance Running	10/4/2003	12/31/2014	R0502040	\$7,000	4
Health Science								
Crookston, Benjamin		Boston U.(NIH)	Growth Recovery, Schooling and Cognitive Achievement: Evidence from Four Cohorts	6/15/2013	6/31/15	R0302489	\$22,856	2
Barnes, Michael		NORAD	Systems Thinking & Health Whiteboard Videi	1/30/2014	1/30/2015	R0570003	\$1,800	4
Microbiology & Molecular Biology								
Griffitts, Joel		NSF	The Molecular Basis of Abortive Symbiosis	3/1/2011	2/29/2016	R0112180	\$139,578	1
Griffitts, Joel		NIFA/USDA	A Rhizobial Petidase That Interferes with Host Plant Nitrogen Acquisition	1/1/2015	12/31/2017	R0202443	\$457,914	1
Johnson, Steven		NIH	Overcoming Transgene Silencing by DNA-Directed Chromatin Reformation	5/1/2014	4/30/2017	R0102064	\$330,030	1
Grose, Julianne		UC-Davis(USDA-NIFA)	2014 IR-4 Western Region Biopesticide Grant Program	7/15/2014	7/14/2015	R0302570	\$25,000	2
Berges, Bradford		Chulalongkorn U/The Thailand Research Fund	Humanized Mice as a Model for Dengue Vaccines	1/1/2014	6/1/2014	R0570004	\$3,000	4
O'Neill, Kim		U. of Colorado	Development of ELISA for the Early Detection of Lung Cancer.	1/24/2014	5/1/2014	R0802034	\$18,000	4
Robison, Richard		Solutions BioMed	Antimicrobial Materials and Select Agents	6/17/2005	12/31/2015	R0602144	\$5,000	4
Robison, Richard		Reay Englund Law, Inc.	The Antimicrobial Properties of a New Paracetic Acid Powder	7/21/2014	7/20/2015	R0602454	\$33,000	4
Robison, Richard		Solutions BioMed	Antimicrobial Materials and Select Agents	6/17/2005	12/31/2015	R0602144	\$10,000	4
Robison, Richard		Solutions BioMed	Antimicrobial Materials and Select Agents	6/17/2005	12/31/2015	R0602144	\$10,000	4
Robison, Richard		sBioMed	Antimicrobial Materials and Select Agents	6/17/2005	12/31/2015	R0602144	\$20,000	4
Robison, Richard		E-excell International	Post-doc assistance	6/9/2014	12/31/2016	R0602450	\$50,000	4
Nutrition, Dietetic & Food Science								

Dunn, Michael		March of Dimes	Folic Acid Stability in Fortified Corn Masa Flour, and Associated Baked and Fried End-Products	12/17/2014	12/30/2015	R0502206	\$20,886	4
Jefferies, Laura		Basic American Foods	Food Product Consumer Testing	1/1/2014	12/31/2014	R0602395	\$50,000	4
Pike, Oscar		LDS Welfare	BYU Quality Food Laboratories	1/1/2014	12/31/2014	R0700031	\$160,000	4
Pike, Oscar	w/Dunn, Michael	March of Dimes	Folic Acid Stability in Fortified Corn Masa Flour, and Associated Baked and Fried End-Products	12/17/2014	12/30/2015	R0502206	\$20,885	4
Pike, Oscar		LDS Welfare Services	BYU Quality Food Laboratories	1/1/1991	12/31/2015	R0700031	\$160,000	4
Physiology & Developmental Biology								
Alder, Jonathan		NIH	Mechanisms of Telomere-Mediated Emphysema	7/1/2014	6/30/2017	R0102067	\$249,000	1
Busath, David		Florida State U(NIH)	Correlations-Structure-Dynamics Function in Channels	8/1/2011	7/31/2015	R0302408	\$111,905	2
Reynolds, Paul		FAMRI	Modeling of COPD by Novel Rage Transgenic Mice	7/1/2012	6/30/2015	R0502158	\$54,250	4
Reynolds, Paul		Flight Attendant's Medical Research Inst.	Modeling of COPD by Novel Rage Transgenic Mice	7/1/2012	6/30/2015	R0502158	\$54,250	4
Plant & Wildlife Sciences								
Allen, Phil	w/Jolley, Greg	US Army Dugway	Landscape Design for the DITTO and AVERY Technical Centers at the U.S. Army Dugway Proving Ground	2/1/2014	8/31/2014	R0202410	\$3,471	1
Allen, Phil	w/Stewart, Ryan	US Army Dugway	Tree Nursery and Propagation Beds to Enhance Growth and Survival of Ornamental Trees	1/1/2014	8/31/2015	R0202409	\$46,866	1
Allen, Phil		USDA - Forest Svc	Enhancing the Effectiveness of Annual Grass Weed Biocontrol with the Black Fingers of Death	5/31/2012	5/31/2015	R0202365	\$24,510	1
Allen, Phil	w/Jolley, Greg	US Army(Dugway)	Landscape Design for DITTO and BAKER technical Centers	2/1/2014	8/31/2015	R0202410	\$13,750	1
Geary, Brad		USDA Forest Svc	Buffelgrass Biocontrol in the Sonoran Desert with Folia Fundal Pathogens and their Phytotoxic Metabolites	8/30/2013	12/31/2015	R0202407	\$30,000	1
Hansen, Neil		USDA-NIFA	Decision Support Tools, Drought Tolerance, Innovative Soils and Water Management Strategies	2/1/2014	1/31/2017	R0202413	\$882,984	1
Jellen, Eric		USDA	Plant Exploration in UT, WY to Collect Chenopodium Germplasm for Quino Improvement	5/1/2014	9/30/2015	R0202424	\$4,039	1
Jolley, Greg		US Army Dugway	Landscape Design for the DITTO and AVERY Technical Centers at the U.S. Army Dugway Proving Ground	2/1/2014	8/31/2014	R0202410	\$3,471	1
Jolley, Greg		US Army(Dugway)	Landscape Design for DITTO and BAKER technical Centers	2/1/2014	8/31/2015	R0202410	\$13,750	1
Larsen, Randy		US Army Dugway Proving	Baseline Information on Wildlife Water Use at Dugway	1/1/2014	8/31/2015	R0202368	\$152,262	1
Larsen, Randy	w/Petersen, Steven	US Air Force	Natural Resources Support Hill AFB	9/22/2014	9/21/2015	R0202433	\$173,750	1
Larsen, Randy		BLM - Utah	BLM UT Special Status Species and other Special Wildlife Inventories	9/18/2014	9/30/2019	R0202436	\$10,000	1
Larsen, Randy		US Army(Dugway)	Technician Support for the U.S. Army's Dugway Proving Ground	4/11/2011	8/15/2015	R0202335	\$116,006	1
Maughan, Peter	w/Jellen, Eric	USDA	Plant Exploration in UT, WY to Collect Chenopodium	5/1/2014	9/30/2015	R0202424	\$4,039	1

			Germplasm for Quino Improvement					
McMillan Brock	w/Larsen, Randy	US Army(Dugway)	Technician Support for the U.S. Army's Dugway Proving Ground	4/11/2011	8/15/2015	R0202335	\$116,006	1
McMillan, Brock	w/Larsen, Randy	BLM - Utah	BLM UT Special Status Species and other Special Wildlife Inventories	9/18/2014	9/30/2019	R0202436	\$10,000	1
Petersen, Steven		USDA Forest Svc	Mixed Approach Sagebrush (Artemisia spp) and Sage-grouse Vulnerability Assessment	7/10/2014	12/31/2015	R0202425	\$3,333	1
Petersen, Steven		USDA Forest Svc	Great Basin Bristlecone Pine (Pinus Longaeva) Climate Change and Wildfire Vulnerability Assessment	6/30/2014	6/30/2017	R0202426	\$11,811	1
Petersen, Steven		US Air Force	Natural Resources Support Hill AFB	9/22/2014	9/21/2015	R0202433	\$173,750	1
Roundy, Bruce		US Forest Service	SageSTEP Soil Moisture Station Monitoring	10/21/2010	4/30/2015	R0202327	\$15,000	1
Stevens, Mikel		BLM	BLM VFO Molecular Characterization of White River Beardtongue, Penstemon Scariosus	5/1/2014	7/31/2015	R0202419	\$7,654	1
Stewart, Ryan		US Army Dugway	Tree Nursery and Propagation Beds to Enhance Growth and Survival of Ornamental Trees	1/1/2014	8/31/2015	R0202409	\$46,866	1
Terry, Richard		NSF	Collaborative Research: Environmental Exploitation and Societal Collapse at Rio Amarillo, Copan Valley, Honduras	8/1/2014	7/31/2016	R0112263	\$40,110	1
Udall, Joshua		USDA/Forest Svc	Associating Genomic Properties to Adaptive Traits in Big SageBrush	6/24/2013	6/30/2018	R0202408	\$32,000	1
Udall, Joshua		NSF	Structural Variation of Diploid & Polyploid Plant Genomes	6/1/2014	5/31/2017	R0112251	\$1,490,891	1
Aanderud, Zachary		Utah State U. (NSF)	iUtah- Innovative Urban Transitions and Aridregion Hydro-Sustainability	8/1/2012	7/31/2015	R0302477	\$70,289	2
St.Clair, Samuel	w/Aanderud, Zachary	Utah State U. (NSF)	iUtah- Innovative Urban Transitions and Aridregion Hydro-Sustainability	8/1/2012	7/31/2015	R0302477	\$70,289	2
Terry, Richard		Penn State U. (NSF)	Land, Water, and Territory: A 3,000-year Study of Niche Construction and Cultural Evolution in the Tikal NP	2/14/2014	2/28/2015	R0302549	\$33,600	2
Terry, Richard		Penn State(NSF)	Land, Water, and Territory: A 3,000-year Study of Niche Construction and Cultural Evolution in the Tikal NP	2/14/2014	2/28/2015	R0302549	\$4,392	2
Hansen, Neil		Wasatch Conservation District	Soil testing and phosphorous risk indexing in the Wallsburg Watershed	6/4/2014	6/30/2015	R0492040	\$14,000	3
Larsen, Randy	w/ St. Clair, Sam	UDWR	Assessment of Disturbance Size and Ecological Conditions on Wildlife Impacts of Aspen Regeneration in Utah FY15 Project	6/19/2014	8/31/2015	R0402242	\$38,250	3
Larsen, Randy		URMCC	Study of Sage Grouse in Strawberry Valley	7/1/2014	7/31/2019	R0202428	\$65,000	3
McMillian, Brock		Utah DWR	Distribution and Natural History of Dark Kangaroo Mouse in Western Utah	5/1/2014	8/31/2015	R0402240	\$141,654	3
Smith, Tom		Utah DWR	Radio-tag Black Bears to the UDWR for Inclusion in Their Ongoing Assessment of Black Bear Population Dynamics	2/5/2014	6/30/2015	R0402234	\$24,000	3
St. Clair, Sam		UDWR	Assessment of Disturbance Size and Ecological Conditions on Wildlife Impacts of Aspen Regeneration in Utah FY15 Project	6/19/2014	8/31/2015	R0402242	\$38,250	3

Stewart, Ryan		Utah Dept of Ag	Reaping Economic and Ecological Benefits From Growing Stress-tolerant Succulents As Food Crops	9/30/2013	9/29/2016	R0402232	\$15,133	3
Udall, Joshua		Cotton Inc.	Physical Mapping of Cotton	1/1/2015	12/31/2015	R0602460	\$30,000	4
Udall, Joshua		Cotton Inc.	Cotton Inc. Fellowship Proposal	1/1/2015	12/31/2015	R0602461	\$50,000	4

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

Department Totals

Bean Museum	\$24,000
Biology	\$1,478,732
Microbiology & Molecular Biology	\$1,101,522
Exercise Science	\$36,236
Health Science	\$42,656
Nutrition, Dietetics & Food Science	\$411,771
Physiology & Developmental Biology	\$469,405
Plant & Wildlife Sciences	\$4,021,176
College Total:	\$7,567,498

Life Sciences

Source Breakdown of Grants and Contracts

Sponsor	No. Awarded	Amount
Federal Sponsors		
BLM	2	\$42,961
BLM - Utah	2	\$38,000
BLM - Wyoming	1	\$20,000
BIFA/ USDA	1	\$457,914
NIH	4	\$833,819
NSF	9	\$2,327,435
US Air Force	1	\$347,500
US Army Dugway	5	\$559,313
US Forest Service	3	\$82,723
USDA	1	\$8,078
USDA Forest Service	6	\$106,039
USDA - NIFA	1	\$882,984
<i>Total</i>	36	\$5,833,266
Federal Subcontract Sponsors		
Boston U (NIH)	1	\$22,856
Florida State U (NIH)	1	\$111,905
Oklahoma U (NSF)	1	\$139,104
Penn State U (NSF)	2	\$37,992
U of U	2	\$22,236
U of Colorado (NSF)	1	\$38,915
UC Davis (USDA – NIFA)	1	\$25,000
Utah State (NSF)	1	\$210,866
<i>Total</i>	10	\$608,874
State Sponsors		
UDWR	3	\$242,154
URMCC	1	\$65,000
UT Department of Ag.	1	\$15,133
Wasatch Conservation District	1	\$14,000
<i>Total</i>	6	\$336,287
Private Sponsors		
Alpine School District	1	\$24,000
Basic American Foods	1	\$50,000
Chulalongkorn U/Thailand Research	1	\$3,000
Cotton Inc.	2	\$80,000
E-excell International	1	\$50,000
FAMRI	2	\$108,500
LDS Welfare	2	\$320,000
March of Dimes	1	\$41,771
NORAD	1	\$1,800
Reay Englund Law, Inc.	1	\$33,000
Solutions BioMed	4	\$45,000
U of Colorado	1	\$18,000
US Track & Field	2	\$14,000
<i>Total</i>	20	\$789,071

