



# 2012 Annual Report Of Sponsored Research

## Office of Research and Creative Activities



O·R·C·A

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

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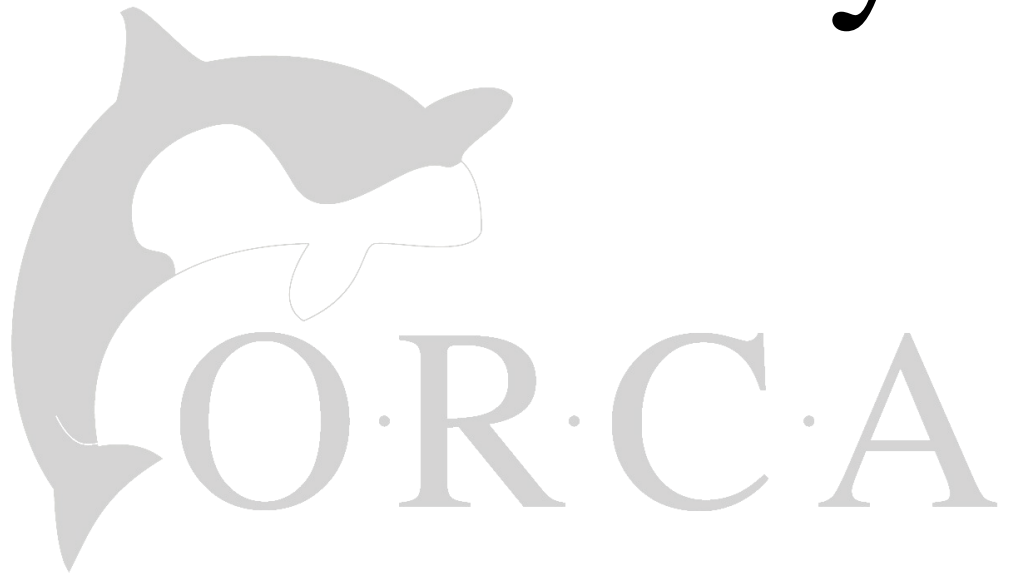
# Preface

This report covers January 1, 2012 to December 31, 2012.

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

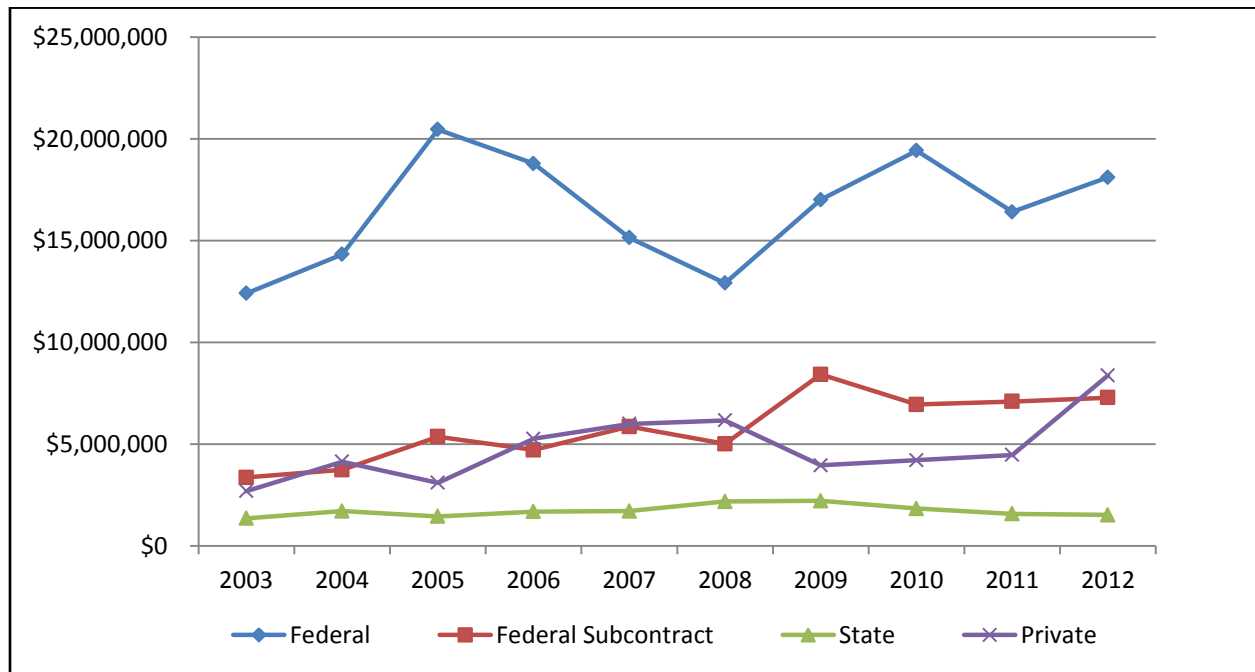
- *Reports of Sponsored Programs:* Sponsored programs at BYU are those funded by external sources through ORCA. They are largely research projects, but many include programs that are designed to develop or support instructional or service activities. Support for creative activities such as performance,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

# The University



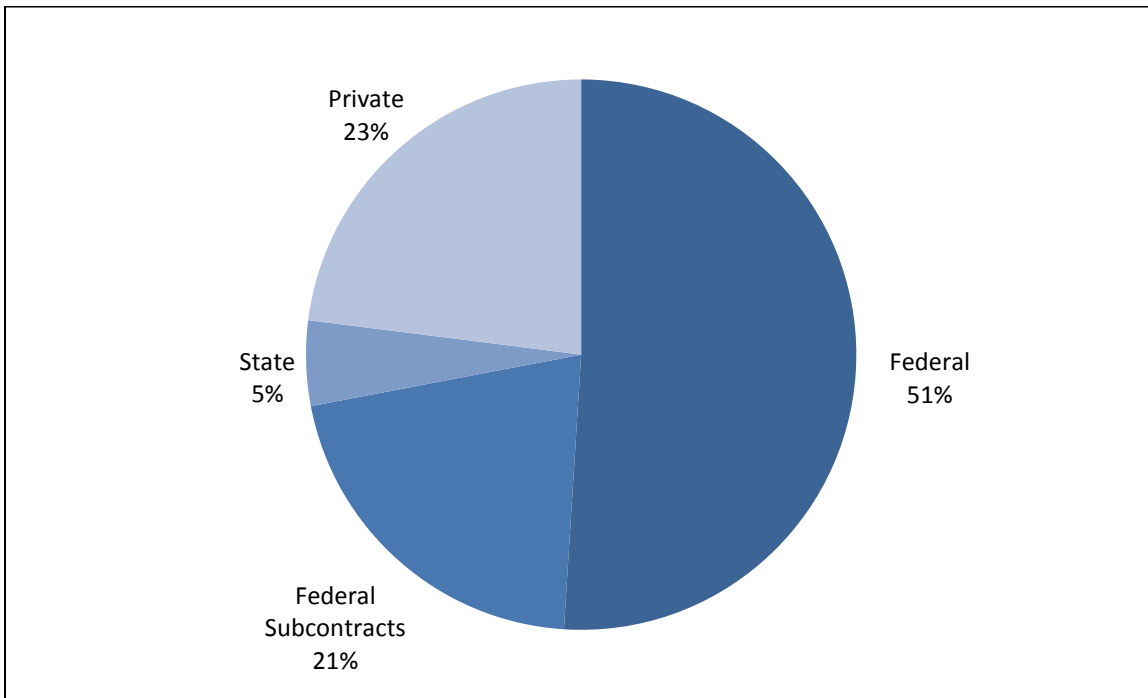
# External Research Funding

Grants/Contracts						
Year	Federal	Federal Subcontract	State	Private	Total	%Federal
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	72%



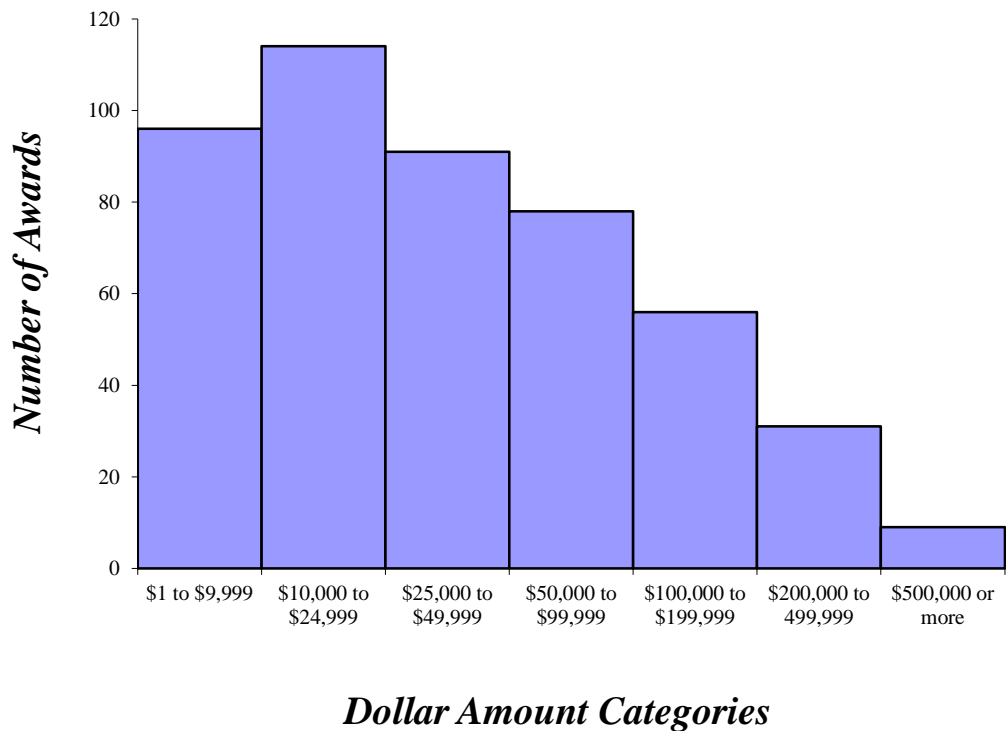
# External Funds by Source—2012

Source	Amount	% of Total
Federal	\$18,110,757	51%
Federal Subcontracts	\$7,282,203	21%
State	\$1,523,034	5%
Private	\$8,379,690	23%
<i>Total Funding</i>	\$35,295,684	100%

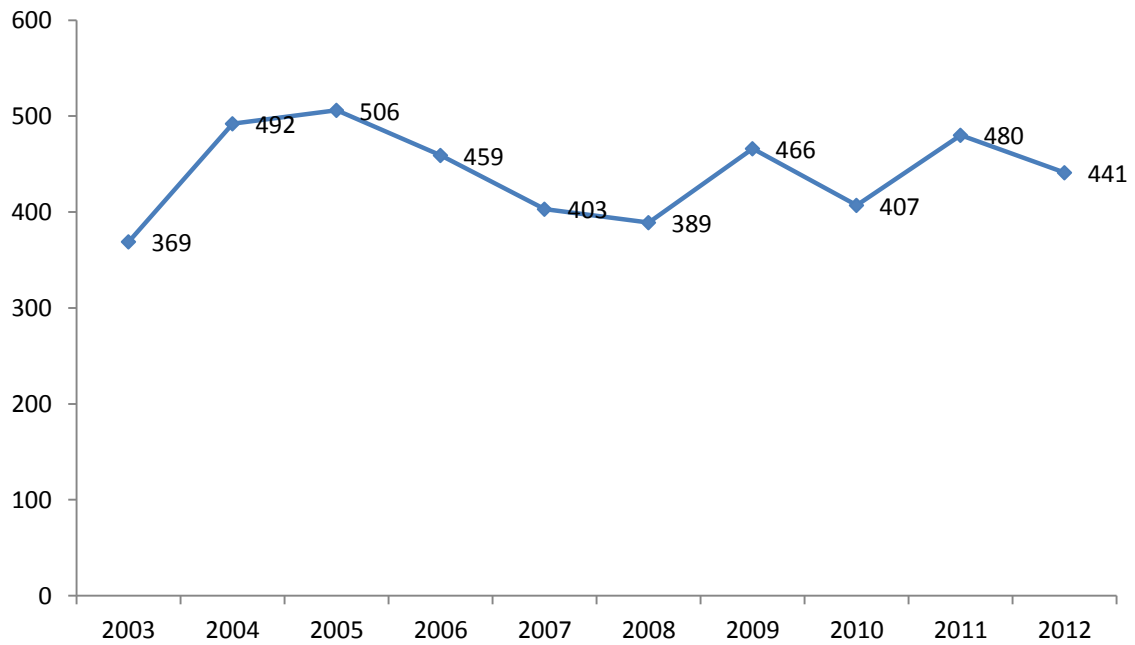


# Grant/Contract Awards by Amount—2012

Dollar Amount Categories	# of Awards	% of Total Awards by #	\$ Awards	% of Total Awards by \$ Amount
\$1 to \$9,999	96	20%	\$497,692	1%
\$10,000 to \$24,999	114	24%	\$1,791,324	5%
\$25,000 to \$49,999	91	19%	\$3,127,332	9%
\$50,000 to \$99,999	78	16%	\$5,466,596	16%
\$100,000 to \$199,999	56	12%	\$7,516,213	21%
\$200,000 to \$499,999	31	7%	\$9,731,277	28%
more than \$500,000	9	2%	\$7,165,250	20%
<b>Totals</b>	<b>475</b>	<b>100%</b>	<b>\$35,295,684</b>	<b>100%</b>



