



# 2013 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

# Table of Contents

Preface.....	3
The University .....	4
Information by College or School.....	13
David O. McKay School of Education .....	18
Engineering & Technology.....	23
Family, Home & Social Sciences .....	41
Fine Arts & Communications .....	48
Humanities .....	52
J. Reuben Clark Law School.....	58
Life Sciences.....	62
Marriott School of Management.....	69
Nursing.....	74
Physical & Mathematical Sciences.....	79
Religious Education .....	92
Non-College Units .....	97
Administrative Support of Compliance Committees and Regulations .....	102
Faculty Recognition .....	107
Student Recognition.....	112
Appendix 1.....	121
Appendix 2.....	125

# Preface

This report covers January 1, 2013 to December 31, 2013.

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

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

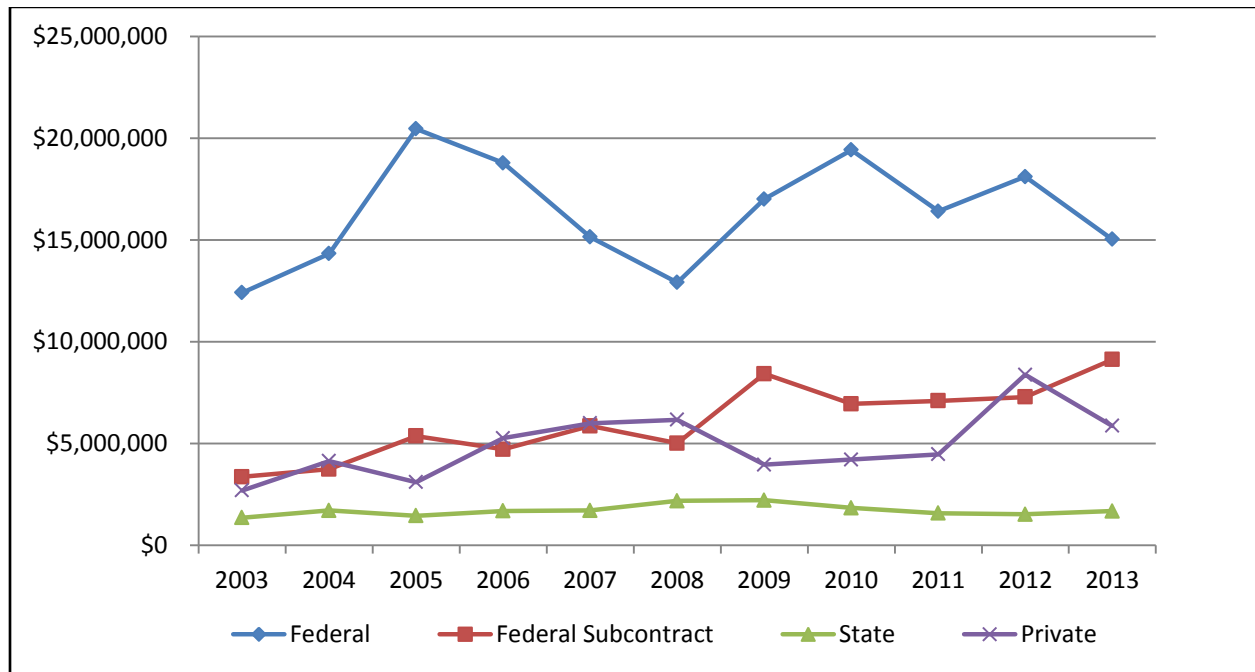
# The University



O·R·C·A

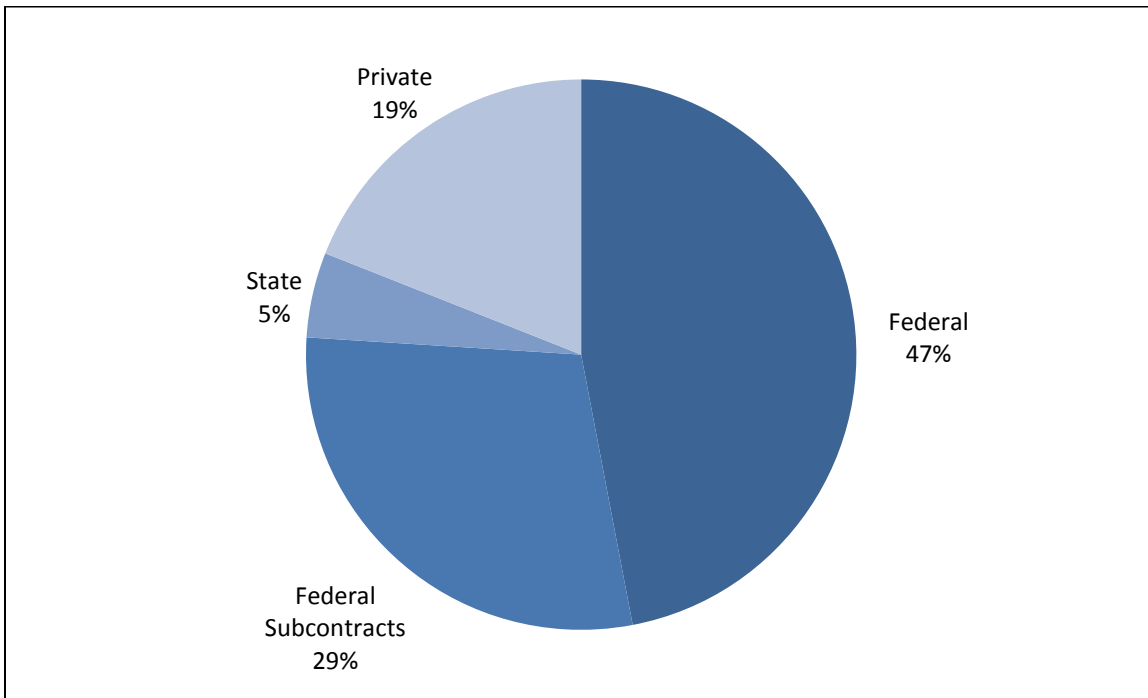
# External Research Funding

Grants/Contracts						
Year	Federal	Federal Subcontract	State	Private	Total	%Federal
2003	\$12,412,311	\$3,359,540	\$1,352,811	\$2,694,628	\$19,819,290	80%
2004	\$14,330,621	\$3,741,503	\$1,708,839	\$4,137,035	\$23,917,998	76%
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	\$5,931,720	\$31,772,126	47%



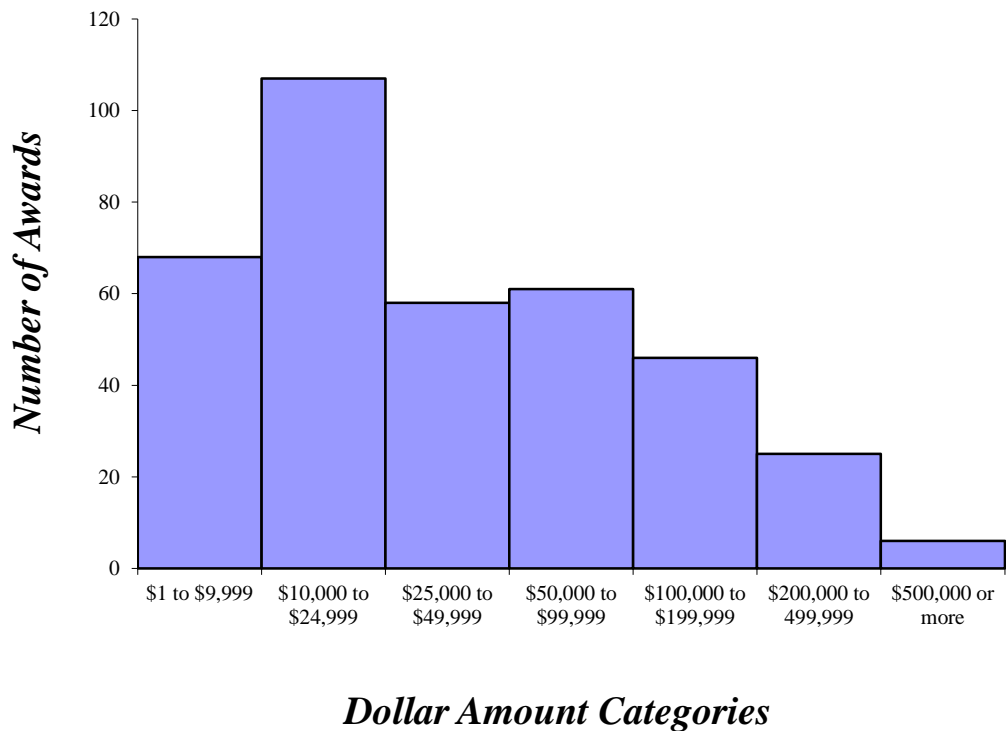
# External Funds by Source—2013

Source	Amount	% of Total
Federal	\$15,034,387	47%
Federal Subcontracts	\$9,126,548	29%
State	\$1,679,472	5%
Private	\$5,931,720	19%
<i>Total Funding</i>	\$31,772,126	100%

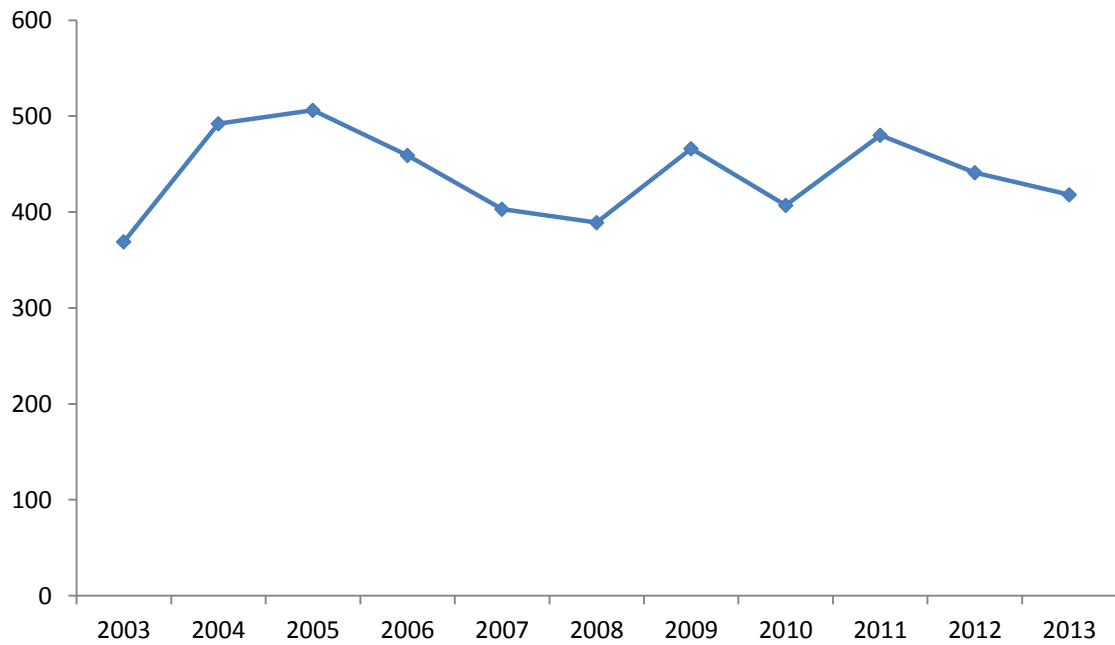


# Grant/Contract Awards by Amount—2013

Dollar Amount Categories	# of Awards	% of Total Awards by #	\$ Awards	% of Total Awards by \$ Amount
\$1 to \$9,999	68	18%	\$577,777	2%
\$10,000 to \$24,999	107	29%	\$2,449,015	8%
\$25,000 to \$49,999	58	16%	\$2,715,747	8%
\$50,000 to \$99,999	62	16%	\$5,463,128	17%
\$100,000 to \$199,999	46	12%	\$7,482,741	24%
\$200,000 to \$499,999	25	7%	\$8,629,285	27%
more than \$500,000	6	2%	\$4,464,433	14%
<b>Totals</b>	<b>372</b>	<b>100%</b>	<b>\$31,772,126</b>	<b>100%</b>



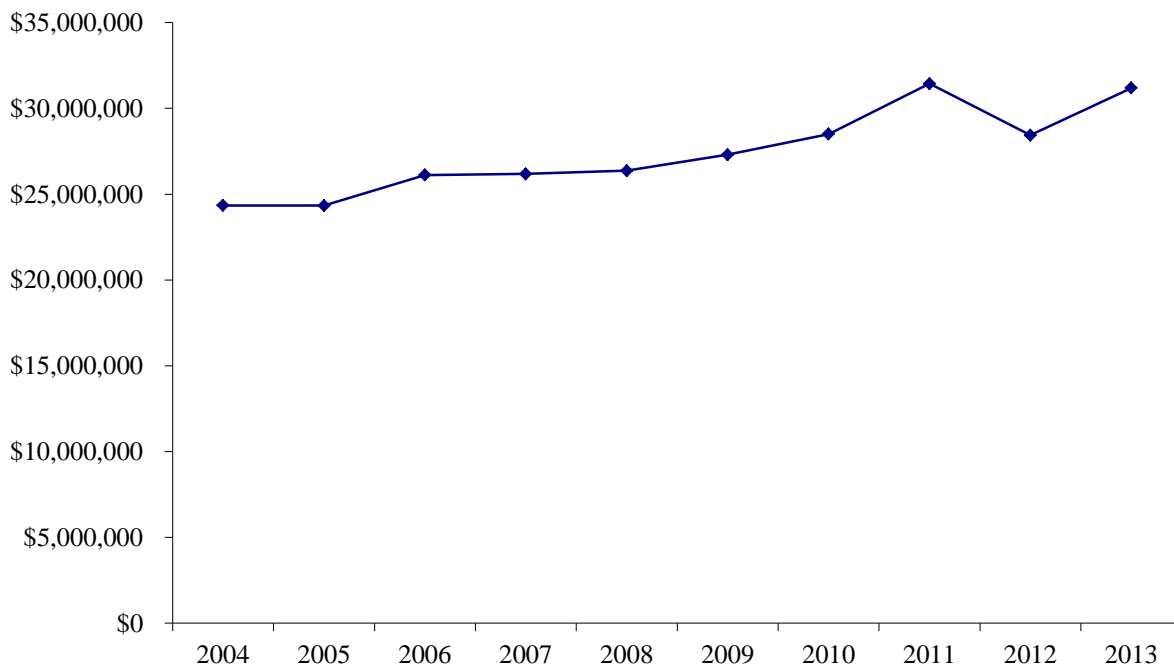
# Proposals Submitted





# Total Expenditures (Grants and Contracts)

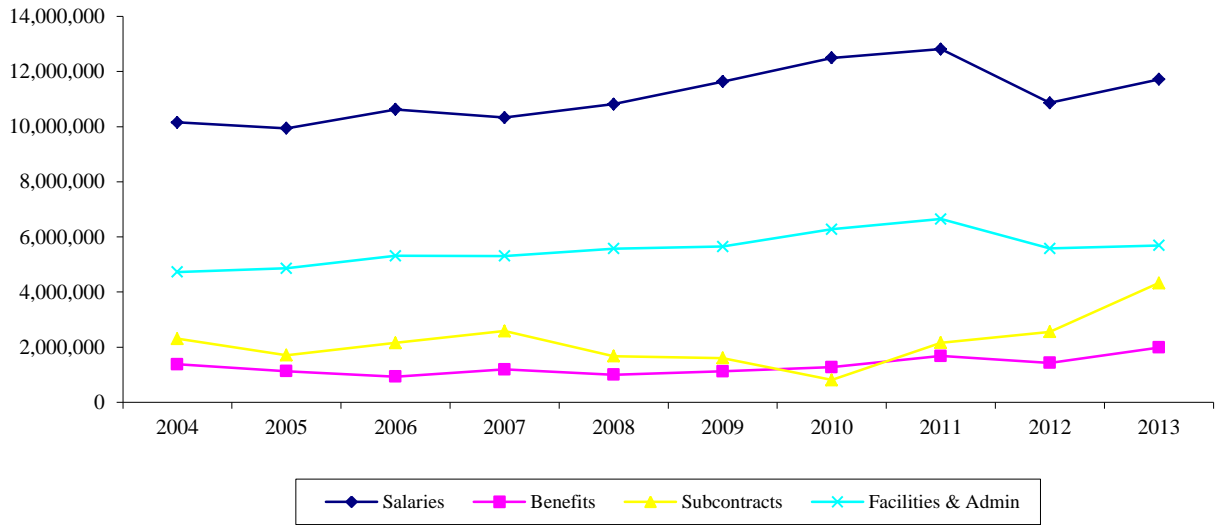
Year	Total Expenditures
2004	\$24,339,292
2005	\$24,334,391
2006	\$26,117,033
2007	\$26,178,686
2008	\$26,364,124
2009	\$27,299,213
2010	\$28,503,008
2011	\$31,443,918
2012	\$28,438,600
2013	\$31,184,980



# 2013 Research Contract/Grant Expenditures by Category

<i>Personnel Costs</i>	<i>Amount</i>
<i>Salaries &amp; Wages</i>	
Administrative Salaries	1,027,791
Faculty Salaries	319,366
Faculty Sal-Visit-Health Ben	1,057,310
Faculty—Supplemental	2,425,833
Part-time Faculty Salaries	443,565
Other Wages	328,576
Staff Salaries	159,408
Student Contracts	2,781,732
Student Wages	3,171,048
<b>Total Salaries &amp; Wages</b>	<b>\$11,714,631</b>
Fringe Benefits	\$1,987,426
<b>Total Personnel Costs</b>	<b>\$13,702,056</b>
<i>Other</i>	
Access Equipment	8,912
Advertising	305
Capital Equipment	916,727
Conference & Symposium Costs	29,037
Computer Serv-Campus-Contract	959
Consultants	455,992
Contract Services	661,046
Employee Development/Training	45,023
Equipment Repair & Maintenance	175,353
Exempt Account	0
Facilities Repair & Maintenance	3,125
Facilities & Administration	5,693,512
Hosting, Food, Entertainment	20,949
Non-Capital Equipment	186,823
Participant Stipends	14,382
Postage & Mailing	56,796
Printing & Copying	15,986
Program Income	(105,074)
Purchase Discounts Earned	(29)
Rental Expense	124,426
Research Fellowships	0
Research Publications Costs	15,233
Software Acquisitions/Support	39,037
Student Aid	1,682,543
Subcontracts	4,327,369
Supplies	1,975,884
Telecommunications	24,466
Telephone (reclass)	57
Travel	1,113,952
Uniforms/Costumes/Laundry	0
Utilities	133
<b>Total Other Expenditures</b>	<b>\$17,482,924</b>
<b>Total Research Expenditures</b>	<b>\$31,184,980</b>

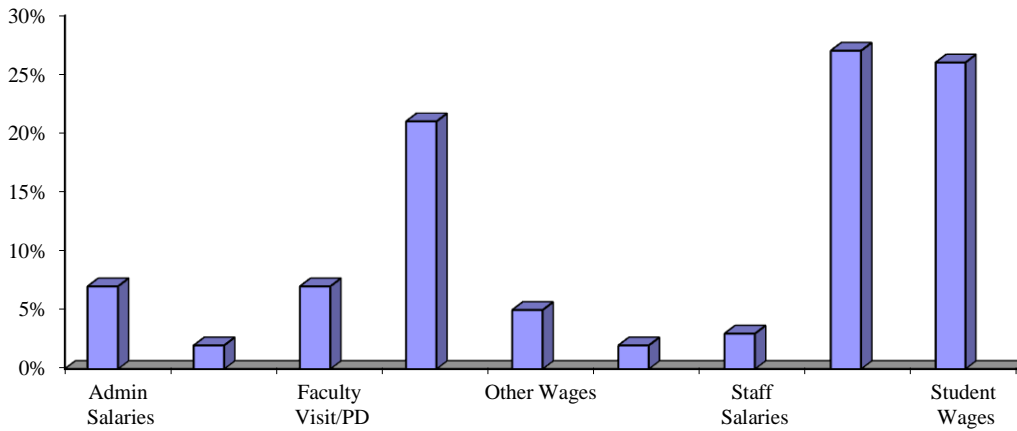
# Research Dollars Expended (Grants and Contracts Only)



# Salary and Wage Expenditures (Grants and Contracts Only)

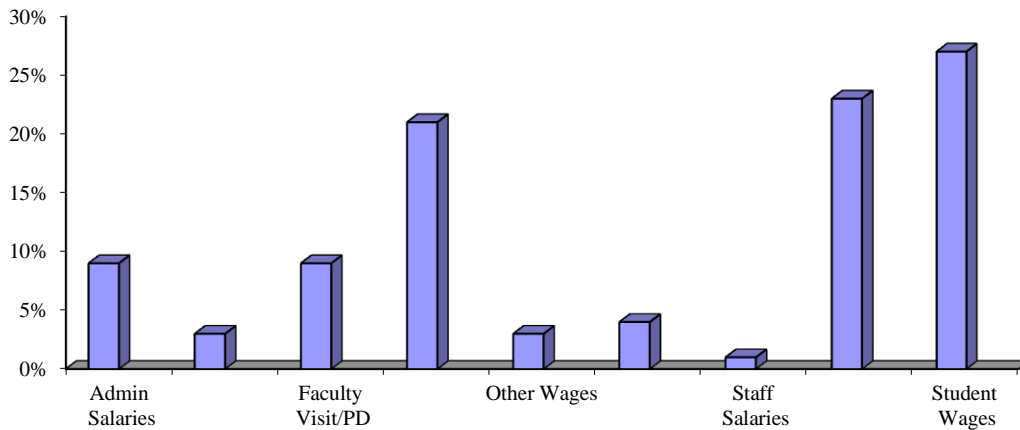
2012

Total: \$10,865,583



2013

Total: \$11,714,631

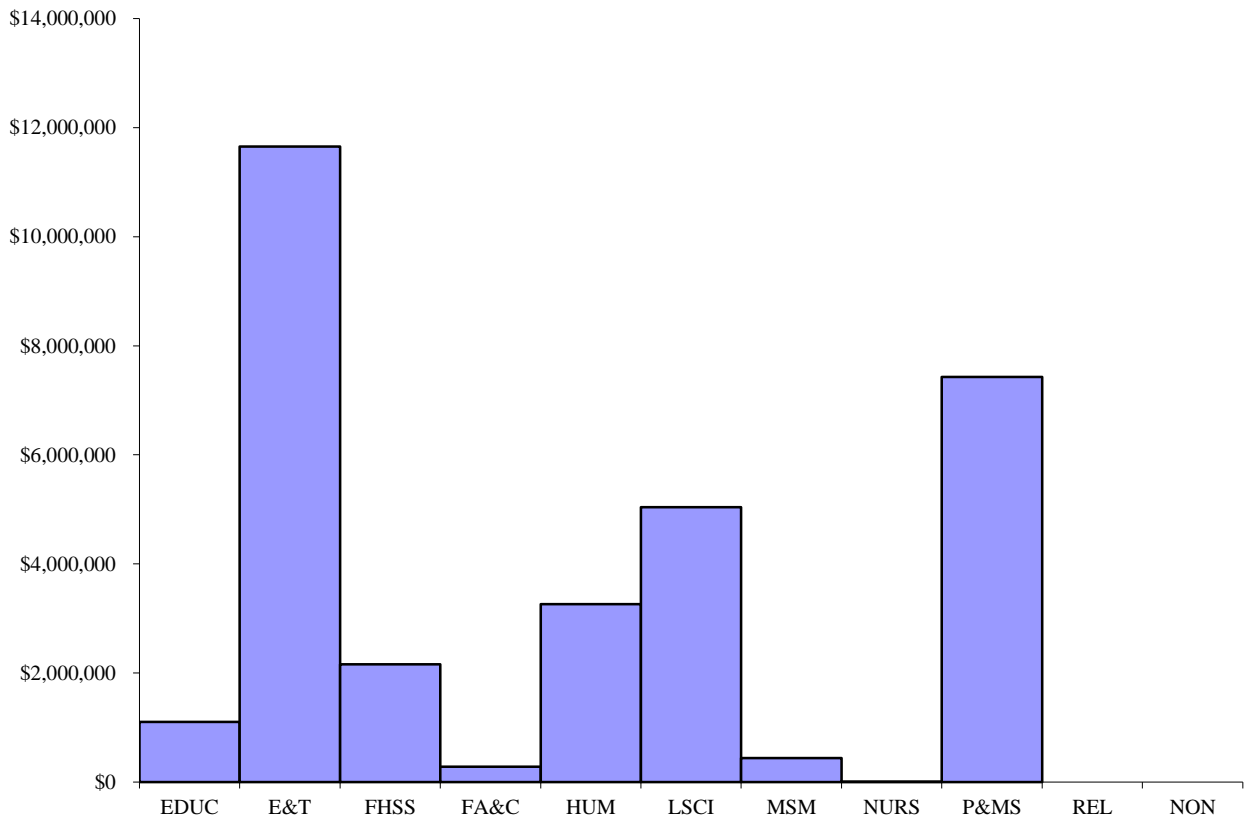




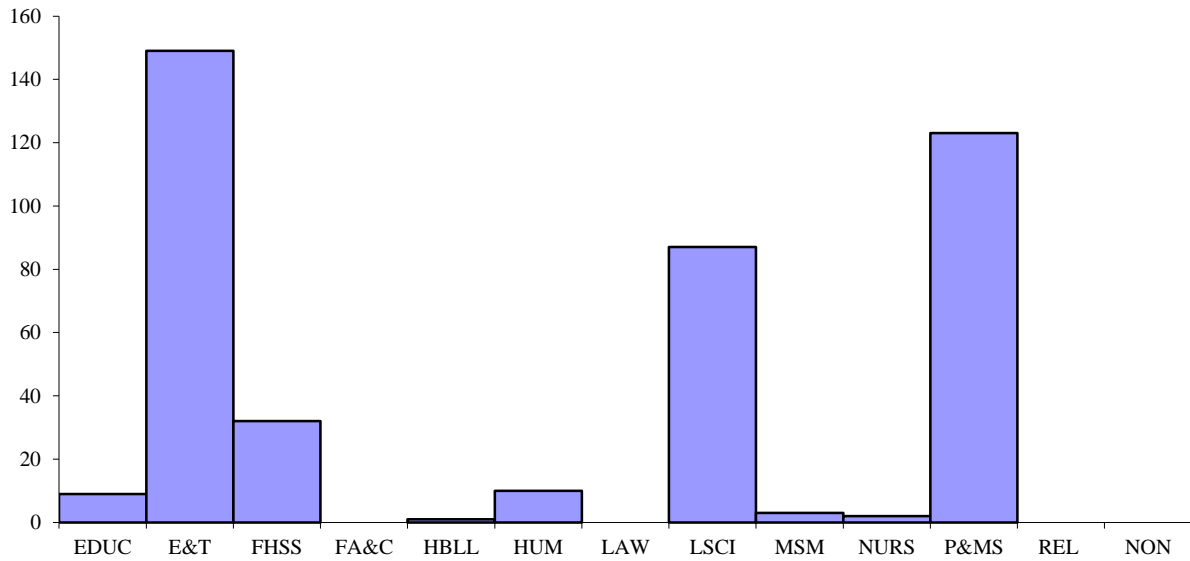
# Information by College or School

# Award Amount Totals 2013

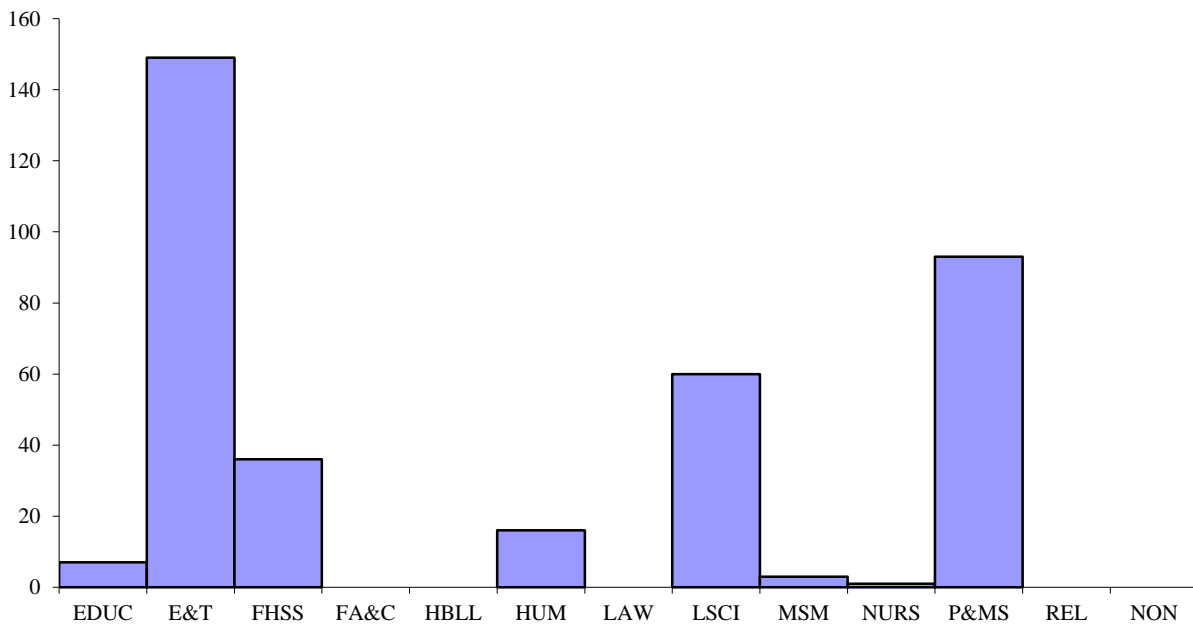
<i>College or School</i>	<i>Total</i>
Education	\$1,099,438
Engineering & Technology	\$11,714,961
Family, Home & Social Sciences	\$2,155,582
Fine Arts & Communications	\$278,688
Humanities	\$3,258,917
Life Sciences	\$5,038,272
Marriot School of Management	\$438,023
Nursing	\$7,350
Physical & Mathematical Sciences	\$7,427,300
Religious Education	\$0
Harold B. Lee Library	\$0
Non-College Units (with HBLL on Graph)	\$10,407
<b>University Total</b>	<b>\$31,772,126</b>