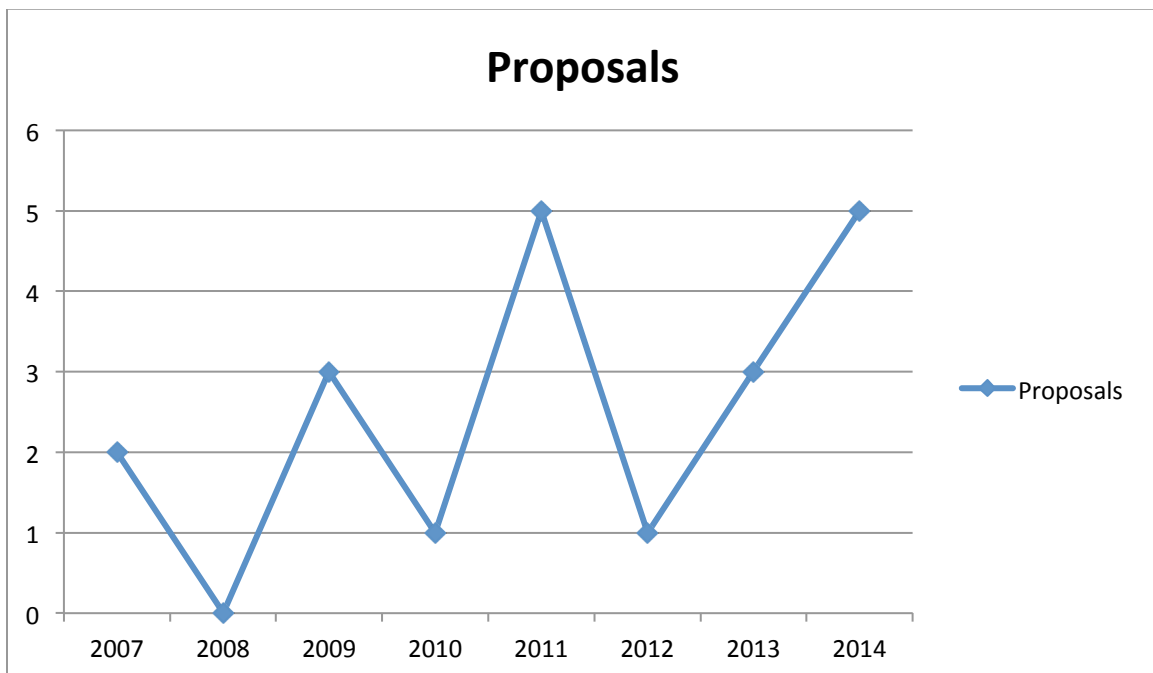


Marriott School of Management

Summary of Sponsored Research (Grants & Contracts)

Department	# of Faculty Submitting	# of Proposals Submitted	# of Awards	Dollars Awarded
School of Accountancy	0	0	0	\$0
Aerospace Studies	0	0	0	\$0
Finance & Managerial Economics	0	0	0	\$0
Global Management Center	2	1	1	\$269,900
Information Systems	3	2	1	\$196,228
Marketing & Global Supply Chain	0	0	0	\$0
Military Science	0	0	0	\$0
Organizational Leadership-Strategy	2	2	2	\$110,000
Romney Institute of Public Management	0	0	1	\$60,148
Recreational Management & Youth Leadership	0	0	0	\$0
Totals:	7	5	5	\$636,276

Proposal Submission Activity



External Research Funding (All Sources)

Year	Grants/Contracts		Total
	Federal/Federal Subcontracts	State/Private	
2005	\$370,850	\$0	\$370,850
2006	\$343,000	\$0	\$343,000
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



Marriot School of Management 2014 Awards

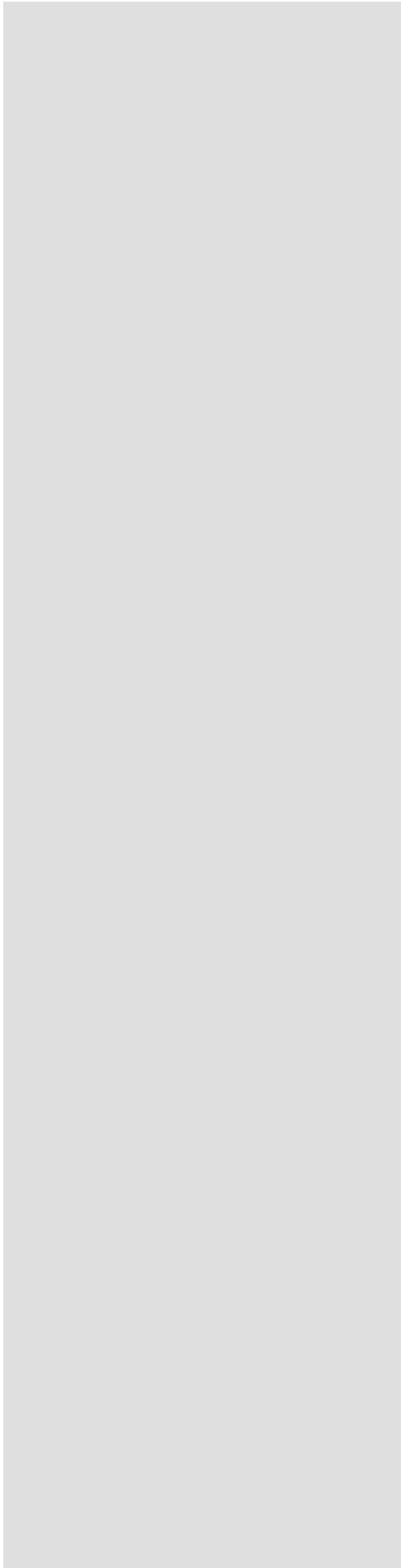
<u>PI</u>	<u>Co-PI</u>	<u>Sponsor</u>	<u>Title</u>	<u>Beg Date</u>	<u>End Date</u>	<u>Account</u>	<u>Amount</u>	<u>Type</u>
Global Management Center								
Money, Bruce		DoED	BYU Center for International Business	10/1/2014	9/30/2015	R0132023	\$134,950	1
Wood, Jon	w/ Money, Bruce	DoED	BYU Center for International Business	10/1/2014	9/30/2015	R0132023	\$134,950	1
Information Systems								
Anderson, Bonnie		NSF	The Force of Habit: Using MRI to Explain User's Habituation to Security Warnings	9/1/2014	8/31/2016	R0112267	\$98,114	1
Vance, Anthony	w/ Anderson, Bonnie	NSF	The Force of Habit: Using MRI to Explain User's Habituation to Security Warnings	9/1/2014	8/31/2016	R0112267	\$98,114	1
Organized Leadership Strategy								
Furr, Nathan		Kauffman Fndtn.	Research in Entrepreneurship	8/1/2014	9/30/2017	R0502204	\$35,000	4
Furr, Nathan		Sorenson Foundation	Innovative Leadership Project	6/1/2014	12/31/2015	R0502200	\$75,000	4
Romney Institute of Public Management								
Agle, Brad	w/ Warnick, Gregg	NSF	Foundations of Social and Ethnical Responsibility Among Undergraduate Engineering Students	5/15/2015	4/30/2020	R0112271	\$60,148	1

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

Department Totals	
School of Accountancy	\$0
Aerospace Studies	\$0
Finance & Managerial Economics	\$0
Global Management Center	\$269,900
Information Systems	\$196,228
Marketing & Global Supply Chain	\$0
Military Science	\$0
Organizational Leadership-Strategy	\$110,000
Romney Institute of Public Management	\$60,148
Recreational Management & Youth Leadership	\$0
College Total:	\$636,276

Marriot School of Management Source Breakdown of Grants and Contracts

Sponsor	Number Awarded	Total Amount
Federal		
DoED	1	\$269,900
NSF	2	\$256,376
<i>Total</i>	3	\$526,276
Subcontracts		
None		
<i>Total</i>		
State		
None		
<i>Total</i>		
Private		
Kauffman Foundation	1	\$35,000
Sorenson Foundation	1	\$75,000
<i>Total</i>	2	\$110,000

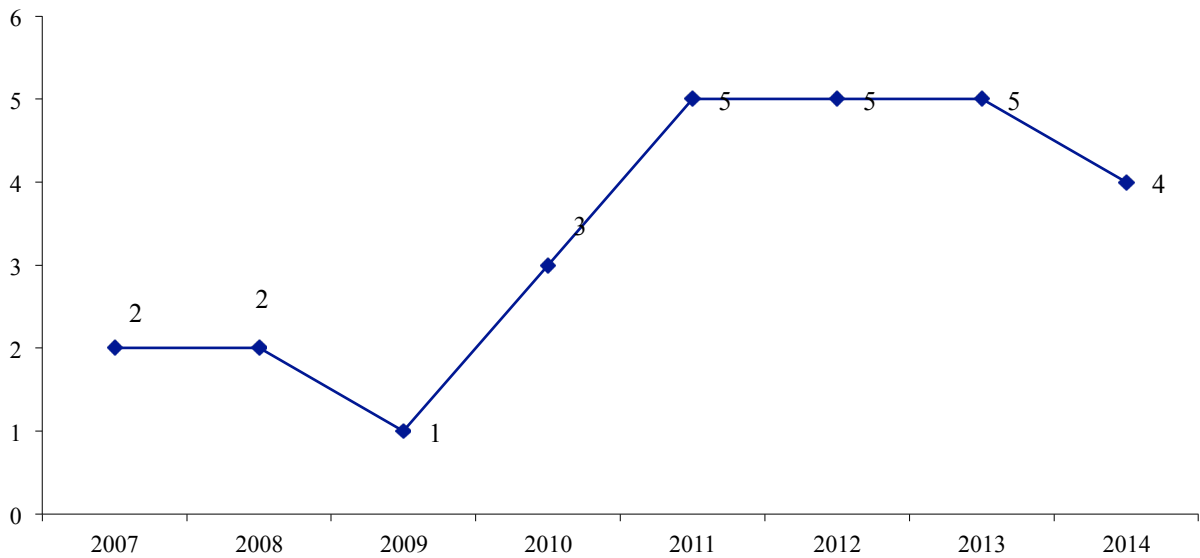


College of Nursing

Summary of Sponsored Research (Grants & Contracts)

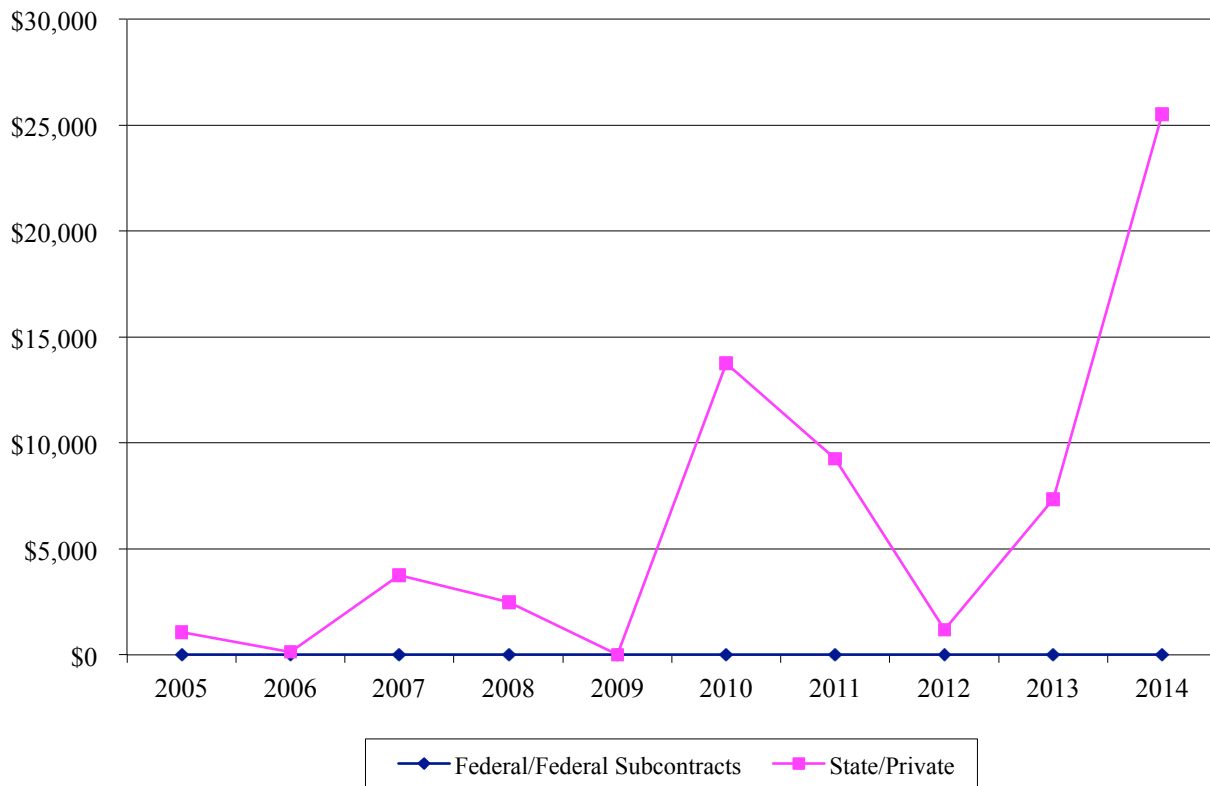
Department	# of Faculty Submitting	# of Proposals Submitted	# of Awards	Dollars Awarded
Nursing	5	4	2	\$25,500
Totals:	5	4	2	\$25,500

Proposal Submission Activity



External Research Funding (All Sources)