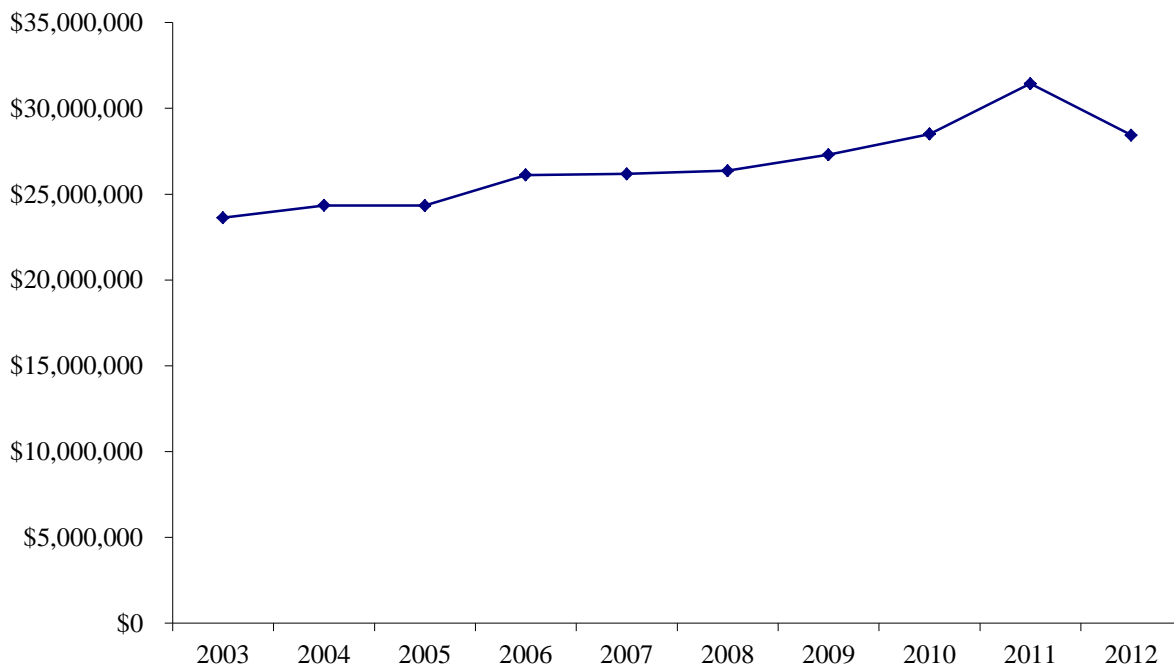
# Proposals Submitted





# Total Expenditures (Grants and Contracts)

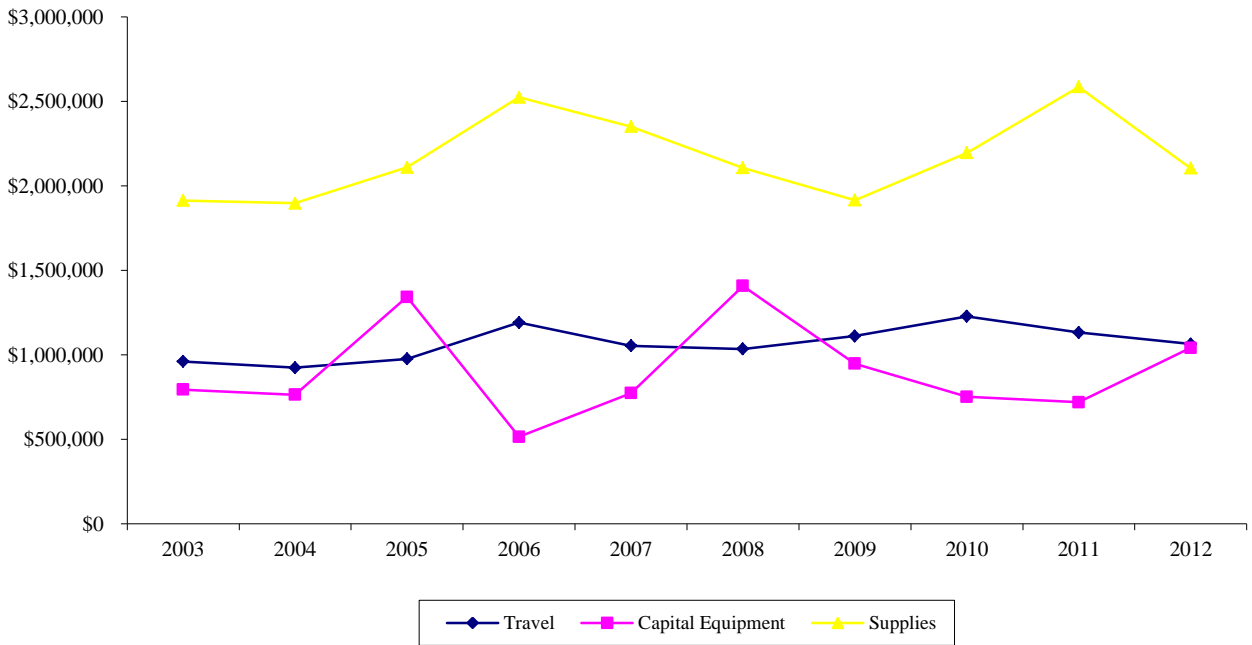
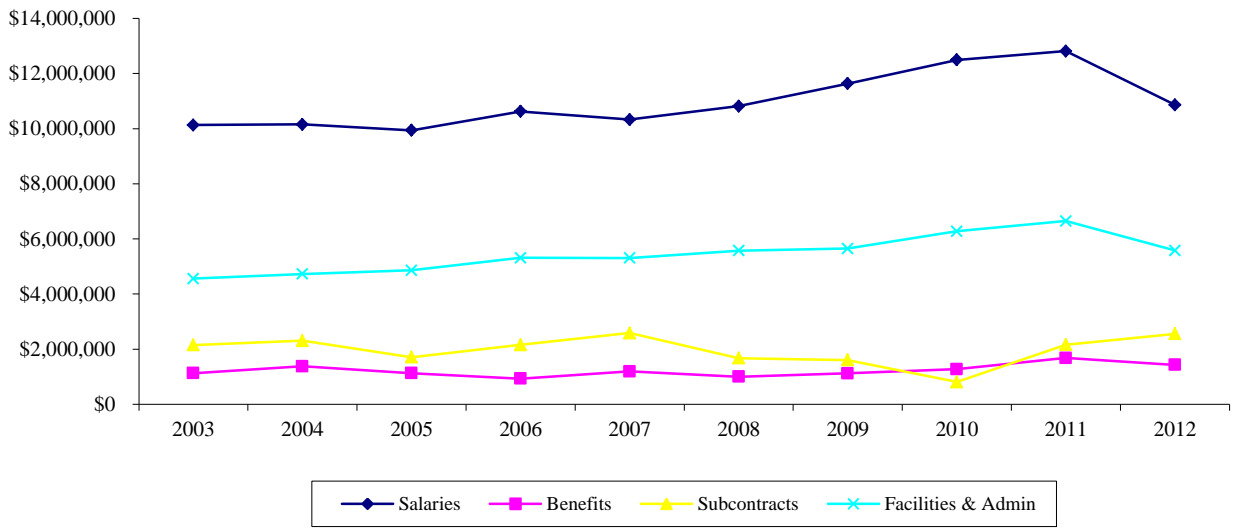
Year	Total Expenditures
2003	\$23,623,643
2004	\$24,339,292
2005	\$24,334,391
2006	\$26,117,033
2007	\$26,178,686
2008	\$26,364,124
2009	\$27,299,213
2010	\$28,503,008
2011	\$31,443,918
2012	\$28,438,600



# 2012 Research Contract/Grant Expenditures by Category

<i>Personnel Costs</i>	<i>Amount</i>
<i>Salaries &amp; Wages</i>	
Administrative Salaries	799,068
Faculty Salaries	203,908
Faculty Sal-Visit-Health Ben	825,371
Faculty—Spring/Summer	2,265,034
Part-time Faculty Salaries	250,669
Other Wages	495,887
Staff Salaries	262,989
Student Contracts	2,983,796
Student Wages	2,778,862
<b>Total Salaries &amp; Wages</b>	<b>\$10,865,583</b>
Fringe Benefits	\$1,429,459
<b>Total Personnel Costs</b>	<b>\$12,295,042</b>
<i>Other</i>	
Access Equipment	5,771
Advertising	7,153
Capital Equipment	1,041,969
Conference & Symposium Costs	437,243
Computer Serv-Campus-Contract	515
Consultants	404,010
Contract Services	702,715
Employee Development/Training	35,101
Equipment Repair & Maintenance	36,537
Exempt Account	-
Facilities Repair & Maintenance	51,545
Facilities & Administration	5,579,668
Hosting, Food, Entertainment	17,530
Non-Capital Equipment	74,414
Participant Stipends	34,464
Postage & Mailing	11,844
Printing & Copying	35,295
Purchase Discounts Earned	(91)
Rental Expense	124,508
Research Fellowships	8,781
Research Publications Costs	27,644
Software Acquisitions/Support	28,030
Student Aid	1,717,900
Subcontracts	2,556,393
Supplies	2,105,126
Telecommunications	29,123
Travel	1,064,525
Uniforms/Costumes/Laundry	4,522
Utilities	1,325
<b>Total Other Expenditures</b>	<b>\$16,143,558</b>
<b>Total Research Expenditures</b>	<b>\$28,438,600</b>

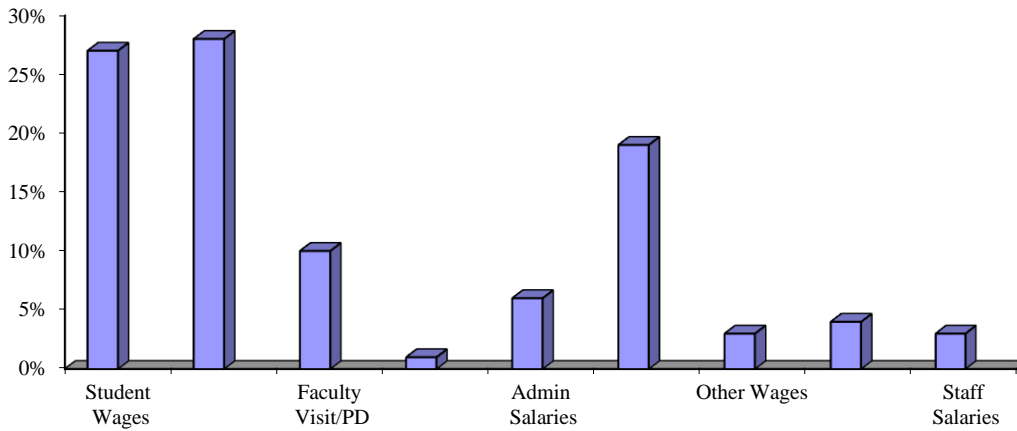
# Research Dollars Expended (Grants and Contracts Only)