# Number of Proposals 2013



# Number of Awards 2013



# Research Contract/Grant Awards by College and Department 2013

<i>College and Department</i>	<i>Amount</i>
<b><u>Campus Life</u></b>	Campus Life 0
<b><u>Education</u></b>	CITES 405,918
	Communication Disorders 0
	Counseling and Special Educ 136,442
	Education Leadership & Foundations 0
	Instructional Psychology 133,333
	Teacher Education 423,745
	<b>TOTAL</b> <u>\$1,099,438</u>
<b><u>Engineering &amp; Technology</u></b>	Chemical Engineering 2,566,893
	Civil and Environmental Eng 1,603,083
	Electrical and Computer Eng 4,116,114
	Mechanical Engineering 2,838,992
	School of Technology 589,878
	<b>TOTAL</b> <u>\$11,714,960</u>
<b><u>Fine Art and Communications</u></b>	Communications 278.688
	Dance 0
	Museum of Art 0
	Music 0
	<b>TOTAL</b> <u>\$278.688</u>
<b><u>Family Home &amp; Social Sciences</u></b>	Anthropology 0
	Economics 380,086
	History 0
	Office of Public Archeology OPA 330,896
	Political Science 1,031,022
	Psychology 501,379
	School of Family Life 58,947
	Sociology 148,425
	Social Work 16,465
	<b>TOTAL</b> <u>2,508,130</u>



---

**College and Department****Amount****Humanities**

Asian & Near East Languages	1,635,919
Linguistics	42,060
Center for Language Studies	1,558,518
English	3,420
Spanish & Portuguese	19,000
<b>TOTAL</b>	<b>\$3,258,917</b>

**J. Reuben Clark Law School**

\$0

**Library**

\$0

**Life Sciences**

Bean Museum	24,000
Biology	1,957,467
Exercise Science	15,000
Health Science	57,848
Microbiology & Molecular Biology	900,650
Nutrition, Dietetic, & Food Science	154,900
Physiology & Developmental Biology	450,902
Plant & Wildlife Sciences	1,496,597
<b>TOTAL</b>	<b>\$5,057,364</b>

**Marriott School of Management**

Rec Mngmnt & Youth Leadership	44,242
Romney Institute of Public Mngmnt	226,525
School of Accountancy	167,256
<b>TOTAL</b>	<b>\$438,023</b>

**Nursing**

\$7,350

**Office of Research & Creative Activities**

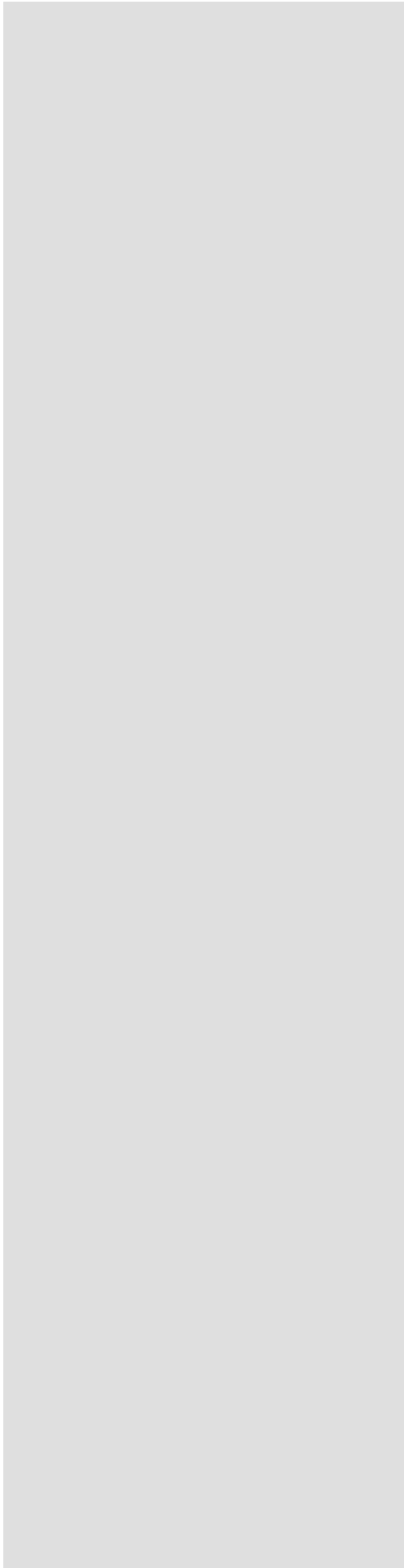
\$10,407

**Physical & Math Sciences**

Chemistry and Biochemistry	2,658,447
Computer Science	1,497,014
Geology	398,412
Mathematics	654,452
Mathematics Education	302,908
Physics & Astronomy	1,460,204
Statistics	436,771
<b>TOTAL</b>	<b>\$7,408,208</b>

**Grand Total****\$ 31,772,126**

---

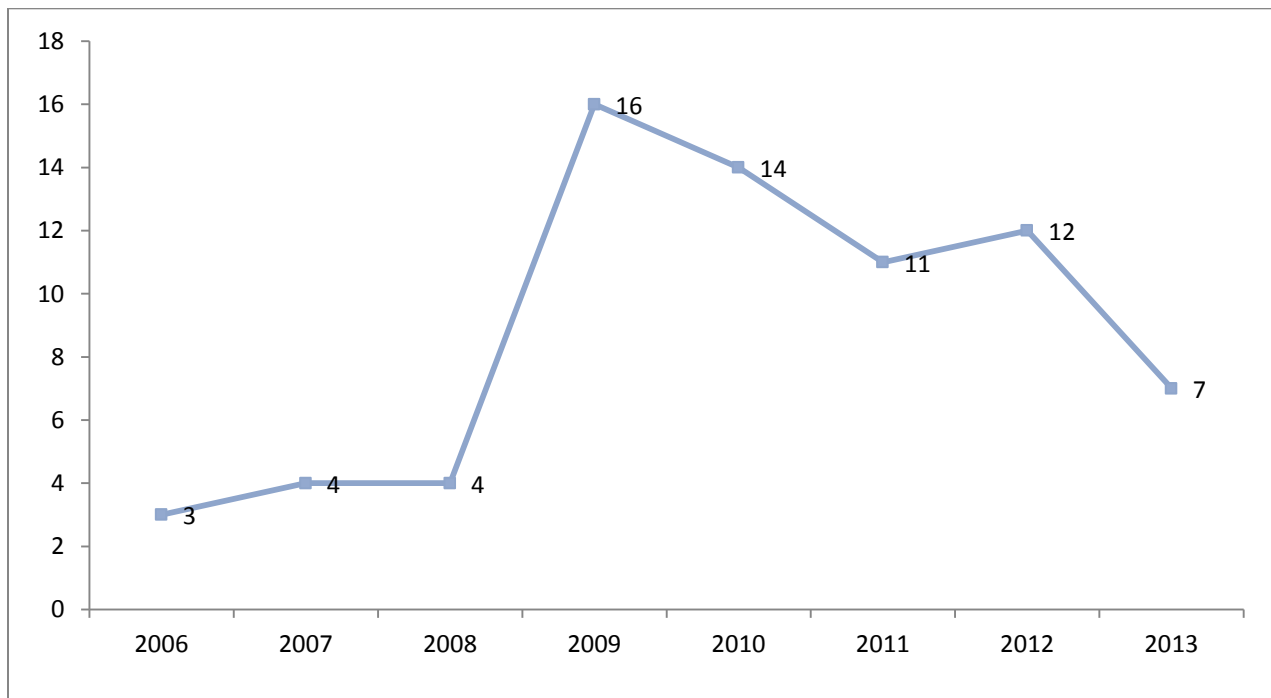


David O.  
McKay  
School  
of Education

# Summary of Sponsored Research (Grants & Contracts)

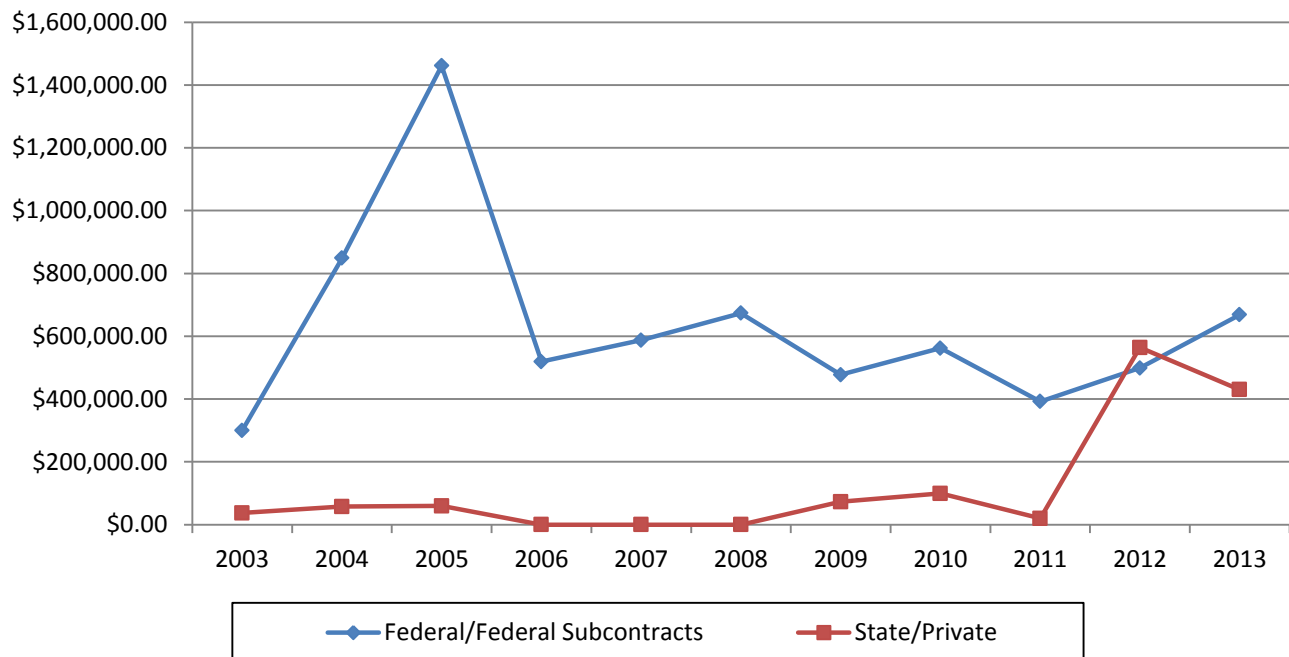
Department	# of Faculty Submitting	# of Proposals Submitted	# of Awards	Dollars Awarded
CITES	1	2	3	\$405,918
Communication Disorders	1	1	0	\$0
Counseling Psych & Special Ed.	2	2	2	\$136,442
Ed. Leadership & Foundations	0	0	0	\$0
Instructional Psych. & Tech.	2	2	2	\$133,333
Teacher Education	2	2	2	\$423,745
<b>TOTALS</b>	<b>8</b>	<b>9</b>	<b>9</b>	<b>\$1,099,438</b>

## Proposal Submission Activity



# External Research Funding (All Sources)

Year	Grants/Contracts		Total
	Federal/Federal Subcontracts	State/Private	
2003	\$300,000	\$37,330	\$337,330
2004	\$848,955	\$57,614	\$906,569
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



# David O. McKay School of Education 2013 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>
<b>Center for Improvement of Teach Education and Schooling</b>							
Caldarella, Paul		U of Kansas Center for Research (US Dept of Ed)	A Multi-Site Efficacy Trial of the Class-wide Function-related Intervention Teams "CW-FIT"	7/1/2012	6/30/2016	\$100,399	2
Flox, Cally		U of Utah (USOE)	2013-14 BTSALP BYU Region Professional Development Plan	7/1/2013	6/30/2014	\$94,560	3
Prater, Mary Anne	w/Flox, Cally	U of Utah (USOE)	2013-14 BTSALP BYU Region Professional Development Plan	7/1/2013	6/30/2014	\$94,560	3
Flox, Cally		Art Works for Kids	Art Works for Kids 2013-2014	7/1/2013	6/30/2014	\$16,000	4
Young, Richard	w/ Caldarella, Paul	U of Kansas Ctr. for Res. (US DoED)	A Multi-Site Efficacy Trial of the Class-wide Function-related Intervention Teams "CW-FIT"	7/1/2012	6/30/2016	\$100,399	2
<b>Counseling, Psychology and Special Education</b>							
Fisher, Lane	w/Wiley, David	Hewlett Foundation	Open Assessment Competition	7/22/2013	7/22/2014	\$66,667	4
Marchant, Michelle		USOE (US Dept of Ed)	Summer Mentor Teachers	7/1/2013	6/30/2014	\$69,775	2
<b>Instructional Psychology and Technology</b>							
Robinson, Jared	w/Wiley, David	Hewlett Foundation	Open Assessment Competition	7/22/2013	7/22/2014	\$66,666	4
Wiley, David		Hewlett Foundation	Open Assessment Competition	7/22/2013	7/22/2014	\$66,667	4
<b>Teacher Education</b>							
Jensen, Bryant		U of Michigan (Spencer Foundation)	Measuring Cultural Dimensions of Classroom Interations	3/1/2013	2/28/2014	\$25,000	4
Pinnegar, Stefinee		US Dept of Ed	Simultaneous RENEWAL for the Education of English Learners through Professional Development for University Faculty and Public School Teachers	5/1/2012	4/30/2014	\$398,745	1

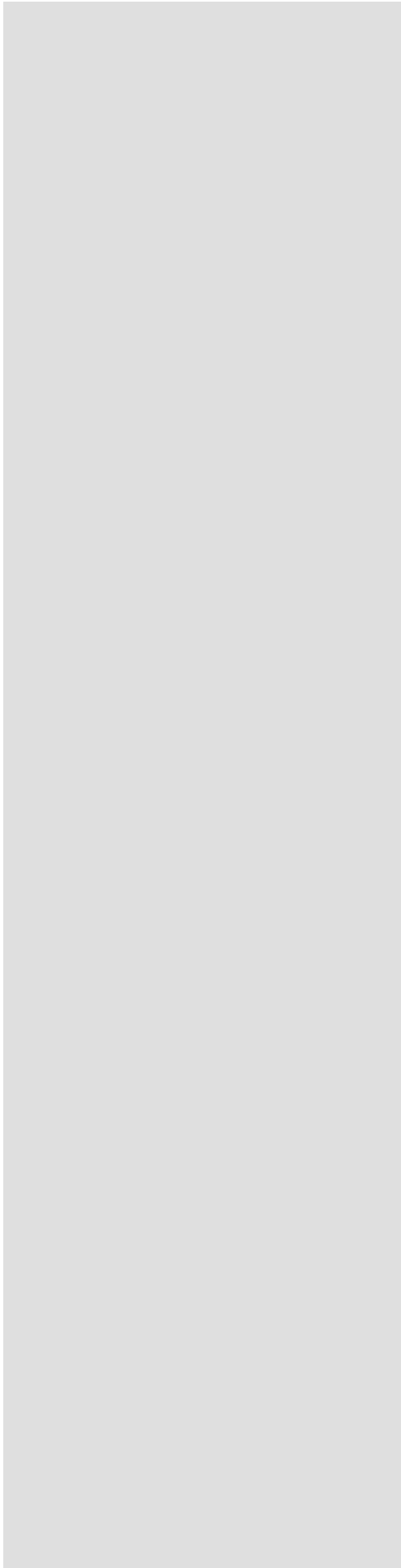
Type: 1=Federal; 2=Federal Subcontract; 3=State; 4=Private

Department Totals	
Communication Disorders	\$0
Center for Improvement of Teacher Education and Schooling (CITIES)	\$405,918
Continuing Education	\$0
Counseling Psychology & Special Education	\$136,442
Educational Leadership & Foundations	\$0
Instructional Psychology & Technology	\$133,333
Teacher Education	\$423,745
<b>College Total:</b>	<b>\$1,099,438</b>

# Education

## Source Breakdown of Grants and Contracts

<b>Sponsor</b>	<b>Number Awarded</b>	<b>Total Amount</b>
<b>Federal</b>		
US Dept of Education	1	\$398,745
<i>Total</i>	1	\$398,745
<b>Subcontracts</b>		
USOE (DoED)	1	\$69,775
U of Kansas Center for Research (DoED)	2	\$200,798
<i>Total</i>	3	\$270,573
<b>State</b>		
U of U (USOE)	2	\$189,120
<i>Total</i>	2	\$189,120
<b>Private</b>		
Art Works for Kids	1	\$16,000
Hewlett Foundation	3	\$199,999
U of Michigan (Spencer Foundation)	1	\$25,000
<i>Total</i>	4	\$240,999
<b>Grand Total</b>	11	\$1,099,438

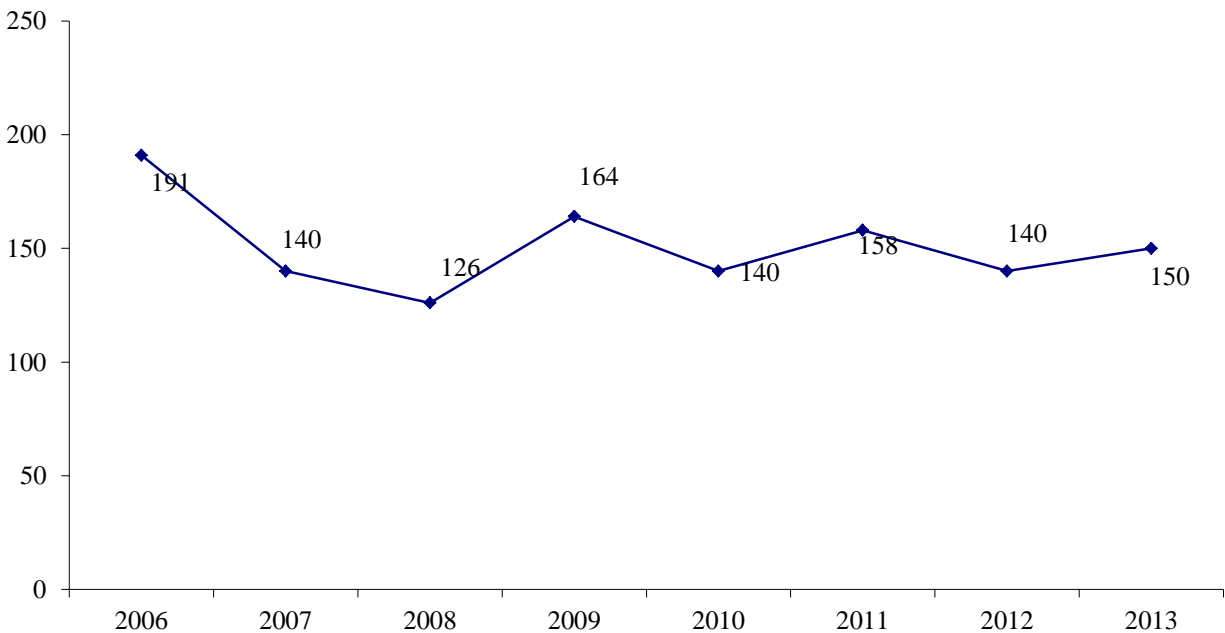


# Fulton College of Engineering & Technology

# Summary of Sponsored Research (Grants & Contracts)

Department	# of Faculty Submitting	# of Proposals Submitted	# of Awards	Dollars Awarded
Chemical Engineering	10	23	18	\$2,566,893
Civil & Environmental Engineering	12	33	20	\$1,603,083
Electrical & Computer Engineering	14	35	40	\$4,116,114
Mechanical Engineering	19	49	68	\$2,838,993
School of Technology	5	10	4	\$589,878
<b>TOTALS</b>	60	150	150	\$11,714,961

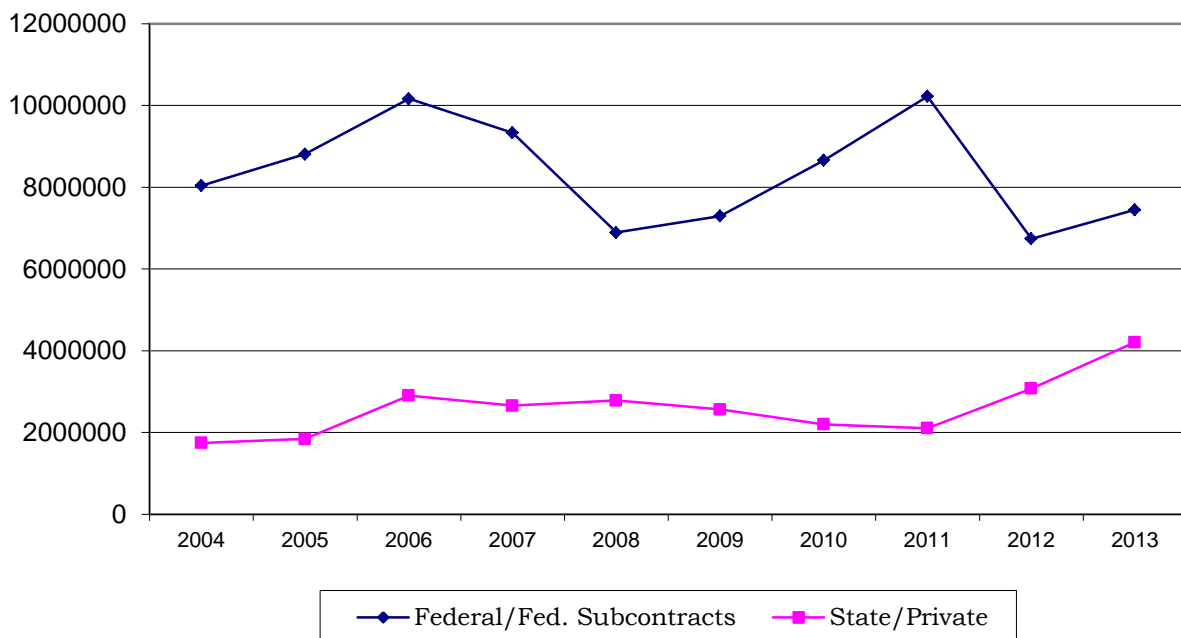
## Proposal Submission Activity





# External Research Funding (All Sources)

Year	Grants/Contracts		Total
	Federal/Federal Subcontracts	State/Private	
2004	\$8,037,592	\$1,745,891	\$9,783,483
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	\$4,268,437	\$11,714,961



# College of Engineering & Technology 2013 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>
<b>Civil and Environmental Engineering</b>								
Ames, Daniel		Bureau of Reclamation	Prototype Tool for Integrated Climate Downscaling and Streamflow Prediction using Open Source G15	7/18/2013	5/30/2015	R0202396	\$36,860	1
Williams, Gus	w/Miller, Wood	Bureau of Reclamation	Sediment Delta and Water Quality Interactions	8/27/2009	9/30/2014	R0202282	\$19,008	1
Wood, Miller		Bureau of Reclamation	Sediment Delta and Water Quality Interactions	8/27/2009	9/30/2014	R0202282	\$19,007	1
Balling, Richard		EPA	Greenplex-A Sustainable Urban Form for the 21st Century	8/15/2013	8/14/2014	R0202406	\$15,000	1
Ames, Dan		CUAHSI (NSF)	HydroDesktop Support	2/1/2013	1/31/2014	R0302511	\$20,000	2
Jones, Norm		CUAHSI (NSF)	Envisioning a Digital Crust for Simulating Continental-Scale Subsurface Fluid Flow in Earth System Models	9/1/2012	8/31/2013	R0302487	\$23,400	2
Williams, Gus		LANL (DOE)	HIS Solids Characterizations - Model Selection and TES	10/8/2013	9/15/2015	R0302535	\$101,553	2
Ames, Dan		USU (NSF)	HydroShare: Interactive software infrastructure for sustaining collaborative community innovation in the hydro science	7/1/2012	6/30/2014	R0302479	\$89,634	2
Ames, Daniel		UT Austin (NSF)	EarthCube Building Blocks: Integrating Discrete and Continuous Data	9/15/2013	8/31/2015	R0302541	\$101,771	2
Ames, Daniel	w/Aanderud, Zachary	Utah State U.(NSF)	iUtah-innovative Urban Transitions and Arid region Hrydro-sustainability	8/1/2012	7/31/2014	R0302477	\$79,145	2
Saito, Mitsuru		Iowa Dept of Transportation	Aurora project: Cameras and operational impact of remote road condition monitoring	3/1/2013	6/30/2013	R0492035	\$25,000	3
Guthrie, Spencer		UDOT	Evaluation of Internal Curing of Concrete Bridge Decks	3/1/2012	12/31/2014	R0402204	\$18,000	3
Guthrie, Spencer		UDOT	Thermal Behavior of Natural-Colored and Darkened Portland Cement Concrete Pavement	6/12/2013	4/30/2017	R0402220	\$30,000	3
Hotchkiss, Rollin		UDOT	Environmentally Friendly and Sustainable Stream Stability in Vicinity of Bridges	1/30/2013	2/25/2013	R0402217	\$60,000	3
Rollins, Kyle		UDOT	Passive Force-Displacement Relationships for Skewed Abutments	8/13/2012	9/30/2014	R0402213	\$105,000	3
Rollins, Kyle		UDOT	Shaking Table Testing to Evaluate Effectiveness of Vertical Drains for Liquefaction Mitigation	5/1/2013	3/31/2016	R0402218	\$115,000	3
Rollins, Kyle		UDOT	Evaluation of Lateral Pile Resistance Near MSE Walls at a Dedicated Wall Site	12/2/2013	9/30/2016	R0402230	\$204,500	3

Saito, Mitsuru		UDOT	Calibration of Automatic Performance Measures: Speek and Volume Data	10/9/2013	6/30/2015	R0402228	\$135,000	3
Schultz, Grant	w/Saito, Mitsuru	UDOT	Calibration of Automatic Performance Measures: Speek and Volume Data	10/9/2013	6/30/2015	R0402228	\$135,000	3
Schultz, Grant		UDOT	Traffic & Safety Modeling 2013/2014	10/9/2013	8/31/2015	R0402229	\$135,005	3
Richards, Paul		American Institute of Steel Construction	Base Column Connections with Shallow Embedment	1/1/2014	10/31/2017	R0502197	\$120,000	4
Guthrie, Spencer		Convergent Concrete Technologies	Performance of Nano-Lithium Sealers for Concrete Barrier Walls on Highways in Cold Regions	5/1/2013	12/31/2016	R0602415	\$4,200	4
Guthrie, Spencer		Springville City	Effect of Road Cuts on Pavement Condition: Quantifying Remaining Service Life	5/1/2013	8/31/2013	R0492038	\$11,000	4
<b>Chemical Engineering</b>								
Bundy, Brad		DARPA	Optimized Cell-free Synthetic Systems to Expand the Language of Biology	8/1/2013	7/31/2016	R0202397	\$249,582	1
Bundy, Brad		NSF	CAREER: Controlled Enzyme Biocatalyst Immobilization	7/15/2013	6/30/2018	R0112235	\$400,717	1
Hedengren, John	w/McLain, Tim	NSF	I/UCRC: Center for Unmanned Aircraft Systems - CORBI Supplement	3/1/2012	2/28/2017	R0112200	\$12,499	1
Hedengren, John	w/McLain, Tim	NSF	I/UCRC Phase I: Center for Unmanned Aircraft Systems	3/1/2012	2/28/2017	R0112200	\$49,984	1
Hedengren, John	w/McLain, Tim	NSF	I/UCRC Phase I: Center for Unmanned Aircraft Systems	3/1/2012	2/28/2017	R0112200	\$1,350	1
Hedengren, John	w/McLain, Tim	NSF	C-UAS Membership - AFRL Munitions Directorate	9/1/2012	8/31/2014	R0112221	\$9,998	1
Hedengren, John	w/McLain, Tim	NSF	C-UAS Membership - NASA Dryden	9/1/2012	8/31/2014	R0112221	\$9,960	1
Mazzeo, Brian	w/ Wheeler, Dean	Lawrence Berkeley National Laboratory	Predicting Electrode Microstructure and Performance for Optimal Cell Fabrication	4/10/2013	4/1/2017	R0302504	\$24,812	2
Wheeler, Dean		Lawrence Berkeley National Laboratory	Predicting Electrode Microstructure and Performance for Optimal Cell Fabrication	4/10/2013	4/1/2017	R0302504	\$24,813	2
Wheeler, Dean		LBNL (DOE)	Predicting Electrode Microstructure and Performance for Optimal Cell Fabrication	4/10/2013	4/1/2017	R0302504	\$74,688	2
Lignell, David		Sandia National Labs DOE)	Statistics of Particle Time Histories in Turbulent Reacting Flows	4/21/2011	4/30/2014	R0302387	\$75,000	2
Fletcher, Tom		U of U (DOE)	Utah Clean Coal Program - Char and Soot Kinetics and Mechanisms	5/15/2011	11/30/2013	R0302264	\$10,400	2
Lignell, David		UofU (DOE NNSA)	Accelerating Deployment of Retrofittable CO <sub>2</sub> Capture Technologies through Predictivity--Carbonate Precipitation	10/1/2010	9/30/2013	R0302369	\$60,000	2