Year	Grants/Contracts		Total
	Federal/Federal Subcontracts	State/Private	
2005	\$0	\$1,080	\$1,080
2006	\$0	\$120	\$120
2007	\$0	\$3,750	\$3,750
2008	\$0	\$2,500	\$2,500
2009	\$0	\$0	\$0
2010	\$0	\$13,750	\$13,750
2011	\$0	\$9,256	\$9,256
2012	\$0	\$1,200	\$1,200
2013	\$0	\$7,350	\$7,350
2014	\$0	\$25,500	\$25,500



Nursing 2014 Awards

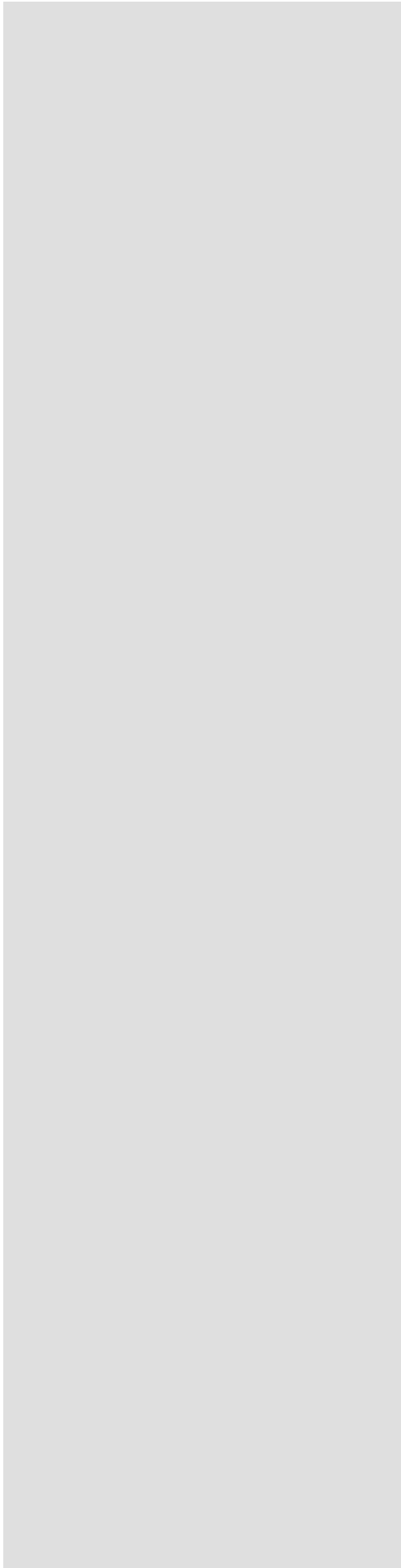
<u>PI</u>	<u>Co-PI</u>	<u>Sponsor</u>	<u>Title</u>	<u>Beg Date</u>	<u>End Date</u>	<u>Account</u>	<u>Amount</u>	<u>Type</u>
Nursing								
Valentine, Julie		Utah Commission on Criminal and Juvenile Justice	Examine How the Advancement in DNA Analysis Methods Impact Evidence Collection and Forensic Nursing Practice	7/1/2014	12/31/2015	R0402253	\$25,000	3
Mabey, Linda		Sigma Theta Tau	Sexual Assault of Women with Self-disclosed Mental Illness	2/25/2014	8/30/2014	R0502198	\$250	4
Valentine, Julie	w/Mabey, Linda	Sigma Theta Tau	Sexual Assault of Women with Self-disclosed Mental Illness	2/25/2014	8/30/2014	R0502198	\$250	4

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

Department Totals	
Nursing	\$25,500
College Total:	\$25,500

Nursing Source Breakdown of Grants and Contracts

Sponsor	Number Awarded	Total Amount
Federal		
None		
<i>Total</i>	<hr/>	
Subcontracts		
None		
<i>Total</i>	<hr/>	
State		
Utah Commission on Criminal and Juvenile Justice	1	\$25,000
<i>Total</i>		<hr/> \$25,000
Private		
Sigma Theta Tau	1	\$500
<i>Total</i>		<hr/> \$500

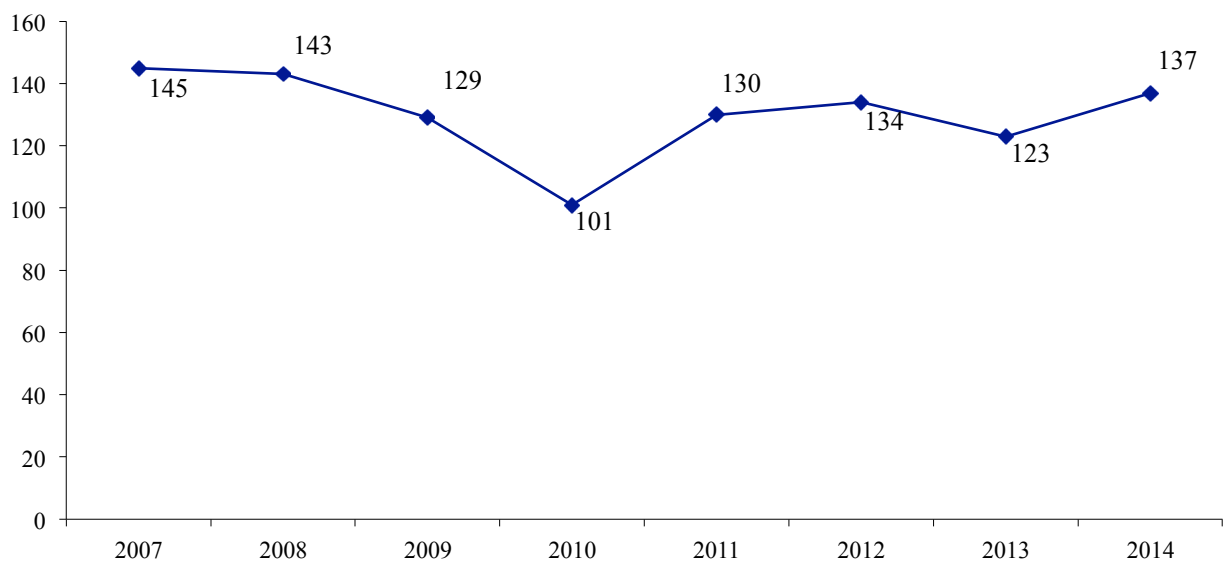


College of Physical & Mathematical Sciences

Summary of Sponsored Research (Grants & Contracts)

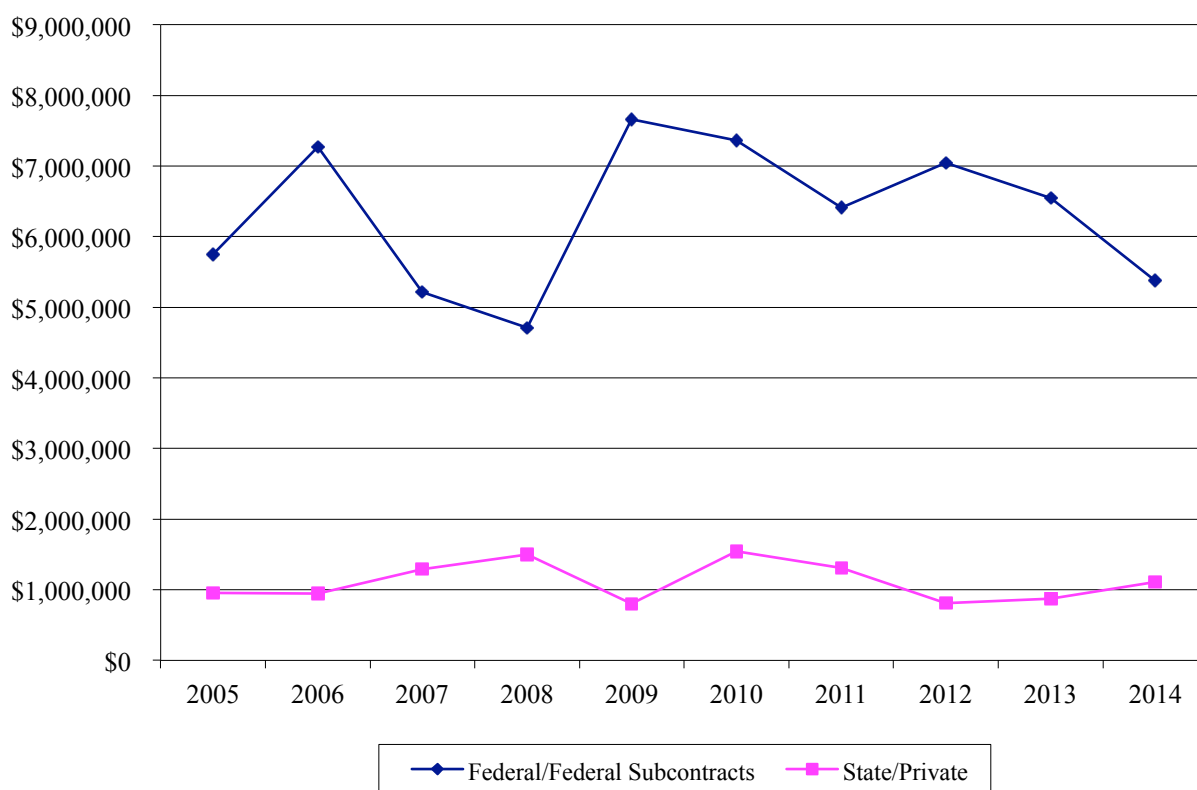
Department	# of Faculty Submitting	# of Proposals Submitted	# of Awards	Dollars Awarded
Chemistry & Biochemistry	27	60	25	\$2,448,523
Computer Science	16	12	10	\$950,651
Earth Science Museum	0	0	0	\$0
Geology	10	22	6	\$484,646
Mathematics	11	12	11	\$277,749
Mathematics Education	4	6	3	\$447,568
Physics & Astronomy	18	22	23	\$1,274,348
Statistics	5	3	3	\$613,053
Totals:	91	137	81	\$6,496,568

Proposal Submission Activity



External Research Funding (All Sources)

Year	Grants/Contracts		Total
	Federal/Federal Subcontracts	State/Private	
2005	\$5,752,653	\$956,651	\$6,709,304
2006	\$7,272,491	\$945,392	\$8,217,883
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



Physical & Mathematical Sciences 2014 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 & Biochemistry								
Austin, Daniel		NSF	Miniaturized Mass Spectrometry Using Lithographically Patterned Electrodes	7/15/2014	6/30/2017	RO112255	\$210,000	1
Dearden, David		NSF	Collision Cross Section Measurements Using Fourier Transform Ion Cyclotron Resonance Techniques	7/1/2014	6/30/2017	RO112248	\$450,189	1
Willardson, Barry		NIH	Mechanisms of Assembly of Photoreceptor G Protein Complexes	5/3/1999	3/31/2015	RO102053	\$367,500	1
Woolley, Adam		NIH	Integrated microfluidic devices for preterm birth biomarker measurement	4/1/2006	5/31/2015	RO102023	\$288,745	1
Bush, Michael		IDA (DOD)	Task 6: Metaphorical Language Sample Collection - English, Spanish, Russian * Farsi	8/1/2014	8/22/2014	RO302564	\$10,872	2
Buskirk, Allen		Yale (NIH)	Mechanisms of Ribosomal Reactions: Peptide bond Formation and mRNA Cleavage	4/1/2012	1/31/2015	RO302455	\$60,795	2
Buskirk, Allen		Yale Univ (NIH)	Mechanisms of Ribosomal Reactions: Peptid Bond Formation, Peptide release and mRNA cleavage	4/1/2012	1/31/2015	RO302455	\$6,755	2
Harrison, Roger		WAESO	Synthesis and Characterization for Molecular Separations	9/1/2014	8/31/2015	RO302581	\$378	2
Price, John		CSU (NIH)	Translational Mechanisms of Mitochondrial Protein Synthesis	9/1/2014	12/31/2014	RO302569	\$15,178	2
Price, Joshua		Johns Hopkins (NIH)	The Mechanism of Pausing and Restarting Translation in Bacteria	6/20/2014	5/31/2015	RO302588	\$50,000	2
Savage, Paul		Scripps (NIH)	Molecular Pharmacology of NKT Cells Agonists	6/1/2013	5/31/2015	RO302565	\$120,540	2
Savage, Paul		Hydromer, Inc. (NIH)	Development of a Novel Antimicrobial Foley Catheter to Prevent CAUTIs	8/1/2014	7/31/2015	RO302578	\$75,000	2
Ess, Daniel		OED (State of UT)	Catalytic Conversion of Carbon Dioxide to Carbon Monoxide and Methanol	3/1/2014	2/28/2015	RO402237	\$128,333	3
Hansen, Jaron		USU (OED State of UT)	Computer Modeling of Winter Ozone Formation in the Uintah Basin	4/1/2014	3/31/2015	RO402238	\$10,000	3
Hansen, Jaron		Utah State Univ (Utah Dept of Env Qty - Div of Air Qty)	Adapting the SAPRC Chemistry Mechanism for Low Temperature Conditions	7/15/2014	9/30/2015	RO402254	\$25,000	3