# Salary and Wage Expenditures (Grants and Contracts Only)

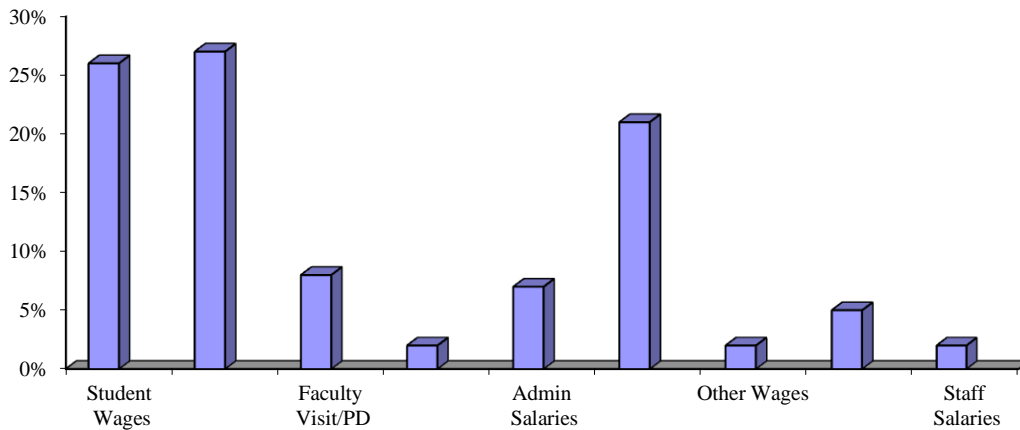
2011

Total: \$12,815,225



2012

Total: \$10,865,583

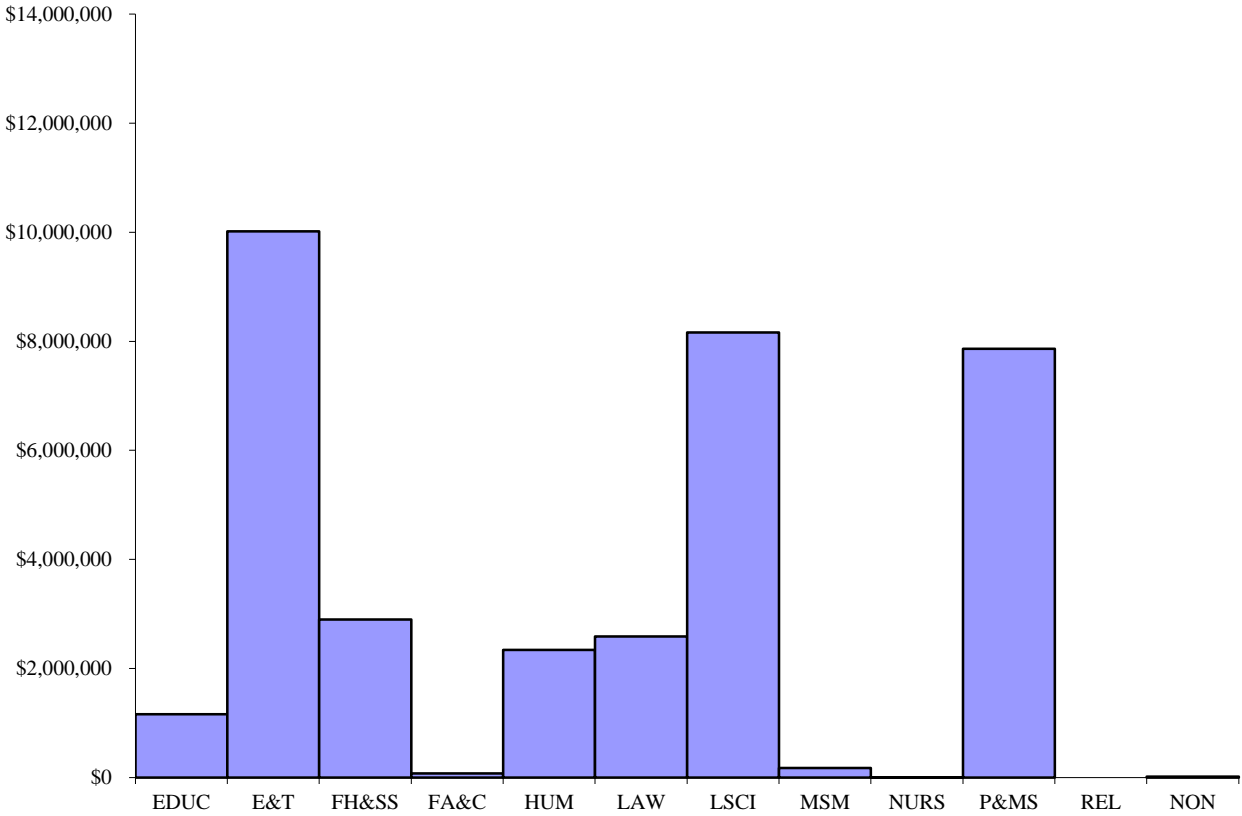




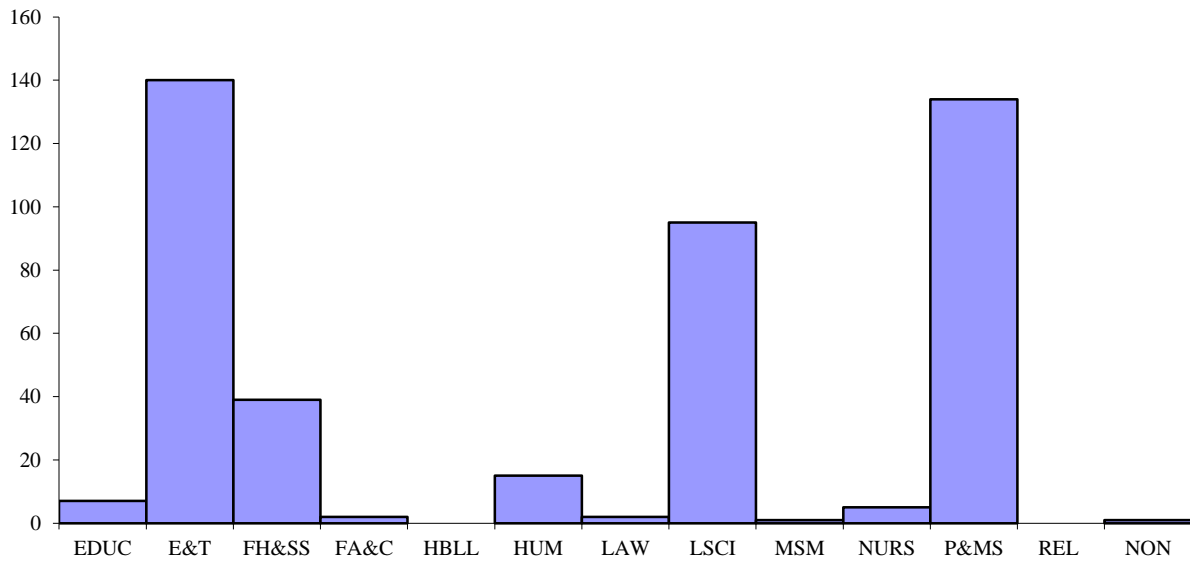
# Information by College or School

# Award Amount Totals 2012

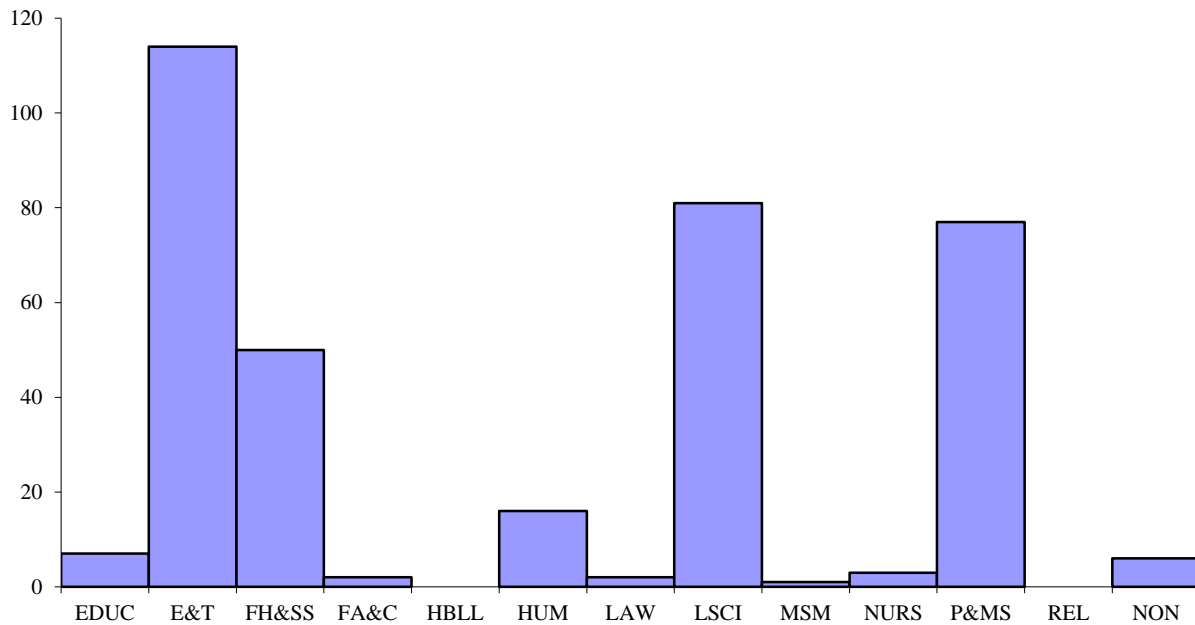
<i>College or School</i>	<i>Total</i>
Education	\$1,162,929
Engineering & Technology	\$10,015,653
Family, Home & Social Sciences	\$2,895,236
Fine Arts & Communications	\$72,500
Law	\$2,588,209
Humanities	\$2,342,198
Life Sciences	\$8,163,617
Marriot School of Management	\$175,321
Nursing	\$1,200
Physical & Mathematical Sciences	\$7,863,160
Religious Education	\$0
Harold B. Lee Library	\$0
Non-College Units (with HBLI on Graph)	\$14,281
<b><i>University Total</i></b>	<b>\$35,295,684</b>



# Number of Proposals 2012



# Number of Awards 2012



# Research Contract/Grant Awards by College and Department 2012

<i>College and Department</i>	<i>Amount</i>
<b><u>Campus Life</u></b>	0
<b><u>Education</u></b>	
CITES	267,499
Communication Disorders	0
Counseling and Special Educ	98,999
Education Leadership & Foundations	0
Instructional Psychology	397,686
Teacher Education	398,745
<b>TOTAL</b>	<b>\$1,162,929</b>
<b><u>Engineering &amp; Technology</u></b>	
Chemical Engineering	627,987
Civil and Environmental Eng	1,354,911
Electrical and Computer Eng	2,613,687
Mechanical Engineering	4,989,069
School of Technology	430,000
<b>TOTAL</b>	<b>\$10,015,653</b>



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**Fine Art and Communications**

Music	72,500
<b>TOTAL</b>	<b>\$72,500</b>

**Family Home & Social Sciences**

Anthropology	0
Economics	76,874
Geography	78,177
History	0
Kennedy Center	208,950
Office of Public Archeology OPA	874,323
Political Science	786,562
Psychology	486,466
School of Family Life	57,259
Sociology	326,625
Social Work	0
<b>TOTAL</b>	<b>2,895,236</b>

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

Asian & Near East Languages	2,252,686
Center for Language Studies	46,012
English	38,00
French & Italian	5,500
<b>TOTAL</b>	<b>\$2,342,198</b>

**J. Reuben Clark Law School**

\$2,588,209

**Library**

\$ 0

**Life Sciences**

Bean Museum	0
Biology	2,401,728
Exercise Science	7,000
Health Science	70,516
Microbiology & Molecular Biology	1,059,452
Nutrition, Dietetic, & Food Science	339,930
Physiology & Developmental Biology	896,178
Plant & Wildlife Sciences	3,388,813
<b>TOTAL</b>	<b>\$8,163,617</b>

**Marriott School of Management**

School of Accountancy	175,321
<b>TOTAL</b>	<b>\$175,321</b>

**Nursing**

\$ 1,200

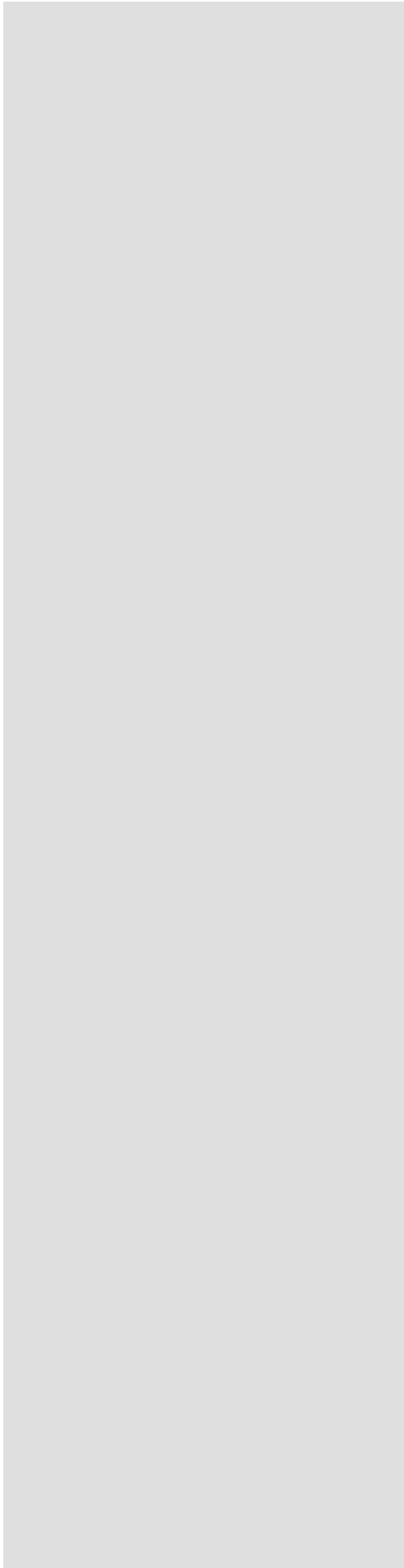
**Office of Research & Creative Activities**