Fletcher, Tom		UofU (DOE)	CASE from Unconventional Fuels	4/27/2011	8/31/2013	R0302392	\$10,000	2
Knotts, Thomas	w/Wilding, Vince	AIChE	DIPPR Project 801 - 2014	1/1/1998	12/31/2014	R0601001	\$230,000	4
Wilding, Vince		AIChE	DIPPR Project 801 - 2014	1/1/1998	12/31/2014	R0601001	\$230,000	4
Hedengren, John	w/Tim McLain	British Petroleum	C-UAS I/UCRC Membership Dues	7/1/2013	6/30/2014	R0602390	\$8,000	4
Harb, John		CD-adapco	Fundamental Modeling of Electrochemical Corrosion in Multiple Spatial Dimensions with Star CCM+	9/1/2013	8/31/2016	R0602420	\$96,000	4
Rowley, Richard	w/Wilding, Vincent	DIPPR	2013 Extension	1/1/1998	12/31/2015	R0601001	\$260,000	4
Wilding, Vincent		DIPPR	2013 Extension	1/1/1998	12/31/2015	R0601001	\$260,000	4
Wheeler, Dean		Duracell	Volumetrically Efficient Carbon Additives: Microstructure and Conductivity	5/1/2012	6/30/2014	R0602393	\$80,000	4
Hedengren, John	w/McLain, Tim	Insitu, Inc.	C-UAS I/UCRC Membership Dues	9/1/2012	9/1/2014	R0602390	\$8,000	4
Bundy, Brad		National Pork Board	A Cell-free synthesis approach for the rapid and cost effective production of foot and mouth disease vaccines	7/1/2013	6/30/2014	R0502180	\$75,000	4
Harb, John	w/Woolley, Adam	Semiconductor Research Corporation	Formation of Conductive Metal-semiconductor Interconnects with Sub 5-nm Linewidths	10/1/2013	9/30/2014	R0602429	\$41,670	4
Hecker, William		SGC Energia	Fischer-Tropsch Consortium I/UCRC Membership	4/1/2013	3/31/2015	R0602216	\$50,000	4
Baxter, Larry		Sustainable Energy Solutions	Cryogenic CO2 Capture Research	4/5/2009	12/31/2014	R0602280	\$60,000	4
Baxter, Larry		Sustainable Energy Solutions	Cryogenic CO2 Capture Research	4/5/2009	12/31/2014	R0602280	\$60,000	4
Hedengren, John		Sustainable Energy Solutions	Enhancing the Smart Grid with Energy Storage for Cyrogenic Carbon Capture	9/1/2013	1/1/2016	R0602426	\$84,420	4
Hedengren, John		Vertex Pharmaceuticals Inc.	Evaluation of Cutting-Edge Optimization Algorithms	6/1/2013	5/30/2014	R0602419	\$10,000	4
<b>Electrical and Computer Engineering</b>								
Beard, Randal		AFRL	A Novel Algorithm for Tracking Multiple Targets with Significant Background Clutter	9/30/2013	9/29/2014	R0202401	\$115,000	1
Nelson, Brent	w/Wirthlin, Michael	Kirtland Air Force Base (via NSF)	Kirtland Air Force Base CHREC I/UCRC Membership Fees	1/31/2009	1/31/2016	R0112115	\$19,920	1
Wirthlin, Michael		Kirtland Air Force Base (via NSF)	Kirtland Air Force Base CHREC I/UCRC Membership Fees	1/31/2009	1/31/2016	R0112115	\$19,921	1

Long, David		NASA	Research Opportunities in Space and Earth Science (ROSES 2012)	3/15/2013	3/14/2017	Ro162017	\$102,279	1
Long, David		NASA	Brightness Temperature Climate Records	7/22/2010	7/21/2014	Ro162010	\$90,000	1
Long, David		NASA	Brightness Temperature Climate Records	7/22/2010	7/21/2014	Ro162010	\$154,945	1
Long, David		NASA	Brightness Temperature Climate Records	7/22/2010	7/21/2014	Ro162010	\$90,000	1
Beard, Randal	w/ McLain, Tim	NSF	I/UCRC Phase I: Center for Unmanned Aircraft Systems	3/1/2012	2/28/2017	Ro112200	\$20,000	1
Beard, Randal	w/McLain, Tim	NSF	C-UAS NSF I/UCRC REV Supplement	3/1/2012	2/28/2017	Ro112200	\$4,000	1
Beard, Randal	w/McLain, Tim	NSF	C-UAS NSF I/UCRC REU Supplement	3/1/2012	2/28/2017	Ro112200	\$2,500	1
Beard, Randall	w/McLain, Tim	NSF	I/UCRC Phase I: Center for Unmanned Aircraft Systems	3/1/2012	2/28/2017	Ro112200	\$49,984	1
Beard, Randall	w/McLain, Tim	NSF	I/UCRC Phase I: Center for Unmanned Aircraft Systems	3/1/2012	2/28/2017	Ro112200	\$1,350	1
Beard, Randy	w/McLain, Tim	NSF	C-UAS REU Supplement	3/1/2012	2/28/2017	Ro112200	\$4,000	1
Beard, Randy	w/McLain, Tim	NSF	I/UCRC: Center for Unmanned Aircraft Systems - CORBI Supplement	3/1/2012	2/28/2017	Ro112200	\$12,500	1
Hutchings, Brad	w/Wirthlin, Michael	NSF	CHREC Phase II - BYU Site	4/1/2013	3/31/2018	Ro112225	\$13,333	1
Jeffs, Brian		NSF	Collaborative Research: Development of a Millimeter-wave Phased Focal Plane Array	7/1/2012	6/30/2014	Ro112190	\$43,293	1
Jeffs, Brian	w/Warnick, Karl	NSF	Wide-Field L-band Focal Plane Array Beamformer for Pulsar, Diffuse Hydrogen, and Fast Transient Surveys on the GBT	9/1/2013	8/31/2016	Ro112241	\$220,531	1
Nelson, Brent	w/Wirthlin, Michael	NSF	CHREC Phase II - BYU Site	4/1/2013	3/31/2018	Ro112225	\$13,333	1
Nelson, Brent		NSF	AFRL Kirtland Air Force Base CHREC Membership	1/31/2009	1/31/2014	Ro112115	\$17,549	1
Warnick, Karl	w/ Jeffs, Brian	NSF	Collaborative Research: Development of a Millimeter-wave Phased Focal Plane Array	7/1/2012	6/30/2014	Ro112190	\$43,292	1
Warnick, Karl		NSF	Wide-Field L-band Focal Plane Array Beamformer for Pulsar, Diffuse Hydrogen, and Fast Transient Surveys on the GBT	9/1/2013	8/31/2016	Ro112241	\$220,532	1
Wirthlin, Michael		NSF	CHREC Phase II - BYU Site	4/1/2013	3/31/2018	Ro112225	\$13,334	1
Wirthlin, Michael		NSF	BYU Site for CHREC I/UCRC - CORBI Supplement	1/31/2009	1/31/2016	Ro112109	\$49,998	1

Wirthlin, Mike		NSF	REU Supplement	1/31/2009	1/31/2014	R0112109	\$14,960	1
Wirthlin, Mike	w/ Nelson, Brent	NSF	AFRL Kirtland Air Force Base CHREC Membership	1/31/2009	1/31/2014	R0112115	\$17,548	1
Beard, Randall	w/McLain, Tim	NSF	C-UAS Membership - AFRL Munitions Directorate	9/1/2012	8/31/2014	R0112221	\$9,998	1
Beard, Randall	w/McLain, Tim	NSF	C-UAS Membership - NASA Dryden	9/1/2012	8/31/2014	R0112221	\$9,960	1
Rice, Michael		U.S. Army	Preamble assisted equalization for aeronautical telemetry	3/6/2013	3/5/2014	R0202386	\$787,776	1
Schultz, Stephen		U.S. Army	Optical Fiber Sensors for Non-intrusive voltage measurements on HPM Targets (ONiT)	2/4/2-13	2/3/2014	R0202384	\$125,176	1
Selfridge, Richard	w/Schultz, Stephen	U.S. Army	Optical Fiber Sensors for Non-intrusive voltage measurements on HPM Targets (ONiT)	2/4/2-13	2/3/2014	R0202384	\$125,176	1
Hawkins, Aaron	w/Mazzeo, Brian	US Army	Student Intern Support	9/26/2012	9/23/2014	R0202375	\$20,000	1
Jensen, Michael		US Army	Propagation Analysis and Performance Assessment for Mutli-Antenna Communications in Combat Environment	9/4/2012	3/3/2014	R0202394	\$160,000	1
Mazzeo, Brian		US Army	Student Intern Support	9/26/2012	9/23/2014	R0202375	\$20,000	1
Jeffs, Brian	w/ Warnick, Karl	Cornell University (NSF)	Digital Signal Processing for 2012-2013 Arecibo AO40 Cryogenic PAF Prototype Test	1/16/2013	6/30/2013	R0302499	\$32,744	2
Warnick, Karl		Cornell University (NSF)	Digital Signal Processing for 2012-2013 Arecibo AO40 Cryogenic PAF Prototype Test	1/16/2013	6/30/2013	R0302499	\$32,744	2
Long, David		Jet Propulsion Lab	BYU support for QuickSCAT Senior Review Activities	3/14/2012	9/29/2013	R0302452	\$232,477	2
Long, David		JPL	JPL/BYU Graduate Fellowship Program for 2013 School Year	1/1/2011	12/31/2013	R0302420	\$30,600	2
Long, David		JPL (NASA)	Development of Operational X-Factor Generation Software for the ISS-RapidScat Mission	6/25/2013	6/24/2014	R0302521	\$36,948	2
Nelson, Brent	w/Wirthlin, Michael	LANL	Membership Fee - CHREC I/UCRC	12/1/2007	12/31/2013	R0302240	\$20,000	2
Wirthlin, Michael		LANL	Membership Fee - CHREC I/UCRC	12/1/2007	12/31/2013	R0302240	\$20,000	2
Mazzeo, Brian	w/ Wheeler, Dean	LBNL (DOE)	Predicting Electrode Microstructure and Performance for Optimal Cell Fabrication	4/10/2013	4/1/2017	R0302504	\$74,687	2
Beard, Randal		MLB Company (Air Force)	Long Endurance VTOL Tailsitter UAV	2/1/2013	1/31/2014	R0302502	\$45,607	2
Rice, Michael		Open Door Technologies (US Army PEO STRI)	Development, Analysis and Prototyping of Modulation Agile Radio for Aeronautical Telemetry	7/8/2013	7/7/2014	R0302525	\$98,025	2

Beard, Randy		Sentix Corporation (NASA)	Mission-Aware Payloads for Unmanned Platforms	6/1/2013	12/1/2013	R0302520	\$45,000	2
Bangerter, Neal		Stanford (NIH)	Rapid MRI for Evaluation of Osteoarthritis	6/1/2010	3/31/2014	R0302341	\$111,085	2
Smalley, Daniel		TIPD LLC (AFRL)	Full Parallax Holographic Video Proof of Concept	6/17/2013	3/17/2014	R0302533	\$20,000	2
Smalley, Daniel		TIPD, LLC	Holographic Video Display Using Novel Guided-wave Scanning System (HVD-GWSS)	6/17/2013	3/17/2014	R0302533	\$20,000	2
Hawkins, Aaron		UC Santa Cruz (NIH)	A dual-nanopore instrument for single DNA measurements and control	4/11/2012	1/31/2014	R0302462	\$46,575	2
Hawkins, Aaron		UC Santa Cruz (NIH)	A dual-nanopore instrument for single DNA measurements and control	4/11/2012	1/31/2014	R0302462	\$5,175	2
Hawkins, Aaron		UC Santa Cruz (NIH)	Hybrid integrated molecular analysis (HIMAS) for point-of-care diagnostics	6/1/2012	5/31/2014	R0302466	\$44,000	2
Long, David		University of Colorado (NASA)	Investigations of Spatial and Temporal Variability of Ocean and Ice Conditions In and Near the Marginal Ice Zone	9/1/2011	8/31/2013	R0302411	\$93,000	2
Hutchings, Brad		University of Southern California (IARPA)	Kill Switches for FPGA's	9/27/2013	9/26/2014	R0302538	\$120,180	2
Homer, Eric		UofU (NASA EPCSoR)	Feasibility and Reliability of Bulk Metallic Glass Compliant Mechanisms for Space Applications	10/17/2012	10/18/2013	R0302500	\$25,000	2
Long, David		UofU (NASA)	Rocky Mountain Space Grant Consortium Student Fellowship	5/6/2011	5/5/2014	R0302349	\$87,900	2
Beard, Randal	w/ Seppi, Kevin	Utopia Compression (Air Force)	Enhancing Cooperative Control with Hierarchical Intelligence and Learning - Phase II	11/1/2013	10/31/2014	R0302543	\$15,000	2
Beard, Randal		Utopia Compression (Air Force)	Learning in the Context of Intelligent Control	11/1/2013	10/31/2014	R0302546	\$21,215	2
Long, David		Ball Aerospace & Technologies	BYU Scatterometer Model Modification Effort	8/20/2013	10/31/2013	R0602423	\$51,464	4
Beard, Randy	w/Tim McLain	British Petroleum	C-UAS I/UCRC Membership Dues	7/1/2013	6/30/2014	R0602390	\$8,000	4
Warnick, Karl	w/Tim McLain	British Petroleum	C-UAS I/UCRC Membership Dues	7/1/2013	6/30/2014	R0602390	\$8,000	4
Beard, Randal	w/McLain, Tim	Insitu, Inc.	C-UAS I/UCRC Membership Dues	9/1/2012	9/1/2014	R0602390	\$8,000	4
Warnick, Karl	w/McLain, Tim	Insitu, Inc.	C-UAS I/UCRC Membership Dues	9/1/2012	9/1/2014	R0602390	\$8,000	4
Warnick, Karl		Linear Signal, LLC	Low Cost Electronically Steered Phased Arrays for Satellite Communications	5/1/2010	5/1/2015	R0602317	\$22,500	4
Wirthlin, Michael		Lockheed Martin	CHREC I/UCRC Membership Dues	1/1/2014	12/31/2014	R0602229	\$40,000	4

Hutchings, Brad	w/Wirthlin, Michael	National Instruments	Membership Fee - CHREC I/UCRC	11/27/2007	12/31/2013	R0602229	\$13,333	4
Nelson, Brent	w/Wirthlin, Michael	National Instruments	Membership Fee - CHREC I/UCRC	11/27/2007	12/31/2013	R0602229	\$13,333	4
Wirthlin, Michael		National Instruments	Membership Fee - CHREC I/UCRC	11/27/2007	12/31/2013	R0602229	\$13,334	4
Nelson, Brent	w/Wirthlin, Michael	SEAKR	Membership Fee - CHREC I/UCRC	11/27/2007	12/31/2013	R0602229	\$20,000	4
Wirthlin, Michael		SEAKR	Membership Fee - CHREC I/UCRC	11/27/2007	12/31/2013	R0602229	\$20,000	4
<b>Mechanical Engineering</b>								
Mattson, Chris		AFOSR	University Engineering Design Challenge	9/30/2011	9/29/2014	R0202353	\$10,000	1
McLain, Tim	w/Mattson, Chris	AFOSR	University Engineering Design Challenge	9/30/2011	9/29/2014	R0202353	\$10,000	1
Homer, Eric		NASA	NASA NSTRF Thomas Hardin Fellowship	9/1/2013	8/31/2015	R0162019	\$68,000	1
Howell, Larry		NASA	Compliant Space Mechanisms	2/1/2013	1/31/2016	R0162016	\$26,000	1
Howell, Larry		NASA	Compliant Space Mechanisms	2/28/2013	1/31/2016	R0162016	\$16,441	1
Howell, Larry		NASA	Shannon Zirbel fellowship	8/1/2012	7/31/2016	R0162015	\$65,834	1
Howell, Larry		NASA	NSTRF Fellowship for Ezekiel Merriam	9/1/2013	8/31/2017	R0162018	\$68,000	1
Howell, Larry		NASA	Compliant Space Mechanisms	2/1/2013	1/31/2016	R0162016	\$17,500	1
Howell, Larry		NASA	Compliant Space Mechanisms	2/1/2013	1/31/2016	R0162016	\$10,000	1
Howell, Larry		NASA	Compliant Space Mechanisms	2/1/2013	1/31/2016	R0162016	\$12,500	1
Trent, Jim	w/ Howell, Larry	NASA	Compliant Space Mechanisms	2/1/2013	1/31/2016	R0162016	\$17,500	1
Trent, Jim	w/ Howell, Larry	NASA	Compliant Space Mechanisms	2/1/2013	1/31/2016	R0162016	\$10,000	1
Trent, Jim	w/Howeli, Larry	NASA	Compliant Space Mechanisms	2/1/2013	1/31/2016	R0162016	\$12,500	1
Thomson, Scott		NIH	Influence of Subglottic Anatomy of Voice Production	7/1/2009	6/30/2014	R0102031	\$145,063	1



Truscott, Tadd	w/ Thomson, Scott	NIH	Influence of Subglottic Anatomy of Voice Production	7/1/2009	6/30/2014	R0102031	\$145,063	1
Colton, Mark	w/ Tim McLain	NSF	I/UCRC Phase I: Center for Unmanned Aircraft Systems	3/1/2012	2/28/2017	R0112200	\$20,000	1
Colton, Mark	w/McLain, Tim	NSF	C-UAS NSF I/UCRC REV Supplement	3/1/2012	2/28/2017	R0112200	\$4,000	1
Colton, Mark	w/McLain, Tim	NSF	C-UAS NSF I/UCRC REU Supplement	3/1/2012	2/28/2017	R0112200	\$2,500	1
Hedengren, John	w/McLain, Tim	NSF	C-UAS REU Supplement	3/1/2012	2/28/2017	R0112200	\$4,000	1
Jensen, Brian		NSF	REU Supplement	5/1/2011	4/30/2016	R0112185	\$16,000	1
Jensen, Greg		NSF	I/UCRC Center for e-Design	2/15/2011	1/31/2017	R0112181	\$54,999	1
Mattson, Chris		NSF	Collaborative Research: Evolvable Engineering Systems	6/1/2013	5/31/2016	R0112229	\$10,000	1
Mattson, Christopher		NSF	Collaborative Research: Mitigating Emergent System Behavior through System Evolvability	6/1/2013	5/31/2016	R0112229	\$200,196	1
McLain, Tim		NSF	I/UCRC Phase I: Center for Unmanned Aircraft Systems	3/1/2012	2/28/2017	R0112200	\$20,000	1
McLain, Tim		NSF	C-UAS NSF I/UCRC REU Supplement	3/1/2012	2/28/2017	R0112200	\$4,000	1
McLain, Tim		NSF	C-UAS NSF I/UCRC REV Supplement	3/1/2012	2/28/2017	R0112200	\$2,500	1
McLain, Tim		NSF	C-UAS REU Supplement	3/1/2012	2/28/2017	R0112200	\$4,000	1
McLain, Tim		NSF	I/UCRC: Center for Unmanned Aircraft Systems - CORBI Supplement	3/1/2012	2/28/2017	R0112200	\$12,500	1
McLain, Tim		NSF	I/UCRC Phase I: Center for Unmanned Aircraft Systems	3/1/2012	2/28/2017	R0112200	\$49,985	1
McLain, Tim		NSF	C-UAS Membership - AFRL Munitions Directorate	9/1/2012	8/31/2014	R0112221	\$9,998	1
McLain, Tim		NSF	I/UCRC Phase I: Center for Unmanned Aircraft Systems	3/1/2012	2/28/2017	R0112200	\$1,350	1
Thomson, Scott	w/Truscott, Tadd	NSF	MRI: Development of a Multi-Camera Synthetic Aperture Technique for Measuring High-Speed, Unsteady, Three-Dimensional Velocity Flow Fields	9/1/2011	8/31/2014	R0112193	\$5,000	1
Truscott, Tadd		NSF	MRI: Development of a Multi-Camera Synthetic Aperture Technique for Measuring High-Speed, Unsteady, Three-Dimensional Velocity Flow Fields	9/1/2011	8/31/2014	R0112193	\$5,000	1

Webb, Brent		NSF	Graduate Research Fellowship Program	7/11/2013	6/30/2017	R0112210	\$50,000	1
McLain, Tim		NSF	C-UAS Membership - NASA Dryden	9/1/2012	8/31/2014	R0112221	\$9,961	1
Truscott, Tadd		ONR	Water Surface Skipping of Elastic Bodies	4/15/2013	12/31/2013	R0202390	\$10,000	1
Truscott, Tadd		ONR	Water Surface Skipping of Elastic Bodies	4/15/2013	12/31/2013	R0202390	\$65,000	1
Maynes, Daniel		Concepts NREC (Air Force)	CFD Modeling of the LSAM Inducer	1/1/2013	5/22/2013	R0302501	\$20,000	2
Tree, Dale		Gas Technology Institute (DOE)	Demonstration of an oxy-coal molten bed burner	12/15/2012	9/30/2013	R0302493	\$98,574	2
Gorrell, Steve		Innovative Scientific Solutions, Inc.	Experimental Analysis of Turbine Performance Driven by Pulsed Flow	1/1/2013	8/31/2013	R0302492	\$51,607	2
McLain, Tim	w/ Beard, Randal	MLB Company (Air Force)	Long Endurance VTOL Tailsitter UAV	2/1/2013	1/31/2014	R0302502	\$45,607	2
Homer, Eric		Sandia National Labs	Model for coupled microstructural and compositional evolution in materials	3/18/2013	9/20/2013	R0302497	\$23,740	2
McLain, Tim		Scientific Systems Co. Inc.	SBIR Topic OSD12-AU3	4/26/2013	12/14/2013	R0302506	\$39,897	2
Tree, Dale		Air Liquide	Flame Temperature, Nox, and Burnout Measurements of Biomass in Air and Oxygen Enriched Flame	5/1/2009	3/31/2014	R0602288	\$9,500	4
Webb, Brent		Air Liquide	Measurements of Flame Stability, Heat Flux, and Temperature	5/1/2009	12/31/2013	R0602327	\$15,000	4
Fullwood, David	w/Miles, Michael	American Iron & Steel Institute	Microscopic Fracture Mechanisms Evaluation of AHSS by Dislocation Microscopy and Micro DIC	9/25/2013	12/21/2013	R0502195	\$17,500	4
Gorrell, Steve		Boeing	Development and Delivery of AeroPACE Capstone Project Q4 2013-Q4 2016	12/6/2013	12/31/2016	R0602430	\$235,000	4
Jensen, Greg		Boeing	Collaborative Senior Design Project; Continuation	9/20/2011	4/26/2013	R0602365	\$40,000	4
Jensen, Greg		Boeing	Collaborative Senior Project, continuation	9/20/2011	12/6/2013	R0602365	\$35,000	4
Jensen, Greg	w/Gorrel, Steve	Boeing	Development and Delivery of AeroPACE Capstone Project Q4 2013-Q4 2016	12/6/2013	12/31/2016	R0602430	\$235,000	4
Jensen, Greg		Boeing	Center for e-Design I/UCRC Membership Dues 2013	2/1/2011	1/31/2014	R0602349	\$15,000	4
Red, Ed	w/ Jensen, Greg	Boeing	Collaborative Senior Design Project; Continuation	9/20/2011	4/26/2013	R0602365	\$40,000	4
Red, Ed	w/ Jensen, Greg	Boeing	Collaborative Senior Project, continuation	9/20/2011	12/6/2013	R0602365	\$35,000	4

Red, Ed		Boeing	Center for e-Design I/UCRC Membership Dues 2013	2/1/2011	1/31/2014	Ro602349	\$15,000	4
McLain, Tim		British Petroleum	C-UAS I/UCRC Membership Dues	7/1/2013	6/30/2014	Ro602390	\$8,000	4
Blotter, Jon	w/Sommerfeldt, Scott	Caterpillar	Measurement of Sound Power using Energy Density and Multi-Driver Source Development	3/1/2011	12/31/2013	Ro602358	\$16,755	4
Jensen, Greg		CD-adapco	Membership Fee - Center for e-Design I/UCRC	1/1/2011	12/31/2016	Ro602349	\$7,500	4
Jensen, Greg		CD-adapco	Center for e-Design I/UCRC Membership	10/16/2012	10/15/2015	Ro602349	\$3,750	4
Jensen, Greg		CD-adapco	Center for e-Design I/UCRC Membership Dues Q1 2014	10/16/2012	10/15/2015	Ro602349	\$3,750	4
Red, Ed	w/Greg Jensen	CD-adapco	Center for e-Design I/UCRC Membership	10/16/2012	10/15/2015	Ro602349	\$3,750	4
Red, Ed	w/Jensen, Greg	CD-adapco	Center for e-Design I/UCRC Membership Dues Q1 2014	10/16/2012	10/15/2015	Ro602349	\$3,750	4
Maynes, Daniel		Concepts NREC	CFD Modeling of the LSAM Inducer	10/18/2013	12/1/2013	Ro602434	\$15,000	4
Fullwood, David		EDAX	Advances in Electron Backscatter Diffraction: Techniques and Applications	1/1/2014	12/31/2016	Ro602431	\$120,000	4
Nelson, Tracy		Electric Power Research Institute	A detailed Study of Friction Stir Welded Austenitic Materials for Repair in Nuclear Applications	7/20/2013	12/31/2013	Ro602396	\$40,890	4
Sorenson, Carl	w/ Nelson, Tracy	Electric Power Research Institute	A detailed Study of Friction Stir Welded Austenitic Materials for Repair in Nuclear Applications	7/20/2013	12/31/2013	Ro602396	\$40,890	4
Fletcher, Tom		General Electric	Deposition of Ash from Heavy Fuel Oil in a Laboratory Gas Turbine Environment	2/20/2011	12/31/2013	Ro602357	\$19,200	4
Tree, Dale		General Electric	Deposition of Ash from Heavy Fuel Oil in a Laboratory Gas Turbine Environment	9/15/2010	12/31/2013	Ro602388	\$15,000	4
McLain, Tim		Insitu, Inc.	C-UAS I/UCRC Membership Dues	9/1/2012	9/1/2014	Ro602390	\$8,000	4
Howell, Larry	w/Jensen, Brian	Intuitive Surgical, Inc.	Flexure-Based Small Instrument Mechanism Research	6/10/2013	9/30/2014	Ro602417	\$20,000	4
Jensen, Brian		Intuitive Surgical, Inc.	Flexure-Based Small Instrument Mechanism Research	6/10/2013	9/30/2014	Ro602417	\$20,000	4
Magleby, Spencer	w/Jensen, Brian	Intuitive Surgical, Inc.	Flexure-Based Small Instrument Mechanism Research	6/10/2013	9/30/2014	Ro602417	\$20,000	4
Nelson, Tracy		JFE Steel	Friction Stir I/UCRC Membership	1/1/2011	12/31/2014	Ro602342	\$8,750	4
Nelson, Tracy		JFE Steel	Friction Stir Processing I/UCRC Membership Dues Q3	1/1/2011	12/31/2014	Ro602342	\$4,375	4

Nelson, Tracy		JFE Steel	Friction Stir Processing I/UCRC Membership Dues Q4	1/1/2011	12/31/2014	R0602342	\$4,375	4
Sorensen, Carl	w/ Nelson, Tracy	JFE Steel	Friction Stir Processing I/UCRC Membership Dues Q3	1/1/2011	12/31/2014	R0602342	\$4,375	4
Sorensen, Carl	w/ Nelson, Tracy	JFE Steel	Friction Stir Processing I/UCRC Membership Dues Q4	1/1/2011	12/31/2014	R0602342	\$4,375	4
Nelson, Tracy		JFE Steel Corporation	Membership Fee - Friction Stir Processing I/UCRC	1/1/2011	8/31/2014	R0602342	\$8,750	4
Nelson, Tracy		Manufacturing Technology	Friction Stir Processing I/UCRC Membership	4/1/2010	6/1/2013	R0602312	\$8,750	4
Nelson, Tracy		Manufacturing Technology Inc.	Friction Stir Processing I/UCRC Membership Dues	4/1/2010	8/31/2014	R0602312	\$8,750	4
Sorensen, Carl	w/ Nelson, Tracy	Manufacturing Technology Inc.	Friction Stir Processing I/UCRC Membership Dues	4/1/2010	8/31/2014	R0602312	\$8,750	4
Ed, Red	w/Jensen, Greg	PC Airfoils	e-Design I	1/1/2013	12/31/2013	R0602349	\$15,000	4
Jensen, Greg		PC Airfoils	e-Design I	1/1/2013	12/31/2013	R0602349	\$15,000	4
Jensen, Greg		PCC Airfoils	Center for e-Design I/UCRC Membership	9/7/2011	9/6/2013	R0602349	\$3,750	4
Jensen, Greg		PCC Airfoils	Center for e-Design I/UCRC Membership	9/7/2011	9/6/2013	R0602349	\$3,750	4
Jensen, Greg		PCC Airfoils	I/UCRC: Center for e-Design Membership	9/7/2011	9/7/2013	R0602349	\$3,750	4
Red, Ed	w/Jensen, Greg	PCC Airfoils	Center for e-Design I/UCRC Membership	9/7/2011	9/6/2013	R0602349	\$3,750	4
Red, Ed	w/Greg Jensen	PCC Airfoils	Center for e-Design I/UCRC Membership	9/7/2011	9/6/2013	R0602349	\$3,750	4
Red, Ed	w/ Jensen, Greg	PCC Airfoils	I/UCRC: Center for e-Design Membership	9/7/2011	9/7/2013	R0602349	\$3,750	4
Nelson, Tracy		Petrobras	Friction Stir Processing I/UCRC Membership Dues	4/25/2012	4/25/2016	R0602392	\$18,530	4
Sorensen, Carl	w/ Nelson, Tracy	Petrobras	Friction Stir Processing I/UCRC Membership Dues	4/25/2012	4/25/2016	R0602392	\$18,529	4
Red, Ed		Pratt & Whitney	Task #50, Piloting Advanced Collaboration Tools	1/2/2013	12/31/2013	R0602408	\$30,000	4
Jensen, Greg		Pratt and Whitney	Design Automation and Advanced Parametric Modeling	1/7/2013	#####	R0602409	\$72,414	4
Nelson, Tracy		SKB	Friction Stir I/UCRC Membership	10/31/2010	#####	R0602189	\$8,750	4