Andersen, Joshua		Pardee Foundation	Non-Histone Lysine Acetylation in Cancer: Targeting the Pro-Survival Signaling Hub of 14-3-3z	10/1/2014	10/31/2015	RO502202	\$139,886	4
Ess, Daniel		Chevron/Phillips	Optimization of Homogeneous Alpha Olefin Catalysts	12/26/2013	12/26/2015	RO602446	\$35,000	4
Lee, Milton		Waters Technologies Corporation	Thermal Gradient Gas Chromatography	9/2/2013	1/31/2015	RO602424	\$150,000	4
Linford, Matthew		Moxtek Inc	Moxtek Research Support	4/29/2013	4/30/2014	RO602413	\$35,735	4
Linford, Matthew		Moxtek Inc	Moxtek Research Support	4/29/2013	8/31/2014	RO602413	\$40,617	4
Linford, Matthew		Moxtek, Inc	Moxtek Research Support	4/29/2013	12/31/2014	RO602413	\$40,617	4
Linford, Matthew	w/ Lunt, Barry	Millenniata Inc.	Manufacturability of Permanent Solid-State Memory	9/1/2014	4/30/2015	RO602456	\$13,333	4
Prince, John		Tolero Pharmaceuticals	Mouse Hecpudin Mass Spectrometry Assay Developmnet	8/1/2014	10/31/2014	RO602455	\$10,000	4
Savage, Paul		N8 Medical	N8 Medical	1/1/2010	12/31/2015	RO802005	\$12,500	4
Woodfield, Brian		Cosmas, Inc.	Fisher-Tropsch Catalyst Preparation Methods, Characerizations, and Testing	4/7/2014	6/15/2015	RO602459	\$26,550	4
Woolley, Adam		SRC	DNA-templated Formation of Conductive Metal-semiconductor with sub 5-nm Linewidths	10/1/2013	9/30/2015	RO602429	\$125,000	4
Computer Science								
Goodrich, Michael	w/ McLain, Timothy	NSF	I/UCRC: Center for Unmanned Aircraft Systems	3/1/2012	2/18/2017	RO112200	\$39,985	1
Goodrich, Michael	w/McLain, Tim	NSF	I/UCRC: Center for Unmanned Aircraft Systems	3/1/2012	2/28/2017	RO112200	\$16,000	1
Jones, Michael	w/ Olsen, Dan	NSF	CHS: Medium: Design Tools for Physical Computing Objects	8/1/2014	7/31/2018	RO112262	\$90,868	1
Olsen, Dan		NSF	CHS: Medium: Design Tools for Physical Computing Objects	8/1/2014	7/31/2018	RO112262	\$90,869	1
Ringger, Eric		NSF	III: Medium: Collaborative Research: Closing the User-Model Loop for Understanding Topics in Large Document Collections	8/1/2014	7/31/2018	RO112264	\$133,588	1
Seppi, Kevin	w/ Olsen, Dan	NSF	CHS: Medium: Design Tools for Physical Computing Objects	8/1/2014	7/31/2018	RO112262	\$90,869	1
Seppi, Kevin	w/ Ringger, Eric	NSF	III: Medium: Collaborative Research: Closing the User-Model Loop for Understanding Topics in Large	8/1/2014	7/31/2018	RO112264	\$133,588	1

			Document Collections					
Ventura, Dan		NSF	Graduate Research Fellowship Program	6/1/2012	6/30/2015	RO112210	\$33,000	1
Goodrich, Michael		U of Central Florida (ARL)	RCTA - H8 Dynamics of HR Military Teams & Organizations	7/1/2010	5/30/2014	RO302358	\$20,450	2
Goodrich, Michael		Central Florida (ARL)	RCTA-H8 Dynamics of HR Military Teams & Organizations	7/1/2010	4/16/2014	RO302358	\$81,000	2
Goodrich, Michael		Carnegie Mellon (ONR)	Cognitively Compliant Command for Multirobot Teams	7/1/2009	12/31/2014	RO302319	\$125,000	2
Goodrich, Michael		SIFT (Air Force)	THREADS: for Teams of Humans & Robots, Evaluation Architecture Design & Systemization	8/4/2014	2/3/2015	RO302587	\$22,379	2
Goodrich, Michael		UCF (ARL)	RCTA - H8 Dynamics of HR Military Teams & Organizations	7/1/2010	4/16/2015	RO302358	\$14,917	2
Goodrich, Michael	w/ McLain, Timothy	UtopiaCompression (Air Force)	C-UAS I/UCRC Membership Dues	11/1/2014	10/31/2015	RO302584		2
Mercer, Eric	w/ Goodrich, Michael	SIFT (Air Force)	THREADS: for Teams of Humans & Robots, Evaluation Architecture Design & Systemization	8/4/2014	2/3/2015	RO302587	\$22,378	2
Seppi, Kevin		UtopiaCompression	Enhancing Cooperative Control with Hierarchical Intelligence and Learning - Phase II	11/1/2014	10/31/2015	RO502583	\$30,000	2
Giraud-Carrier, Christophe		Applied Machine Learning, LLC	Applying Machine Learning to Twitter	9/1/2014	12/31/2014	RO602457	\$5,760	4
Geology								
Bickmore, Barry		NSF	The Valence Multipole Model: Linking Structure and Reactivity	9/1/2014	8/31/2017	RO112261	\$301,242	1
Kowalis, Bart		USGS	Geologic Mapping of the Ice Cave Peak 7.5' quad, Utah	7/1/2014	6/30/2015	RO202421	\$21,834	1
Radibaugh, Jani		NASA	Climate and Organic Inventory from Dunes on Titan	6/6/2012	6/5/2015	RO162014	\$109,182	1
Radebaugh, Jani		ASU (NASA)	Research Opportunities in Space and Earth Sciences-2013 (ROSES-2013)	9/15/2014	9/14/2015	RO302601	\$6,273	2
Carling, Greg		Utah Geological Survey	Groundwater Resources in Goshen Valley, Utah: Assessing Water Quality Impacts from Agriculture, Legacy Mining, Playa Soils, Septic Tanks and Geothermal Waters	9/1/2014	8/31/2015	RO402248	\$24,472	3
Morris, Thomas		Utah Geological Survey	Reservoir Characterization and Sequence Stratigraphy of the Preuss Sandstone	9/1/2014	8/31/2015	RO402247	\$21,643	3
Mathematics								

Bakker, Lennard	w/ Fisher, Todd	NSF	Rocky Mountain Cynamical Systems Conference	4/1/2015	3/31/2016	Ro112272	\$8,000	1
Barrus, Michael	w/Chahal, Jasbir	NSF	NSF/CBMS Regional Conference in the Mathematical Sciences: Combinatorial Zeta and L-functions	1/15/2014	10/31/2014	Ro112244	\$18,626	1
Cardon, David	w/Jenkins, Paul	NSA	Automorphic Forms Workshop 2014	1/31/2014	1/31/215	R202411	\$4,304	1
Cardon, David	w/ Jenkins, Paul	NSF	Automorphic Forms Workshop 2014	3/15/2014	2/28/2015	Ro112246	\$7,173	1
Chahal, Jasbir		NSF	NSF/CBMS Regional Conference in the Mathematical Sciences: Combinatorial Zeta and L-functions	1/15/2014	10/31/2014	Ro112244	\$18,627	1
Doud, Darrin	w/Jenkins, Paul	NSA	Automorphic Forms Workshop 2014	1/31/2014	1/31/215	R202411	\$4,304	1
Doud, Darrin	w/ Jenkins, Paul	NSF	Automorphic Forms Workshop 2014	3/15/2014	2/28/2015	Ro112246	\$7,173	1
Fisher, Todd		NSF	Rocky Mountain Cynamical Systems Conference	4/1/2015	3/31/2016	Ro112272	\$8,000	1
Jenkins, Paul		NSA	Automorphic Forms Workshop 2014	1/31/2014	1/31/215	R202411	\$4,304	1
Jenkins, Paul		NSF	Automorphic Forms Workshop 2014	3/15/2014	2/28/2015	Ro112246	\$7,174	1
Lu, Kening		NSF	Topics in Infinite-Dimensional and Stochastic Dynamical Systems	7/15/2014	6/30/2017	Ro112256	\$42,708	1
Purell, Jessica		NSF	CAREER: Hyperbolic Geometry of Knots and Links	6/1/2013	5/31/2018	Ro112231	\$101,070	1
Webb, Benjamin	w/ Fisher, Todd	NSF	Rocky Mountain Cynamical Systems Conference	4/1/2015	3/31/2016	Ro112272	\$8,000	1
Forcade, Rodney	w/Hart, Gus	Duke (DOD-ONR)	Topological Decompositions and Spectral Sampling Algorithms for Element Substitution in Critical Technologies	7/1/2013	6/30/2014	Ro302530	\$3,286	2
Conner, Gregory		Simons Foundation	Wild Topology, Attractors, and Algebraic Invariants	9/1/2012	8/31/2017	Ro502163	\$7,000	4
Fisher, Todd		Simons Foundation	Entropy for Smooth Dynamical Systems	9/1/2012	8/31/2017	Ro502162	\$7,000	4
Jenkins, Paul		Simons Foundation	Weakly Holomorphic Modular Forms	9/1/2013	8/31/2018	Ro502182	\$7,000	4
Nielsen, Pace		Simons Foundation	Computational Number Theory: Covering Systems, Probability, and Sieves	9/1/2014	8/31/2019	Ro502199	\$7,000	4
Swenson, Eric		Simons Foundation	Group Boundary Dynamics	7/1/2011	8/31/2014	Ro502143	\$7,000	4

Mathematics Education								
Leatham, Keith		NSF	Leveraging MIPOs: Developing a Theory of Productive Use of Student Math. Thinking	10/1/2012	9/30/2016	RO112223	\$137,120	1
Leatham, Keith		NSF	Leveraging MIPOs: Developing a Theory of Productive Use of Student Mathematical Thinking	10/1/2012	9/30/2016	RO112223	\$85,915	1
Perterson, Blake	w/ Leatham, Keith	NSF	Leveraging MIPOs: Developing a Theory of Productive Use of Student Math. Thinking	10/1/2012	9/30/2016	RO112223	\$137,119	1
Peterson, Blake	w/ Leatham, Keith	NSF	Leveraging MIPOs: Developing a Theory of Productive Use of Student Mathematical Thinking	10/1/2012	9/30/2016	RO112223	\$85,914	1
Teuscher, Dawn		NCTM	Student Affiliate Grant	8/7/2014	2/28/2015	RO502201	\$1,500	4
Physics & Astronomy								
Bergeson, Scott		AFOSR	Reaching Higher Gamma in Ultra-cold Neutral Plasmas through Disorder-induced Heating Control	6/1/2012	5/31/2015	RO202364	\$106,306	1
Bergeson, Scott		NSF	Laser Cooling Ions in An Ultracold Neutral Plasma	9/15/2014	8/31/2016	RO112270	\$70,020	1
Davis, Robert		NSF	REU Supplement - CBET-1160289 - Carbon Nanotube Templated Battery Electrodes	1/1/2014	5/21/2015	RO112211	\$12,000	1
Davis, Robert		NSF	I-Corps: High Performance Lithographically Defined Filters	7/1/2014	12/31/2014	RO112252	\$25,000	1
Durfee, Dallin		NSF	Matterwave Interferometry with Ions	8/15/2012	7/31/2015	RO112217	\$77,807	1
Gee, Kent		ONR	Detailed Characterization of the Near-Field Noise Environment from a Full-Scale Jet	8/1/2011	7/31/2014	RO202349	\$30,250	1
Gee, Kent		ONR	Wave-Pack Based characterization of high performance military aircraft noise	7/1/2014	6/30/2016	RO202423	\$48,791	1
Hirschmann, Eric	w/ Neilsen, David	NSF	Loud, Bright, and Hot Binary Mergers	9/1/2013	8/31/2016	RO112239	\$58,829	1
Neilsen, David		NSF	Loud, Bright, and Hot Binary Mergers	9/1/2013	8/31/2016	RO112239	\$58,830	1
Neilsen, Tracianne	w/Gee, Kent	ONR	Detailed Characterization of the Near-Field Noise Environment from a Full-Scale Jet	8/1/2011	7/31/2014	RO202349	\$30,250	1

Neilsen, Tracianne	w/ Gee, Kent	ONR	Wave-Pack Based characterization of high performance military aircraft noise	7/1/2014	6/30/2016	Ro202423	\$48,791	1
Turley, R. Steven		NSF	Collaborative Research: Enhancing Undergraduate STEM Education: Workshops and Learning Communities for Physics and Astronomy Faculty	9/1/2014	8/31/2019	Ro112268	\$46,309	1
Vanfleet, Richard	w/Davis, Robert	NSF	I-Corps: High Performance Lithographically Defined Filters	7/1/2014	12/31/2014	Ro112252	\$25,000	1
Colton, John		ASU (NSF)	WAESO Student Opportunities	5/1/2014	8/31/2014	Ro302566	\$378	2
Forcade, Rodney	w/ Hart, Gus	Duke (DOD-ONR)	Topological Decompositions and Spectral Sampling Algorithms for Element Substitution in Critical Technologies	7/1/2013	6/30/2015	Ro302530	\$70,950	2
Gee, Kent		Blue Ridge Research and Consulting (Air Force)	Acoustic Field and Source Measurement Support for the Joint Strike Fighter Program	8/27/2013	5/30/2014	Ro302528	\$29,996	2
Gee, Kent		Blue Ridge Research and Consulting (NASA)	Analytical Extensions to Rocket Plume Noise Prediction Models Using Rocket Plume Acoustics Measurements	8/5/2013	9/30/2014	Ro302529	\$8,326	2
Hart, Gus		Duke (DOD-ONR)	Topological Decompositions and Spectral Sampling Algorithms for Element Substitution in Critical Technologies	7/1/2013	6/30/2014	Ro302530	\$3,287	2
Hart, Gus		Duke (DOD-ONR)	Topological Decompositions and Spectral Sampling Algorithms for Element Substitution in Critical Technologies	7/1/2013	6/30/2015	Ro302530	\$70,950	2
Hirschmann, Eric	w/ Neilsen, David	Indiana Univ (NASA)	Fully Relativistic Simulations of Black Holes and Neutron Stars with Global Magnetic Fields	3/1/2013	2/29/2016	Ro302507	\$16,253	2
Leishman, Timothy		Michigan State Univ (NIH)	Gender Differences and Speech Accommodation in Occupational Settings	4/1/2014	3/31/2018	Ro302551	\$83,661	2
Migenes, Victor	w/ Colton, John	ASU (NSF)	WAESO Student Opportunities	5/1/2014	8/31/2014	Ro302566	\$378	2
Neilsen, David		Indiana Univ (NASA)	Fully Relativistic Simulations of Black Holes and Neutron Stars with Global Magnetic Fields	3/1/2013	2/29/2016	Ro302507	\$16,254	2
Neilsen, David		NASA	Simulations of Black Holes and Neutron Stars with Global Magnetic Fields	3/1/2013	2/29/2016	Ro302507	\$17,565	2
Neilsen, Tracianne	w/ Gee, Kent	Blue Ridge Research and Consulting (Air	Acoustic Field and Source Measurement Support for the Joint	8/27/2013	5/30/2014	Ro302528	\$29,995	2