\$ 15,661

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**Physical & Math Sciences**

Chemistry and Biochemistry	2,281,534
Computer Science	426,318
Earth Science Museum	0
Geology	430,880
Mathematics	1,923,628
Physics & Astronomy	1,817,820
Statistics	435,796
<b>TOTAL</b>	<hr/> \$7,863,160
 <b>Grand Total</b>	 <hr/> <b>\$ 35,295,684</b>

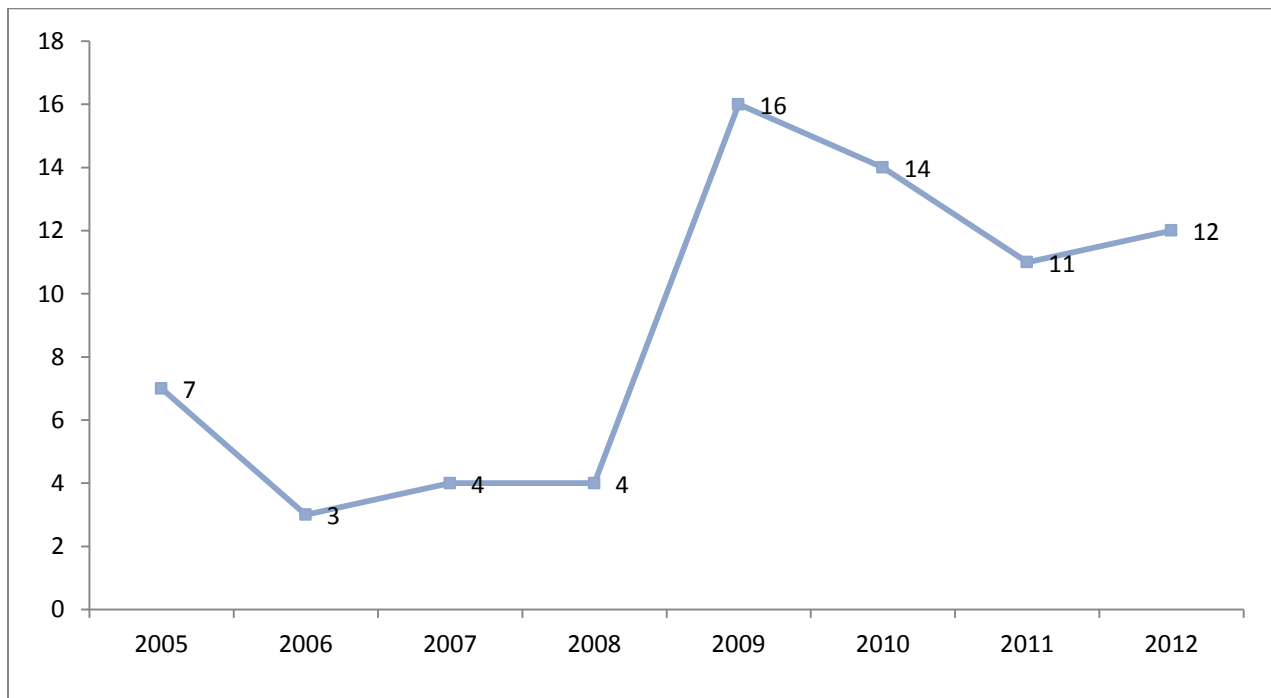


David O.  
McKay  
School  
of Education

# Summary of Sponsored Research (Grants & Contracts)

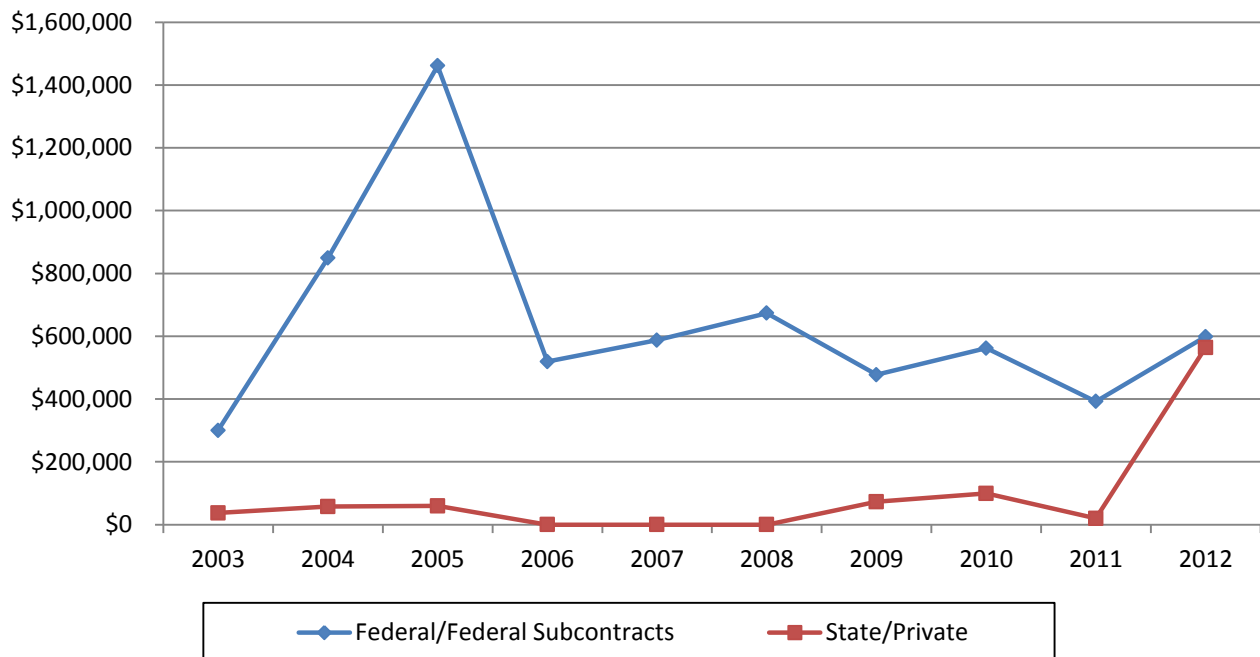
Department	# of Faculty Submitting	# of Proposals Submitted	# of Awards	Dollars Awarded
CITES	1	1	3	\$267,499
Communication Disorders	1	0	0	\$0
Counseling Psych & Special Ed.	1	1	1	\$98,999
Ed. Leadership & Foundations	0	0	0	\$0
Instructional Psych. & Tech.	5	3	2	\$397,686
Teacher Education	3	2	1	\$398,745
<b>TOTALS</b>	<b>11</b>	<b>7</b>	<b>7</b>	<b>\$1,162,929</b>

## Proposal Submission Activity



# External Research Funding (All Sources)

Year	Grants/Contracts		Total
	Federal/Federal Subcontracts	State/Private	
2002	\$590,209	\$0	\$590,209
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	\$598,744	\$564,185	\$1,162,929



# David O. McKay School of Education 2012 Awards

<u>PI</u>	<u>Co-PI</u>	<u>Sponsor</u>	<u>Title</u>	<u>Start Date</u>	<u>End Date</u>	<u>Amount</u>	<u>Type</u>
<b><i>Center for Improvement of Teacher Education &amp; Schooling</i></b>							
Caldarella, Paul		U of Kansas (US DoED)	A Multi-Site Efficacy Trial of the Class-wide Function-related Intervention Teams "CE-FIT": A Research to Practice Agenda for Students with At Risk for EBD"	7/1/2012	6/30/2013	\$100,000	2
Flox, Cally	w/Stephen Jones	Art Works for Kids	BTS Arts Learning Program 2012-2013	7/1/2013	6/30/2013	\$47,500	4
Flox, Cally		Art Works for Kids	Professional Development Workshops	7/1/2011	6/1/2013	\$20,000	4
<b><i>Counseling, Psych &amp; Special Education</i></b>							
Marchant, Michelle		Utah Office of Ed	Summer Mentor Teachers	7/1/2012	9/30/2013	\$98,999	3
<b><i>Instructional Psychology &amp; Technology</i></b>							
Wiley, David		Gates Foundation	Impact OER	9/27/2012	8/31/2014	\$272,686	4
Wiley, David		Hewlett Foundation	Utah Open Textbooks	3/19/2012	9/19/2013	\$125,000	4
<b><i>Teacher Education</i></b>							
Pinnegar, Stefinee		US Dept of Education	Simultaneous RENEWAL for the Education of English Learners through Professional Development for University Faculty and Public School Teachers	5/1/2012	4/30/2013	\$398,745	1

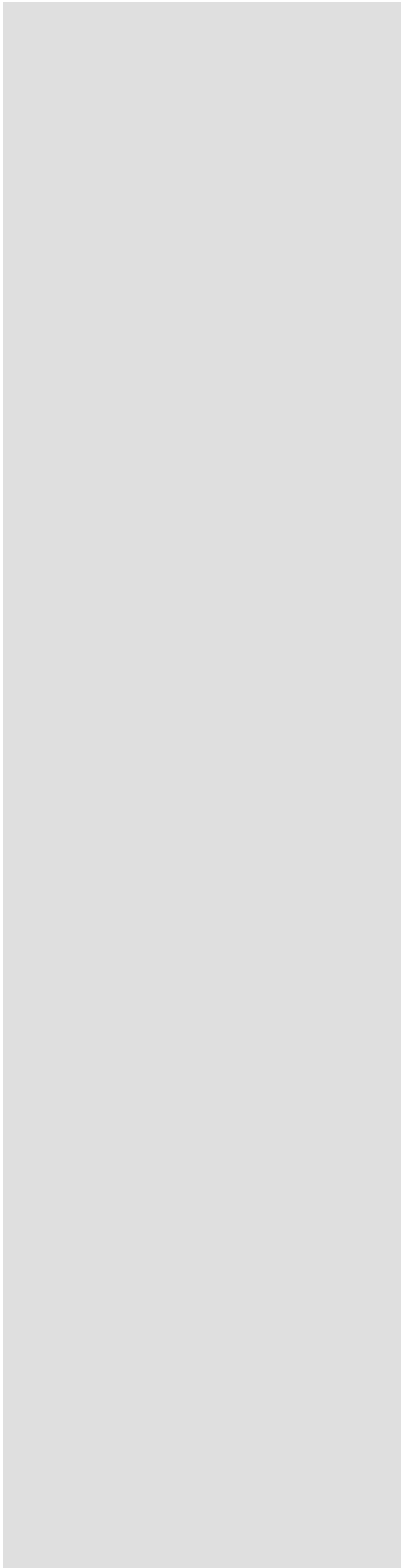
Type: 1=Federal; 2=Federal Subcontract; 3=State; 4=Private

Department Totals	
Communication Disorders	\$0
Center for Improvement of Teacher Education and Schooling (CITIES)	\$267,499
Continuing Education	\$0
Counseling Psychology & Special Education	\$98,999
Educational Leadership & Foundations	\$0
Instructional Psychology & Technology	\$397,676
Teacher Education	\$398,745
<b><i>College Total:</i></b>	<b>\$1,162,929</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>		
U of Kansas (DoED)	2	\$199,999
<i>Total</i>	2	\$199,999
<b>State</b>		
Utah Office of Ed	1	\$98,999
<i>Total</i>	1	\$98,999
<b>Private</b>		
Gates Foundation	1	\$272,686
Hewlett Foundation	1	\$125,000
Art Works for Kids	2	\$67,500
<i>Total</i>	4	\$465,186
<b>Grand Total</b>	5	\$1,162,929