Nelson, Tracy		SKB	Friction Stir Processing I/UCRC Membership Dues Q3	9/1/2006	10/31/2013	Ro602189	\$4,375	4
Nelson, Tracy		SKB	Friction Stir Processing I/UCRC Membership Dues Q4	9/1/2006	10/31/2013	Ro602189	\$4,375	4
Nelson, Tracy		SKB	Friction Stir I/UCRC Membership Dues	10/31/2011	12/31/2013	Ro602189	\$4,375	4
Sorensen, Carl	w/ Nelson, Tracy	SKB	Friction Stir Processing I/UCRC Membership Dues Q3	9/1/2006	8/31/2014	Ro602189	\$4,375	4
Sorensen, Carl	w/ Nelson, Tracy	SKB	Friction Stir Processing I/UCRC Membership Dues Q4	9/1/2006	8/31/2014	Ro602189	\$4,375	4
Sorensen, Carl	w/Nelson, Tracy	SKB	Friction Stir I/UCRC Membership Dues	10/31/2010	12/31/2013	Ro602189	\$4,375	4
Maynes, Daniel		Union Pacific Railroad	Wind Tunnel Testing of Potential Coal Car Cover Design	5/20/2011	4/1/2014	Ro602364	\$17,720	4
<b>School of Technology</b>								
Miles, Michael		NSF	REU Supplement	9/1/2011	8/31/2014	Ro112194	\$5,000	1
Hansen, Derek		NSF	Advancing Informal STEM Learning Through Scientific Alternate Reality Games	10/1/2013	9/30/2016	Ro112242	\$278,689	1
Shumway, Steven	w/Hansen, Derek	NSF	Advancing Informal STEM Learning Through Scientific Alternate Reality Games	10/1/2013	9/30/2016	Ro112242	\$278,689	1
Miles, Michael		American Iron & Steel Institute	Microscopic Fracture Mechanisms Evaluation of AHSS by Dislocation Microscopy and Micro DIC	9/25/2013	12/21/2013	Ro502195	\$17,500	4
Christofferson, Jay		Leica Geosystems	Practices, Requirements and Demands of Laser-Equipped Instrumentation in Construction	9/3/2013	4/30/2014	Ro602427	\$10,000	4

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

Department Totals	
Chemical Engineering	\$2,566,893
Civil & Environmental Engineering	\$1,603,083
Electrical & Computer Engineering	\$4,166,114
Mechanical Engineering	\$2,838,993
School of Technology	\$589,878
<b>College Total:</b>	<b>\$11,714,961</b>

# Engineering & Technology Source Breakdown of Grants and Contracts

<u>Sponsor</u>	<u>No. Awarded</u>	<u>Amount</u>
<b>Federal Sponsors</b>		
AFOSR	2	\$20,000
AFRL	1	\$115,000
Bureau of Reclamation	3	\$466,860
DARPA	1	\$249,582
EPA	1	\$15,000
Kirtland Air Force Base (NSF)	2	\$39,841
NASA	15	\$761,499
NIH	2	\$290,126
NSF	49	\$2,314,870
ONR	2	\$75,000
US Army	6	\$1,238,128
<i>Total</i>	84	\$5,193,921

# Engineering & Technology

## Source Breakdown of Grants and Contracts

### Federal Subcontracts Sponsors

Concepts NREC (Air Force)	1	\$20,000
Cornell University (NSF)	2	\$65,488
CUAHSI (NSF)	2	\$43,400
Gas Technology Institute (DOE)	1	\$98,574
Innovative Scientific Solutions, Inc.	1	\$51,607
JPL (NASA)	3	\$300,025
LANL (DOE)	3	\$141,553
LBNL (DOE)	4	\$199,000
MLB (Air Force)	2	\$91,214
Open Door Technologies (Army)	1	\$98,025
Sandia National Lab (DOE)	2	\$98,740
Sentix Corporation (NASA)	1	\$45,000
Stanford (NIH)	1	\$111,085
TIPD, LLC	2	\$40,000
UofU (DOE)	2	\$70,000
UofU (NASA)	2	\$109,900
UT Austin (NSF)	1	\$101,771
Utopia Compression	2	\$36,215
<i>Total</i>	42	\$2,252,603

# Engineering & Technology

## Source Breakdown of Grants and Contracts

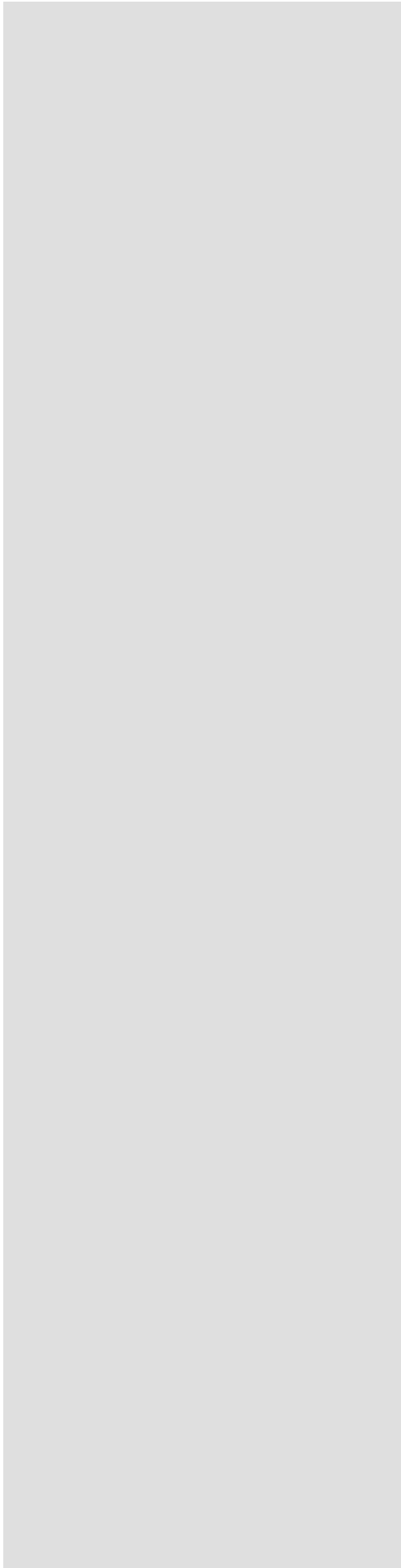
### State Sponsors

Iowa Department of Transportation	1	\$25,000
UDOT	9	\$937,505
<i>Total</i>	10	\$962,505

### Private Sponsors

AICHE	2	\$460,000
Air Liquide	2	\$24,500
American Institute of Steel Construction	1	\$120,000
American Iron and Steel Institute	2	\$35,000
Ball Aerospace and Technologies	1	\$51,464
Boeing	8	\$650,000
British Petroleum	4	\$32,000
Caterpillar	1	\$16,755
CD-Adapco	6	\$118,500
Concepts NREC	1	\$15,000
Convergent Concrete Technologies	1	\$4,200
DIPPR	2	\$520,000
Duracell	1	\$80,000
EDAC	1	\$120,000
Electric Power and Research Institute	2	\$81,780
General Electric	2	\$34,200
Insitu, Inc.	4	\$32,000
Intuitive Surgical, Inc.	3	\$60,000
JFE Steel	6	\$35,000
Leica Geosystems	1	\$10,000
Linear Signal Inc	1	\$22,500
Lockheed Martin	1	\$40,000
Manufacturing Technology, Inc.	3	\$26,250
National Instruments	3	\$40,000
National Pork Board	1	\$75,000
PCC Airfoils	8	\$52,500
Petrobas Airfoils	2	\$37,059
Pratt & Whitney	2	\$102,414
SEAKR	2	\$40,000
Semiconductor Research Corporation	1	\$41,670
SGC Energia	1	\$50,000
SKB	7	\$35,000
Springville City	1	\$11,000
Sustainable Energy Solutions	3	\$204,420
Union Pacific Railroad	1	\$17,720
Vertex Pharmaceuticals Inc.	1	\$10,000
<i>Total</i>	88	\$3,305,932



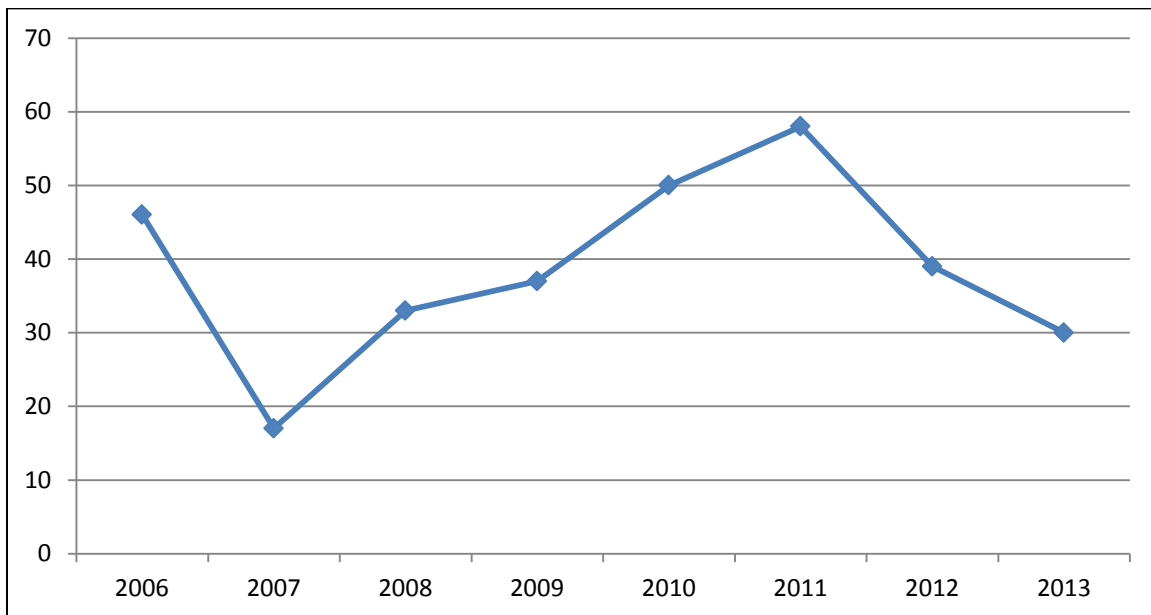


# College of Family, Home & Social Sciences

# Summary of Sponsored Research (Grants & Contracts)

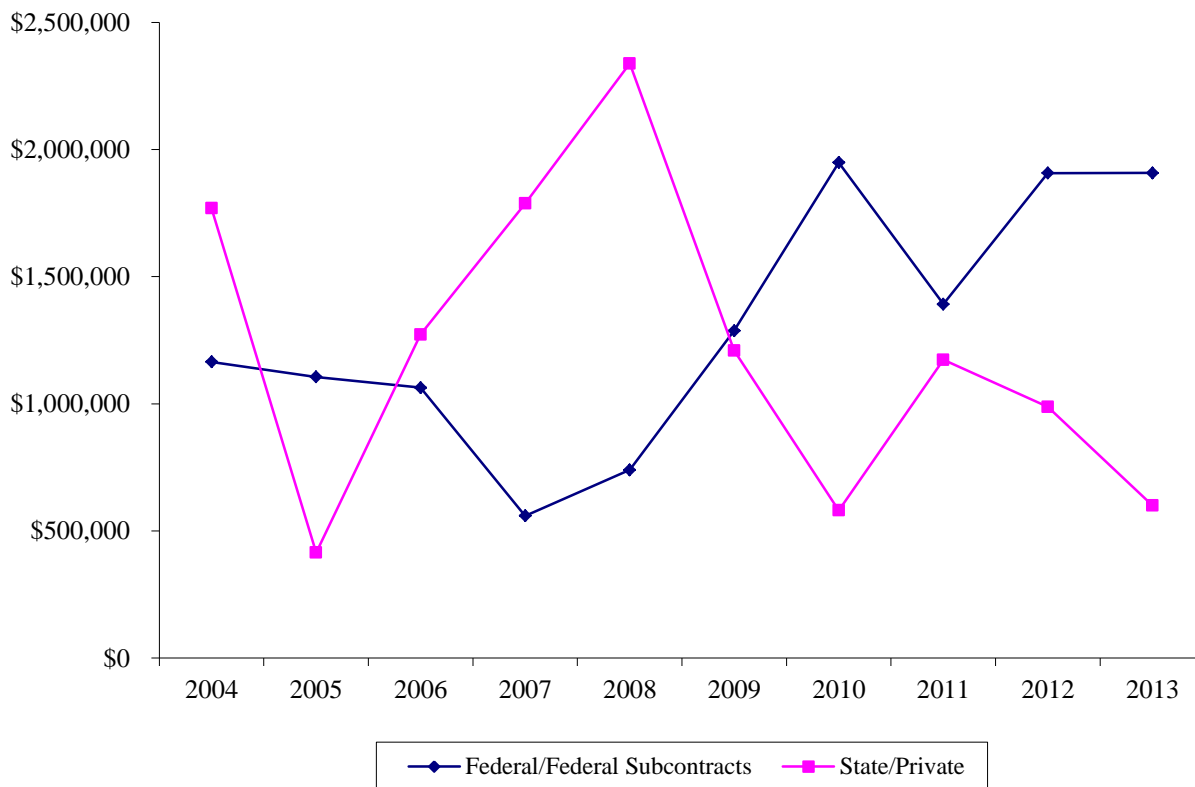
Department	# of Faculty Submitting	# of Proposals Submitted	# of Awards	Dollars Awarded
Anthropology	2	0	0	\$0
Center for Studies of the Family	0	0	0	\$0
Economics	4	5	3	\$838,724
Geography	2	4	1	\$70,910
History	0	0	0	\$0
Home and Family Living	0	0	0	\$0
Joseph Fielding Smith Institute	0	0	0	\$0
Marriage & Family Therapy	0	0	0	\$0
Marriage, Family & Human Development	0	0	0	\$0
Museum of Peoples & Cultures	0	0	0	\$0
Office of Public Archaeology	1	4	8	\$609,463
Political Science	3	3	10	\$467,154
Psychology	4	4	5	\$155,654
School of Family Life	2	2	3	\$100,938
Social Work	1	1	1	\$16,465
Sociology	4	5	5	\$118,627
<b>TOTALS</b>	<b>23</b>	<b>30</b>	<b>36</b>	<b>\$2,377,935</b>

## Proposal Submission Activity



# External Research Funding (All Sources)

Year	Grants/Contracts		Total
	Federal/Federal Subcontracts	State/Private	
2004	\$1,164,878	\$1,769,103	\$2,933,981
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



# Family, Home & Social Sciences 2013 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>
<b>Economics</b>								
Evans, Richard	w/Humpherys, Jeffrey	NSF	TUES: A New Curriculum in Applied and Computational Mathematics	9/15/2013	8/31/2017	R0112234	\$149,979	1
Pope, Arden		Cleveland Clinic (EPA)	Associations of Short Term Pollution Exposure with Childhood Autoimmune Diseases	6/1/2011	6/31/13	R0302461	\$22,337	2
Pope, Arden		U of Louisville (NIH)	Endothella Progenitor Cells and Particulate Air Pollution	9/23/2011	4/30/2014	R0302427	\$192,370	2
Bradford, Scott	w/ Phillips, Kerk	Korea Institute for Natl. Unification	Cost and Benefit of Korean Unification	5/20/2013	12/31/2013	R0570001	\$7,700	4
Phillips, Kerk		Korea Institute for Natl. Unification	Cost and Benefit of Korean Unification	5/20/2013	12/31/2013	R0570001	\$7,700	4
<b>Geography</b>								
Bekker, Matthew		Utah State U.(BoR)	WaterSMART: Building decadal prediction of extreme climate for managing water supply in InteMtn West	9/19/2013	8/18/2015	R0302539	\$40,910	2
<b>Office of Public Archeology</b>								
Talbot, Richard		UT DWR	Wide Hollow Project	3/25/2013	9/1/2014	R0402219	\$51,904	3
Talbot, Richard		Utah DoEQ	OPA Archaeological Services - Mt Pleasant	12/1/2010	12/31/2013	R0402196	\$37,800	3
Talbot, Richard		Bill Barrett Corp.	Promontory Caves Artifact Preparation	9/3/2013	5/1/2014	R0602422	\$39,788	4
Talbot, Richard		Horrocks Engineering	Provo Westside Connector Survey	10/14/2013	12/31/2013	R0602429	\$23,527	4
Talbot, Richard		Inst. Of Prairie Archaeology	Promontory Caves Artifact Preparation	6/24/2013	12/27/2013	R0570000	\$11,500	4
Talbot, Richard		LDS Church	Provo Tabernacle Excavation	11/1/2012	8/31/2013	R0702014	\$88,966	4
Talbot, Richard		LDS Church	Provo Tabernacle Project	1/1/2012	4/1/2014	R0702014	\$17,412	4
Talbot, Richard		U.S. Forest Service	Cultural Resource Identification Evaluation and Management	7/25/2013	7/30/2015	R0202399	\$59,999	4
<b>Political Science</b>								
Jacoby, Wade		DoED	Foreign Language and Area Studies Fellowships	8/15/2010	8/14/2014	R0132020	\$252,000	1
Jacoby, Wade		DoED	National Resource Centers	8/15/2010	8/14/2014	R0132019	\$135,473	1
Hyer, Eric		U of U (DoED)	Title IV NRC	8/15/2010	8/14/2014	R0302360	\$56,477	2
Hyer, Eric		U of U (DoED)	Internet Safety Project	8/15/2011	8/14/2014	R0302361	\$286,500	2
Eddington, Rachel	w/ Nielson, Dan	William & Mary (USAID)	Where the Money Goes: Mapping Aid for Better Impact	10/1/2012	9/30/2014	R0302482	\$90,022	2
Nielson, Dan		William & Mary (USAID)	Where the Money Goes: Mapping Aid for Better Impact	10/1/2012	9/30/2014	R0302482	\$90,023	2
Jacoby, Wade		European Union	Utah Engages the European Union	1/1/2013	6/30/2014	R0492036	\$32,127	4
Nielson, Daniel		Griffith Univ	Incorporation Services and Compliance to International Law	6/1/2010	12/31/2014	R0802023	\$8,000	4
Findley, Michael	w/ Nielson, Daniel	Griffith University	Incorporation Services and Compliance to International Law	6/1/2010	12/31/2013	R0802023	\$4,250	4
Nielson, Daniel		Griffith University	Incorporation Services and Compliance to International Law	6/1/2010	12/31/2013	R0802023	\$4,250	4

Magleby, David		Hewlett Foundation	Campaign Finance Research	11/11/2013	11/11/2014	R0502196	\$70,000	4
Wheeler, Nicholas		U of CO (European Union)	EU State-Building Strategies in the Balkans	5/1/2012	5/30/2013	R0492037	\$1,900	4
<b>Psychology</b>								
Steffensen, Scott		NIH	Neuroplasticity with Alcohol Dependence	8/1/2012	7/31/2014	R0102059	\$278,935	1
Bigler, Erin		Baylor (NIH)	Neurobehavioral Outcome of Head Injury to Children	2/1/2011	1/31/2014	R0302403	\$11,351	2
Bigler, Erin		Jackson Fndtn (Army Med. Research)	Study of Cognitive Rehabilitation in Mild Traumatic Brain Injury	6/1/2013	2/14/2014	R0302517	\$12,000	2
Bigler, Erin		The Research Institute at Nationwide Children's Hospital	Predicting Outcomes in Children with Mild Traumatic Brain Injury	8/23/2013	5/31/2014	R0302540	\$22,180	2
Bigler, Erin		UCSD (NIH)	A Psychiatric and Imaging Study of Pediatric Mild Traumatic Brain Injury	9/1/2011	6/30/2014	R0302450	\$73,613	2
Carpenter, Bruce		UT Dept. of Corrections	BYU Student Clinical Psychological Services	10/1/2013	9/30/2018	R0402227	\$100,000	3
Bigler, Erin		Various	Neuroimaging	4/1/1991	12/31/2013	R0600381	\$3,300	4
<b>School of Family Life</b>								
Dyer, Justin		U of IL (DoED)	Men's Parenting Behaviors	7/1/2012	6/30/2014	R0302467	\$1,100	2
Dyer, Justin		U of IL (DoED)	The Impact of Child Disability on Family Processes and Child Outcome	7/1/2012	6/30/2014	R0302467	\$21,906	2
Yorgason, Jeremy		Veterans Admin	Veterans Rural Health Resource Center	10/1/2013	9/30/2014	R0202404	\$35,941	2
<b>Sociology</b>								
Ward, Carol		Chief Dull Knife College(NSF)	BPR - Continued Research of CDKC's database	10/4/2012	10/3/2014	R0302505	\$10,200	2
Call, Vaughn		Veterans Admin	Veterans Rural Health Resource Center	10/1/2013	9/30/2014	R0202402	\$74,541	2
Erickson, Lance		Veterans Admin	Veterans Rural Health Resource Center	10/1/2013	9/30/2014	R0202403	\$33,684	2
Ward, Carol		Provo School Dist.	21st Century Program Improvement	10/1/2012	9/30/2016	R0302145	\$10,000	3
Brown, Ralph		Rural Soc. Society	Support for Executive Director / Treasurer	2/8/2012	8/30/2015	R0502112	\$20,000	4
<b>Social Work</b>								
Clark, Charlene		Utah Commission on Volunteers	FHSS Americorps Grant	8/15/2013	8/14/2014	R0302531	\$16,465	2

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

Department Totals	
Anthropology	\$0
Economics	\$380,086
Geography	\$40,910
History	\$0
School of Family Life	\$58,947
Joseph Fielding Smith Institute	\$0
Marriage & Family Therapy	\$0
Museum of Peoples & Cultures	\$0
Office of Public Archaeology	\$330,896
Political Science	\$1,031,022
Psychology	\$148,831
Social Work	\$16,465
Sociology	\$148,425
<b><i>College Total:</i></b>	<b>\$2,155,582</b>

# Family, Home & Social Sciences

## Source Breakdown of Grants and Contracts

Sponsor	No. Awarded	Amount
<b>Federal Sponsors</b>		
DoED	2	\$387,473
NIH	1	\$278,935
NSF	1	\$149,979
<i>Total</i>	4	\$816,387
<b>Federal Subcontract Sponsors</b>		
Baylor College of Medicine (NIH)	1	\$11,351
Chief Dull Knife College	1	\$10,200
Cleveland Clinic (EPA)	1	\$22,337
Jackson Foundation (Army)	1	\$12,000
The Research Institute at Nationwide Children's Hospital	1	\$22,180
U of IL (DoED)	2	\$23,006
U of Louisville (NIH)	1	\$192,370
U of U (DoED)	2	\$342,977
UCSD (NIH)	1	\$73,613
Utah Commission on Volunteers	1	\$16,465
Utah State U (BoR)	1	\$40,910
Veterans Admin	3	\$144,166
William and Mary (USAID)	2	\$180,045
<i>Total</i>	18	\$1,091,620
<b>State Sponsors</b>		
Provo School District	1	\$10,000
UT Department of Corrections	1	\$100,000
UT DWR	1	\$51,904
Utah DoEQ	1	\$37,800
<i>Total</i>	4	\$199,704
<b>Private Sponsors</b>		
Bill Barrett Corporation	1	\$39,788
European Union	1	\$32,127
Griffith University	3	\$16,500
Hewlett Foundation	1	\$70,000
Horrocks Engineering	1	\$23,527
Institute of Prairie Archaeology	1	\$11,500
Korea Institute for National Unification	2	\$15,400
LDS Church	2	\$106,378
Rural Soc. Society	1	\$1,900
U.S. Forest Service	1	\$59,999
Various	1	\$3,300
<i>Total</i>	16	\$400,419



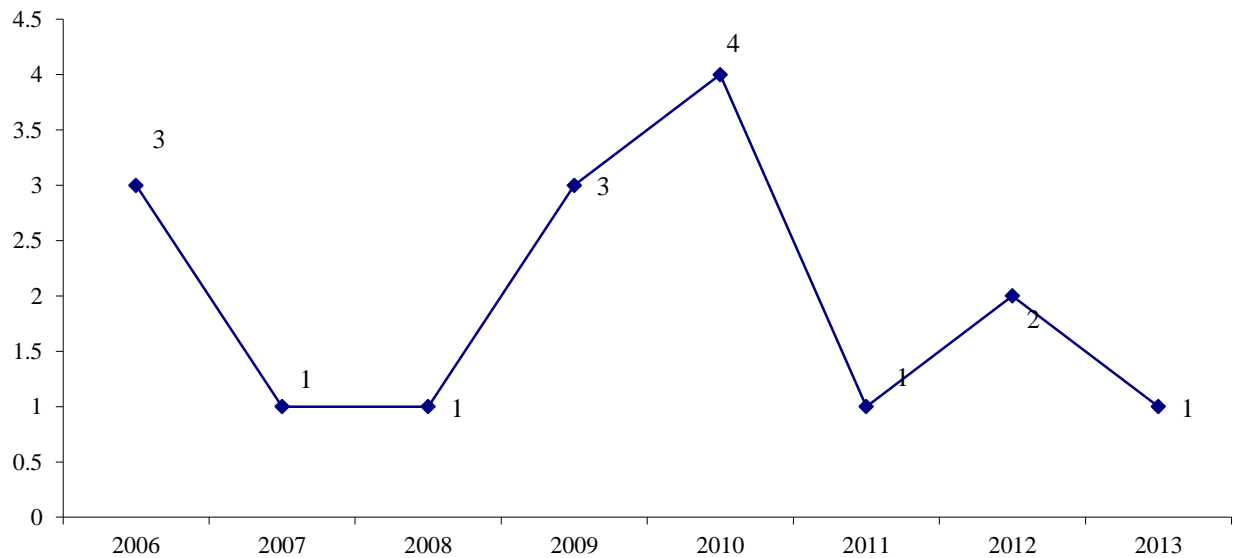
# College of Fine & Arts & Communications



# Summary of Sponsored Research (Grants & Contracts)

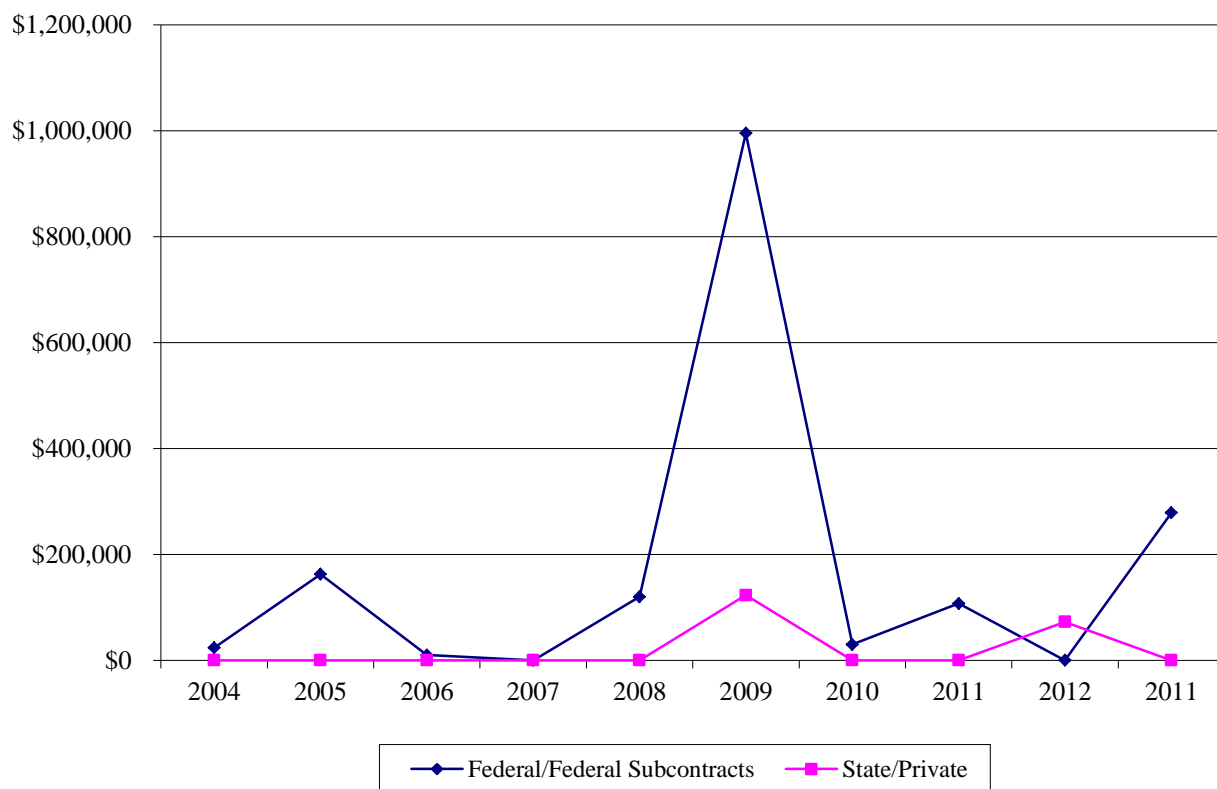
Department	# of Faculty Submitting	# of Proposals Submitted	# of Awards	Dollars Awarded
Communication	0	0	1	\$278,688
Dance	0	0	0	\$0
Museum of Art	0	0	0	\$0
School of Music	0	0	0	\$0
Theatre & Media Arts	0	0	0	\$0
Visual Arts	0	0	0	\$0
<b>TOTALS</b>	0	0	1	\$278,688