		Force)	Strike Fighter Program					
Neilsen, Tracianne	w/ Gee, Kent	Blue Ridge Research and Consulting (NASA)	Analytical Extensions to Rocket Plume Noise Prediction Models Using Rocket Plume Acoustics Measurements	8/5/2013	9/30/2014	Ro302529	\$8,326	2
Peatross, Justin		UNL (Air Force)	Relativistic Optics-Interactions of Electrons with Laser Light at Highly Relativistic Intensities	9/30/2014	9/29/2015	Ro302602	\$8,000	2
Rees, Lawrence		U. of Michigan (US Homeland Security)	New Detectors, Electronics, and Algorithms for Fast Neutron Spectroscopy in Scalable Measurement Platform	9/1/2012	8/31/2014	Ro302491	\$30,900	2
Thomas, Derek	w/ Gee, Kent	Blue Ridge Research and Consulting (NASA)	Analytical Extensions to Rocket Plume Noise Prediction Models Using Rocket Plume Acoustics Measurements	8/5/2013	9/30/2014	Ro302529	\$8,326	2
Colton, John		OED (State of UT)	Materials Study for Future Layered Photovoltaics Using Protein Enclosed Nanocrustals; Stephen Erickson, Student Investigator	3/1/2014	2/28/2015	Ro402236	\$15,000	3
Davis, Robert	w/ Vanfleet, Richard	GE Global Research	BYU GEGR Neural Probe Collaboration	6/2/2014	12/31/2014	Ro602448	\$25,000	4
Davis, Robert	w/ Vanfleet, Richard	Moxtek, Inc	Project 16 - X-ray Windows and Filters	6/1/2014	5/31/2015	Ro602313	\$41,250	4
Davis, Robert	w/ Lunt, Barry	Millenniata Inc.	Manufacturability of Permanent Solid-State Memory	9/1/2014	4/30/2015	Ro602456	\$13,333	4
Leishman, Timothy	w/Sommerfeldt, Scott	Caterpillar, Inc	Acoustic Modeling of Resonators and Development of a Multi-Driver Volume Velocity Source	1/1/2014	12/31/2014	Ro602437	\$35,908	4
Sommerfeldt, Scott		Caterpillar, Inc	Acoustic Modeling of Resonators and Development of a Multi-Driver Volume Velocity Source	1/1/2014	12/31/2014	Ro602437	\$35,909	4
Vanfleet, Richard		GE Global Research	BYU GEGR Neural Probe Collaboration	6/2/2014	12/31/2014	Ro602448	\$25,000	4
Vanfleet, Richard		Moxtek, Inc	Project 16 - X-ray Windows and Filters	6/1/2014	5/31/2015	Ro602313	\$41,250	4
Statistics								
Berrett, Candace	w/ Heaton, Matthew	NSF	Collaborative Research: Scalable Statistical Validation and Uncertainty Quantification for Large Spatio-Temporal Datasets	8/1/2014	7/31/2017	Ro112269	\$22,333	1

Dahl, David		NIH	Nonparametric Bayesian Approaches to Modeling Protein Structure	7/1/2012	4/30/2015	RO102061	\$350,928	1
Heaton, Matthew		NSF	Collaborative Research: Scalable Statistical Validation and Uncertainty Quantification for Large Spatio-Temporal Datasets	8/1/2014	7/31/2017	RO112269	\$22,334	1
Reese, Shane	w/ Heaton, Matthew	NSF	Collaborative Research: Scalable Statistical Validation and Uncertainty Quantification for Large Spatio-Temporal Datasets	8/1/2014	7/31/2017	RO112269	\$22,333	1
Heaton, Matthew		Vanasse Hangen Brustlin Inc (FHWA)	Focus Crash Types and Risk Factors	8/14/2014	6/15/2016	RO302574	\$149,222	2
Nielsen, Perpetua	w/Bowen, Donna Lee	TAMU (DOD)	Household Formation Systems, Marriage Markets and Societal Stability/Resilience	9/1/2014	8/31/2015	RO302575	\$45,903	2

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

Department Totals	
Chemistry & Biochemistry	\$2,448,523
Computer Science	\$950,651
Earth Science Museum	\$0
Geology	\$484,646
Mathematics	\$277,749
Mathematics Education	\$447,568
Physics & Astronomy	\$1,274,348
Statistics	\$613,053
College Total:	\$6,496,568

Physical & Mathematical Sciences

Source Breakdown of Grants and Contracts

Sponsor	No. Awarded	Amount
Federal Sponsors		
AFOSR	1	\$106,306
NASA	1	\$109,182
NIH	3	\$1,007,173
NSA	1	\$12,912
NSF	20	\$2,703,612
ONR	2	\$79,041
USGS	1	\$21,834
<i>Total</i>		\$4,119,101
Federal Subcontract Sponsors		
ASU (NASA)	1	\$6,273
ASU (NSF)	1	\$756
Blue Ridge Consulting (Air Force)	1	\$59,991
Blue Ridge Consulting (NASA)	1	\$24,978
Carnegie Mellon (ONR)	1	\$125,000
Central Florida (ARL)	3	116,367
CSU (NIH)	1	\$15,178
Duke (DOD- ONR)	2	\$148,473
Hydromer, Inc. (NIH)	1	\$75,000
IDA (DOD)	1	\$10,872
Indiana U (NASA)	1	\$32,507
Johns Hopkins (NIH)	1	\$50,000
Michigan State (NIH)	1	\$83,661
NASA	1	\$17,565
Scripps (NIH)	1	\$120,540
SIFT (Air Force)	1	\$44,757
TAMU (DOD)	1	\$45,903
U of Michigan (US Homeland Security)	1	\$30,900
UNL (Air Force)	1	\$8,000
Utopia Compression	1	\$30,000
Vanasse Hangen Brustlin Inc (FHWA)	1	\$149,222
WAESO	1	\$378
Yale (NIH)	2	\$67,550
<i>Total</i>	26	\$1,263,871
State Sponsors		
OED (UT)	2	\$143,333
USU (OED, UT)	1	\$10,000
USU (UT Dept of Env Qty)	1	\$25,000
Utah Geological Survey	2	\$46,115
<i>Total</i>	6	\$224,448

Private Sponsors

Applied Machine Learning, LLC	1	\$5,760
Caterpillar, Inc.	1	\$71,817
Chevron/ Phillips	1	\$35,000
Cosmas, Inc.	1	\$26,550
GE Global Research	1	\$50,000
Millenniata Inc.	1	\$26,666
Moxtek, Inc.	4	\$199,469
N8 Medical	1	\$12,500
NCTM	1	\$1,500
Pardee Foundation	1	\$139,886
Simons Foundation	5	\$35,000
SRC	1	\$125,000
Tolero Pharmaceuticals	1	\$10,000
Waters Technologies Corporation	1	\$150,000
<i>Total</i>	20	\$889,148

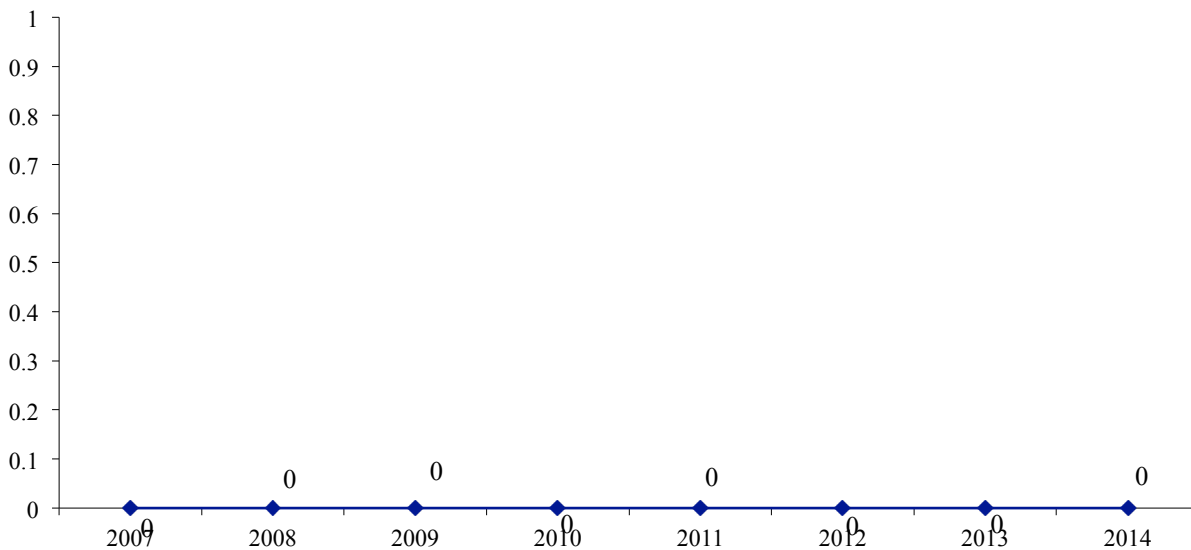


Religious Education

Summary of Sponsored Research (Grants & Contracts)

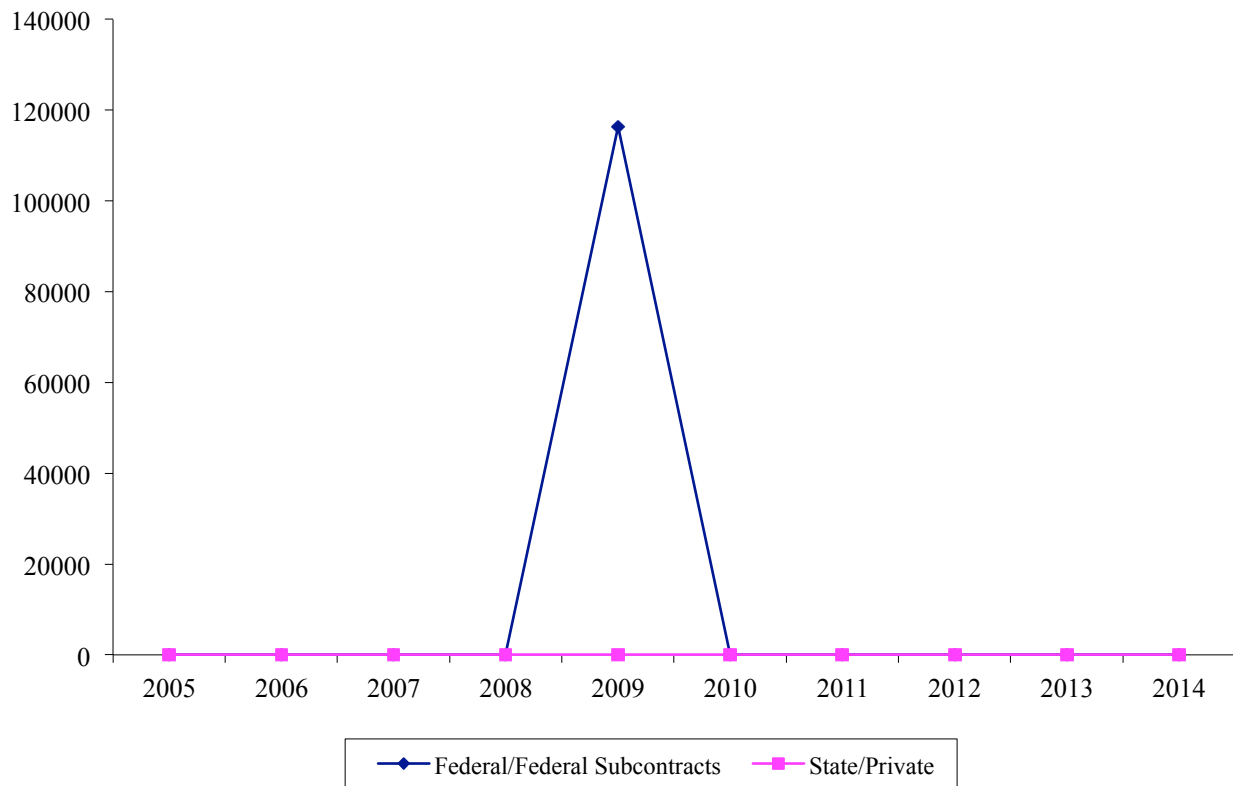
Department	# of Faculty Submitting	# of Proposals Submitted	# of Awards	Dollars Awarded
Ancient Scripture	0	0	0	\$0
Church History & Doctrine	0	0	0	\$0
TOTALS	0	0	0	\$0

Proposal Submission Activity



External Research Funding (All Sources)

Year	Grants/Contracts		Total
	Federal/Federal Subcontracts	State/Private	
2005	\$0	\$0	\$0
2006	\$0	\$0	\$0
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



Religious Education 2014 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>							

Department Totals
Ancient Scripture
College Total:

\$0
<hr style="width: 100%;"/>
\$0

Religious Education

Source Breakdown of Grants and Contracts

Sponsor	Number Awarded	Total Amount
Federal		
None		
	<i>Total</i>	
Subcontracts		
None		
	<i>Total</i>	
State		
None		
	<i>Total</i>	
Private		
None		
	<i>Total</i>	

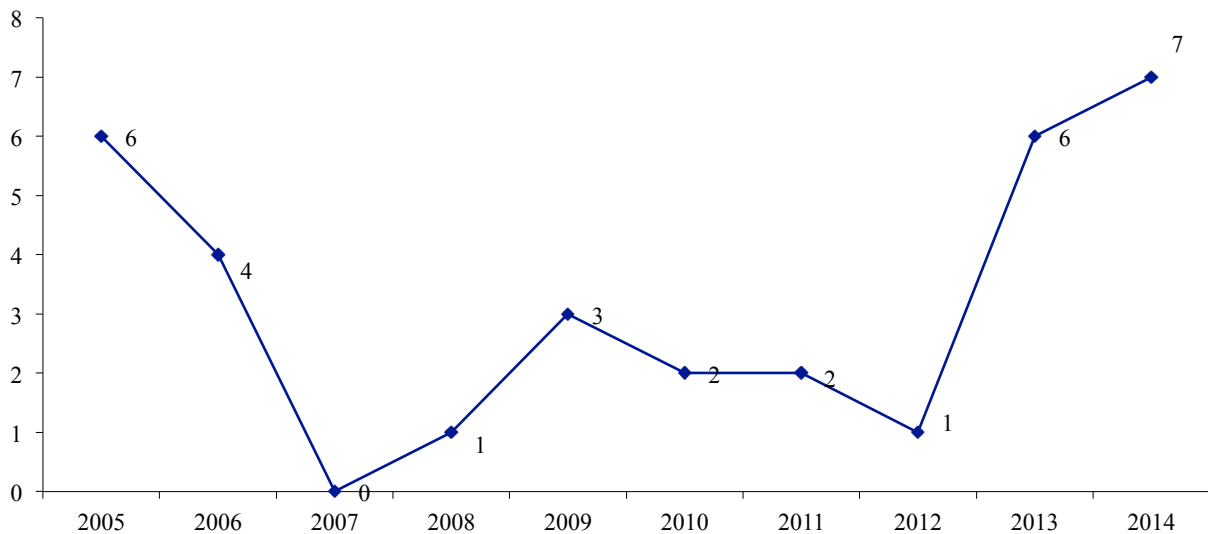


Non-College Units

Summary of Sponsored Research (Grants & Contracts)

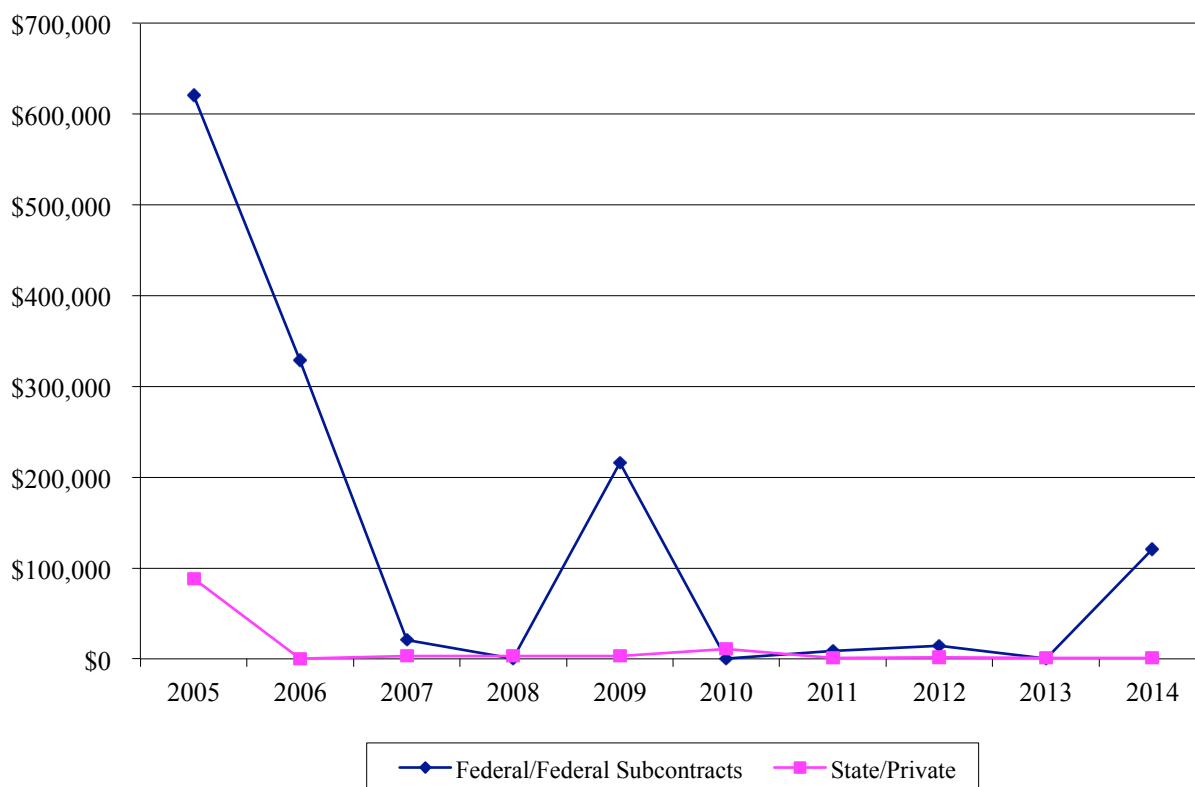
Department	# of Proposals Submitted	# of Awards	Dollars Awarded
Academic Internship	0	0	\$0
Admissions & Records	0	0	\$0
Associate Academic Vice President	0	0	\$0
Campus Life	0	0	\$1
Center for Instructional Design	0	0	\$0
Center for Service and Learning	0	0	\$0
Church Educational System	0	0	\$0
Faculty Center	0	0	\$0
General Education & Honors	0	0	\$0
Harold B. Lee Library	0	0	\$1
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	\$1,066
Physical Facilities	1	1	\$120,750
University Accessibility Center	0	0	\$0
University Computing Services	0	0	\$0
TOTALS	1	7	\$121,816

Proposals Submitted



External Research Funding (All Sources)

Year	Grants/Contracts		Total
	Federal/Federal Subcontracts	State/Private	
2005	\$620,500	\$88,350	\$708,850
2006	\$328,500	\$0	\$328,500
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



Non-College Units 2014 Awards

PI	Co-PI	Sponsor	Title	Beg Date	End Date	Account	Amount	Type
Office of Research and Creative Activities								
Garrett, Sandra		Lost Paws	Pre-Vet	1/1/2007	9/30/2014	Ro602182	\$126	4
Garrett, Sandra		Lost Paws	Pre-Vet	1/1/2012	9/30/2014	Ro602182	\$90	4
Garrett, Sandra		Lost Paws	Vet Practicum	1/1/2007	9/30/2014	Ro602182	\$250	4
Garrett, Sandra		Lost Paws	Vet Practicum	9/30/2014	12/31/2015	Ro602182	\$300	4
Garrett, Sandra		Lost Paws	Vet Practicum	1/1/2007	12/31/2015	Ro602182	\$200	4
Garrett, Sandra		Lost Paws	Vet Preceptorship	1/1/2007	9/30/2014	Ro602182	\$100	4
Physical Facilities								
Smith, Ole		Forest Service	Maintenance Services for Shrub Lab	4/15/2014	3/31/2017	Ro202415	\$120,750	1

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	\$1,066
Physical Facilities	\$121,816
Jacobsen Center	\$0
Media Services	\$0
Technology Transfer	\$0
University Accessibility Center	\$0
University Computing Services	\$0
College Total:	\$121,816

Non-College Units

Source Breakdown of Grants and Contracts

Sponsor	Number Awarded	Total Amount
Federal		
Forest Service	1	\$120,750
<i>Total</i>	1	\$6,000
Subcontracts		
None		
<i>Total</i>		
State		
None		
<i>Total</i>		
Private		
Lost Paws	4	\$1,066
<i>Total</i>	4	\$1,066



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 2009 through December 2009 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 2008 membership and 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 2014 are summarized by the following table.

IRB Protocol Activity 2014

College	New Protocols
McKay School of Education	102
Fulton College of Engineering & Technology	9
Fine Arts & Communications	30
Family Home & Social Sciences	124
HBLL	18
Humanities	52
LSCI	69
LAW	2
Marriott School of Management	38
Nursing	19
Physical & Mathematical Sciences	22
Religious Education	4
Non-College Units	0
TOTALS	489

There were also approximately 500 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 2014 are summarized by the following table.

IACUC Protocol Activity 2014

College	New Approvals	Continuing	Pending
E&T	1	0	0
FHSS	1	4	0
LSCI	23	76	0
P&MS	3	3	0
ORCA	1	2	0
TOTALS	29	85	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 two new projects reviewed by the BioSafety Committee during the 2014 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>
2014	R. Kirk Belnap
2013	Ramona Hopkins
2012	Tom Fletcher
2011	Scott Sommerfeldt
2010	Barry Willardson

Intellectual Properties

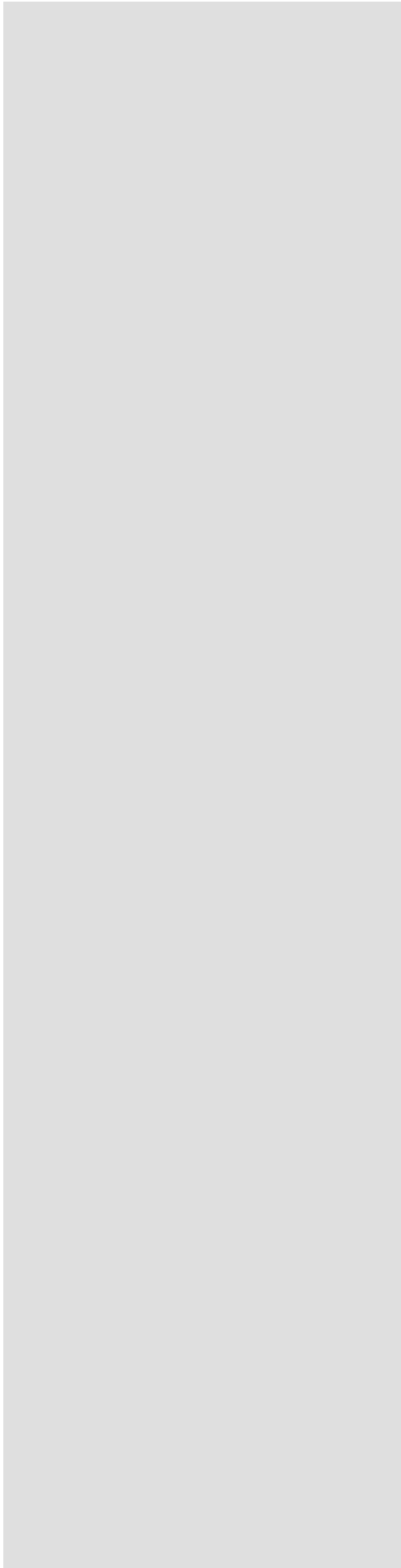
<i>Year</i>	<i>Recipient</i>
2014	Anton E. Bowden
2013	Charles Knutson
2012	Tom Sederberg
2011	Daniel Simmons
2010	Kent Seamons

2014 Mentoring Environment Grant Recipients

The grant proposals are first reviewed at the department and college levels. Following those reviews, a group of faculty representing various disciplines across campus gives a final review where they compare protocols to each other based on how well they incorporate the desired goals and elements of a mentored environment. The awards range in value according to the proposal and are given in January to be worked on throughout the calendar year. Final reports are received from the faculty the next year.

<u>Name</u>	<u>Department</u>	<u>College</u>
Michael Searcy	ANTHRO	FHSS
Eric Gillett	ART	FA&C
Richard Gill	BIO	LSCI
Jamie Jensen	BIO	LSCI
John Kauwe	BIO	LSCI
Jack W. Sites, Jr.	BIO	LSCI
Michael Whiting	BIO	LSCI
Paul Richards	CEEn	E&T
Kenneth Alford	CH&D	REL
Mike MacKay	CH&D	REL
Roger P. Minert	CH&D	REL
Morris Argyle	CHEME	E&T
William Pitt	CHEME	E&T
Steven Castle	CHMBIO	P&MS
Roger Harrison	CHMBIO	P&MS
Kristine Tanner	COMD	EDUC
Terisa Gabrielsen	CP&SE	EDUC
William Barrett	CS	P&MS
Ryan Farrell	CS	P&MS
Shayla Bott	DANCE	FA&C
Graham Brown	DANCE	FA&C
Aaron Hawkins	ECEn	E&T
Brian Mazzeo	ECEn	E&T
Dawan Coombs	ENG	HUM
Jill Rudy	ENG	HUM
James LeCheminant	ES	LSCI
Michelle James	G&SL	HUM
Greg Carling	GEOL	P&MS
Eric Christiansen	GEOL	P&MS
Summer Rupper	GEOL	P&MS

Roger Macfarlane	HUM	HUM
Bonnie Anderson	IS	MSM
Mark Keith	IS	MSM
Bradford Berges	M&MB	LSCI
Laura Bridgewater	M&MB	LSCI
Julianne Grose	M&MB	LSCI
Brent Nielsen	M&MB	LSCI
Richard Robison	M&MB	LSCI
Scott Weber	M&MB	LSCI
Denise Halverson	MATH	P&MS
Eric Homer	ME	FHSS
Christopher Mattson	ME	E&T
Renea Beckstrand	NURS	NURS
Barbara Heise	NURS	NURS
Leslie Miles	NURS	NURS
Ron Ulberg	NURS	NURS
Michael Joner	P&A	P&MS
Jeffery Barrow	P&DB	LSCI
David Busath	P&DB	LSCI
Jeff Edwards	P&DB	LSCI
David Kooyman	P&DB	LSCI
Peter Maughan	P&WS	LSCI
Joshua Gubler	POLISCI	FHSS
Quinn Mecham	POLISCI	FHSS
Daniel Nielson	POLISCI	FHSS
Wendy Birmingham	PSYCH	FHSS
Scott Braithwaite	PSYCH	FHSS
Gary Burlingame	PSYCH	FHSS
Michael Larson	PSYCH	FHSS
Patrick Steffen	PSYCH	FHSS
Scott Steffensen	PSYCH	FHSS
Gregory Thompson	S&P	HUM
Mikaela Dufur	SOC	FHSS
Benjamin Gibbs	SOC	FHSS
Carol Ward	SOC	FHSS
Kevin Shafer	SW	FHSS
Kevin Tew	TECH	E&T



Student Recognition

2014 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. A group of faculty and administrators carefully evaluate all proposals and select those deemed outstanding. The \$1,800 grants 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 under the ORCA homepage (<http://orca.byu.edu>).