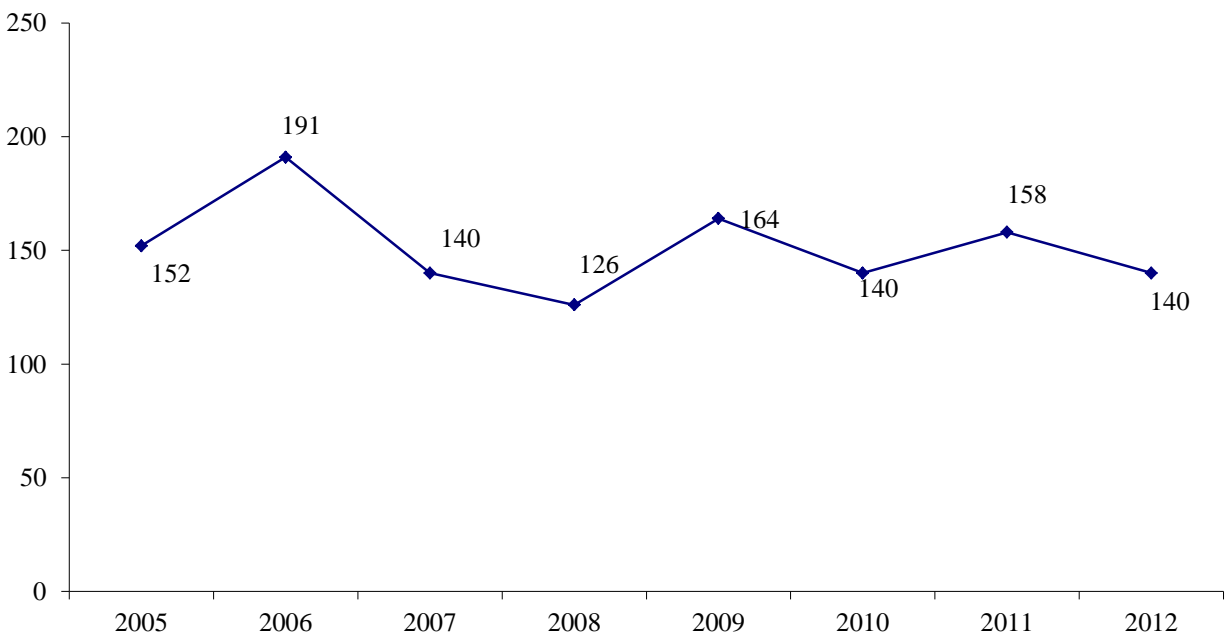
# Fulton College of Engineering & Technology



# Summary of Sponsored Research (Grants & Contracts)

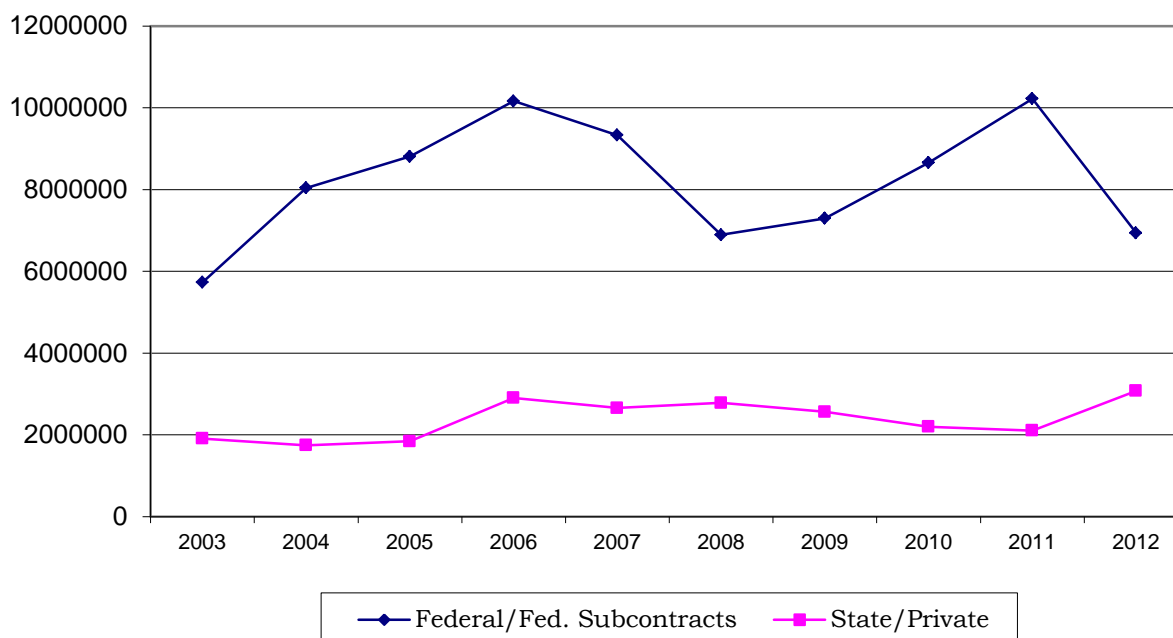
Department	# of Faculty Submitting	# of Proposals Submitted	# of Awards	Dollars Awarded
Chemical Engineering	13	15	11	\$627,987
Civil & Environmental Engineering	14	36	13	\$1,354,911
Electrical & Computer Engineering	15	37	33	\$2,613,687
Mechanical Engineering	25	48	55	\$4,989,069
School of Technology	4	4	2	\$430,000
<b>TOTALS</b>	71	140	114	\$10,015,653

## Proposal Submission Activity



# External Research Funding (All Sources)

Year	Grants/Contracts		Total
	Federal/Federal Subcontracts	State/Private	
2003	\$5,731,605	\$1,909,861	\$7,641,466
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



# College of Engineering & Technology 2012 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 &amp; Environmental Engineering</b>								
Borup, Brett	w/Gus Williams	BOR	Sediment Delta and Water Quality Interactions	8/27/2009	9/30/2014	R0202282	\$9,000	1
Franko, Kevin	w/Rollins, Kyle	NSF	Development and validation of performance based design procedures for kinematic loading of pile foundations during lateral spreading	8/1/2012	7/31/2014	R0112214	\$110,246	1
Hotchkiss, Rollin	w/Gus Williams	BOR	Sediment Delta and Water Quality Interactions	8/27/2009	9/30/2014	R0202282	\$9,000	1
Knotts, Thomas		NSF	Modeling and Prediction of Protein and Protein/Ligand Behavior on Surfaces	3/1/2011	2/29/2016	R0112182	\$83,414	1
Miller, Wood	w/Gus Williams	BOR	Sediment Delta and Water Quality Interactions	8/27/2009	9/30/2014	R0202282	\$9,000	1
Nelson, Jim	w/Gus Williams	BOR	Sediment Delta and Water Quality Interactions	8/27/2009	9/30/2014	R0202282	\$9,000	1
Rollins, Kyle		NSF	Development and validation of performance based design procedures for kinematic loading of pile foundations during lateral spreading	8/1/2012	7/31/2014	R0112214	\$110,247	1
Williams, Gus		BOR	Sediment Delta and Water Quality Interactions	8/27/2009	9/30/2014	R0202282	\$9,000	1
Ames, Daniel		USU (NSF)	HydroShare: An Interactive Software Infrastructure for Sustaining Collaborative Community Innovation in the Hydrologic Sciences	7/1/2012	6/30/2013	R0302479	\$89,670	2
Ames, Daniel		UC Berkeley (NSF)	The Method of Anchored Distributions (MAD): Principles and Implementation as a Community Service	9/12/2012	11/20/2013	R0302481	\$86,859	2
Ames, Daniel		Boise State (DOE)	SunShot: Development of the PVMapper GIS-Based Solar Siting Software Tool	8/18/2012	8/31/2014	R0302485	\$431,465	2
Hotchkiss, Rollin		Western Maryland Resource Conservation & Development Council	Bedload Sediment Transport Comparison Study	9/10/2010	12/31/2012	R0302354	\$40,000	2
Williams, Gus		Hampton U (DOE)	Global atmospheric profiling techniques for the improvement and increased utility of Atmospheric	7/1/2010	5/31/2013	R030255	\$50,250	2

Guthrie, Spencer	UDOT	Compensation methods Evaluation of Internal Curing of Concrete Bridge Decks	3/1/2012	12/31/2014	R0402204	\$25,000	3
Hotchkiss, Rollin	CUWCD	Monitoring Restoration of a Changing Hobble Creek	3/23/2012	6/10/2011	R0402202	\$20,352	3
Rollins, Kyle	UDOT	Passive Force-Displacement Relationships for Skewed Abutments	8/13/2012	9/30/2014	R0402213	\$150,000	3
Schultz, Grant	UDOT	Traffic & Safety Modeling 2012	8/21/2012	8/29/2014	R0402215	\$100,008	3
Fonseca, Fernando	NCMA	In Plane Shear Capacity of Partially Grouted Masonry Walls	3/22/2012	8/31/2014	R0502155	\$12,400	4

### **Chemical Engineering**

Fletcher, Tom	NSF	Collaborative Research: A Fundamental Investigation of Fire Initiation and Fire Behavior in Sparse Vegetation	10/1/2009	9/30/2012	R0112147	\$2,000	1	
Harb, John	w/Davis, Robert	NSF	Carbon Nanotube Templated Battery Electrodes	6/15/2012	5/31/2015	R0112211	\$116,667	1
Knotts, Tommy	NSF	Modeling and Prediction of Protein and Protein/Ligand Behavior on Surfaces	3/1/2011	2/29/2016	R0112182	\$81,380	1	
Bundy, Bradley	NASA(EPSCoR)	Engineering Controlled Covalent Protein Immobilization for Planetary Exploration	7/6/2010	7/5/2012	R0302454	\$25,000	2	
Fletcher, Tom	General Electric	Deposition of Ash from Heavy Fuel Oil in a Laboratory Gas Turbine	9/15/2010	12/31/2012	R0602357	\$50,000	2	
Lignell, David	Sandia National Labs	Environment Statistics of Particle Time Histories in Turbulent Reacting Flows	4/21/2011	4/31/2013	R0302387	\$72,000	2	
Baxter, Larry	Sustainable Energy Solutions, LLC	Cryogenic CO2 Capture Research	4/5/2009	12/31/2012	R0602280	\$50,000	4	
Baxter, Larry	Sustainable Energy Solutions, LLC	Cryogenic CO2 Capture Research	4/5/2009	12/31/2012	R0602280	\$100,000	4	
Fletcher, Tom	GE Global Research	Deposition of Ash from Heavy Fuel Oil in a Laboratory Gas Turbine	2/20/2011	12/31/2012	R0602357	\$14,000	4	
Hecker, William	Ceramatec	Environment Fischer Tropsch Consortium Membership fee			R0602216	\$45,000	4	
Pitt, William	CIBA Vision Corp	Solubility of Comfort Agents in Contact Lens Formulations	1/12/2012	1/12/2013	R0602376	\$46,940	4	
Pitt, William	Bausch & Lomb	Reducing Lipid Adsorption on Contact Lenses	8/1/2011	3/31/2013	R0602368	\$50,000	4	