# Proposal Submission Activity



# External Research Funding (All Sources)

Year	Grants/Contracts		Total
	Federal/Federal Subcontracts	State/Private	
2004	\$23,680	\$0	\$23,680
2005	\$162,521	\$0	\$162,521
2006	\$10,000	\$0	\$10,000
2007	\$0	\$0	\$0
2008	\$120,000	\$0	\$0
2009	\$995,395	\$122,900	\$1,118,296
2010	\$30,000	\$0	\$0
2011	\$107,250	\$0	\$107,250
2012	\$0	\$72,500	\$72,500
2013	\$278,688	\$0	\$278,688



# Fine Arts & Communications

## Source Breakdown of Grants and Contracts

<u>Sponsor</u>	<u>No. Awarded</u>	<u>Amount</u>
<b>Federal Sponsors</b>		
NSF	1	\$278,688
<i>Total</i>	1	\$278,688
<b>Federal Subcontract Sponsors</b>		
None		
<i>Total</i>		
<b>State Sponsors</b>		
None		
<b>Private Sponsors</b>		
None		
<i>Total</i>		
<i>Grand Total</i>	1	\$278,688

<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>
<b>Communications</b>								
Sheets, Jeff		NSF	Advancing Informal STEM Learning through Scientific Alternate Reality Games	10/1/2013	9/30/2016	R0112242	\$278,688	1

<b>Department Totals</b>	
Theatre & Media Arts	\$0
Communications	\$278,688
Dance	\$0
Museum of Art	\$0
School of Music	\$0
<b>College Total:</b>	\$278,688

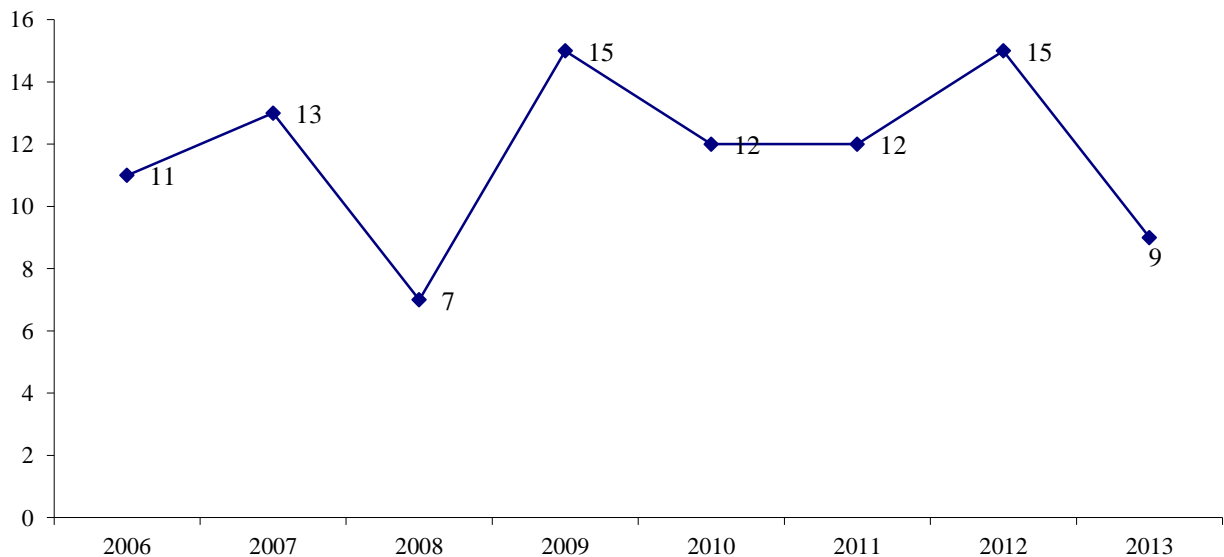


# College of Humanities

# Summary of Sponsored Research (Grants & Contracts)

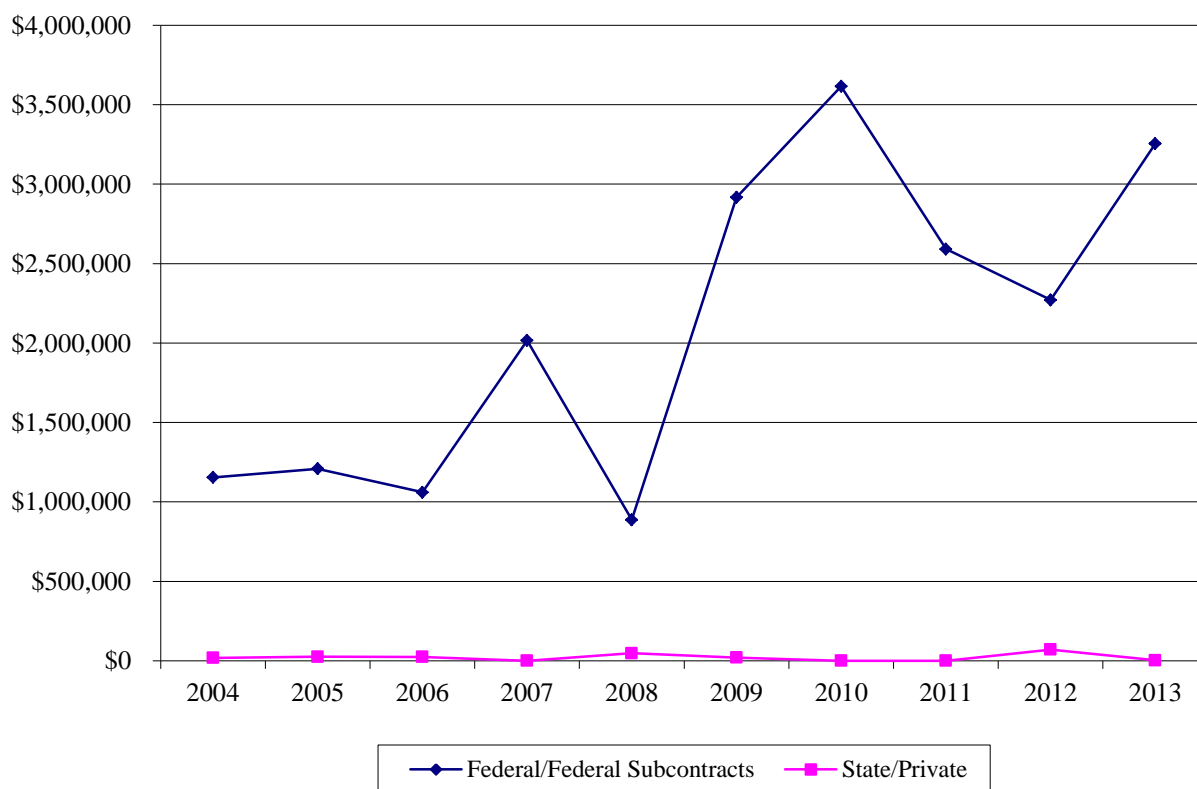
Department	# of Faculty Submitting	# of Proposals Submitted	# of Awards	Dollars Awarded
Asian & Near Eastern Languages	2	3	6	\$1,635,919
Center for Language Studies	2	2	6	\$300,113
English	2	2	1	\$3,420
French & Italian	0	0	0	\$0
German & Slavic Languages	0	0	0	\$0
Hum, Classics & Comparative Lit	0	0	0	\$0
Linguistics	1	1	2	\$42,060
Philosophy	0	0	0	\$0
Spanish & Portuguese	1	1	1	\$19,000
<b>TOTALS</b>	<b>8</b>	<b>9</b>	<b>16</b>	<b>\$3,258,917</b>

## Proposal Submission Activity



# External Research Funding (All Sources)

Year	Grants/Contracts		Total
	Federal/Federal Subcontracts	State/Private	
2004	\$1,154,680	\$18,800	\$1,173,480
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



# Humanities 2013 Awards

PI	Co-PI	Sponsor	Title	Beg Date	End Date	Account	Amount	Type
<b>Asian and Near Eastern Languages</b>								
Belnap, Kirk		NSA	BYU 2013 STARTALK Arabic Camp		2/28/2014	R0202389	\$119,315	1
Bourgerie, Dana		NSA	BYU Student STARTALK	4/16/2013	2/28/2014	R0202387	\$100,000	1
Christensen, Matt		NSA	BYU Chinese Teacher Training Program	4/16/2013	2/28/2014	R0202388	\$97,377	1
Belnap, Kirk		U.S. Dept of Ed	National Middle East Language Resource Center	8/15/2011	8/14/2014	R0132018	\$166,583	1
Bourgerie, Dana		IIE	Year 2, BYU Chinese Flagship Program - Domestic	6/1/2012	5/31/2014	R0302468	\$615,400	2
Bourgerie, Dana		IIE (NSEP)	BYU Overseas Chinese Language Flagship	6/1/2013	5/31/2014	R0302513	\$537,244	2
<b>Center for Language Studies</b>								
Christensen, Matt		IIE	K-12 Collaborative Innovation Project-Chinese Flagship (F-CAP K12 Flagship Grant Project)	9/30/2011	9/29/2014	R0302422	\$588,705	2
Clifford, Ray		IIE (NSEP)	Advanced Chinese Test Development	10/1/2013	9/30/2014	R0302534	\$25,000	2
Bush, Michael		Institute for Defense Analyses	Metaphorical Language Sample Collection	4/1/2013	12/31/2013	R0302503	\$17,837	2
Bush, Michael		Institute for Defense Analyses (DOD)	Metaphorical Language Sample Collection - Task 1	4/1/2013	12/31/2013	R0302502	\$35,664	2
Bush, Michael		Institute for Defense Analysis	Metaphorical Language Sample Collection, Task 3	4/1/2013	5/30/2013	R0302503	\$72,577	2
Clifford, Ray		Institute of International Education	Computerized Oral Proficiency Instruments for Speaking, Reading, and Listening Tri Service Academy Tests: Arabic and French	1/1/2013	12/31/2013	R0302494	\$818,735	2
<b>English</b>								
Hansen, Kristine		Council for Writing Program Administrators	How Do Concurrent Enrollment Students Perform on College Writing Tasks After They Matriculate at a University	4/1/2013	5/30/2013	R0502178	\$1,140	4
Jack, Brian	w/Hansen, Kristine	Council for Writing Program Administrators	How Do Concurrent Enrollment Students Perform on College Writing Tasks After They Matriculate at a University	4/1/2013	5/30/2013	R0502178	\$1,140	4
McInelly, Brett	w/Hansen, Kristine	Council for Writing Program Administrators	How Do Concurrent Enrollment Students Perform on College Writing Tasks After They Matriculate at a University	4/1/2013	5/30/2013	R0502178	\$1,140	4
<b>Linguistics</b>								
Davies, Mark		NAU (NSF)	A Linguistic Taxonomy of English Web Registers	9/15/2012	9/14/2013	R0302512	\$21,030	2
Davies, Mark		NAU (NSF)	A Linguistic Taxonomy of English Web Registers	9/15/2012	9/14/2014	R0302512	\$21,030	2
<b>Spanish and Portuguese</b>								
Hegstrom, Valerie		Dr. Albert Rabil (NEH)=	The Other Voice in Early Modern Europe: Writings by and about Women, 1400-1700	10/1/2012	9/30/2014	R0302495	\$19,000	2

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

Department Totals	
Asian & Near Eastern Languages	\$1,635,919
Center for Language Studies	\$1,558,518
English	\$3,420
French & Italian	\$0
German & Slavic Languages	\$0
Hum, Classics & Comparative Lit	\$0
Humanities Research Center	\$0
Linguistics	\$42,060
Philosophy	\$0
Spanish & Portuguese	\$19,000
<b>College Total:</b>	<b>\$3,258,917</b>



# Humanities

## Source Breakdown of Grants and Contracts

<b>Sponsor</b>	<b>No. Awarded</b>	<b>Amount</b>
<b>Federal Sponsors</b>		
NSA	3	\$316,692
DoED	1	\$166,583
<i>Totals</i>	4	\$483,275
<b>Federal Subcontracts Sponsors</b>		
Dr. Albert Rabil (NEH)	1	\$19,000
IIE	2	\$1,204,105
IIE (NSEP)	2	\$562,244
Institute for Defense Analysis	1	\$126,078
Institute of International Education	1	\$818,735
NAU (NSF)	1	\$42,060
<i>Totals</i>	8	\$2,772,222
<b>Private</b>		
Council for Writing Program Administrators	3	\$3,420
<i>Totals</i>	3	\$3,420

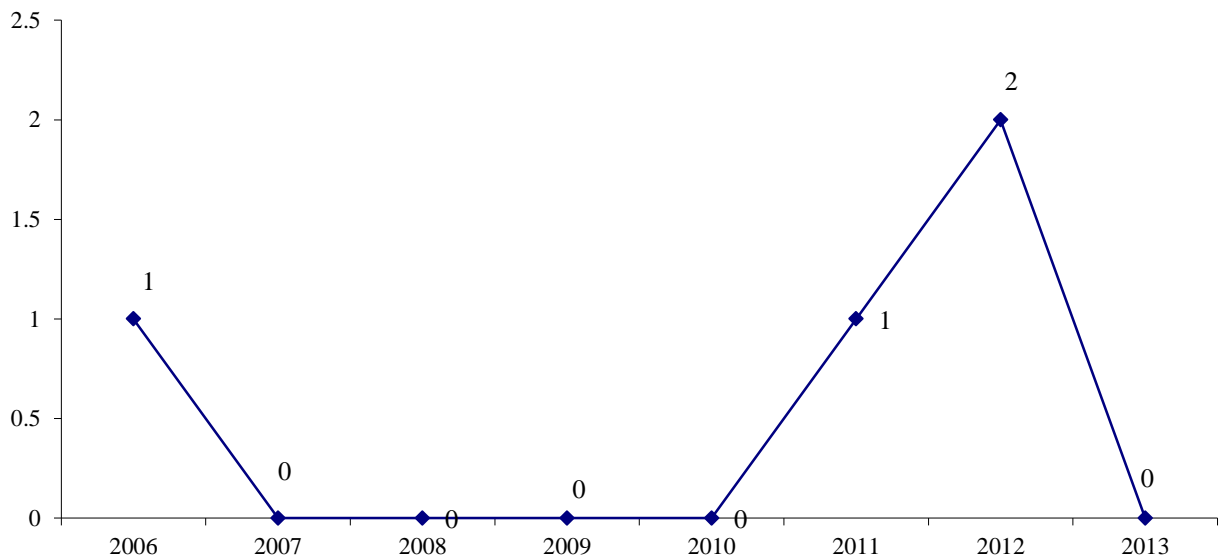


# J. Reuben Clark Law School

# Summary of Sponsored Research (Grants & Contracts)

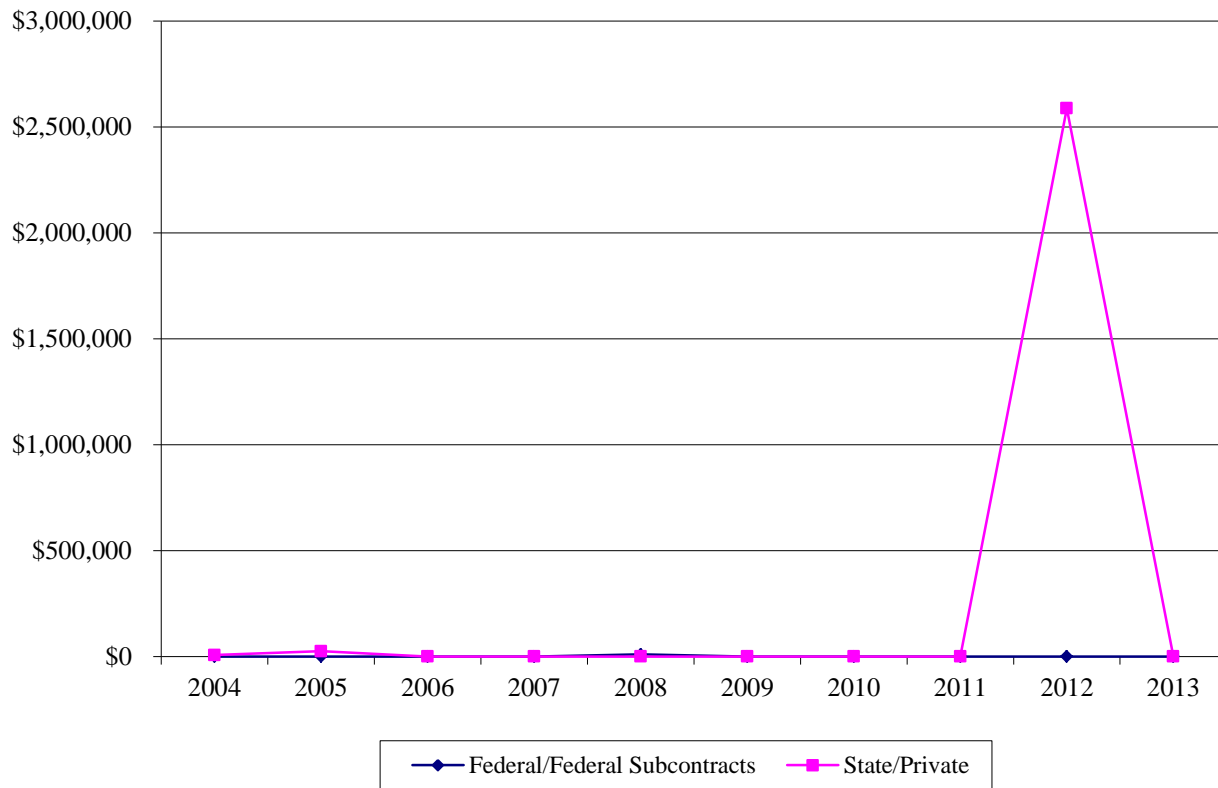
Department	# of Faculty Submitting	# of Proposals Submitted	# of Awards	Dollars Awarded
Law School	0	0	0	\$0
<i>TOTALS</i>	0	1	0	\$0

## Proposal Submission Activity



# External Research Funding (All Sources)

Year	Grants/Contracts		Total
	Federal/Federal Subcontracts	State/Private	
2004	\$0	\$6,667	\$6,667
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



Department Totals	
Law School	\$0
<b>College Total:</b>	\$0

# J. Reuben Clark Law School

## Source Breakdown of Grants and Contracts

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

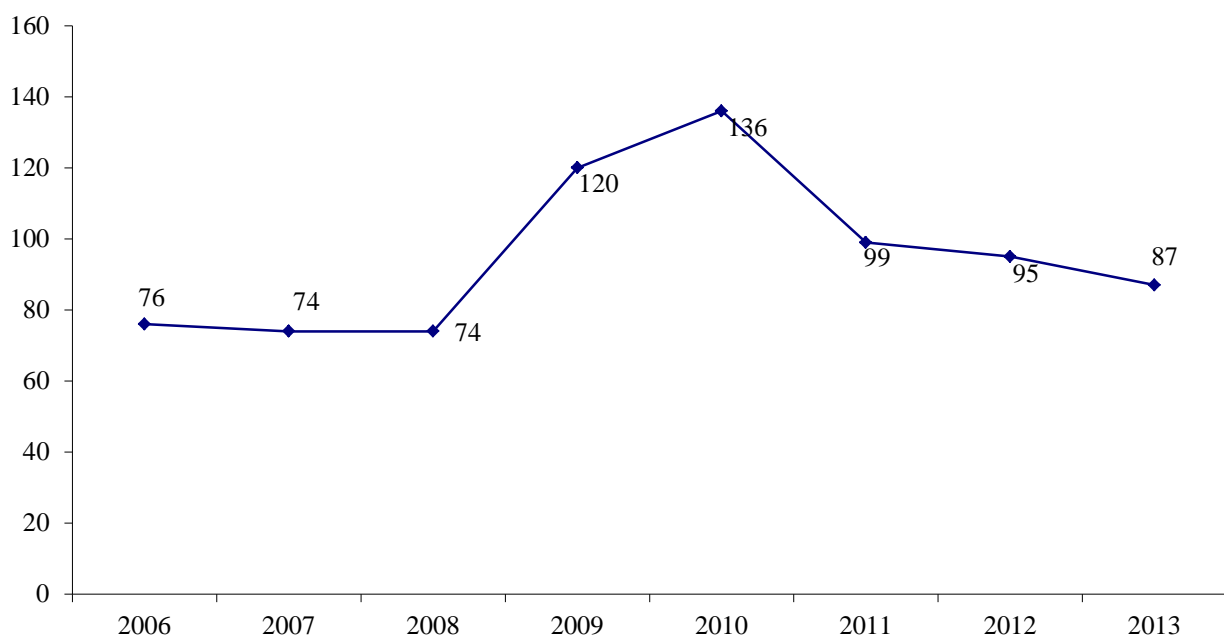


# College of Life Sciences

# Summary of Sponsored Research (Grants & Contracts)

Department	# of Faculty Submitting	# of Proposals Submitted	# of Awards	Dollars Awarded
Monte Bean Life Science Museum	0	0	1	\$24,000
Biology	12	23	12	\$1,957,467
Exercise Science	4	5	1	\$15,000
Health Science	2	3	2	\$57,848
Microbiology & Molecular Biology	6	8	9	\$470,656
Nutrition, Dietetics & Food Science	2	2	5	\$593,986
Physiology & Developmental Biology	8	18	3	\$352,402
Plant & Wildlife Science	13	28	27	\$1,591,348
<b>TOTALS</b>	<b>47</b>	<b>87</b>	<b>60</b>	<b>\$5,062,707</b>

## Proposal Submission Activity



# External Research Funding (All Sources)

Year	Grants/Contracts		Total
	Federal/Federal Subcontracts	State/Private	
2004	\$3,744,218	\$1,525,364	\$5,908,017
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





# College of Life Sciences 2013 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>
<b>Bean Museum</b>								
St. Clair, Larry		Alpine School District	Education Partnership - Bean Museum	1/1/2011	12/31/2014	R0502113	\$24,000	4
<b>Biology</b>								
Shiozawa, Dennis		National Forest Service	Genetic status of speckled dace in Kelly Warm Spring, Grand Teton National Park, Wyoming	9/1/2012	8/31/2013	R0202393	\$920	1
Gill, Richard		National Forest Service	Understanding Habitat Vulnerability to Exotic Plant Invasion	5/1/2013	7/1/2014	R0202392	\$38,381	1
Shiozawa, Dennis		National Forest Service	Genetic status of speckled dace in Kelly Warm Spring, Grand Teton National Park, Wyoming	9/1/2012	8/31/2013	R0202393	\$1,840	1
Adams, Byron		NSF	Increased Connectivity in a Polar Desert Resulting from Climate Warming: McMurdo Dry Valley LTER Program	4/15/2011	3/31/2014	R0302397	\$38,915	1
Rogers, Duke		NSF	Evolution of a Mesoamerican Rodent Clade	7/1/2013	6/30/2015	R0112232	\$19,125	1
Sites, Jack		NSF	Collaborative Research: Quantifying Climate Extinction Risks for Lizards, Amphibians, Fishes, and Plants	3/1/2013	2/28/2017	R0112226	\$1,116,573	1
Whipple, Clinton		NSF	CAREER:Genetic Networks of Bract Suppression in Maize"	5/1/2013	4/30/2018	R0112228	\$325,000	1
Adams, Byron	w/Bybee, Seth	NSF	Phylogenomics, Revisionary Systematics, and Evolution of the Visual Systems in Dragonflies and Damselflies(Insecta: Ononata)	2/15/2013	1/31/2018	R0112227	\$60,929	1
Bybee, Seth		NSF	Phylogenomics, Revisionary Systematics, and Evolution of the Visual Systems in Dragonflies and Damselflies(Insecta: Ononata)	2/15/2013	1/31/2018	R0112227	\$60,929	1
Gill, Richard		USGS	Climate change in dryland regions	8/1/2012	4/30/2017	R0202367	\$12,265	1
Adams, Byron		Univ. of Colo(NSF)	REU Supplement - Increased Connectivity in a Polar Desert Resulting from Climate Warming	4/15/2011	3/31/2014	R0302397	\$16,000	2
Gill, Richard	w/Aanderud, Zachary	Utah State U.(NSF)	iUtah-innovative Urban Transitions and Arid region Hrydro-sustainability	8/1/2012	7/31/2014	R0302477	\$79,145	2
Belk, Mark		Central Utah Water Conservancy District	June Sucker Recovery Implementation Prgram	5/24/2013	4/30/2014	R0402221	\$14,245	3
Kauwe, John	w/Evans, R. Paul	UDWR	Nuclear and mitochondrial DNA Analysis	11/1/2012	6/30/2017	R0402216	\$61,600	3
Shiozawa, Dennis	w/Evans, R. Paul	UDWR	Nuclear and mitochondrial DNA Analysis	11/1/2012	6/30/2017	R0402216	\$61,600	3
Kauwe, John		Charleston Conf on Alzheimer's Disease	Family-based Identification of AD Protection genes	3/15/2013	3/14/2014	R0502176	\$50,000	4
<b>Exercise Science</b>								
Draper, David		ZetrOZ, Inc	The Heating Capacity of the ZetrOZ Portable Ultrasound Device	3/1/2013	12/31/2013	R0602411	\$15,000	4
<b>Health Science</b>								
Crookston, Ben		Boston U. (NIH)	Growth Recovery, Schooling and Cognitive Achievement: Evidence From Four Cohorts	6/15/2012	5/31/2014	R0302489	\$19,092	2
Crookston, Benjamin		Boston U.(NIH)	Growth Recovery, Schooling & Cognitive Achievement: Evidence from Four Cohorts	6/15/2012	5/31/2013	R0302489	\$21,288	2
Crookston, Ben		U of PA (Gates Fndtn)	Early Child Growth and Development in four countries: Young Lives	11/1/2011	10/31/2013	R0502154	\$17,468	4
<b>Microbiology &amp; Molecular Biology</b>								
Evans, R. Paul	w/Shiozawa, Dennis	National Forest Service	Genetic status of speckled dace in Kelly Warm Spring, Grand Teton National Park, Wyoming	9/1/2012	8/31/2013	R0202393	\$920	1
Weber, K. Scott		NIH	The role of antigenic strength in the primary and memory responses of	6/1/2013	5/31/2016	R0102063	\$449,086	1

			pathogen specific CD4+ T cells						
Griffitts, Joel		NSF	Molecular basis of abortive symbiosis	2/28/2011	2/29/2016	R0112180	\$155,369	1	
Hopkins, Bryan		USGS	Soil Samples	7/9/2013	9/30/2014	R0202395	\$41,885	1	
Robison, Richard		Battelle National Biodefense Institute	A Curated Archive of Viable Select Agents and Extracted Nucleic Acids for Bioforensic Casework	1/1/2013	9/30/2013	R0302488	\$56,600	2	
Robison, Richard		Battelle National Biodefense Institute	A Curated Archive of Viable Select Agents and Extracted Nucleic Acids for Bioforensic Casework	1/1/2013	9/30/2013	R0302488	\$84,500	2	
Robison, Richard		Battelle National Biodefense Institute	A Curated Archive of Viable Select Agents and Extracted Nucleic Acids for Bioforensic Casework	1/1/2013	9/30/2013	R0302488	\$48,000	2	
Evans, R. Paul		UDWR	Nuclear and mitochondrial DNA Analysis	11/1/2012	6/30/2017	R0402216	\$61,600	3	
Robison, Richard		Solutions BioMed	Antimicrobial Materials and Select Agents	6/17/2005	12/31/2013	R0602144	\$1,100	4	
Robison, Richard		Solutions BioMed	Antimicrobial Materials and Select Agents	6/7/2005	12/31/2015	R0602144	\$1,590	4	
<b>Nutrition, Dietetics, &amp; Food Science</b>									
Steele, Frost		Deseret Meats	Pathogen Analysis for Meat Produced at Deseret Meats	1/1/2013	12/31/2013	R0702001	\$44,450	4	
Steele, Frost		Deseret Meats	Pathogen Analysis for Meat Products Produced at Deseret Meats	1/1/2012	12/31/2014	R0702001	\$44,450	4	
Steele, Frost		Deseret Meats	Pathogen Analysis for Meat Products Produced at Deseret Meats	1/1/2012	12/31/2014	R0702001	\$28,000	4	
Dunn, Michael		Hawley Foundation	Human Gut Bacteria as a Consequence of Dietary Influences	12/19/2012	12/19/2013	R0502175	\$10,000	4	
Steele, Frost		Houston Welfare Cannery	Pathogen Analysis for Peanut Butter	1/1/2013	12/31/2013	R0702001	\$28,000	4	
<b>Physiology &amp; Developmental Biology</b>									
Arroyo, Juan		NIH	Apoptosis in an Ovine Model of Intrauterine Growth Restriction(IUGR)	5/1/2011	4/3/2014	R0102060	\$230,006	1	
Busath, David		Florida State U.(NIH)	Correlations: Structure-Dynamics-Function in Channels	8/1/2011	7/31/2014	R0302408	\$112,396	2	
Reynolds, Paul		FAMRI	Modeling of COPD by Novel RAGE transgenic mice	7/1/2012	6/30/2014	R0502158	\$108,500	4	
<b>Plant &amp; Wildlife Sciences</b>									
Rapier Allphin, Loreen		BLM	Revision/Modification of Genetics and monitoring of three rare Boechera species from BLM lands in Utah	9/15/2012	9/30/2017	R0202373	\$15,000	1	
St. Clair, Sam		National Forest Service	Herbivory impacts on aspen regeneration	7/19/2013	7/18/2018	R0202398	\$100,000	1	
Larsen, Randy		US Army-Dugway	Technician Support for US Army Dugway	4/11/2011	8/15/2015	R0202335	\$302,219	1	
Geary, Brad		National Forest Service	Understanding the Causes and Consequences of Cheatgrass Die-offs in the Great Basin	1/27/2015	12/15/2015	R0202355	\$48,950	1	
Roundy, Bruce		USDA - Forest Service	Modeling seedling root growth of Great Basin native species	2/26/2009	9/30/2013	R0202264	\$10,000	1	
Anderson, Val		USDA - Forest Svc	Rangeland Health Assessments, Wasatch Plateau	5/17/2012	9/30/2016	R0202363	\$60,001	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	
Geary, Brad		USDA Forest Svc	Buffelgrass Biocontrol in the Sonoran Desert with Foliar Fungal Pathogens and Tehir Phytotoxic Metabolites	8/30/2013	12/31/2015	R0202407	\$22,763	1	
Geary, Brad		USDA Forest Svc	Buffelgrass Biocontrol in the Sonoran Desert with Foliar Fungal Pathogens and Tehir Phytotoxic Metabolites	8/30/2013	12/31/2015	R0202407	\$19,237	1	
Roundy, Bruce		USDA Forest Svc	Sage STEP soil moisture station monitoring	10/21/2010	4/30/2015	R0202327	\$8,000	1	
Hopkins, Bryan		USGS	Soil Samples Testing	9/26/2012	9/25/2013	R0202391	\$19,946	1	
Udall, Joshua		Iowa State (NSF)	Comparative Evolutionary Genomics of Cotton	3/1/2009	2/28/2014	R0302284	\$124,042	2	
Larsen, Randy		North Dakota Game & Fish	Effect of Energy Development on sharptailed grouse	4/1/2010	6/30/2014	R0302333	\$18,000	2	