<u>Department</u>	<u>Mentor</u>	<u>Student</u>
Ancient Scripture	Shon Hopkin	Hannah Lambert
Anthropology	Cynthia Finlayson	Josie Newbold
Anthropology	David Johnson	Mariana Castro
Anthropology	Paul Stavast	Heather White
Art	Bryon Draper	Nathan Clark
Art	Daniel Barney	Kaleb Ostraff
Art	Martha Peacock	Sarah Dyer
Art	Peter Everett	Drew Rane
Biology	Beverly Roeder	Austin Cook
Biology	Beverly Roeder	Holly Martin
Biology	Byron Adams	Ammon Perkes
Biology	Byron Adams	Caj Johansson
Biology	Byron Adams	Sarah Wright
Biology	Byron Adams	Westen Archibald
Biology	Jamie Jensen	Jordan Hatch
Biology	Jamie Jensen	Ted Piorczynski
Biology	Jerald Johnson	Anna Gruszkiewicz
Biology	Jerald Johnson	David Money
Biology	Jerald Johnson	Meaghan Weldele
Biology	John Kauwe	Eleni Tukuafu
Biology	John Kauwe	Josue Gonzalez
Biology	John Kauwe	Kevin Boehme
Biology	John Kauwe	Tyler Mower
Biology	Keoni Kauwe	Devan Bursey
Biology	Keoni Kauwe	Lyndsay Staley
Biology	Michael Whiting	Michael Swindle
Biology	Roger Koide	Watkins John
Biology	Roger Koide	Monica Boyer
Biology	Seth ByBee	Preston Arnold
Chemical Engineering	Alonzo Cook	Chase Jackson
Chemical Engineering	Alonzo Cook	Christopher Burns

Chemical Engineering	Alonzo Cook	Cory Fronk
Chemical Engineering	Alonzo Cook	Dustin Day
Chemical Engineering	Alonzo Cook	Jeffery Nielson
Chemical Engineering	Alonzo Cook	Luke Wilding
Chemical Engineering	Alonzo Cook	Makena Ford
Chemical Engineering	Alonzo Cook	Westley Kirkham
Chemical Engineering	Bradley Bundy	Anthony Bennett
Chemical Engineering	Bradley Bundy	Jeremy Hunt
Chemical Engineering	William Pitt	Benjamin Lindsay
Chemistry & Biochemistry	Adam Woolley	Andrew Dearden
Chemistry & Biochemistry	Adam Woolley	John Jensen
Chemistry & Biochemistry	Daniel Ess	Michael Devonas
Chemistry & Biochemistry	Daniel Simmons	Gideon Logan
Chemistry & Biochemistry	James Patterson	Jessica Jenkins
Chemistry & Biochemistry	Jaron Hansen	Braden Myers
Chemistry & Biochemistry	Jennifer Nielson	Brent Kamba
Chemistry & Biochemistry	John Prince	Brooke Miller
Chemistry & Biochemistry	John Prince	Michael Porter
Chemistry & Biochemistry	Josh Andersen	David Broadbent
Church History & Doctrine	Michael MacKay	Nathan Richardson
Civil & Environmental Engineering	Michael Scott	Ronald Spencer
Civil & Environmental Engineering	Spencer Guthrie	Jaren Knighton
Civil & Environmental Engineering	Spencer Guthrie	John Allan
Civil & Environmental Engineering	W. Spencer Guthrie	Tenli Waters
Communications	Kenneth Plowman	Rebecca Winchel
Comparative Arts & Letters	Christopher Oscarson	Benjamin Holt
Comparative Arts & Letters	Christopher Oscarson	Dane Christensen
Comparative Arts & Letters	James Swensen	Courtney McWhorter
Comparative Arts & Letters	James Swensen	Kendra Harris
Comparative Arts & Letters	Kerry Soper	Allison Rietz
Comparative Arts & Letters	Roger Macfarlane	David Delbar
Comparative Arts & Letters	Roger Macfarlane	Nozomu Okuda
Computer Science	Christophe Giraud-Carrier	Samantha Smiley
Computer Science	Michael Jones	Aubrey Hatch
Computer Science	Michael Jones	Tyler Foulger
Computer Science	Seth Holladay	Dennis West
Computer Sciences	Mike Jones	Amber Smith
Counseling & Special Education	Blake Hansen	David Ball
Counseling & Special Education	Blake Hansen	Mallory Sterner
Dance	Caroline Prohosky	Natasha Peatross
Dance	Nathan Balsler	Amy Gunter

Dance	Shayla Bott	Charis Dexter
Design	Robert Barrett	Alyssa Stromberg
Economics	James McDonald	Carla Johnston
Economics	Joseph Price	Joshua Witter
Economics	Kerk Phillips	Ryne Belliston
Economics	Michael Ransom	Thomas Kelemen
Economics	Richard Evans	Christian Baker
Economics	Richard Evans	David Beheshti
Economics	Scott Condie	Roy Roth
Economics	Val Lambson	John vandenBerghe
Education	Paul Kerry	Megan Armknecht
Education	Paul Kerry	Greer Bates
Educational Leadership & Foundations	Clifford Mayes	Jorge Encinas
Electrical & Computer Engineering	Brian Mazzeo	Andrew Cutler
Electrical & Computer Engineering	Richard Selfridge	Eric Whiting
Electrical & Computer Engineering	Richard Selfridge	Reid Worthen
Electrical & Computer Engineering	Stephen Schultz	Christopher Hansen
English	Brian Jackson	Lauren Fine
English	Dawan Coombs	Caroline Howard
English	Leslee Thorne-Murphy	Ashley Brocius
English	Matthew Wickman	Benjamin Rice
English	Matthew Wickman	Brittany Strobelt
English	Patrick Madden	Jenna Carson
Exercise Sciences	Robert Hyldahl	Ryan Matekel
Family Home & Social Sciences	Dawson Hedges	David Bennett
Family Life	Jeremi Brewer	Barry West
Family, Home & Social Sciences	Ben Ogles	Dallin Christensen
Family, Home & Social Sciences	Kelly Patterson	Benjamin Ader
Family, Home & Social Sciences	Ryan Jensen	Andrew VanLeuven
Finance	Taylor Nadauld	Carter Davis
Fine Arts & Communications	Gary Barton	Alexis Ostraff
French & Italian	Daryl Lee	Charlotte Coleman
French & Italian	Daryl Lee	Danielle Stanford
French & Italian	Daryl Lee	Taylor Madsen
Geography	Michael Clay	Chelsea Bakaitis
Geography	Matthew Bekker	Calli Nielsen
Geological Sciences	Brooks Britt	Austin Andrus
Geological Sciences	Thomas Morris	Jeffery Valenza
German & Slavic Languages	Cindy Brewer	Eric Smith
German & Slavic Languages	Cindy Brewer	Kristen Jacobson
German & Slavic Languages	Mark Purves	Matisse Hales

German & Slavic Languages	Rob McFarland	Alexander Smith
German & Slavic Languages	Rob McFarland	Aloe Corry
Health Science	Gene Cole	Margot Crandall
Health Science	James Johnston	Siena Davis
History	Jeffrey Shumway	Taylor Cozzens
History	Matthew Mason	Garrett Nagaishi
Humanities	Frank Christianson	Sara Guggisberg
Humanities	Jarom McDonald	Ian Hunter
Humanities	Jarom McDonald	Kyle Bryant
Humanities	Michelle James	Anna Burton
Information Systems	Anthony Vance	Ian Jones
Information Systems	Anthony Vance	Jeff Penovich
Information Systems	Anthony Vance	Thomas Kelley
Information Systems	Jeffrey Jenkins	David Dynes
Information Systems	Jeffrey Jenkins	Shane Reeves
Information Systems	Stephen Liddle	Matthew Sheets
Law	Brigham Daniels	Catherine Johns
Library	David Day	Eliza Weed
Life Sciences	Dixon Woodbury	Brady Hunt
Life Sciences	Dixon Woodbury	Jason Paxman
Life Sciences	Michael Barnes	Ian Christensen
Linguistics	Dirk Elzinga	Kevin Blissett
Linguistics	Mark Tanner	Andrew Bashford
Linguistics	Wendy Baker-Smemoe	Anna McConner Hughes
Mathematics	Paul Jenkins	Andrew Haddock
Mathematics	Paul Jenkins	Kyle Pratt
Mathematics	Tyler Jarvis	Lisa Bendall
Mathematics	Tyler Jarvis	Nathan Cornder
Mechanical Engineering	Anton Bowden	Kara Boatwright
Mechanical Engineering	Brian Jensen	Dallin Lindstrom
Mechanical Engineering	Brian Jensen	Devan Anderson
Mechanical Engineering	Christopher Mattson	Braden Hancock
Mechanical Engineering	David Fullwood	Craig Daniels
Mechanical Engineering	David Fullwood	Raymond Bilodeau
Mechanical Engineering	Larry Howell	Janette Fernelius
Mechanical Engineering	Matthew Jones	Cameron Bell
Micro & Molecular Biology	Brad Berges	Jacob Hatch
Micro & Molecular Biology	Bradford Berges	Steven Hallam
Micro & Molecular Biology	Brent Nielsen	Connor Woodward
Micro & Molecular Biology	Brian Poole	Jeffrey Mella
Micro & Molecular Biology	Brian Poole	Lauren Gibbons

Micro & Molecular Biology	Brian Poole	Vera Mayhew
Micro & Molecular Biology	David Erickson	Bailey Benson
Micro & Molecular Biology	David Erickson	Jeffrey Moffat
Micro & Molecular Biology	David Erickson	Jeffrey Schachterle
Micro & Molecular Biology	Julianne Grose	Amber Brown
Micro & Molecular Biology	Julianne Grose	Todd Jarvis
Micro & Molecular Biology	Sandra Burnett	Bryan Merrill
Micro & Molecular Biology	Scott Weber	John Hancock
Micro & Molecular Biology	Steven Johnson	Jordon Ritchie
Micro & Molecular Biology	William McCleary	Cameron Woodward
Micro & Molecular Biology	William McCleary	Tanner Dean
Microbiology & Molecular Biology	Eric Wilson	Cameron Sargent
Microbiology & Molecular Biology	Eric Wilson	Youna Choi
Music	Alex Woods	Caitlin Johnson
Music	Claudine Bigelow	Sydney Howard
Music	David Brown	Austin Robinson
Music	Eric Hansen	Joshua Lambert
Music	Jerry Jaccard	Bethany Barlow
Music	Mark Ammons	Richard Williams
Music	Steven Ricks	Matthew Webb
Music	Will Kimball	Christian Succo
Music	Will Kimball	Kassia Roberts
Neuroscience	Michael Larson	Cory Pettit
Neuroscience	Michael Larson	Kaylie Carbine
Neuroscience	Scott Thomson	Nelson Warner
Nursing	Barbara Heise	Danielle Shkaphich
Nursing	Beth Luthy	Sarah Jones
Nursing	Debra Mills	Megan Watts
Nursing	Debra Wing	Katherine Holiday
Nursing	Donna Freeborn	Janelle Teerlink
Nursing	Gaye Ray	Kristen Hamblin
Nursing	Renea L. Beckstrand	Katie Hillary
Nutrition, Dietetics & Food Science	Jeffery Tessem	Andrew Stratford
Nutrition, Dietetics & Food Science	Jeffery Tessem	Jason Ray
Nutrition, Dietetics & Food Science	Merrill Christensen	Lauren Archibald
Nutrition, Dietetics & Food Science	Merrill Christensen	Xiuqi Li
Organizational Leadership & Strategy	Kurt Sandholtz	Reese Haydon
Organizational Leadership & Strategy	Mark Hansen	Terry Keller
Organizational Leadership & Strategy	Mark Hansen	Westin Leavitt
Physics & Astronomy	Dallin Durfee	Nils Otterstrom
Physics & Astronomy	David Allred	Collin Brown