Wheeler, Dean		Duracell (Procter&Gamble)	Fundamental Investigation of Composition Improvements for High-Power Alkaline Batteries	5/1/2012	6/30/2013	Ro602393	\$75,000	4
<b>Electrical &amp; Environmental Engineering</b>								
Beard, Randy	w/McLain, Tim	NSF	REV Supplement, I/UCRC Phase I: Center for Unmanned Aircraft Systems	8/10/2012	2/28/2017	Ro112200	\$6,000	1
Beard, Randy	w/ McLain, Tim	NSF	AFRL Munitions Directorate C-UAS Membership	9/1/2012	8/31/2013	Ro112221	\$9,958	1
Beard, Randy	w/ McLain, Tim	NSF	NASA Dryden C- UAS Membership	9/1/2012	8/31/2013	Ro112221	\$9,349	1
Hawkins, Aaron		NSF	Single particle separation for low copy number bioanalysis - REU Supplement	5/15/2011	4/30/2014	Ro112188	\$6,000	1
Hawkins, Aaron		NSF	Ultrasensitive Cancer Biomaker Detection on Biophotonic Chips	7/1/2012	6/30/2015	Ro112213	\$233,688	1
Hawkins, Aaron	w/Mazzeo, Brian	US Army - Dugway	Student Intern Support	9/26/2012	9/23/2013	Ro202375	\$10,000	1
Hutchings, Brad	w/ Nelson, Brent	NSF	Air Force Wright Laboratory CHREC I/UCRC Membership Fees Collaborative Research:	1/31/2009	1/31/2013	Ro112115	\$8,756	1
Jeffs, Brian		NSF	Development of a Millimeter-wave Phased Focal Plane Array	7/1/2012	6/30/2014	Ro112190	\$43,459	1
Jensen, Michael	w/Rice, Michael	U.S. Army	Multipath Modeling and Mitigation using Multiple Antennas Data-Dependent	4/15/2012	12/1/2012	Ro202268	\$60,726	1
Jensen, Michael		ARO	Fingerprints for Wireless Device Authentication	8/2/2012	8/2/2013	Ro202371	\$50,000	1
Long, David		NASA	Brightness Temperature Climate Records	7/22/2010	7/21/2014	Ro162010	\$90,000	1
Long, David		NASA	Winds, Backscatter, and Brightness Temperature Climate Records	7/22/2010	7/21/2014	Ro162010	\$154,271	1
Mazzeo, Brian		US Army - Dugway	Student Intern Support	9/26/2012	9/23/2013	Ro202375	\$10,000	1
Nelson, Brent		NSF	Air Force Wright Laboratory CHREC I/UCRC Membership Fees	1/31/2009	1/31/2013	Ro112115	\$8,756	1
Nelson, Brent		NSF	REU Supplement	3/17/2012	1/31/2013	Ro112101	\$8,000	1
Rice, Michael	w/ Nelson, Brent	NSF	Air Force Wright Laboratory CHREC I/UCRC Membership Fees	1/31/2009	1/31/2013	Ro112115	\$8,755	1
Rice, Michael		U.S. Army	Multipath Modeling and Mitigation using Multiple Antennas	4/15/2012	12/1/2012	Ro202268	\$60,725	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	\$43,458	1
Warnick, Karl	w/ McLain, Tim	NSF	AFRL Munitions Directorate C-UAS Membership	9/1/2012	8/31/2013	RO112221	\$9,957	1
Warnick, Karl	w/ McLain, Tim	NSF	NASA Dryden C-UAS Membership	9/1/2012	8/31/2013	RO112221	\$9,349	1
Wirthlin, Michael	w/ Nelson, Brent	NSF	Air Force Wright Laboratory CHREC I/UCRC Membership Fees	1/31/2009	1/31/2013	RO112115	\$8,755	1
Wirthlin, Michael	w/Nelson, Brent	NSF	REU Supplement	3/17/2012	1/31/2013	RO112101	\$8,000	1
Bangerter, Neal		Stanford (NIH)	Rapid MRI for Evaluation of Osteoarthritis	6/1/2010	3/31/2013	RO302341	\$120,355	2
Beard, Randy	w/Warnick, Karl	ImSAR (Air Force)	Reconfigure RF Signature-Based GPS-Denied Navigation, Orientation Determination, and Mapping	2/22/2012	5/1/2014	RO302429	\$126,260	2
Beard, Randy	w/Warnick, Karl	ImSAR, LLC	Reconfigure RF Signature-Based GPS-Denied Navigation, Orientation Determination, and Mapping	2/22/2012	5/1/2014	RO302429	\$63,130	2
Hawkins, Aaron		LiquiLume Diagnostics	SBIR Phase I: Portable Amplification-free Virus Nucleic Acid Detector	1/1/2012	6/30/2012	RO302424	\$30,000	2
Hawkins, Aaron		UC Santa Cruz (NIH)	A Dual-Nanopore Instrument for Single DNA Measurements and Control	4/11/2012	1/31/2013	RO302462	\$51,750	2
Hawkins, Aaron		UC Santa Cruz (NIH)	Hybrid integrated molecular analysis (HIMAS) for point-of-care diagnostics	6/1/2012	5/31/2013	RO302466	\$50,500	2
Hawkins, Aaron		LiquiLume (NIH-SBIR)	Rapid, low cost mRNA analysis system for cancer companion diagnostics	9/1/2012	8/31/2013	RO302482	\$40,001	2
Hawkins, Aaron		US Army	Solid State Ion Detection (SSID) Technology	9/10/2012	9/9/2013	RO302486	\$83,329	2
Jensen, Michael		UC Davis ( Army)	ARSENAL: A cross layer Architecture for Secure resilieNt Tactical mobile ad hoc networks.	6/1/2007	5/31/2013	RO302227	\$60,000	2
Long, David		Space Dynamics Lab/USU	Synthetic Aperture Radar Reserch	9/1/2011	8/31/2012	RO302406	\$20,000	2
Long, David		JPL (NASA)	QuikSCAT Senior Review Activities	3/14/2012	3/13/2013	RO302452	\$269,595	2
Long, David		UofU (NASA)	BYU Rocky Mountain Space Grant Consortium Student Fellowships	5/6/2011	12/31/2012	RO302349	\$21,500	2

Long, David		UofU (NASA)	BYU Rocky Mountain Space Grant Consortium Student Fellowship	5/6/2011	5/13/2013	R0302349	\$87,900	2
Long, David		U of Colorado (NASA Dryden)	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	\$120,000	2
Nelson, Brent		Sandia National Lab	CHREC I/UCRC Membership fee			R0302219	\$20,000	2
Warnick, Karl		ImSAR (Air Force)	Reconfigure RF Signature-Based GPS-Denied Navigation, Orientation Determination, and Mapping	2/22/2012	5/1/2014	R0302429	\$126,260	2
Warnick, Karl		ImSAR, LLC	Reconfigure RF Signature-Based GPS-Denied Navigation, Orientation Determination, and Mapping	2/22/2012	5/1/2014	R0302429	\$63,130	2
Long, David		Space Dynamics Lab/USU	Synthetic Aperature Rada Research	8/31/2012	8/31/2012	R0302406	\$20,000	3
Beard, Randy	w/McLain, Tim	AAI-Textron	C-UAS Membership (NSF I/UCRC)	5/3/2012	5/4/2013	R0602390	\$10,000	4
Beard, Randy	w/McLain, Tim	Insitu, Inc.	C-UAS I/UCRC Membership	9/1/2012	8/31/2013	R0602390	\$10,000	4
Beard, Randy	w/McLain, Tim	L-3 Communications	C-UAS I/UCRC Membership	9/1/2012	8/31/2013	R0602390	\$10,000	4
Lee, DJ		Vision Air Research	Enhanced large mammal detection and real-time mapping through the use of FLIR and high definition camera and improved geo-mapping system	1/20/2012	6/30/2012	R0602382	\$32,015	4
Mazzeo, Brian		Raytheon	Characterizing Microwave Transmission Properties of Low-loss Materials at High Temperatures	12/6/2012	8/6/2014	R0602406	\$50,000	4
Nelson, Brent		Lockheed Martin SVIL	CHREC I/UCRC Membership fee			R0602299	\$20,000	4
Nelson, Brent		SEAKR Engineering, Inc.	CHREC I/UCRC Membership fee			R0602299	\$17,500	4
Nelson, Brent		XILINX Inc.	CHREC I/UCRC Membership fee			R0602299	\$17,500	4
Nelson, Brent		National Instruments	CHREC I/UCRC Membership fee			R0602299	\$17,500	4
Nelson, Brent		Lockheed Martin Space System Co.	CHREC I/UCRC Membership fee			R0602299	\$17,500	4
Warnick, Karl	w/McLain, Tim	Insitu, Inc.	C-UAS I/UCRC Membership	9/1/2012	8/31/2013	R0602390	\$10,000	4
Warnick, Karl	w/McLain, Tim	L-3 Communications	C-UAS I/UCRC Membership	9/1/2012	8/31/2013	R0602390	\$10,000	4
Warnick, Karl	w/Mazzeo, Brian	Raytheon	Characterizing Microwave Transmission	12/6/2012	8/6/2014	R0602406	\$50,000	4

Wirthlin, Mike	w/Nelson, Brent	Lockheed Martin SVIL	Properties of Low-loss Materials at High Temperatures CHREC I/UCRC Membership fee			R0602299	\$20,000	4
Wirthlin, Mike	w/Nelson, Brent	SEAKR Engineering, Inc.	CHREC I/UCRC Membership fee			R0602299	\$17,500	4
Wirthlin, Mike	w/Nelson, Brent	XILINX Inc.	CHREC I/UCRC Membership fee			R0602299	\$17,500	4
Wirthlin, Mike	w/Nelson, Brent	National Instruments	CHREC I/UCRC Membership fee			R0602299	\$17,500	4
Wirthlin, Mike	w/Nelson, Brent	Lockheed Martin Space System Co.	CHREC I/UCRC Membership fee			R0602299	\$17,500	4
Wirthlin, Mike	w/Nelson, Brent	Sandia National Lab	CHREC I/UCRC Membership fee			R0302219	\$20,000	4

**Mechanical Engineering**

Barrager, Lisa	w/Howell, Larry	NSF	EFRI-ODISSEI: Uniting Principles of Folding and Compliant Mechanisms to Create Engineering Systems with Unprecedented Performance I/UCRC Phase I: Center for Unmanned Aircraft Systems	8/1/2012	7/31/2016	R0112215	\$400,000	1
Beard, Randy	w/McLain, Tim	NSF	Piezoresistive Nanocomposites for Biosensing	3/1/2012	2/28/2017	R0112200	\$20,000	1
Bowden, Anton	w/Fullwood, David	NSF	REU Supplemental Support	9/1/2012	8/31/2015	R0112219	\$112,491	1
Bowden, Anton	w/Fullwood, David	NSF	REU Supplemental Support	9/1/2012	8/31/2015	R0112219	\$6,000	1
Colton, Mark	w/McLain, Tim	NSF	I/UCRC Phase I: Center for Unmanned Aircraft Systems	3/1/2012	2/28/2017	R0112200	\$20,000	1
Colton, Mark	w/Thomson, Scott	AFOSR	Experimental and Computational Analysis of Intermittent Flapping Flight	7/1/2010	6/30/2013	R0202308	\$34,969	1
Colton, Mark	w/McLain, Tim	NSF	REV Supplement, I/UCRC Phase I: Center for Unmanned Aircraft Systems	8/10/2012	2/28/2017	R0112200	\$6,000	1
Fullwood, David		NSF	REU Supplement, GOALI: Defect Detection Microscopy	8/15/2009	7/31/2012	R0112144	\$6,000	1
Fullwood, David		NSF	Piezoresistive Nanocomposites for Biosensing	9/1/2012	8/31/2015	R0112219	\$112,492	1
Fullwood, David		NSF	REU Supplemental Support	9/1/2012	8/31/2015	R0112219	\$6,000	1
Goodrich, Michael	w/McLain, Tim	NSF	I/UCRC Phase I: Center for Unmanned Aircraft Systems	3/1/2012	2/28/2017	R0112200	\$20,000	1
Gorrell, Steve		SEDC/PKE (Air Force)	Benchmark for CREATE-AV Airframe/Propulsion Integration Product	3/9/2012	3/9/2013	R0202357	\$100,000	1
Greg Jensen		NSF	I/UCRC BYU v-Cax Research Site	2/15/2012	1/31/2016	R0112181	\$54,999	1



Howell, Larry		NSF	EFRI-ODISSEI: Uniting Principles of Folding and Compliant Mechanisms to Create Engineering Systems with Unprecedented Performance	8/1/2012	7/31/2016	RO112215	\$400,000	1
Jensen, Greg		NSF	I/UCRC BYU v-Cax Research Site, Center for e-Design	2/15/2011	1/31/2017	RO112181	\$50,000	1
Jensen, Greg		NSF	I/UCRC BYU v-Cax Research Site, Center for e-Design, REU Supplement	2/15/2011	1/31/2017	RO112181	\$8,000	1
Magleby, Spencer	w/Howell, Larry	NSF	EFRI-ODISSEI: Uniting Principles of Folding and Compliant Mechanisms to Create Engineering Systems with Unprecedented Performance	8/1/2012	7/31/2016	RO112215	\$400,000	1
Mattson, Chris	w/Thomson, Scott	AFOSR	Experimental and Computational Analysis of Intermittent Flapping Flight	7/1/2010	6/30/2013	RO202308	\$34,969	1
Mattson, Chris		AFOSR	University Engineering Design Challenge	9/29/2011	9/29/2013	RO202353	\$10,000	1
Maynes, Dan		NSF	Turbulent Flow Drag Reduction Using Surface Exhibiting Superhydrophobicity and Riblets - REU Supplement	6/1/2011	5/31/2014	RO112189	\$2,000	1
Maynes, Dan		NSF	Convective Thermal Transport at Superhydrophobic Surfaces	9/1/2012	8/31/2015	RO112216	\$162,412	1
McLain, Tim		NSF	I/UCRC Phase I: Center for Unmanned Aircraft Systems	3/1/2012	2/28/2017	RO112200	\$20,000	1
McLain, Tim	w/Mattson, Chris	AFOSR	University Engineering Design Challenge	9/29/2011	9/29/2013	RO202353	\$10,000	1
McLain, Tim		NSF	I/UCRC Phase I: Center for Unmanned Aircraft Systems, REV	3/1/2012	2/28/2017	RO112200	\$2,667	1
McLain, Tim		NSF	REV Supplement, I/UCRC Phase I: Center for Unmanned Aircraft Systems	8/10/2012	2/28/2017	RO112200	\$6,000	1
McLain, Tim		NSF	AFRL Munitions Directorate C-UAS Membership	9/1/2012	8/31/2013	RO112221	\$9,958	1
McLain, Tim		NSF	NASA Dryden C-UAS Membership	9/1/2012	8/31/2013	RO112221	\$9,349	1
Red, Ed	w/Greg Jensen	NSF	I/UCRC BYU v-Cax Research Site, Center for e-Design, REU Supplement	2/15/2011	1/31/2017	RO112181	\$8,000	1
Thomson, Scott		AFOSR	Experimental and Computational Analysis of Intermittent	7/1/2010	6/30/2013	RO202308	\$34,969	1