		Dept						
Larsen, Randy		Utah RM&CC	Recovery of greater sage grouse in Strawberry Valley, Utah	5/1/2009	7/30/2014	R0402146	\$65,000	2
Aanderud, Zachary		Utah State U.(NSF)	iUtah-innovative Urban Transitions and Arid region Hrydro-sustainability	8/1/2012	7/31/2014	R0302477	\$79,145	2
Larsen, Randy		UDWR	Assessment of Pygmy Rabbit Response to Installation of the Ruby Pipeline in Northern Utah(Phase 4)	8/16/2013	8/31/2014	R0402225	\$42,354	3
Larsen, Randy		UDWR	Guidelines for Effective Placement and Use of Wildlife Water Developments	8/16/2013	8/31/2014	R0402224	\$18,584	3
St. Clair, Sam		UDWR	Assessment of disturbance size and ecological conditions on wildlife impacts of aspen regeneration in Utah.	7/3/2013	8/31/2014	R0402222	\$68,160	3
Udall, Joshua		Cotton, Inc.	Physical Mapping the A- and D- genomes of diploid cotton	1/1/2013	12/31/2013	R0602414	\$20,700	4
Udall, Joshua		Cotton, Inc.	Physical mapping of A-genome diploid cotton	1/1/2014	12/31/2014	R0602432	\$13,750	4
Udall, Joshua		Cotton, Inc.	Bioinformatic Approaches for Cotton Genome Seq	1/1/2014	12/31/2014	R0602433	\$13,750	4
Udall, Joshua		Cotton, Inc.	ReSequencing the Genomes of Polyploid Cotton	1/1/2013	12/31/2013	R0602410	\$22,000	4
Udall, Joshua		Cotton, Inc.	ReSequencing the Genomes of Polyploid Cotton	1/1/2013	12/31/2013	R0602410	\$5,000	4
Jellen, Eric		General Mills	Characterization of Cereal Hemicellulose and Starch Biosynthesis Genes	9/15/2013	12/31/2016	R0602412	\$101,052	4
Maughan, Jeff	w/Jellen, Eric	General Mills	Characterization of Cereal Hemicellulose and Starch Biosynthesis Genes	9/15/2013	12/31/2016	R0602412	\$101,052	4
Jellen, Eric	w/Maughan, Jeff	McKnight Foundation	Development and Participative Validation of Technological Innovations that improve the Strategies for Sustainable Management	3/1/2010	2/28/2014	R0502121	\$5,000	4
Maughan, Jeff		McKnight Foundation	Development and Participative Validation of Technological Innovations that improve the Strategies for Sustainable Management	3/1/2010	2/28/2014	R0502121	\$5,000	4
Larsen, Randy		Sportsmen for Fish & Wildlife	Evaluation o frelease timing on survival and movements of translocated mule deer in Utah	12/1/2012	12/31/2015	R0502174	\$157,383	4
Larsen, Randy		Utah Chukar Foundation	Benefits, impacts, and proper spacing of guzzlers for chukars	1/1/2011	12/31/2013	R0502066	\$6,000	4

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

#### Department Totals

Bean Museum	\$24,000
Biology	\$2,949,162
Microbiology & Molecular Biology	\$332,288
Exercise Science	\$15,000
Health Science	\$57,848
Nutrition, Dietetics & Food Science	\$291,726
Physiology & Developmental Biology	\$223,290
Plant & Wildlife Sciences	\$1,136,388
<b>College Total:</b>	<b>\$5,029,702</b>

# Life Sciences

## Source Breakdown of Grants and Contracts

<b>Sponsor</b>	<b>No. Awarded</b>	<b>Amount</b>
<b>Federal Sponsors</b>		
BLM	1	\$15,000
National Forest Service	6	\$191,011
NIH	2	\$679,092
NSF	7	\$1,776,840
US Army Dugway	1	\$302,219
USDA Forest Service	6	\$144,511
USGS	3	\$47,096
<i>Total</i>	26	\$3,182,769
<b>Federal Subcontract Sponsors</b>		
Batelle National Biodefense Institution	3	\$189,100
Boston U. (NIH)	2	\$40,380
Florida State U. (NIH)	1	\$112,396
Iowa State (NSF)	1	\$124,042
North Dakota Game & Fish	1	\$18,000
University of Colorado (NSF)	1	\$16,000
Utah RM&CC	1	\$65,000
Utah State U. (NSF)	2	\$158,290
<i>Total</i>	12	\$723,208
<b>State Sponsors</b>		
CUWCD	1	\$14,245
UDWR	6	\$313,989
<i>Total</i>	7	\$328,143
<b>Private Sponsors</b>		
Alpine School District	1	\$24,000
Charleston Conf. on Alzheimer's Disease	1	\$50,000
Cotton, Inc	5	\$75,200
Deseret Meats	3	\$116,900
FAMRI	1	\$108,500
General Mills	2	\$202,104
Hawley Foundation	1	\$10,000
Houston Welfare Cannery	1	\$28,000
McKnight Foundation	2	\$10,000
Solutions BioMed	2	\$2,690
Sportsmen for Fish & Wildlife	1	\$157,383
U of PA (Gates Foundation)	1	\$17,468
Utah Chukar Foundation	1	\$6,000
ZetrOZ, Inc.	1	\$15,000
<i>Total</i>	23	\$823,245

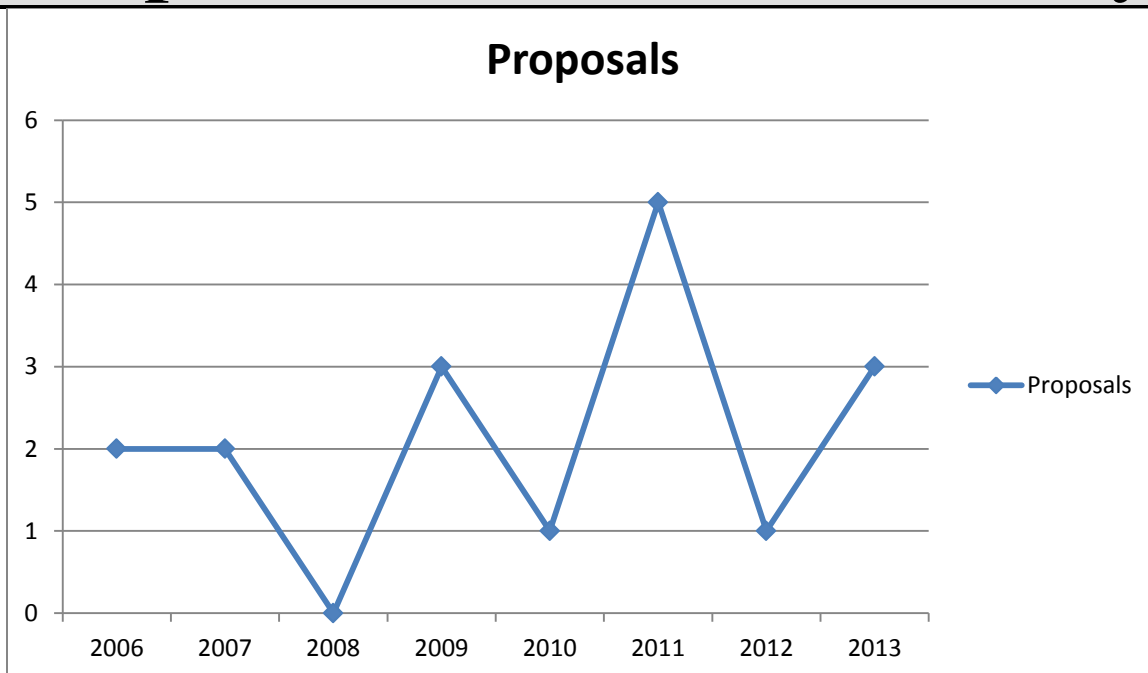


# Marriott School of Management

# Summary of Sponsored Research (Grants & Contracts)

Department	# of Faculty Submitting	# of Proposals Submitted	# of Awards	Dollars Awarded
Business Management	0	0	0	\$0
Finance & Managerial Economics	0	0	0	\$0
Organizational Leadership & Strategy	1	1	0	\$0
Recreation Management & Youth Leadership	1	1	1	\$44,242
Romney Inst of Public Management	1	1	1	\$226,525
School of Accountancy	0	0	1	\$167,256
Information Systems	0	0	0	\$0
<b>TOTALS</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>\$438,023</b>

## Proposal Submission Activity



# External Research Funding (All Sources)

Year	Grants/Contracts		Total
	Federal/Federal Subcontracts	State/Private	
2004	\$0	\$0	\$0
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



# Marriot School of Management 2013 Awards

<b>PI</b>	<b>Co-PI</b>	<b>Sponsor</b>	<b>Title</b>	<b>Beg Date</b>	<b>End Date</b>	<b>Account</b>	<b>Amount</b>	<b>Type</b>
<b><i>Romney Institute of Public Management</i></b>								
Owens, Brad		Biola U (Templeton Fndtn.)	The Development Validation and Dissemination of Measures of Humility	6/1/2013	5/30/2015	R0502181	\$226,525	4
<b><i>Recreation Management &amp; Youth Leadership</i></b>								
Duerden, Mathew		Southwest Conservation Corps	PLSC 2013 Evaluation	7/1/2013	7/1/2014	R0602421	\$44,242	4
<b><i>School of Accountancy</i></b>								
Radebaugh, Lee		DoED	BYU CIBER	10/1/2010	9/30/2014	R0132021	\$167,256	1

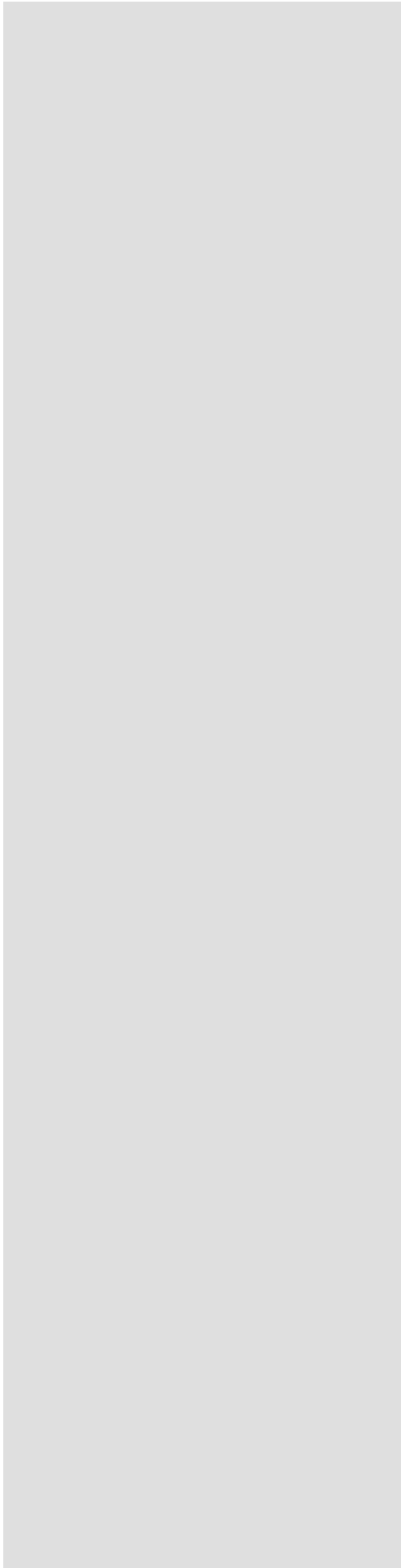
Type: 1=Federal; 2=Federal Subcontract; 3=State; 4=Private

Department Totals	
Center for Economic Development	\$0
Business Management	\$0
Organizational Leadership & Strategy	\$0
Recreation Management & Youth Leadership	\$44,242
Romney Inst of Public Management	\$226,525
School of Accountancy	\$167,256
Information Systems	\$0
<b><i>College Total:</i></b>	<b>\$331,121</b>



# Marriot School of Management Source Breakdown of Grants and Contracts

<b>Sponsor</b>	<b>Number Awarded</b>	<b>Total Amount</b>
<b>Federal</b>		
Dept. of Education	1	\$167,256
<i>Total</i>	1	\$167,256
<b>Subcontracts</b>		
None		
<i>Total</i>		
<b>State</b>		
UT COE		
<i>Total</i>		
<b>Private</b>		
Biola University (Templeton Foundation)	1	\$226,525
Southwest Conservation Corps	1	\$44,242
<i>Total</i>	2	\$270,767

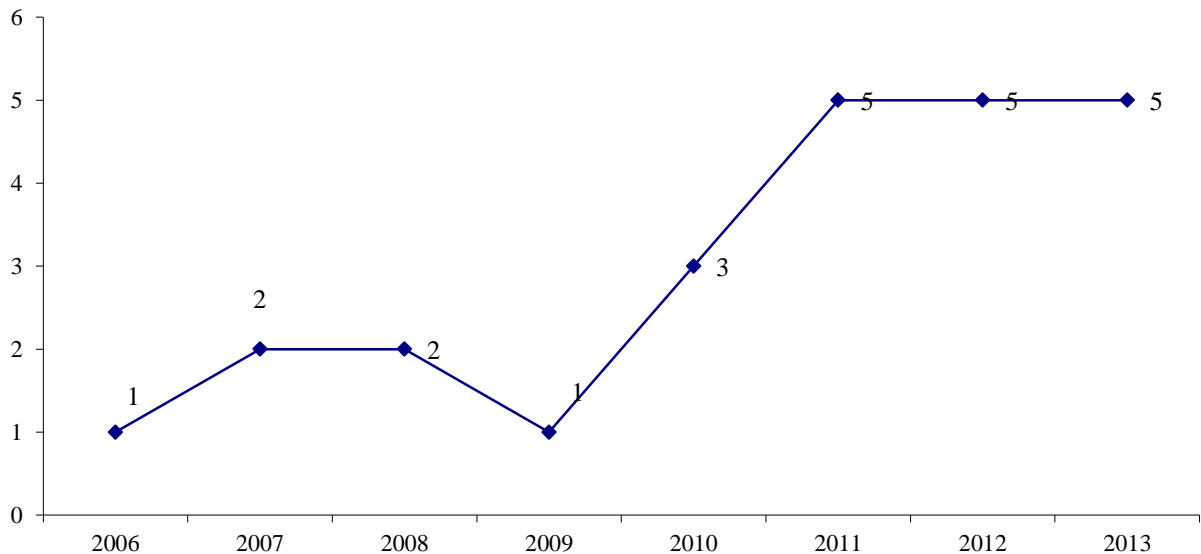


# College of Nursing

# Summary of Sponsored Research (Grants & Contracts)

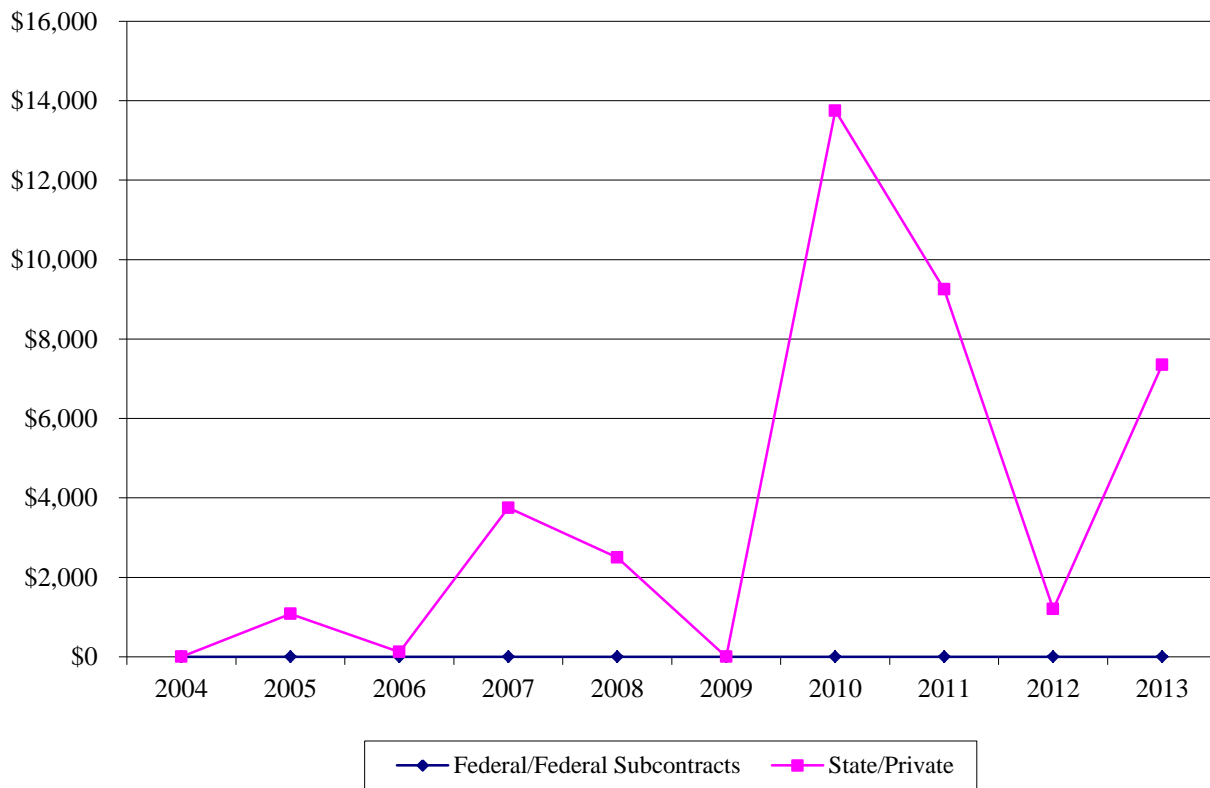
Department	# of Faculty Submitting	# of Proposals Submitted	# of Awards	Dollars Awarded
Nursing	2	5	1	\$7,350
<b>TOTALS</b>	2	5	1	\$7,350

## Proposal Submission Activity



# External Research Funding (All Sources)

Year	Grants/Contracts		Total
	Federal/Federal Subcontracts	State/Private	
2004	\$0	\$0	\$0
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



# Nursing 2013 Awards

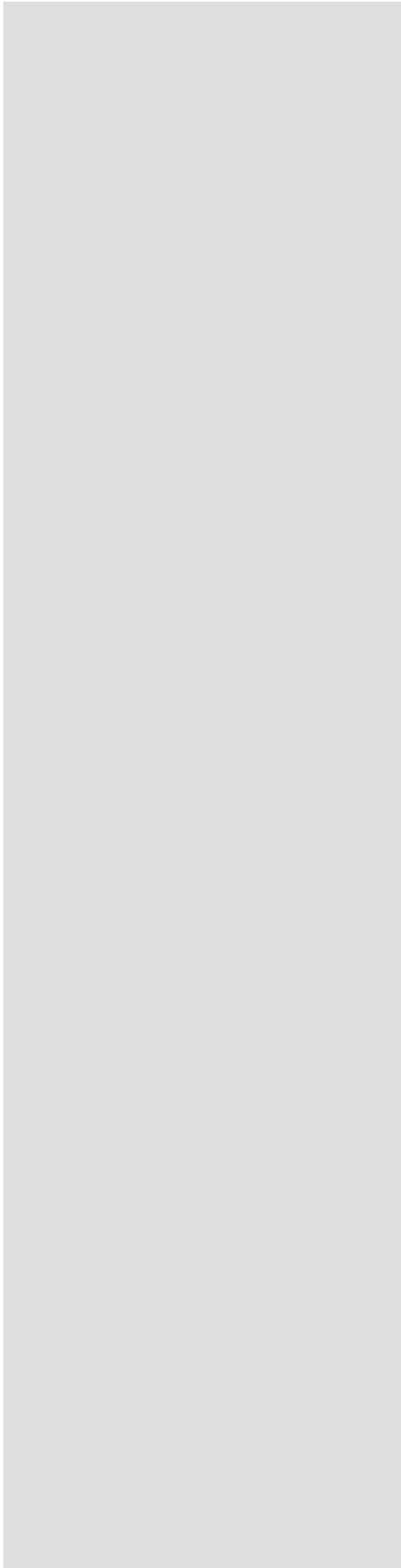
<u>PI</u>	<u>Sponsor</u>	<u>Title</u>	<u>Beg. Date</u>	<u>End Date</u>	<u>Amount</u>	<u>Type</u>
<i>Nursing</i> Luthy, Karlen	Sanofi Pasteur	Improving Adult Vaccination for Pertussis	6/20/2013	6/20/2014	\$7,350	4

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

Department Totals	
Nursing	\$7,350
<b>College Total:</b>	\$7,350

# Nursing Source Breakdown of Grants and Contracts

<b>Sponsor</b>	<b>Number Awarded</b>	<b>Total Amount</b>
<b>Federal</b>		
None		
	<i>Total</i>	_____
<b>Subcontracts</b>		
None		
	<i>Total</i>	_____
<b>State</b>		
None		
	<i>Total</i>	_____
<b>Private</b>		
Sanofi Pasteur	1	\$7,350
	<i>Total</i>	\$7,350

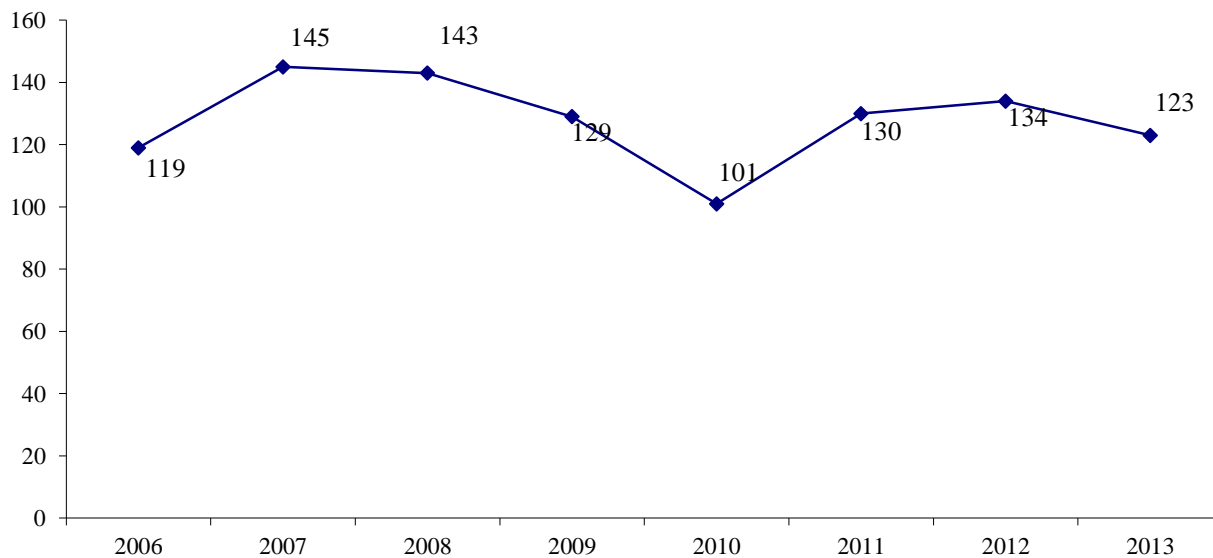


# College of Physical & Mathematical Sciences

# Summary of Sponsored Research (Grants & Contracts)

Department	# of Faculty Submitting	# of Proposals Submitted	# of Awards	Dollars Awarded
Chemistry & Biochemistry	24	50	30	\$2,658,447
Computer Science	10	18	15	\$1,497,014
Earth Science Museum	0	0	0	\$0
Geology	7	15	5	\$398,412
Mathematics	9	14	7	\$654,452
Mathematics Education	2	2	3	\$302,908
Physics & Astronomy	12	20	28	\$1,460,204
Statistics	3	4	4	\$436,771
<b>TOTALS</b>	<b>67</b>	<b>123</b>	<b>92</b>	<b>\$7,408,208</b>

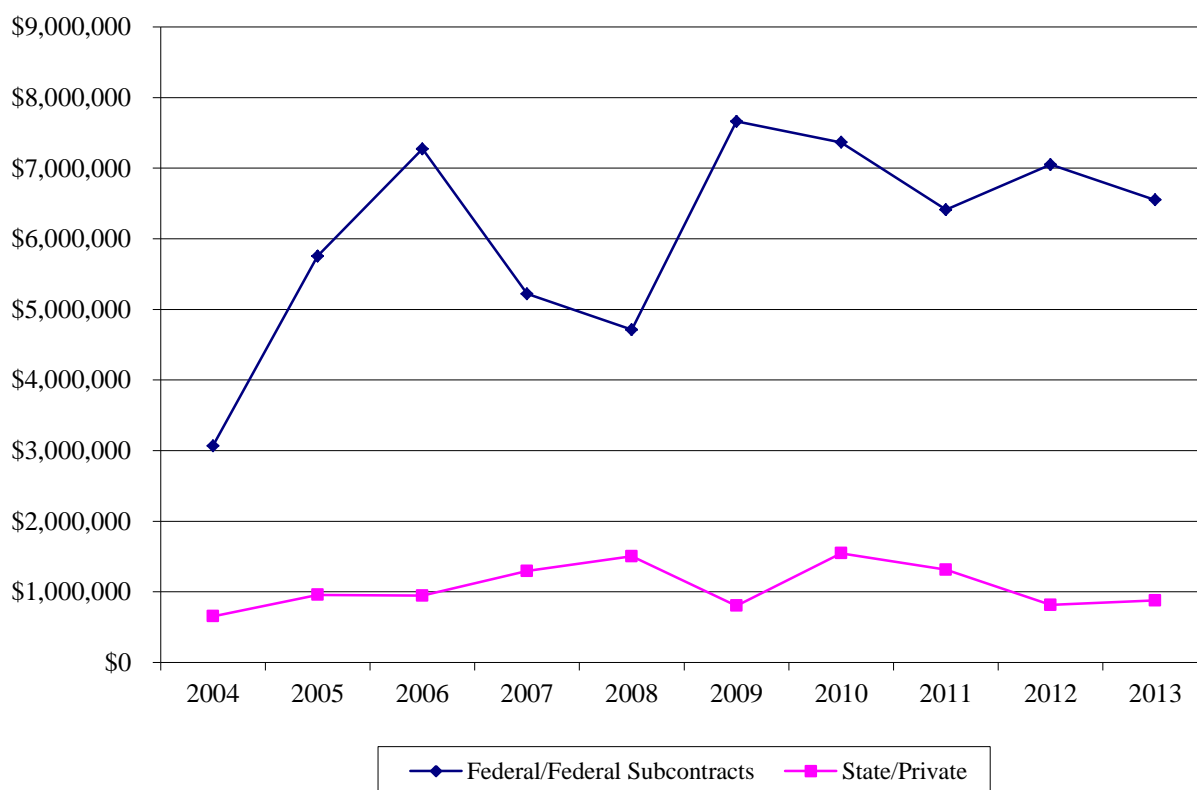
## Proposal Submission Activity





# External Research Funding (All Sources)

Year	Grants/Contracts		Total
	Federal/Federal Subcontracts	State/Private	
2004	\$3,065,799	\$653,585	\$3,719,384
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