Physics & Astronomy	David Allred	Jason Anderson
Physics & Astronomy	David Neilsen	Taylor Morgan
Physics & Astronomy	Denise Stephens	Brian Shaw
Physics & Astronomy	Gus Hart	Meredith Gold
Physics & Astronomy	J. Ward Moody	Clinton McCleskey
Physics & Astronomy	Jean-Francois Van Huele	John Gardiner
Physics & Astronomy	Karine Chesnel	Clarke Safsten
Physics & Astronomy	Lawrence Rees	Ashlie Burton
Physics & Astronomy	R. Steven Turley	Cody Petrie
Physics & Astronomy	Robert Davis	Steven Noyce
Physics & Astronomy	Scott Bergeson	Daniel Woodbury
Physics & Astronomy	Scott Bergeson	Stephen Rupper
Physics & Astronomy	Steve Turley	Joshua Marx
Physiology & Developmental Biology	David Kooyman	David Mecham
Physiology & Developmental Biology	David Thomson	Michael Cook
Physiology & Developmental Biology	Jeffrey Edwards	Bradley Prince
Physiology & Developmental Biology	Jeffrey Edwards	Jacob Trotter
Physiology & Developmental Biology	Jeffrey Edwards	Teresa StPierre
Physiology & Developmental Biology	Jeffrey Edwards	Zachary Hopkins
Physiology & Developmental Biology	Jon Wisco	Brett Gardiner
Physiology & Developmental Biology	Jonathan Wisco	Dani Peterson
Physiology & Developmental Biology	Jonathan Wisco	Jakob Gamboa
Physiology & Developmental Biology	Jonathan Wisco	Adam Jorgensen
Physiology & Developmental Biology	Jonathan Wisco	Brandon Herrington
Physiology & Developmental Biology	Jonathan Wisco	Kinnison Edmunds
Physiology & Developmental Biology	Jonathan Wisco	Marc Christiansen
Physiology & Developmental Biology	Jonathan Wisco	Samuel Barlow
Physiology & Developmental Biology	Juan Arroyo	Camilo Mejia
Physiology & Developmental Biology	Marc Hansen	Jacob Hoj
Physiology & Developmental Biology	Marc Hansen	Kendra Fullmer
Physiology & Developmental Biology	Marc Hansen	Nicholas Saguibo
Physiology & Developmental Biology	Paul Reynolds	Steven Knapp
Plant & Wildlife Sciences	Brad Geary	Ashton Densley
Plant & Wildlife Sciences	Brad Geary	Trevor Smart
Plant & Wildlife Sciences	Joshua Udall	Kimberly Clemons
Plant & Wildlife Sciences	Sam St. Clair	Anson Call
Plant & Wildlife Sciences	Samuel St. Clair	Amy Clark
Political Science	Christopher Karpowitz	Holly Henrich
Political Science	Daniel Nielson	Eric Smith
Political Science	Darren Hawkins	Ian Hansen
Political Science	Darren Hawkins	Lucas Brook

Political Science	Jeremy Pope	Luke Bell
Political Science	Jessica Preece	Bryonna Bowen
Political Science	Jessica Preece	Kalifa Smith
Political Science	Quin Monson	Madison Dayton
Psychology	Brock Kirwan	Bengt Grua
Psychology	Brock Kirwan	Nathan Giles
Psychology	Brock Kirwan	Seth Spencer
Psychology	Brock Kirwan	Storm Atwood
Psychology	Bruce Brown	Jack Silcox
Psychology	C. Brock Kirwan	Cassie Widdison
Psychology	Erin Bigler	Zachary McDonnell
Psychology	J. Dee Higley	Andrew Aston
Psychology	J. Dee Higley	Claudia Gonzalez
Psychology	J. Dee Higley	Daniel Loveland
Psychology	Jeffrey Reber	Jillian Ferrell
Psychology	Jeffrey Reber	Rachel Maxwell
Psychology	Mikle South	Catie Nielson
Psychology	Niwako Yamawaki	Joshua Murphy
Psychology	Ross Flom	Jordan Layton
Psychology	Sam Hardy	Jacob Curtis
Psychology	Scott Steffensen	Christopher Schow
Psychology	Scott Steffensen	Ashley Nelson
Psychology	Scott Steffensen	Brian Behnke
Psychology	Scott Steffensen	Jacqueline Solomon
Psychology	Scott Steffensen	Jordan Spencer
Psychology	Scott Steffensen	Michaela Squire
Psychology	Scott Steffensen	Tyler Okelberry
Psychology	Scott Steffensen	Corinne Morrison
Psychology	Steven Luke	Kyle Nelson
Religious Education	Jeffrey Chadwick	Christina Nelson
Romney Institute of Public Management	Brad Agle	Jordan Nielsen
School of Technology	Aaron Hawkins	David Lindell
School of Technology	Dale Rowe	Keith Smith
School of Technology	Dale Rowe	Laura Wilkinson
School of Technology	Dan Maynes	Michael Morgan
School of Technology	Kevin Tew	Jon Goettel
School of Technology	Randy Lewis	Russell Peterson
School of Technology	Randy Lewis	Sean Brown
Sociology	Ben Gibbs	Jacob Mortensen
Sociology	Kristie Phillips	Christina Edmunds
Sociology	Kristie Phillips	Shelby Jorgensen

Spanish & Portuguese
Spanish & Portuguese
Statistics
Statistics
Teacher Education
Theater & Media Arts
Theater & Media Arts
Theater & Media Arts
Theater & Media Arts

James Krause
Jeffrey Turley
C. Shane Reese
Shane Reese
Erin Whiting
Mary Farahnakian
Stephanie Breinholt
Stephanie Breinholt
Thomas Lefler

Andrew Nelson
Kari Tanner
Michael Warner
Philip White
Jonathan Welling
Chelsey Roberts
Kassandra Haddock
Mackenzie Larsen
Jared Jakins



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 Directory, an Associate Director, a Research Administrator, 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.

Title: Personnel

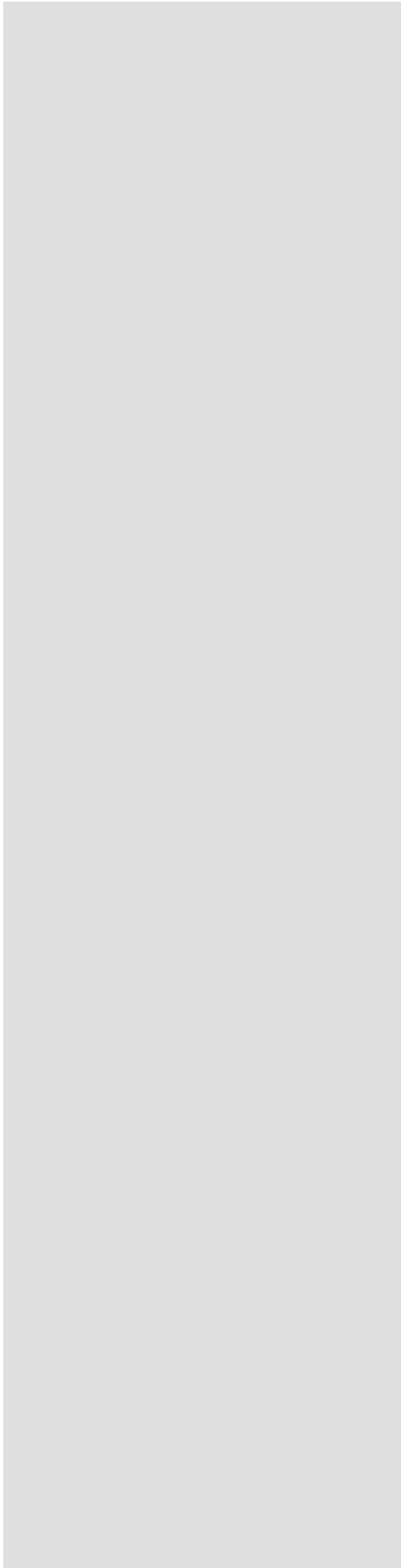
Director:	Gary R. Reynolds
Associate Director:	Gene Larson
Research Administrator:	Debbie Silversmith
Research Administrator:	Marilyn Webb
IRB Administrator:	Sandee Munoz
Office Manager/Secretary:	Rachel LaForce
Part-time Secretaries:	Alex Gillett, Jillian Hammer
Web Site Administrator:	Daniel Lee

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.
- 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.
 - ◆ Distribute a monthly newsletter containing funding opportunities and other information to faculty members on campus.
- 3) Proposal Preparation and Submission
- ◆ Coordinate the preparation of large, inter-collegiate, and inter-institutional research proposals.
 - ◆ Assist with proposal budgets and processing for signatures.
 - ◆ Assist in developing process/software for budgets and forms.
 - ◆ Copy, mail, log, and file proposals.
- 4) Negotiating and Interacting with Sponsors
- ◆ Negotiate and manage grants and contracts.
 - ◆ Interface with sponsoring agencies to maintain awareness of research funding trends.
 - ◆ Represent the university's research programs to other research organizations, funding agencies, and other universities.
- 5) Compliance with Federal and Other Requirements
- ◆ Monitor government regulations pertaining to federal grants and contracts.
 - ◆ Work with the Inventory Office to manage government property to assure compliance with federal regulations.
 - ◆ Assure compliance with reporting requirements and manage closeout documentation.
 - ◆ Oversee three compliance committees and assist them through secretarial support for meetings, correspondence, and proposal approval.
- 6) Negotiating and Interfacing with Subcontractors and Independent Contractors/Consultants
- ◆ Negotiate terms of agreement or subcontract.
 - ◆ Monitor agency regulations and BYU policy and procedures for stipulations concerning subcontracts and/or independent consultants/contractors.
 - ◆ Prepare contracts, amendments, payment documents, and initiate processing through the university.
 - ◆ Administer contractual terms between prime contractor (BYU) and subcontractors and or/consultants.
 - ◆ Approve payment of invoices from subcontractors and consultants.
 - ◆ Educate principal investigators.
- 7) Project and Account Management (Post-Award)
- ◆ Control assignment of account numbers and coordinate activation with Financial Services.
 - ◆ Certify expenditure documents on research accounts.
 - ◆ Monitor research accounts in conjunction with Financial Services to assure compliance with contract requirements, government regulations, and BYU policy.
 - ◆ Manage government property to assure compliance with federal regulations.
 - ◆ Assist Financial Services with audits of project accounts.
 - ◆ Assure compliance with reporting requirements and manage closeout documents.
 - ◆ Act as a liaison between researchers, 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.
 - ◆ Prepare paperwork and correspond with faculty to request payment of salaries and supplemental research compensation of research accounts.
- 8) Financial Management
- ◆ Establish research accounts.

- ◆ Document cost sharing.
 - ◆ Process cost transfers.
 - ◆ Document and report time and effort.
 - ◆ Compile and publish monthly and yearly financial reports.
 - ◆ Invoice and manage funds from sponsors.
 - ◆ Monitor university compliance with appropriate federal and state regulations.
 - ◆ Assist with completion of annual audits.
 - ◆ Compile, maintain, and distribute reports on waived indirect costs.
- 9) Student Mentoring Program
- ◆ Host Annual Sponsored Research Achievement Luncheon and present Sponsored Research Achievement Award.
 - ◆ Conduct Undergraduate Research and Creative Activities Scholarship competition.
 - ◆ Conduct Environments for Mentoring Grants competition.
 - ◆ Build library database of mentored environments from across campus.
 - ◆ Represent the university in national, regional, and state research organizations.
 - ◆ Administer recognition awards.
 - ◆ Assist in coordinating graduate fellowships.
- 10) Policy Review and Development
- ◆ Develop policies and procedures to foster research.
 - ◆ Publish policy brochures for dissemination to campus community.
 - ◆ Update BYU policies relevant to research and creative activities in the electronic handbook.
- 11) University Negotiations/Trouble Shooting
- ◆ Participate in DHHS indirect costs justification.
 - ◆ Review/respond to internal and external audits.
 - ◆ Direct negotiations with sponsors/federal agencies on problems such as termination or nonpayment of invoices.
- 12) Management of Undergraduate Research and Creative Activities Program
- ◆ Work with the honors program and existing college and departmental programs to assure students of opportunities to participate and receive recognition for their efforts.
 - ◆ Approve proposals, award fellowships, and administer scholarships.
 - ◆ Approve research employment and indirect cost recognition.
 - ◆ Attend the National Undergraduate Research Administration meetings.
 - ◆ Identify and assist existing efforts through financial incentives, recognition, and formal participation in a university-wide program.
- 13) 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.
 - ◆ Type and distribute a monthly Funding Activity Report (FAR).
 - ◆ Generate summer salary and supplemental research payments.
 - ◆ Assist in preparation of reports and paperwork.
 - ◆ Produce the Annual Report of Scholarly Productivity.
 - ◆ Produce the Journal of Undergraduate Research and Creative Activities on the Internet.
 - ◆ Maintain ORCA homepage (<http://orca.byu.edu>).



Appendix 2

Compliance Obligations (As Per Federal Statute or Regulation)

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

Regulatory Framework

- Office of Management and Budget
 - Circular No. A-21
 - Circular No. A-110
 - Circular No. A-133
- Federal Acquisition Regulations (FAR)
- Defense Federal Acquisition Regulations (DFAR)
- Department of Energy Acquisition Regulations (DEAR)
- USAID Acquisition Regulations (AIDAR)
- HIPPA
- FFATA
- ITAR/EAR
- RCR – NSF
- E-Verify
- The Coordinated Review Process-Executive Order 12372
- Rights to Inventions Made by Nonprofit Organizations and Small Business Firms
- Compliance Information for Specific Circumstances
 - Facilities Management
 - Historic Preservation
 - Paperwork Reduction Act

Individual Rights

- Antidiscrimination
 - Civil Rights Act of 1964—Title VI
 - Employment of the Handicapped-Rehabilitation Act of 1973
 - Americans with Disabilities Act
 - Title IX—Sex Discrimination
 - Age Discrimination
 - Equal Employment Opportunity
 - Affirmative Action for Special Disabled and Vietnam Era Veterans
 - Utilization of Women-Owned Small Business
 - Utilization of Labor Surplus Area Concerns
 - Utilization of Small and Small Disadvantaged Business Concerns

Privacy

- Privacy Act of 1974
- Freedom of Information Act
- Confidentiality of Patient Records

Protection Issues

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

Employee Directives

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

Fraud, Waste, and Abuse

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

Specific Administrative Requirements

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