Flapping Flight

Thomson, Scott		NIH	Influence of subglottic anatomy on voice production	7/1/2009	6/30/2013	RO102031	\$333,551	1
Truscott, Tadd		ONR	Peer-instructive instrument development for SeaPerch: undergraduates teaching K-12 through hands-on experience	1/1/2012	1/1/2014	RO202361	\$91,295	1
Vanderhoff, Julie	w/Dan Maynes	NSF	Turbulent Flow Drag Reduction Using Surface Exhibiting Superhydrophobicity and Riblets - REU Supplement	6/1/2011	5/31/2014	RO112189	\$2,000	1
Vanderhoff, Julie	w/Maynes, Dan	NSF	Convective Thermal Transport at Superhydrophobic Surfaces	9/1/2012	8/31/2015	RO112216	\$162,411	1
Webb, Brent	w/Dan Maynes	NSF	Turbulent Flow Drag Reduction Using Surface Exhibiting Superhydrophobicity and Riblets - REU Supplement	6/1/2011	5/31/2014	RO112189	\$2,000	1
Beard, Randy		UtopiaCompression (AF)	Enhancing Cooperative Control with Hierarchical Intelligence and Learning	5/5/2012	2/28/2013	RO302460	\$22,500	2
Blotter, Jon	w/Gee, Kent	Blue Ridge Research & Consulting (NASA)	Energy-Based Acoustic Measurement System for Rocket Noise	6/30/2011	5/31/2013	RO302399	\$16,667	2
Gorrell, Steve		Intelligent Light (AFRL)	Extract Plug-In Scalable Overarching Data Environment	5/21/2012	1/30/2013	RO302463	\$25,000	2
Jensen, Greg		Howmet Corp.	Improved Aerospace Casting Process Through Process Modeling	7/6/2011	8/30/2013	RO302416	\$31,757	2
Maynes, Daniel		Concepts NREC (NASA STTR Phase II)	Enhancements Extremely High Suction Performance Inducers for Space Propulsion	9/7/2011	7/13/2013	RO302407	\$91,333	2
Seppi, Kevin	w/Beard, Randy	UtopiaCompression (AF)	Enhancing Cooperative Control with Hierarchical Intelligence and Learning	5/5/2012	2/28/2013	RO302460	\$22,500	2
Thomson, Scott		McGill University (NIH)	Refinement and validation of the multi-component synthetic model of the larynx	9/19/2008	8/31/2013	RO302278	\$66,260	2
Charles, Steven		University of Utah	Towards Smarter and More Effective Upper Limb Orthoses	7/1/2012	6/30/2012	RO802031	\$6,985	3
Anton, Bowden		Clarke Capitol Partners	Compliant Ceramic Stents	4/1/2012	7/31/2013	RO602387	\$18,750	4
Beard, Randy	w/McLain, Tim	Utopia Compression	C-UAS I/UCRC Membership	5/8/2012	5/8/2014	RO602394	\$10,000	4

Blotter, Jonathan	w/Sommerfeldt, Scott	Caterpillar	Improved Acoustical Measurement Techniques	3/1/2011	12/31/2012	R0602358	\$26,154	4
Bowden, Anton		XO Athletics	Compliant Athletic Padding	4/1/2012	12/1/2012	R0602386	\$15,000	4
Colton, Mark	w/McLain, Tim	AAI-Textron	C-UAS Membership (NSF I/UCRC)	5/3/2012	5/4/2013	R0602390	\$10,000	4
Colton, Mark	w/McLain, Tim	Utopia Compression	C-UAS I/UCRC Membership	5/8/2012	5/8/2014	R0602394	\$10,000	4
Fullwood, David	w/Greg Jensen	Pratt & Whitney	Task 48: Composite Parametrics and Optimization	1/18/2012	12/31/2012	R0602379	\$50,000	4
Goodrich, Michael	w/McLain, Tim	Utopia Compression	C-UAS I/UCRC Membership	5/8/2012	5/8/2014	R0602394	\$10,000	4
Jensen, Brian	w/Bowden, Anton	Clarke Capitol Partners	Compliant Ceramic Stents	4/1/2012	7/31/2013	R0602387	\$18,750	4
Jensen, Greg		Pratt & Whitney	Advanced NX Collaboration Tools	4/1/2012	12/31/2012	R0602378	\$30,000	4
Jensen, Greg		Pratt & Whitney	Task 48: Composite Parametrics and Optimization	1/18/2012	12/31/2012	R0602379	\$50,000	4
Jensen, Greg		Siemens Corp	CAX Membership (I/UCRC)	1/31/2012	1/31/2014	R0602332	\$30,000	4
Jensen, Greg		Boeing	Collaborative Multi-User Cad Case Study	9/20/2011	9/22/2012	R0602364	\$42,330	4
Jensen, Greg		Boeing	Center for e-Design I/UCRC Membership fee			R0602349	\$30,000	4
Jensen, Greg		Spirit Aerosystems	Center for e-Design I/UCRC Membership fee			R0602349	\$30,000	4
Jensen, Greg		PCC Airfoils LLC	Center for e-Design I/UCRC Membership fee			R0602349	\$22,500	4
Jensen, Greg		Belcan Engineering Group	Center for e-Design I/UCRC Membership fee			R0602349	\$30,000	4
Jensen, Greg		CD-adapco	Center for e-Design I/UCRC Membership fee			R0602349	\$7,500	4
Jensen, Greg		Boeing	Collaboration Senior Design Project: Continuation	9/30/2011	4/26/2013	R0602365	\$32,385	4
Jensen, Greg		Boeing	Collaboration Senior Design Project; Continuation	9/20/2011	4/26/2013	R0602365	\$35,000	4
Jensen, Greg		Boeing	PAD for Simultaneous Multi-user CAD-CAM	10/17/2012	10/31/2013	R0602404	\$520,000	4
Jensen, Greg		Pratt & Whitney	Product Template Studio Applied to Parametric Compressor Blades	10/10/2012	12/31/2012	R0602405	\$10,000	4
Maynes, Dan		Union Pacific	Railroad Fuel Efficiency	5/20/2011	4/30/2013	R0602364	\$45,000	4
McLain, Tim		AAI-Textron	C-UAS Membership (NSF I/UCRC)	5/3/2012	5/4/2013	R0602390	\$10,000	4
McLain, Tim		Utopia Compression	C-UAS I/UCRC Membership	5/8/2012	5/8/2014	R0602394	\$10,000	4
McLain, Tim		Insitu, Inc.	C-UAS I/UCRC Membership	9/1/2012	8/31/2013	R0602390	\$10,000	4
McLain, Tim		L-3 Communications	C-UAS I/UCRC Membership	9/1/2012	8/31/2013	R0602390	\$10,000	4
Nelson, Tracy		Petrobras	Friction Stir Processing (I/UCRC)	4/25/2012	4/25/2017	R0602392	\$17,500	4

								Membership	
Nelson, Tracy		EPRI		Detailed Study of FSW Austenitic Materials for Repair in Nuclear Applications	7/20/2012	12/31/2013	R0602396	\$85,025	4
Nelson, Tracy		EPRI		A Fundamental Investigation of Weld Related Cracking in Dissimilar Metal Welds	7/20/2012	12/13/2013	R0602397	\$181,062	4
Nelson, Tracy		JFE Steel		Friction Stir Processing I/UCRC Membership fee			R0602342	\$16,875	4
Nelson, Tracy		SKB		Friction Stir Processing I/UCRC Membership fee			R0602189	\$17,500	4
Nelson, Tracy		Manufacturing Tech Inc.		Friction Stir Processing I/UCRC Membership fee			R0602312	\$18,000	4
Nelson, Tracy		Northrop Grumman Marine Systems		A Study of the Gap Width in Friction Stir Welds in Low Alloy Steel	2/1/2012	5/31/2012	R0602383	\$8,393	4
Red, Ed	w/Jensen, Greg	Boeing		Collaboration Senior Design Project: Continuation	9/30/2011	4/26/2013	R0602365	\$32,385	4
Red, Ed	w/Jensen, Greg	Boeing		Collaborative Senior Design Project; Continuation	9/20/2011	4/26/2013	R0602365	\$35,000	4
Sorensen, Carl	w/Nelson, Tracy	Petrobras		Friction Stir Processing (I/UCRC) Membership	4/25/2012	4/25/2017	R0602392	\$17,500	4
Sorensen, Carl	w/Nelson, Tracy	EPRI		Detailed Study of FSW Austenitic Materials for Repair in Nuclear Applications	7/20/2012	12/31/2013	R0602396	\$85,024	4
Sorensen, Carl	w/Nelson, Tracy	EPRI		A Fundamental Investigation of Weld Related Cracking in Dissimilar Metal Welds	7/20/2012	12/13/2013	R0602397	\$181,062	4
Sorenson, Carl	w/ Nelson, Tracy	Northrop Grumman Marine Systems		A Study of the Gap Width in Friction Stir Welds in Low Alloy Steel	2/1/2012	5/31/2012	R0602383	\$8,392	4
Sorenson, Carl	w/Nelson, Tracy	JFE Steel		Friction Stir Processing I/UCRC Membership fee			R0602342	\$16,875	4
Sorenson, Carl	w/Nelson, Tracy	SKB		Friction Stir Processing I/UCRC Membership fee			R0602189	\$17,500	4
Sorenson, Carl	w/Nelson, Tracy	Manufacturing Tech Inc.		Friction Stir Processing I/UCRC Membership fee			R0602312	\$18,000	4
Tree, Dale		General Electric		Deposition of Ash from Heavy Fuel Oil in a Laboratory Gas Turbine Environment	9/15/2010	12/31/2012	R0602333	\$76,598	4
Tree, Dale		Air Liquide		Flame Temperature, Nox, and Burnout Measurements of Biomass in Air and Oxygen Enriched Flame	5/1/2009	9/30/2013	R0602288	\$80,000	4

Tree, Dale		GE Global Research	Deposition of Ash from Heavy Fuel Oil in a Laboratory Gas Turbine Environment	9/15/2010	12/31/2012	R0602388	\$11,475	4
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**School of Technology**

Morgan, David	w/Howell, Larry	NSF	EFRI-ODISSEI: Uniting Principles of Folding and Compliant Mechanisms to Create Engineering Systems with Unprecedented Performance	8/1/2012	7/31/2016	R0112215	\$400,000	1
George, Andy		Hazard Protection Systems	Tank Pad Optimization for Fire Suppression	9/10/2012	9/9/2013	R0602403	\$30,000	4

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

Department Totals	
Chemical Engineering	\$627,987
Civil & Environmental Engineering	\$1,354,911
Electrical & Computer Engineering	\$2,613,687
Mechanical Engineering	\$4,989,069
School of Technology	\$430,000
<b>College Total:</b>	<b>\$10,015,653</b>

# Engineering & Technology Source Breakdown of Grants and Contracts

<u>Sponsor</u>	<u>No. Awarded</u>	<u>Amount</u>
<b>Federal Sponsors</b>		
AFOSR	5	\$124,907
ARO	1	\$50,000
BOR	5	\$45,000
NASA	2	\$244,271
NIH	1	\$333,551
NSF	48	\$3,334,973
ONR	1	\$91,295
SEDC/PKE (Air Force)	1	\$100,000
U.S. Army	4	\$141,540
<i>Total</i>	68	\$4,465,447

# Engineering & Technology

## Source Breakdown of Grants and Contracts

### Federal Subcontracts Sponsors

Blue Ridge Res & Consulting (NASA)	1	\$16,667
Boise State (DOE)	1	\$431,465
Concepts NREC (NASA STTR Phase II)	1	\$91,333
General Electric	1	\$50,000
Hampton U (DOE)	1	\$50,250
Howmet Corp.	1	\$31,757
ImSAR( Air Force)	2	\$252,520
ImSAR, LLC	2	\$126,260
Intelligent Light (AFRL)	1	\$25,000
JPL (NASA)	1	\$269,595
LiquiLume (NIH-SBIR)	1	\$40,001
LiquiLume Diagnostics	1	\$30,000
McGill University (NIH)	1	\$66,260
NASA (EPSCoR)	1	\$25,000
Sandia National Lab	2	\$52,000
Space Dynamics Lab//USU	1	\$20,000
Stanford (NIH)	1	\$120,355
U of Colorado (NASA Dryden)	1	\$120,000
UC Berkeley (NSF)	1	\$86,859
UC Davis (Army)	1	\$60,000
UC Santa Cruz (NIH)	2	\$102,250
U of Utah (NASA)	2	\$109,400
US Army	1	\$93,329
USU (NSF)	1	\$89,670
Utopia Compression (AF)	2	\$45,000
Western Maryland Resource Conserv	1	\$40,000
<i>Total</i>	32	\$2,474,971