# Physical & Mathematical Sciences 2013 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>
<b>Chemistry &amp; Biochemistry</b>						-	-	-
Farnsworth, Paul		DOE	Ion Production in Ambient Ionization Sources for Mass Spectrometry	9/1/2003	1/31/2014	R0122003	\$140,000	1
Woodfield, Brian		DOE	Energetics on Nanomaterials	5/15/2005	8/14/2014	R0202157	\$165,000	1
Austin, Daniel		NASA	Microfabricated Dual Mass Spectrometer for Planetary Exploration	5/5/2010	5/4/2014	R0162009	\$105,647	1
Austin, Daniel		NASA	Roses - 2009	5/5/2010	5/4/2014	R0162009	\$113,669	1
Watt, Richard		NAWC - China Lake	Synthesis of Anionic Host Guest Complexes	6/11/2011	7/30/2014	R0202370	\$78,000	1
Graves, Steven	w/ Woolley, Adam	NIH	Integrated Microfluidic Devices for Preterm Birth Biomarker Measurement	4/1/2006	5/31/2014	R0102023	\$165,712	1
Willardson, Barry		NIH	Mechanisms of Assembly of Photoreceptor G Protein Complexes	5/3/1999	3/31/2014	R0102053	\$337,500	1
Willardson, Barry		NIH	Mechanisms of Assembly of Photoreceptor G Protein Complexes	5/3/1999	3/31/2014	R0102053	\$18,750	1
Woolley, Adam		NIH	Integrated Microfluidic Devices for Preterm Birth Biomarker Measurement	4/1/2006	5/31/2014	R0102023	\$165,713	1
Hansen, Jaron		NSF	The Role of Radical Water Complexes in the Atmosphere	8/15/2013	7/31/2016	R0112236	\$246,615	1
Shirts, Randy	w/ Hansen, Jaron	NSF	The Role of Radical Water Complexes in the Atmosphere	8/15/2013	7/31/2016	R0112236	\$246,615	1
Savage, Paul		Sandia	Synthesis and Characterization of Ceragenins	1/16/2013	10/30/2014	R0302496	\$15,000	2
Savage, Paul		Scripps (NIH)	Molecular Pharmacology of NKT Cell Agonists	6/1/2013	5/31/2014	R0302508	\$113,307	2
Savage, Paul		SNL (DOE)	Investigation of Novel Coating Materials	1/16/2013	10/30/2013	R0302496	\$13,000	2
Ess, Daniel		U of VA (DOE)	Quantum Mechanical Calculations of Hydrocarbon C-H Bond	8/1/2011	7/31/2014	R0302428	\$83,000	2
Savage, Paul		Vanderbilt (NIH)	Treatment of Colorectal Cancer	4/1/2012	3/31/2014	R0302474	\$24,969	2

Buskirk, Alan		Yale (NIH)	Mechanisms of Ribosomal Reactions	7/23/2011	1/31/2014	Ro302455	\$60,795	2
Woolley, Adam		Yale (NIH)	Mechanisms of Ribosomal Reactions	4/1/2012	1/31/2014	Ro302455	\$4,391	2
Linford, Matt		Moxtek	Wire-grid Polarizer Passivation	9/1/2013	12/31/2013	Ro602413	\$48,734	4
Linford, Matthew		Moxtek	Wet Chemical Depositions for Wire Grid Polarizers	4/29/2013	8/31/2013	Ro602413	\$29,801	4
Linford, Matt		Moxtek	Moxtek General Research Support	4/29/2013	12/31/2013	Ro602413	\$1,000	4
Savage, Paul		N 8 Medical	Royalty payment	5/12/2004	12/31/2013	Ro802005	\$12,500	4
Savage, Paul		N-8	I.P. Royalty Payments	5/12/2004	Open	Ro802005	\$37,500	4
Linford, Matt		P2i	Advanced Nanocoatings	8/1/2011	7/31/2013	Ro602362	\$65,250	4
Hansen, Jaron		SCE	Identification of Sources of PM2.5 in UT County	7/30/2012	12/31/2013	Ro602398	\$2,654	4
Woolley, Adam		Semiconductor Research Corporation	Formation of Conductive Metal-semiconductor Interconnects with Sub 5-nm Linewidths	10/1/2013	9/30/2014	Ro602429	\$41,670	4
Hansen, Jaron		Sunset Laboratory	A Semi-continuous Monitor for the 1-hr Determination of Organic Marker Compounds	9/1/2013	8/31/2014	Ro602425	\$37,751	4
Harrison, Roger	w/Lamb, John	Thermo Fisher (Dionex)	Macrocycles Based Ion Chromatography	9/22/2009	6/30/2014	Ro602198	\$20,250	4
Lamb, John		Thermo Fisher (Dionex)	Macrocycles Based Ion Chromatography	9/22/2009	6/30/2014	Ro602198	\$20,250	4
Savage, Paul		Univ of Berg	Preparation of oxidized forms of prostaglandin	1/1/2014	12/31/2014	Ro570002	\$13,404	4
Lee, Milton	w/ Linford, Matt	US Synthetic	Development of Diamond Materials for Chromatography	1/1/2007	12/31/2013	Ro602191	\$50,000	4
Linford, Matt		US Synthetic	Development of Diamond Materials for Chromatography	1/1/2007	12/31/2013	Ro602191	\$50,000	4
Linford, Matt		US Synthetic	Development of Diamond Materials for Chromatography	1/1/2007	12/31/2014	Ro602191	\$100,000	4
Lee, Milton		Waters Corp.	Thermal Gradient Gas Chromatography	9/2/2013	12/31/2013	Ro602424	\$30,000	4
<b>Computer Science</b>								

Warnick, Sean		Dept Homeland Security	Attack Modeling for Distributed Decision Architecture	9/27/2013	9/26/2015	Ro202400	\$164,695	1
Zappala, Daniel	w/Warnick, Sean	Dept Homeland Security	Attack Modeling for Distributed Decision Architecture	9/27/2013	9/26/2015	Ro202400	\$164,694	1
Goodrich, Michael	w/ Tim McLain	NSF	I/UCRC Phase I: Center for Unmanned Aircraft Systems	3/1/2012	2/28/2017	Ro112200	\$20,000	1
Goodrich, Michael	w/McLain, Tim	NSF	C-UAS NSF I/UCRC REV Supplement	3/1/2012	2/28/2017	Ro112200	\$4,000	1
Goodrich, Michael	w/McLain, Tim	NSF	C-UAS NSF I/UCRC REU Supplement	3/1/2012	2/28/2017	Ro112200	\$2,500	1
Goodrich, Michael	w/McLain, Tim	NSF	C-UAS REU Supplement	3/1/2012	2/28/2017	Ro112200	\$4,000	1
Goodrich, Michael	w/McLain, Tim	NSF	I/UCRC: Center for Unmanned Aircraft Systems - CORBI Supplement	3/1/2012	2/28/2017	Ro112200	\$12,499	1
Goodrich, Michael	w/McLain, Tim	NSF	I/UCRC Phase I: Center for Unmanned Aircraft Systems	3/1/2012	2/28/2017	Ro112200	\$49,984	1
Goodrich, Michael	w/McLain, Tim	NSF	I/UCRC Phase I: Center for Unmanned Aircraft Systems	3/1/2012	2/28/2017	Ro112200	\$1,350	1
McCarthy, Jay		NSF	SHF:Small: Modern Web Applications without Callbacks	9/1/2010	8/31/2013	Ro112171	\$8,000	1
McCarthy, Jay		NSF	EAGER: A Measure Theory Semantics of Probability Theory	9/1/2013	2/28/2015	Ro112238	\$99,749	1
Mercer, Eric		NSF	Collaborative Research:A Static and Dynamic Verification Framework for Parallel Programming	4/15/2013	3/31/2017	Ro112230	\$195,423	1
Ringer, Eric		NSF	NAACL-HLT 2013 Student Research Workshop	7/1/2013	6/30/2014	Ro112233	\$15,000	1
Seppi, Kevin	w/Humphreys, Jeffrey	NSF	TUES: A New Curriculum in Applied and Computational Mathematics	9/15/2013	8/31/2017	Ro112234	\$149,979	1
Clement, Mark	w/Bybee, Seth	NSF	Phylogenomics, Revisionary Systematics, and Evolution of the Visual Systems in Dragonflies and Damselflies(Insecta: Ononata)	2/15/2013	1/31/2018	Ro112227	\$60,929	1
Goodrich, Michael	w/McLain, Tim	NSF (AFRL)	C-UAS Membership - AFRL Munitions Directorate	9/1/2012	8/31/2014	Ro112221	\$9,997	1
Goodrich, Michael	w/McLain, Tim	NSF (NASA)	C-UAS Membership - NASA Dryden	9/1/2012	8/31/2014	Ro112221	\$9,960	1
Clement, Mark		Boston U.(NIH)	Statistical Tools and Methods for Next-Generation Sequencing in Epigenetics	10/1/2011	2/28/2014	Ro302464	\$16,200	2
Snell, Quinn	w/Clement, Mark	Boston U.(NIH)	Statistical Tools and Methods for Next-Generation Sequencing in Epigenetics	10/1/2011	2/28/2014	Ro302464	\$16,200	2

Goodrich, Michael		Carnegie Mellon U. (ONR)	Cognitively Compliant Command for Multirobot Team	7/1/2009	5/31/2014	R0302319	\$82,500	2
Goodrich, Michael		Central Florida (ARL)	RCTA-H8 Dynamics of HR Military Teams & Orgs	7/1/2010	5/31/2013	R0302358	\$1,900	2
Goodrich, Michael		Central Florida (ARL)	RCTA-H8 Dynamics of HR Military Teams & Orgs	7/1/2010	5/31/2013	R0302358	\$9,500	2
Goodrich, Michael		TRACLabs(NASA)	Anytime Summarization for Remote Robot Operations	7/31/2013	7/30/2015	R0302536	\$107,755	2
Morse, Bryan	w/Goodrich, Michael	TRACLabs(NASA)	Anytime Summarization for Remote Robot Operations	7/31/2013	7/30/2015	R0302536	\$107,754	2
Goodrich, Michael		U. of Central Florida(ARL)	RCTA-H8 Dynamics of HR Military Teams & Organizations	7/1/2010	4/15/2014	R0302358	\$76,500	2
Seppi, Kevin		Utopia Compression (Air Force)	Enhancing Cooperative Control with Hierarchical Intelligence and Learning - Phase II	11/1/2013	10/31/2014	R0302543	\$15,000	2
Seppi, Kevin	w/Beard, Randal	Utopia Compression (Air Force)	Learning in the Context of Intelligent Control	11/1/2013	10/31/2014	R0302546	\$21,215	2
McCarthy, Jay		Westminister(NS F)	CS 10K; The Utah Exploring Computer Science Initiative	1/1/2013	12/31/2015	R0302509	\$37,231	2
McCarthy, Jay		Westminister(NS F)	REU--CS 10K; The Utah Exploring Computer Science Initiative	1/1/2013	12/31/2015	R0302510	\$8,000	2
Goodrich, Michael	w/Tim McLain	British Petroleum	C-UAS I/UCRC Membership Dues	7/1/2013	6/30/2014	R0602390	\$8,000	4
Mercer, Eric		Google	Summer of Code	11/1/2011	12/31/2013	R0602370	\$8,500	4
Goodrich, Michael	w/McLain, Tim	Insitu, Inc.	C-UAS I/UCRC Membership Dues	9/1/2012	9/1/2014	R0602390	\$8,000	4
<b>Geology</b>								
Radebaugh, Jani	w/ Austin, Daniel	NASA	Roses - 2009	5/5/2010	5/4/2014	R0162009	\$113,669	1
Rupper, Summer		NSF	REU Supplement - Annual Satellite Era Accumulations Pattern	8/1/2010	7/31/2014	R0112172	\$6,250	1
Rupper, Summer		NSF	Collaborative Research: Climate and glacier change in Bhutan: the last millenia, present and future	9/1/2013	8/31/2016	R0112240	\$219,805	1
Bickmore, Barry		U of OK (NASA)	Pathways to Mars Analogue Hematite through Nanoparticle Aggregation	5/1/2011	4/30/2014	R0302396	\$24,171	2
McBride, John		U. of Illinois (State of IL)	Integrate the Study of Geophysical Data for the proposed ADM Site	12/18/2007	4/30/2014	R0302254	\$29,517	2

Carling, Greg		U. of Wyo.(NPS)	Melting Glaciers: A source of Mercury and other trace elements to high elevation watersheds at Grand Teton National Park?	5/1/2013	4/30/2014	R0302522	\$5,000	2
<b>Mathematics</b>								
Humpherys, Jeffrey		NSF	TUES: A New Curriculum in Applied and Computational Mathematics	9/15/2013	8/31/2017	R0112234	\$149,980	1
Jarvis, Tyler	w/Humpherys, Jeffrey	NSF	TUES: A New Curriculum in Applied and Computational Mathematics	9/15/2013	8/31/2017	R0112234	\$149,980	1
Purcell, Jessica		NSF	CAREER: Hyperbolic Geometry of Knots and Links	6/1/2013	5/31/2018	R0112231	\$37,795	1
Wright, David		Common Core Inc	Common Core Consultant for State of New York	8/1/2013	4/30/2014	R0302532	\$16,556	2
Wright, David		Common Core(Dept of Ed)	Race to the Top Consultant for State of New York - Math Curriculum planning	8/1/2013	3/31/2014	R0302532	\$29,504	2
Forcade, Rodney	w/Hart, Gus	Duke U. (ONR)	Topological decompositions and spectral sampling algorithms for element substitution in critical technology	7/1/2013	9/30/2013	R0302530	\$42,875	2
Dorff, Michael		MAA (NSF)	Preparing Mathematical Sciences Students for Business, Industry, and Government Careers (Pre-BIG)	11/1/2013	10/30/2017	R0302537	\$213,762	2
Jenkins, Paul		Simons Foundation	Weakly Holomorphic Modular Forms	9/1/2013	8/31/2014	R0502182	\$7,000	4
Swenson, Eric		Simons Foundation	Group Boundary Dynamics	7/1/2011	8/31/2014	R0502143	\$7,000	4
<b>Mathematics Education</b>								
Teuscher, Dawn		Az State U. (NSF)	REU Supplement to Pathways Calculus	4/1/2013	8/31/2014	R0302516	\$23,460	2
Corey, Doug		Harvard (NSF)	Improving Mathematical Knowledge for Teaching the Impact of Math Solutions Professional Development	9/1/2009	8/31/2014	R0302311	\$262,726	2
Corey, Douglas		Harvard (NSF)	Improving Mathematical Knowledge for Teaching	9/1/2009	8/31/2013	R0302311	\$16,722	2
<b>Physics &amp; Astronomy</b>								
Bergeson, Scott		AFOSR	Reaching Higher Gamma in Ultracold Neutral Plasmas through Disorder-induced Heating Control	6/1/2012	5/31/2015	R0202364	\$105,903	1
Colton, John		ASU WAESO(NSF)	Electron spin lifetimes in a quantum dots and quantum wells	5/1/2013	8/31/2013	R0302519	\$756	1

Turley, R. Steven		ASU WAESO(NSF)	XUV Optics	5/1/2013	8/31/2013	RO302518	\$756	1
Radebaugh, Jani		NASA	Climate and Organic Inventory from Dunes to Titan	6/6/2012	6/5/2015	RO162014	\$106,447	1
Durfee, Dallin		NSF	Matterwave Interferometry with Ions	8/15/2012	7/31/2015	RO112217	\$79,436	1
Hart, Gus		NSF	Materials World Network: Discovering Novel Alloys via a Combined Computational and Experimental Approach	11/1/2009	9/30/2014	RO112154	\$120,000	1
Hirschmann, Eric	w/Neilsen, David	NSF	Collaborative Research: Loud, Bright, and Hot Binary Mergers	9/1/2013	8/31/2016	RO112239	\$61,942	1
Neilsen, David		NSF	Collaborative Research: Loud, Bright, and Hot Binary Mergers	9/1/2013	8/31/2016	RO112239	\$61,942	1
Ware, Michael		NSF	Photoemission By Large Electron Wave Packets Emitted Out the Side of a Relativistic Laser Focus	7/1/2010	6/30/2014	RO112162	\$5,000	1
Gee, Kent		ONR	Detailed characterization of the near-field noise environment from a full-scale jet	8/1/2011	7/31/2013	RO202349	\$20,000	1
Gee, Kent		ONR	Detailed characterization of the near-field noise environment from a full-scale jet	8/1/2011	7/31/2013	RO202349	\$25,000	1
Gee, Kent		ONR	Detailed Characterization of the near-field noise environment from a full-scale heated, supersonic jet	8/1/2011	7/31/2013	RO202349	\$17,967	1
Gee, Kent		ONR	Analytical Extensions to Rocket Plume Noise Prediction Models	10/16/2013	1/31/2014	RO202349	\$15,000	1
Neilsen, Traci	w/Gee, Kent	ONR	Detailed Characterization of the near-field noise environment from a full-scale heated, supersonic jet	8/1/2011	7/31/2013	RO202349	\$17,967	1
Neilsen, Tracianne	w/Gee, Kent	ONR	Analytical Extensions to Rocket Plume Noise Prediction Models	10/16/2013	1/31/2014	RO202349	\$15,000	1
Neilsen, Tracianne	w/Gee, Kent	ONR	Detailed characterization of the near-field noise environment from a full-scale jet	8/1/2011	7/31/2013	RO202349	\$20,000	1
Allred, David		ASU-WAESO(NSF)	Tungsten Infiltration of High Aspect Ratio CNTOs for High Temp MEMB Applications	5/1/2013	8/31/2013	RO302523	\$756	2
Blotter, Jon	w/Gee, Kent	Blue Ridge Research and Consulting	Energy Based Acoustic Measurement Sys for Rocket Noise	6/30/2011	5/31/2013	RO302399	\$15,659	2
Gee, Kent		Blue Ridge Research and Consulting	Energy Based Acoustic Measurement Sys for Rocket Noise	6/30/2011	5/31/2013	RO302399	\$15,659	2
Sommerfeldt, Scott	w/Gee, Kent	Blue Ridge Research and Consulting	Energy Based Acoustic Measurement Sys for Rocket Noise	6/30/2011	5/31/2013	RO302399	\$15,658	2
Gee, Kent		BRR&C(Air Force)	Acoustic Field and Source Measurement Support for the Joint Strike Fighter Program	8/27/2013	5/30/2014	RO302528	\$30,000	2

Neilsen, Tracianne	w/Gee, Kent	BRR&C(Air Force)	Acoustic Field and Source Measurement Support for the Joint Strike Fighter Program	8/27/2013	5/30/2014	RO302528	\$30,000	2
Gee, Kent		BRRC (NASA)	Analytical Extensions to Rocket Plume Noise Prediction Models Using Rocket Plume Acoustic Measurements	8/5/2013	9/30/2014	RO302529	\$8,334	2
Neilsen, Tracianne	w/Gee, Kent	BRRC (NASA)	Analytical Extensions to Rocket Plume Noise Prediction Models Using Rocket Plume Acoustic Measurements	8/5/2013	9/30/2014	RO302529	\$8,333	2
Thomas, Derek	w/Gee, Kent	BRRC (NASA)	Analytical Extensions to Rocket Plume Noise Prediction Models Using Rocket Plume Acoustic Measurements	8/5/2013	9/30/2014	RO302529	\$8,333	2
Campbell, Branton		CRDF Global(NSF)	Structural state and magnetic properties of nanocomposites formed by exfoliated graphite and 3d transition metals	3/15/2013	3/14/2015	RO302493	\$14,993	2
Hart, Gus		Duke U. (ONR)	Topological decompositions and spectral sampling algorithms for element substitution in critical technology	7/1/2013	9/30/2013	RO302530	\$42,875	2
Neilsen, David		Indiana U. (NASA)	Fully Relativistic Simulations of Black Holes and Neutron Stars with Global Magnetic Fields	3/1/2013	2/29/2016	RO302507	\$25,000	2
Hart, Gus		NETL/DOE	Novel Alloys via a Computational Approach	12/4/2012	11/14/2013	RO302490	\$54,000	2
Rees, Lawrence		U. of Mich (Homeland Security)	New Detectors, Electronics, and Algorithms for fast neutron spectroscopy	9/1/2012	8/31/2013	RO302491	\$47,400	2
Rees, Lawrence		U. of Mich (Homeland Security)	New Detectors, Electronics, and Algorithms for Fast Neutron Spectroscopy	9/1/2012	8/31/2013	RO302491	\$20,000	2
Leishman, Timothy		U. of Utah(NIH)	Gender Differences and Speech Accommodation in Occupational Settings: Acoustical Simulations and Measurements	4/12/2013	3/31/2014	RO302515	\$87,262	2
Hart, Gus		URS (DOE/NETL)	Novel Alloys via a computational approach	12/4/2012	11/14/2013	RO302490	\$113,550	2
Gee, Kent		Ball Aerospace and Technologies Corp	JSF Acoustic Field and Sound Measurement Consulting Support	11/10/2013	12/5/2013	RO302542	\$2,888	4
Neilsen, Tracianne	w/ Gee, Kent	Ball Aerospace and Technologies Corp	JSF Acoustic Field and Sound Measurement Consulting Support	11/10/2013	12/5/2013	RO302542	\$2,887	4
Leishman, Timothy	w/Sommerfeldt, Scott	Caterpillar	Measurement of Sound Power using Energy Density and Multi-Driver Source Development	3/1/2011	12/31/2013	RO602358	\$16,755	4
Sommerfeldt, Scott		Caterpillar	Measurement of Sound Power using Energy Density and Multi-Driver Source Development	3/1/2011	12/31/2013	RO602358	\$16,755	4
Leishman, Timothy		Institute for Scientific Research I Music	Characterization of Musical Instrument Radiation Part II	12/12/2012	8/31/2014	RO502164	\$23,492	4
Davis, Robert		Moxtek	X-Ray Windows and Filters - Project 15	6/1/2013	6/30/2014	RO602313	\$72,415	4



Vanfleet, Richard	w/Davis, Robert	Moxtek	X-Ray Windows and Filters - Project 15	6/1/2013	6/30/2014	RO602313	\$72,414	4
Davis, Robert	w/Woolley, Adam	Semiconductor Research Corporation	Formation of Conductive Metal-semiconductor Interconnects with Sub 5-nm Linewidths	10/1/2013	9/30/2014	RO602429	\$41,670	4
<b>Statistics</b>								
Reese, Shane		AF Research Lab	Statistical Analysis of Ion Molecular Chemistry: Calibration of Experimental Data and Computational Models	2/8/2013	5/8/2014	RO202385	\$26,631	1
Dahl, David		NIH	Nonparametric Bayesian Approaches to Modeling Protein Structure	7/1/2013	4/30/2014	RO102061	\$338,645	1
Engler, David		NIH	Novel Approaches for the Modeling of Disease Progression in Multiple Schlerosis	4/15/2012	3/31/2014	RO102058	\$38,700	1
Engler, David		NIH	Novel Approaches for the Modeling of Disease Progression in Multiple Schlerosis	4/15/2012	3/31/2014	RO102058	\$2,795	1
Tolley, Dennis	w/ Lee, Milton	Waters Corp.	Thermal Gradient Gas Chromatography	9/2/2013	12/31/2013	RO602424	\$30,000	4

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

Department Totals	
Chemistry & Biochemistry	\$3,409,396
Computer Science	\$1,303,301
Earth Science Museum	\$0
Geology	\$148,293
Mathematics	\$786,267
Mathematics Education	\$228,509
Physics & Astronomy	\$1,276,541
Statistics	\$260,000
<b>College Total:</b>	<b>\$7,412,307</b>

# Physical & Mathematical Sciences Source Breakdown of Grants and Contracts

Sponsor	No. Awarded	Amount
<b>Federal Sponsors</b>		
AFOSR	1	\$105,903
AFRL	1	\$26,631
ASU WAESO (NSF)	2	\$1,512
Department of Homeland Security	2	\$329,389
DOE	2	\$305,000
NASA	4	\$439,432
NAWC – China Lake	1	\$78,000
NIH	7	\$1,067,815
NSF	27	\$2,028,730
ONR	7	\$130,934
<i>Total</i>	54	\$4,513,346
<b>Federal Subcontract Sponsors</b>		
ASU (NSF)	2	\$20,756
Blue Ridge Consulting/ Research	3	\$46,976
Blue Ridge Consulting/ Research (Air Force)	2	\$60,000
Blue Ridge Consulting/ Research (NASA)	3	\$25,000
Boston University (NIH)	3	\$51,49
Carnegie Mellon U. (ONR)	1	\$82,500
Central Florida (ARL)	2	\$11,400
Common Core Incorporated	1	\$16,556
Common Core Incorporated (DoED)	1	\$29,504
CRDF Global (NSF)	1	\$14,993
Duke. U. (ONR)	2	\$85,750
Harvard (NSF)	2	\$279,448
Indiana U. (NASA)	1	\$25,000
MAA (NSF)	1	\$213,762
NETL/DOE	1	\$54,000
Sandia National Labs	1	\$15,000
Sandia National Labs (DOE)	1	\$13,000
Scripps (NIH)	1	\$113,307
TRACLabs(NASA)	2	\$215,509
U. Michigan (Homeland)	2	\$67,400
U. of OK (NASA)	1	\$24,171
U. of VA (DOE)	1	\$83,000
U. of Central Florida (ARL)	1	\$76,500
U. of Illinois (State of IL)	1	\$29,517
U. of Utah (NIH)	1	\$87,262
U. of Wyoming (NPS)	1	\$5,000
URS (DOE/NETL)	1	\$113,550
Utopia Compression (Air Force)	2	\$36,215
Vanderbilt (NIH)	1	\$24,969
Westminster (NSF)	2	\$45,231
Yale (NIH)	2	\$65,186

<i>Total</i>		\$2,035,414
<b>State Sponsors</b>		
<i>Total</i>		\$

**Private Sponsors**

Ball Aerospace and Technologies Corp	2	\$5,775
British Petroleum	1	\$8,000
Caterpillar, Inc.	2	\$33,510
Google	1	\$8,500
Institu, Inc.	1	\$8,000
Institute for Scientific Research I Music	1	\$23,492
Moxtek	5	\$224,364
N8 Medical	2	\$50,000
P2i	1	\$65,250
SCE	1	\$2,654
Semiconductor Research Corporation	2	\$83,340
Simons Foundation	2	\$14,000
Sunset Laboratory	1	\$37,751
Thermofisher (Dionex)	2	\$40,500
University of Berg	1	\$13,404
US Synthetic	3	\$200,000
Waters Corporation	2	\$60,000
<i>Total</i>	30	\$878,540

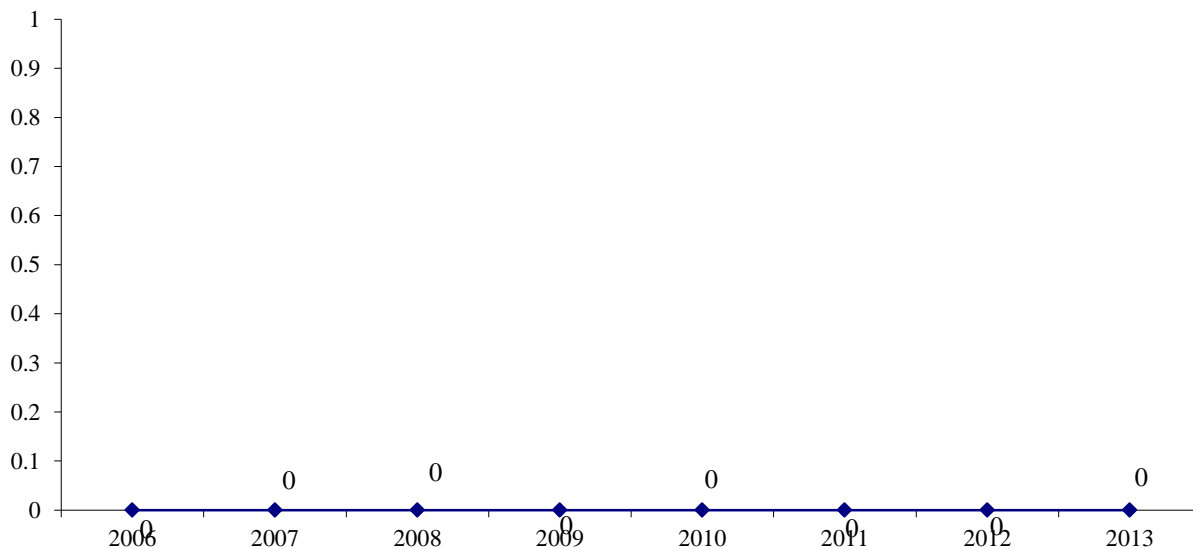


# Religious Education

# Summary of Sponsored Research (Grants & Contracts)

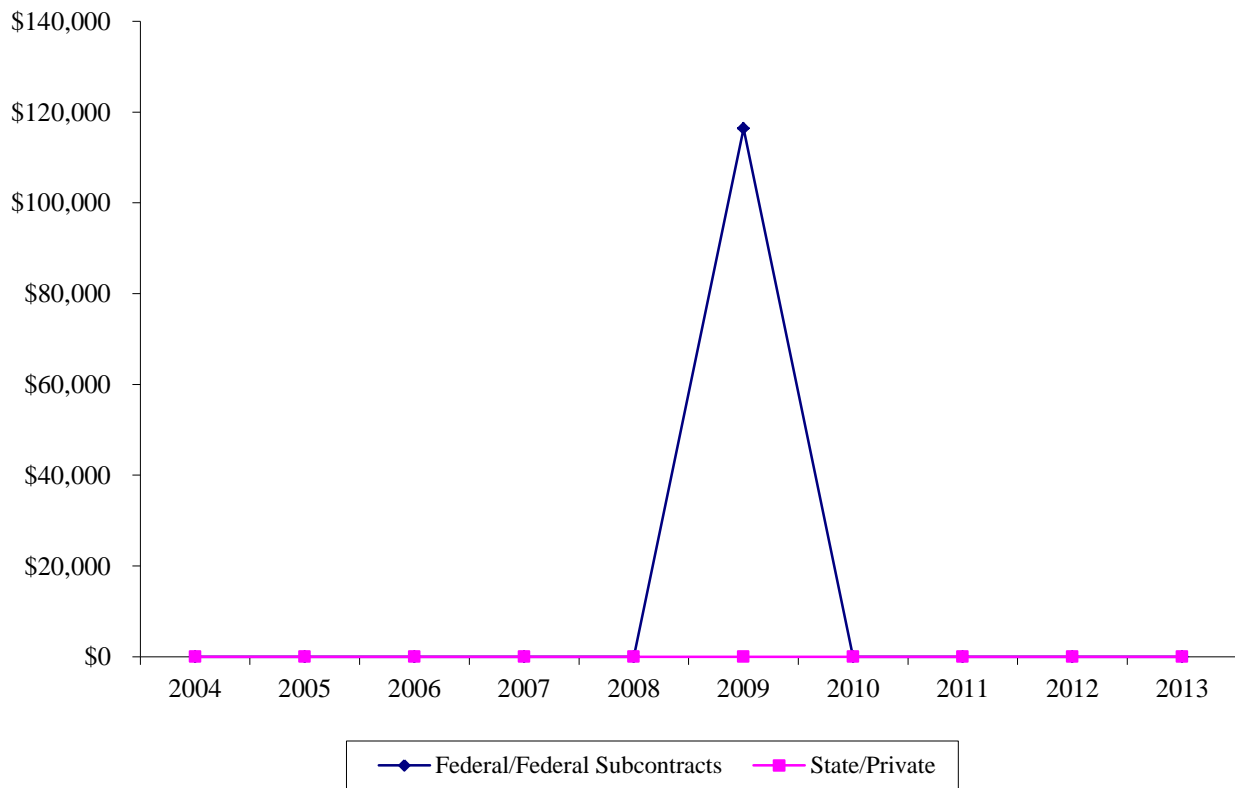
Department	# of Faculty Submitting	# of Proposals Submitted	# of Awards	Dollars Awarded
Ancient Scripture	0	0	0	\$0
Church History & Doctrine	0	0	0	\$0
<i>TOTALS</i>	0	0	0	\$0

## Proposal Submission Activity



# External Research Funding (All Sources)

Year	Grants/Contracts		Total
	Federal/Federal Subcontracts	State/Private	
2004	\$0	\$0	\$0
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
2012	\$0	\$0	\$0



# Religious Education 2013 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

\$0

**College Total:**

\$0

# Religious Education

## Source Breakdown of Grants and Contracts

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



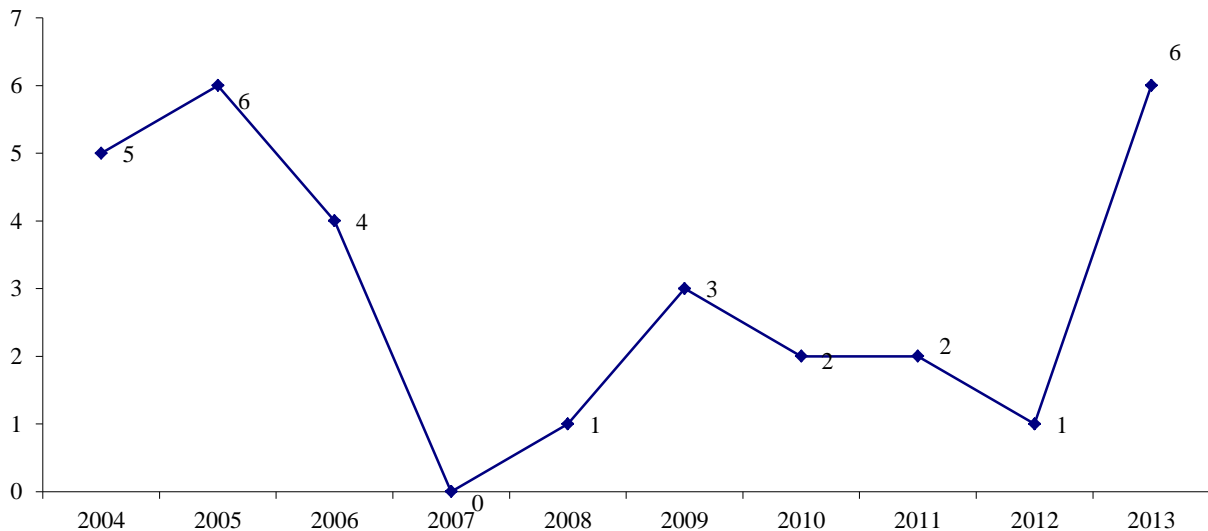


# Non-College Units

# 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	6	0	\$0
Center for Instructional Design	0	0	\$0
Center for Service and Learning	0	0	\$0
Church Educational System	0	0	\$0
Faculty Center	0	0	\$0
General Education & Honors	0	0	\$0
Harold B. Lee Library	0	0	\$0
Information Technology Services	0	0	\$0
Neal A. Maxwell Institute for Religious Scholarship	0	0	\$0
Jacobsen Center	0	0	\$0
Media Services	0	0	\$0
Office of Research and Creative Activities	0	4	\$1,047
Technology Transfer	0	0	\$0
University Accessibility Center	0	0	\$0
University Computing Services	0	0	\$0
<b>TOTALS</b>	<b>6</b>	<b>4</b>	<b>\$1,047</b>

## Proposals Submitted



# External Research Funding (All Sources)

Year	Grants/Contracts		Total
	Federal/Federal Subcontracts	State/Private	
2004	\$30,000	\$32,000	\$62,000
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



# Non-College Units 2013 Awards

<u>PI</u>	<u>Sponsor</u>	<u>Title</u>	<u>Beg. Date</u>	<u>End Date</u>	<u>Amount</u>	<u>Type</u>
<i>Campus Life</i>						
Garrett, Sandra	Lost Paws	Pre-vet Preceptorship	1/1/2013	9/30/2013	\$100	4
Garrett, Sandra	Lost Paws	Pre-vet Preceptorship	9/11/2006	9/30/2014	\$477	4
Garrett, Sandra	Lost Paws	Pre-vet Preceptorship	10/23/2006	9/30/2014	\$200	4
Garrett, Sandra	Lost Paws	Pre-vet Preceptorship	9/11/2006	9/30/2014	\$270	4

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

## Department Totals

Academic Internship	\$0
Admissions & Records	\$0
Associate Academic Vice President	\$0
Campus Life	\$0
Center for Instructional Design	\$0
Center for Service and Learning	\$0
Church Educational System	\$0
Faculty Center	\$0
General Education & Honors	\$0
Harold B. Lee Library	\$0
Information Technology Services	\$0
Neal A. Maxwell Institute for Religious Scholarship	\$0
Office of Research and Creative Activities	\$1,047
Jacobsen Center	\$0
Media Services	\$0
Technology Transfer	\$0
University Accessibility Center	\$0
University Computing Services	\$0
<b>College Total:</b>	<b>\$1,047</b>

# Non-College Units

## Source Breakdown of Grants and Contracts

<b>Sponsor</b>	<b>Number Awarded</b>	<b>Total Amount</b>
<b>Federal</b>		
None		
<i>Total</i>	<hr/>	
<b>Subcontracts</b>		
None		
<i>Total</i>	<hr/>	
<b>State</b>		
None		
<i>Total</i>	<hr/>	
<b>Private</b>		
Lost Paws	4	\$1,047
<i>Total</i>	4	\$1,047



# 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.<sup>1</sup> 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.

---

<sup>1</sup> 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 2013 are summarized by the following table.

## IRB Protocol Activity 2013

College	New Protocols	Continuing Protocols
McKay School of Education	75	42
Fulton College of Engineering & Technology	16	5
Fine Arts & Communications	21	2
Family Home & Social Sciences	149	132
Humanities	46	22
LSCI	81	145
LAW	1	2
Marriott School of Management	47	31
Nursing	23	20
Physical & Mathematical Sciences	15	19
Religious Education	5	2
Non-College Units	21	13
<b>TOTALS</b>	<b>516</b>	<b>435</b>



# 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 2013 are summarized by the following table.

## IACUC Protocol Activity 2013

College	New Approvals	Continuing	Pending
E&T	0	0	0
FHSS	1	4	0
LSCI	25	53	0
P&MS	3	0	0
ORCA	2	0	0
<b>TOTALS</b>	31	57	0

# The Institutional BioSafety Committee (IBC)

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

There were twenty-three new projects reviewed by the BioSafety Committee during the 2013 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><b>Year</b></i>	<i><b>Recipient</b></i>
2013	Ramona Hopkins
2012	Tom Fletcher
2011	Scott Sommerfeldt
2010	Barry Willardson
2009	Keith Crandall

## ***Intellectual Properties***

<i><b>Year</b></i>	<i><b>Recipient</b></i>
2013	Charles Knutson
2012	Tom Sederberg
2011	Daniel Simmons
2010	Kent Seamons
2009	Barry M. Lunt and Matthew R. Linford

# 2013 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.

<b>Recipient</b>		<b>Department</b>	<b>College</b>
Thomas	Knotts	Chemical Engineering	E&T
Daniel	Ames	Civil and Environmental Engineering	E&T
Neal	Bangerter	Electrical & Computer Engineering	E&T
Paul	Skaggs	Industrial Design	E&T
Dale	Rowe	Information Technology	E&T
Scott	Thomson	Mechanical Engineering	E&T
Gary	Seastrand		EDUC
Robert	Walz	Communications	FA&C
Julia	Ashworth	TMA	FA&C
Daniel	Barney	Visual Arts	FA&C
Paul	Stavast	Anthropology	FHSS
Cynthia	Finlayson	Anthropology	FHSS
Jacob	Hickman	Anthropology	FHSS
Joseph	Price	Economics	FHSS
Jay	Goodliffe	Political Science	FHSS
Shawn	Gale	Psychology	FHSS
Scott	Steffensen	Psychology	FHSS
Brock	Kirwan	Psychology & Neuroscience	FHSS
Brian	Willoughby	School of Family Life	FHSS
Sarah	Coyne	School of Family Life	FHSS
Kevin	Shafer	School of Social Work	FHSS
Tim	Heaton	Sociology	FHSS
Eric	Dahlin	Sociology	FHSS
Jonathan	Ostenson	English	HUM
Michelle	James	German	HUM
Deryle	Lonsdale	Linguistics & English Language	HUM
	Baker		
Wendy	Smemoe	Linguistics & English Language	HUM
Neil	Anderson	Linguistics and English Language	HUM
Brigham	Daniels	LAW	LAW
Michael	Whiting	Biology	LSCI

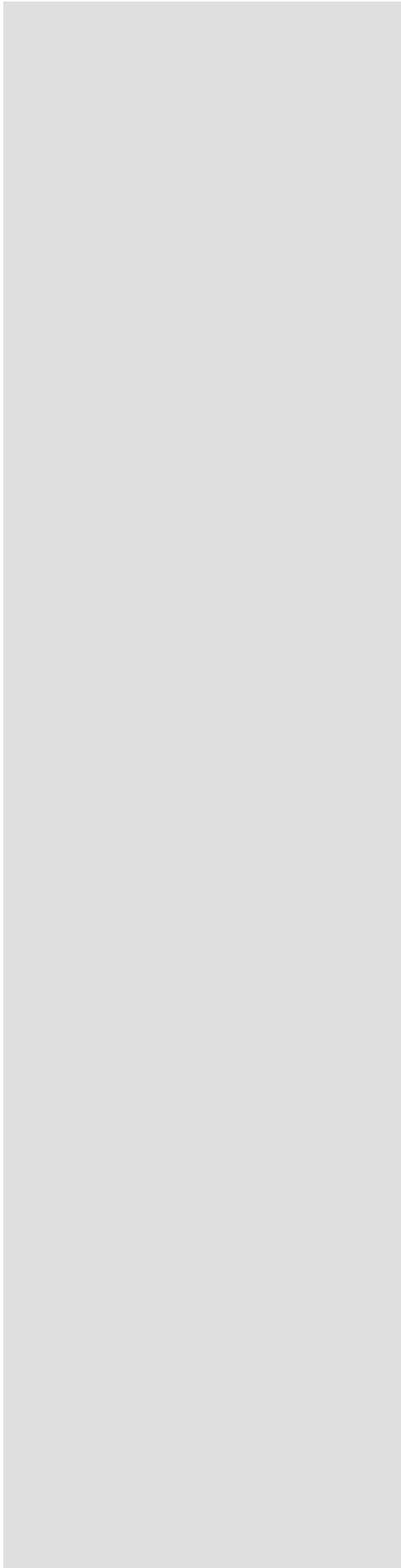
Clinton	Whipple	Biology	LSCI
John	Kauwe	Biology	LSCI
Mark	Belk	Biology	LSCI
Richard	Gill	Biology	LSCI
Kim	ONeill	Microbiology and Molecular Biology	LSCI
Brian	Poole	Microbiology and Molecular Biology	LSCI
Laura	Bridgewater	Microbiology and Molecular Biology	LSCI
Joel	Griffitts	MMBIO	LSCI
Julianne	Grose	MMBIO	LSCI
Steven	Johnson	MMBIO	LSCI
Chad	Hancock	Nutrition, Dietetics and Food Science	LSCI
Jeffery	Barrow	PDBio	LSCI
Jeff	Edwards	PDBio	LSCI
David	Thomson	Physiology & Developmental Biology	LSCI
Paul	Reynolds	Physiology and Developmental Biology	LSCI
Sam	StClair	Plant and Wildlife Sciences	LSCI
Ryan	Stewart	Plant and Wildlife Sciences	LSCI
Richard	Terry	PWS	LSCI
David	Kryscynski	Organizational Leadership and Strategy	MSM
Jane	Lassetter	Nursing	Nursing
Barbara	Heise	Nursing	Nursing
James	Kohl	Nursing	Nursing
Janelle	Macintosh	Nursing	Nursing
Katreena	Merrill	Nursing	Nursing
Gaye	Ray	Nursing	Nursing
David	Dearden	Chemistry & Biochemistry	P&MS
Barry	Willardson	Chemistry and Biochemistry	P&MS
Steven	Castle	Chemistry and Biochemistry	P&MS
Emily	Bates	chemistry and biochemistry	P&MS
Eric	Ringger	Computer Science	P&MS
Scott	Ritter	Geological Sciences	P&MS
Jani	Radebaugh	Geological Sciences	P&MS
Pace	Nielsen	Mathematics	P&MS
Tyler	Jarvis	Mathematics	P&MS
Sum	Chow	Mathematics	P&MS
Keith	Leatham	Mathematics Education	P&MS
Kent	Gee	Physics and Astronomy	P&MS
Richard	Vanfleet	Physics and Astronomy	P&MS
Karine	Chesnel	Physics and Astronomy	P&MS
Kerry	Muhlestein	Ancient Scripture	REL

Lincoln

Blumell

Ancient Scripture

REL



# Student Recognition



# 2013 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>).

<b>Department</b>	<b>Mentor</b>	<b>Student</b>
Accounting	Linda Reynolds	Devan Squires
Accounting	Steven Glover	Noah Myers
Anthropology	Charles Nuckolls	Daniel King
Anthropology	Charles Nuckolls	Hannah Steffensen
Anthropology	Charles Nuckolls	Britten Harmon
Anthropology	Charles Nuckolls	Darrik Cheney
Anthropology	Charles Nuckolls	Keara Moyle
Anthropology	Charles Nuckolls	Lindsey Fields
Anthropology	Charles Nuckolls	Reber April
Art History and Curatorial Studies	Linda Reynolds	Aaron Haines
Art History and Curatorial Studies	Linda Reynolds	Carlyle Schmollinger
Art History and Curatorial Studies	Dawson Hedges	Mason Bennett
Art History and Curatorial Studies	Linda Reynolds	Nicole Vance
Asian and Near Eastern Languages	Camille Olson	Aubrey Brower
Asian and Near Eastern Languages	Camille Olson	David Ridge
Asian and Near Eastern Languages	Camille Olson	Michael Trotter
Asian and Near Eastern Languages	Scott Miller	Stephen Smoot
Asian and Near Eastern Languages	Scott Miller	Anna Moore
Biochemistry	Greg Burton	Brendan Coutu
Biochemistry	Greg Burton	Chad Torgerson
Biochemistry	Greg Burton	Devon Blake
Biochemistry	Laura Bridgewater	Jeffrey Schachterle
Biochemistry	Greg Burton	Matthew Lelegren
Biochemistry	Greg Burton	Philip Young
Biochemistry	Greg Burton	Sarah Bahr
Biochemistry	Greg Burton	Stephen Hill
Biochemistry	Greg Burton	Stewart Morley
Bioinformatics	Dennis Shiozawa	Lyndsay Staley
Bioinformatics	Dennis Shiozawa	Ryan Hillary
Bioinformatics	Dennis Shiozawa	Spencer Foutz

Biology	Dixon Woodbury	Derrick Crawford
Biology	Michelle James	Nathan Conder
Biology	Laura Bridgewater	Paulo Machicao
Biology	Laura Bridgewater	Sterling Adams
Biology	Dean Busby	Wesley Godfrey
Biology	Dennis Shiozawa	Westen Archibald
Biology	Eric Jellen	Ivy Chatwin
Biology	Laura Bridgewater	Bryan Merrill
Biology	Laura Bridgewater	Cameron Sargent
Biology	Dixon Woodbury	Jessica Flory
Biology	Laura Bridgewater	Jillian Markham
Biology	Laura Bridgewater	Josh Yates
Biology	Laura Bridgewater	Sara Mason
Biophysics	Dixon Woodbury	Michael Murri
Biophysics	Dennis Shiozawa	Michael Naegle
Biophysics	Dixon Woodbury	Mitchell Gleed
Business Management	Timothy Smith	Christopher Badger
Business Management	Bruce Money	Lonnie Bullock
Business Management	John Hoffmann	Kyle Durfee
Business Management	Bruce Money	Travis Hancock
Chemical Engineering	Randy Lewis	Brian Stimpson
Chemical Engineering	Randy Lewis	Joshua Flygare
Civil Engineering	Rollin Hotchkiss	Carly Hyatt
Civil Engineering	Rollin Hotchkiss	Daniel Blake
Civil Engineering	Rollin Hotchkiss	Daniel Miller
Clinical Laboratory Science	Laura Bridgewater	Arthur Lee
Clinical Laboratory Science	Dixon Woodbury	Ashley Salin
Communication Disorders	Christopher Dromey	Taylor Whitmer
Communications	Eric Jellen	Adam Olson
Communications	Edward Adams	Timothy Colvin
Communications	Edward Adams	Emma Penrod
Communications	Dawson Hedges	Karen Sullivan
Computer Science	Kory Katseanes	Andrew Jensen
Computer Science	William Eggington	Logan Kearsley
Computer Science	Robin Roundy	Mark Woo
Computer Science	Parris Egbert	Ryan Cheatham
Dance	Marilyn Berrett	Kaitlin Fayles
Dance	Marilyn Berrett	Esther Hopkin
Economics	Darren Hawkins	Austin Beck

Economics	Darren Hawkins	Brady Grayson
Economics	Michelle James	Carl Hayden
Economics	Eric Eide	Chase Coleman
Economics	Eric Eide	David Gordon
Economics	Eric Eide	Eric Davis
Economics	Eric Eide	Grant Gannaway
Economics	Darren Hawkins	Madeleine Gleave
Economics	David Hart	Matthew Moen
Economics	Eric Eide	Riley Wilson
Economics	Eric Eide	Taylor Canann
Education	Don't know department chair	Erika Koth
Electrical Engineering	Brent Nelson	Douglas Bailey
Electrical Engineering	Brent Nelson	Forrest Minor
Electrical Engineering	Brent Nelson	Leeland Woodard
Electrical Engineering	Brent Nelson	Nathan Ives
Electrical Engineering	Dixon Woodbury	Ryan Williamson
Electrical Engineering	Brent Nelson	Stephen Wood
Electrical Engineering	Brent Nelson	Thomas Wall
English	Phillip Snyder	Benjamin Rice
English	Brent Top	Jennifer Duque
English	Michelle James	Lucas Jones
English	Phillip Snyder	Robert Polo
English	Phillip Snyder	Thomas Brown
English	William Eggington	Kendra Williamson
English Teaching	Brent Top	Amy Connelly
Environmental Science	Eric Jellen	David Carroll
Environmental Science	Eric Jellen	Jared Baxter
Environmental Science	Eric Jellen	Karen Manning
Environmental Science	Eric Jellen	Tayte Campbell
European Studies	Michelle James	Romy Franks
Exercise Science	Dawson Hedges	Eliza Warren
Exercise Science	Michelle James	Andrew Smith
Family Life	Amy Jensen	Rebekah Jackson
Family Life	Dean Busby	Eden Moss
Family Life	Dean Busby	Emily Howard
Geography	Ryan Jensen	Kenneth Barlow
Geography	Ryan Jensen	Kimball Hansen
Geography	Ryan Jensen	Chelsea Decker
Geography	Ryan Jensen	Conor Fishback

Geography	Ryan Jensen	John Naylor
Geography	Linda Reynolds	Shane Woods
Geography	Ryan Jensen	Alex Norr
Geography	Ryan Jensen	Austin Parker
Geology	Scott Ritter	Durban Keeler
Geology	Scott Ritter	Matthew Olson
German and Slavic Languages	Michelle James	Anna Burton
German and Slavic Languages	Michelle James	Katelyn Gordon
German and Slavic Languages	Michelle James	Tessa Lush
German and Slavic Languages	Michelle James	Luke Swenson
German and Slavic Languages	Michelle James	Daniel Cardoza
German and Slavic Languages	William Eggington	Vitalijs Sadovskis
Health Science	Michael Dunn	Brett Shaw
Health Science	Michael Barnes	Chelsea Sorensen
Health Science	Michael Barnes	Emily Drake
Health Science	Dennis Shiozawa	Frederick Rohlfing
Health Science	Laura Bridgewater	Lance Stutz
Health Science	Michael Barnes	Michelle Steele
History	Dennis Shiozawa	Cameron Schmutz
History	Dawson Hedges	Scott Bakowski
History Teaching	Donald Harreld	Ashley Bobadilla
Humanities	George Handley	Laura Hatch
Humanities	George Handley	Adam Lloyd
Information Systems	Marshall Romney	Erik Andersen
International Relations	Darren Hawkins	Elizabeth McGuire
International Relations	Darren Hawkins	John Harris
International Relations	Darren Hawkins	Lucas Brook
International Relations	Darren Hawkins	Skye Herrick
Landscape Management	Eric Jellen	JanaLynn Franke
Linguistics	William Eggington	Jarrett Lever
Linguistics	Charles Nuckolls	Marcel Sanchez
Linguistics	William Eggington	Shawn Stevens
Mathematics	Timothy Smith	Tyler Harris
Mathematics	Robin Roundy	William Cocke
Mechanical Engineering	Tim McLain	Autumn Pando
Mechanical Engineering	Tim McLain	Braden Hancock
Mechanical Engineering	Tim McLain	Brett Rowberry
Mechanical Engineering	Tim McLain	Dallin Swiss
Mechanical Engineering	Tim McLain	Jacob Robinson

Mechanical Engineering	Randy Lewis	Jared Bruton
Mechanical Engineering	Randy Lewis	Jeff Perry
Mechanical Engineering	Tim McLain	Luke Rasmussen
Mechanical Engineering	Tim McLain	Mitchell Hortin
Mechanical Engineering	Tim McLain	Ryan Jenkins
Mechanical Engineering	Tim McLain	Zach Smith
Microbiology and Molecular Biology	Eric Jellen	Christian Boekweg
Microbiology and Molecular Biology	Greg Burton	Ella Wyllie
Microbiology and Molecular Biology	Laura Bridgewater	Jared Balaich
Microbiology and Molecular Biology	Laura Bridgewater	Kevin Johnson
Microbiology and Molecular Biology	Eric Jellen	Samuel Saunders
Microbiology and Molecular Biology	Greg Burton	Aaron McBride
Microbiology and Molecular Biology	Laura Bridgewater	Brittany Kartchner
Microbiology and Molecular Biology	Laura Bridgewater	David Drake
Microbiology and Molecular Biology	Laura Bridgewater	Hyrum Shumway
Microbiology and Molecular Biology	Laura Bridgewater	Lissenya Argueta
Microbiology and Molecular Biology	Laura Bridgewater	Michael Ahlborn
Microbiology and Molecular Biology	Laura Bridgewater	Whitney Hoopes
		Christopher Machado
Music	Kory Katseanes	Loyd Christensen
Music	Laura Bridgewater	Brady Bills
Music	Kory Katseanes	Cami Anderson
Music	Russell Taylor	Nicole Okeson
Music	Russell Taylor	Aaron Gustin
Neuroscience	Dennis Shiozawa	Caitlin Munger
Neuroscience	Dennis Shiozawa	Catie Nielson
Neuroscience	Dawson Hedges	Dalan Brown
Neuroscience	Dawson Hedges	Emily White
Neuroscience	Dawson Hedges	Jordan Davies
Neuroscience	Dawson Hedges	Joseph Linzey
Neuroscience	Greg Burton	Joy Williams
Neuroscience	Dawson Hedges	Ronald Lopez
Neuroscience	Dixon Woodbury	Spencer Bell
Nursing	Patricia Ravert	Alyssa Lark
Nursing	Patricia Ravert	Arlene Johnston
Nursing	Eric Jellen	Ashley Finch
Nursing		Brian Hayes
Nursing	Patricia Ravert	Brianna Smith
Nursing	Don't know department chair	Brittni Miller

Nursing	Dean Patricia Ravert	Camille Tranter
Nursing	Patricia Ravert	Charity Rickett
Nursing	Patricia Ravert	Christie Beck
Nursing	Patricia Ravert	Diana Carter
Nursing	Patty Ravert	Jennifer Orton
Nursing	Patricia Ravert	Jordan Scanlon
Nursing	Don't know department chair	Madeline Goodfellow
Nursing	Patricia Ravert	Maribelle Burris
Nursing	Patricia Ravert	Michael Brizzee
Nursing	Patricia Ravert	Michael Worthington
Nursing	Patricia Ravert	Michelle Herring
Nutrition, Dietetics, and Food Science	Michael Dunn	April McMurray
Nutrition, Dietetics, and Food Science	Michael Dunn	Blair Harmon
Physics and Astronomy	Michelle James	Aubrey Hatch
Physics and Astronomy	Ross Spencer	Daniel Thrasher
Physics and Astronomy	Ross Spencer	Eric Gibbs
Physics and Astronomy	Ross Spencer	Jarom Jackson
Physics and Astronomy	Ross Spencer	Soyoung Jung
Physics and Astronomy	Ross Spencer	Susan Stoffer
Physics and Astronomy	Steven Williams	David Ludlow
Physics and Astronomy	Ross Spencer	Jason Anderson
Physics and Astronomy	Ross Spencer	Jazz Myres
Physics and Astronomy	Ross Spencer	Matea Trevino
Physics and Astronomy	Ross Spencer	Nathan Eyring
Physics and Astronomy	Ross Spencer	Carla Carroll
Physics and Astronomy	Ross Spencer	Thayne McCombs
Physiology and Developmental Biology	Dixon Woodbury	Braden Tucker
Physiology and Developmental Biology	Dixon Woodbury	Brigham Barzee
Physiology and Developmental Biology	Laura Bridgewater	Bryce Anderson
Physiology and Developmental Biology	Dixon Woodbury	Jeffrey Kartchner
Physiology and Developmental Biology	Dixon Woodbury	Jordan Huber
Physiology and Developmental Biology	Dixon Woodbury	Kristen Meacham
Physiology and Developmental Biology	Dixon Woodbury	Kylen Zibetti
Physiology and Developmental Biology	Laura Bridgewater	Marshall Sheide
Physiology and Developmental Biology	Greg Burton	Matthew Whited
Physiology and Developmental Biology	Dixon Woodbury	Rachel Schneider
Political Science	Darren Hawkins	Brian Reed
Political Science	Darren Hawkins	Cynthia West

Political Science	Darren Hawkins	Ethan Busby
Political Science	Darren Hawkins	Jessica Weinfurter
Political Science	Dixon Woodbury	Karl Andersen
Political Science	Darren Hawkins	Kyrene Gibb
Political Science	Darren Hawkins	Neal Hoopes
Political Science	Darren Hawkins	Robert Richards
Political Science	Darren Hawkins	Ryan Hill
Political Science	Darren Hawkins	Zachary Smith
Psychology	Dawson Hedges	Abigail Farr
Psychology	Dawson Hedges	Alex Dresden
Psychology	Timothy Smith	Alexandra Knell
Psychology	Dawson Hedges	Jason Lefrandt
Psychology	Dawson Hedges	Jenna Jackson
Psychology	Dawson Hedges	Jonathan Mietchen
Psychology	Dawson Hedges	Justin Christensen
Psychology	Dawson Hedges	Kaylie Carbine
Psychology	Dawson Hedges	Kevin Rushton
Psychology	Dawson Hedges	Laurie Anderson
Psychology	Dawson Hedges	Megan Bingham
Psychology	Dawson Hedges	Melissa Richardson
Psychology	Dawson Hedges	Patrick OConnell
Psychology	Dawson Hedges	Rachael Howe
Psychology		Viktor Koltko
Recreation Management and Youth Leadership	Patti Freeman	Caitlin Trotter
Religion	Don Harreld	Abbie Black
Sociology	John Hoffmann	Chloe Litchfield
Sociology	Renata Forste	Erik Lovell
Sociology	Renata Forste	Hayley Heath
Sociology	Renata Forste	Kyle Nelson
Spanish and Portuguese	Laura Bridgewater	Marcus Vranes
Spanish and Portuguese	David Larraway	Newell Porter
Statistics	Dawson Hedges	Noah Robins
Statistics	Dennis Tolley	Richard Payne
Statistics	Dennis Tolley	Brittany Spencer
Statistics	Dennis Tolley	Jessica Seeger
Theatre and Media Arts	Parris Egbert	Matthew Asanuma
Theatre and Media Arts	Amy Jensen	Kenneth Merrill
Visual Arts	Linda Reynolds	Alyssa Scott
Visual Arts	Linda Reynolds	William Day

Visual Arts	Linda Reynolds	Logan Havens
Visual Arts	Amy Jensen	Danielle Peterson
Visual Arts	Linda Reynolds	Kendall Hale
Visual Arts	Linda Reynolds	Jason Palmer





# 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
IRB Administrator:	Sandee Munoz
Research Administrator:	Debbie Silversmith
Research Administrator:	Marilyn Webb
Office Manager/Secretary:	Courtney Bulsiewicz
Part-time Secretaries:	Alex Gillett, Jillian Reisner
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)