# Engineering & Technology

## Source Breakdown of Grants and Contracts

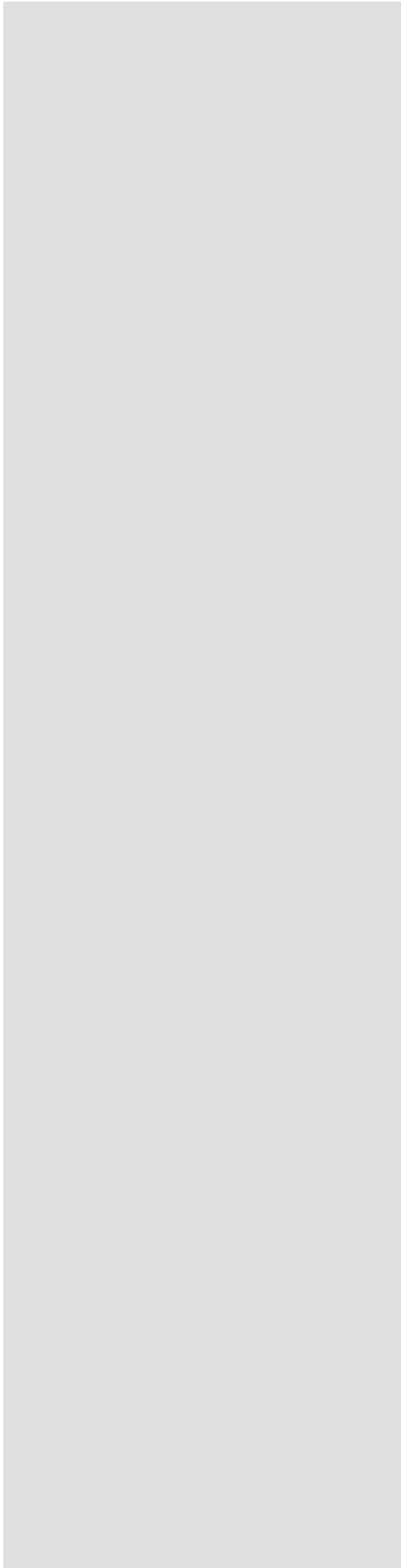
### State Sponsors

CUWCD	1	\$20,352
Space Dynamics Lab (USU)	1	\$20,000
UDOT	3	\$275,008
U of Utah	1	\$6,985
<i>Total</i>	6	\$322,345

### Private Sponsors

AAI-Textron	3	\$30,000
Air Liquide	1	\$80,000
Bausch & Lomb	1	\$50,000
Belcan Engineering Group	1	\$30,000
Boeing	7	\$727,100
Caterpillar	1	\$26,154
CD-adapca	1	\$7,500
Ceramatec	1	\$45,000
CIBA Vision Corp	1	\$46,940
Clarke Capital partners	2	\$37,500
Duracell (Procter & Gamble)	1	\$75,000
EPRI	4	\$532,173
GE Global Research	2	\$25,475
General Electric	1	\$76,598
Hazard Protection Systems	1	\$30,000
Institu, Inc.	3	\$30,000
JFE Steel	2	\$33,750
L-3 Communications	3	\$30,000
Lockheed Martin Space System Co.	2	\$35,000
Lockheed Martin SVIL	2	\$40,000
Manufacturing Tech Inc.	2	\$36,000
National Instruments	2	\$35,000
NCMA	1	\$12,400
Northrop Grumman Marine Systems	2	\$16,785
PCC Airfoilds LLC	1	\$22,500
Petrobras	2	\$35,000
Pratt & Whitney	4	\$140,000
Raytheon	2	\$100,000
Sandia National Lab	1	\$20,000
SEAKR Engineering, Inc.	2	\$35,000
Siemens Corp	1	\$30,000
SKB	2	\$35,000
Spirit Aerosystems	1	\$30,000
Sustainable Energy Solutions	1	\$50,000
Union Pacific	1	\$45,000
Utopia Compression	4	\$40,000
Vision Air Research	1	\$32,015
XILINX Inc.	2	\$35,000
XO Athletics	1	\$15,000
<i>Total</i>	73	\$2,752,890



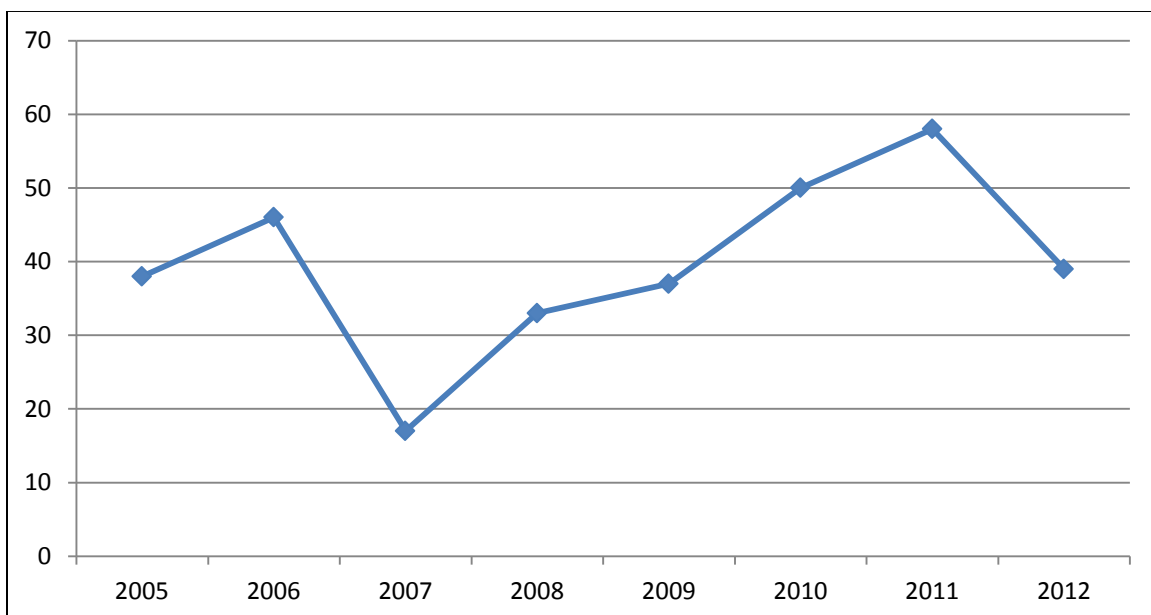


# College of Family, Home & Social Sciences

# Summary of Sponsored Research (Grants & Contracts)

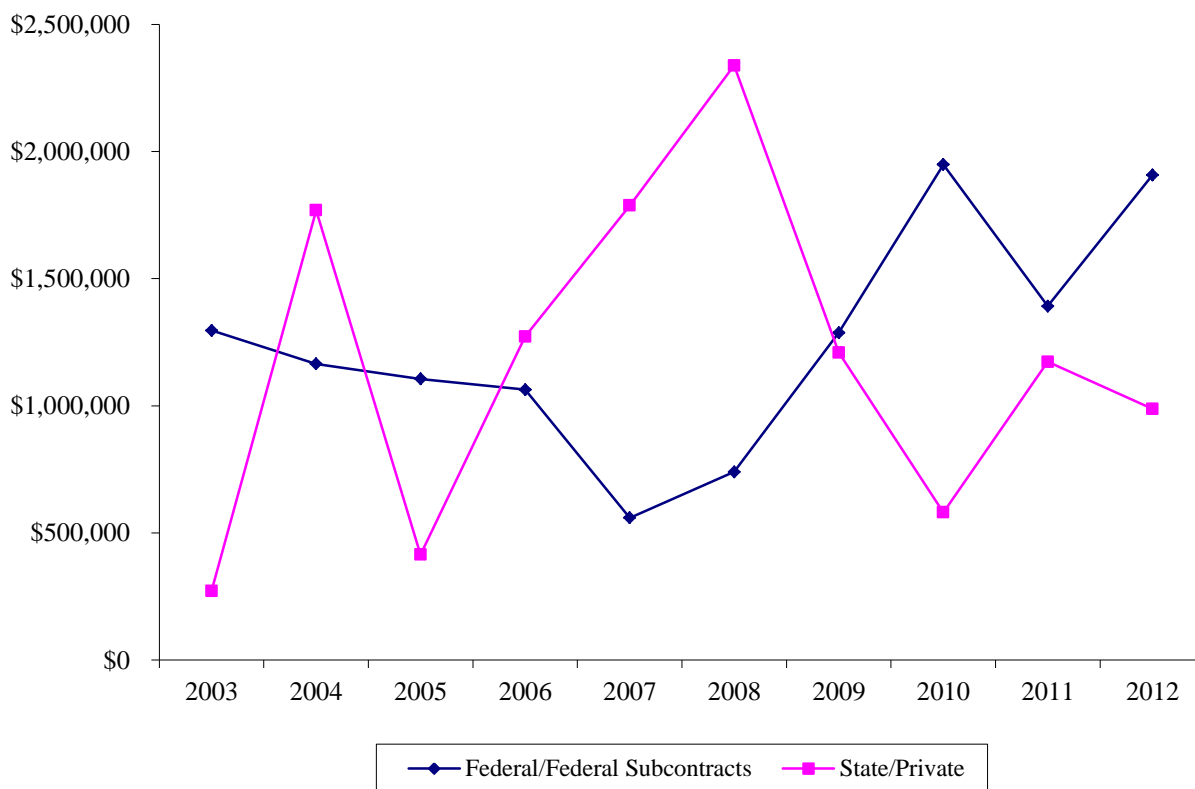
Department	# of Faculty Submitting	# of Proposals Submitted	# of Awards	Dollars Awarded
Anthropology	1	1	0	\$0
Center for Studies of the Family	0	0	0	\$0
Economics	5	4	4	\$76,874
Geography	3	4	1	\$78,177
History	0	0	0	\$0
Kennedy Center	1	1	3	\$208,950
Home and Family Living	1	1	0	\$0
Joseph Fielding 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	11	18	\$874,323
Political Science	4	4	6	\$786,562
Psychology	5	6	5	\$486,466
School of Family Life	4	2	2	\$57,259
Social Work	0	0	0	\$0
Sociology	4	6	11	\$326,625
<b>TOTALS</b>	<b>28</b>	<b>39</b>	<b>50</b>	<b>\$2,895,236</b>

## Proposal Submission Activity



# External Research Funding (All Sources)

Year	Grants/Contracts		Total
	Federal/Federal Subcontracts	State/Private	
2003	\$1,296,291	\$271,593	\$1,567,884
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	\$2,895,236



# Family, Home & Social Sciences 2012 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><i>Economics</i></b>								
Pope, Arden		U of Louisville (NIH)	Endothelial Progenitor Cells and Particulate Air Pollution	9/23/2011	4/30/2013	R0302427	\$13,722	2
Pope, C. Arden		University of Louisville (NIH)	Endothelial Progenitor Cells and Particulate Air Pollution	9/23/2011	5/31/2012	R0302427	\$13,722	2
Pope, C. Arden		Cleveland Clinic (EPA)	Association of Short-Term Pollution Exposures with Childhood Autoimmune Disease	6/1/2011	5/31/2012	R0302461	\$21,830	2
Price, Joseph		Spencer Foundation	Assessing Affirmative Action using Specially-Designed Field Experiments	1/1/2012	12/31/2012	R0502152	\$27,600	4
<b><i>Geography</i></b>								
Jensen, Ryan	w/Aanderud, Zach	USU (NSF)	EPSCOR-iUTAH-innovative Urban Transitions and Aridregion Hydro-sustainability	8/1/2012	7/31/2013	R0302477	\$78,177	2
<b><i>Kennedy Center</i></b>								
Francom, Mike	w/ Hyer, Eric	UofU (DoED)	Title IV NRC FLAS	8/15/2010	8/14/2013	R0302361	\$143,250	2
Nassif, Maggie	w/ Belnap, Kirk	Qatar Foundation	Arabic Without Walls	5/1/2012	4/30/2013	R0502160	\$53,200	4
Nassif, Maggie	w/ Belnap, Kirk	Qatar Fndtn.	Providing Workshops for refining Curriculum Development for Middle School Students and Creation of Online Portal	4/1/2012	5/1/2013	R0502157	\$12,500	4
<b><i>Office of Public Archeology</i></b>								
Talbot, Richard		NPS	Mormon Pioneer National Historic Trail	8/4/2012	12/30/2014	R0202372	\$40,659	1
Talbot, Richard		UT Dept. of Environmental Quality	Sevier River Project	6/26/2012	7/30/2012	R0402212	\$2,500	3
Talbot, Richard		UTA	Mitigation of Adverse Effects at the Galena Site	7/1/2012	12/31/2013	R0402214	\$90,000	3
Talbot, Richard		URS	Spor Mountain	1/27/2012	10/1/2012	R0602374	\$8,914	4
Talbot, Richard		URS	URS Morrison Site	1/27/2012	10/1/2012	R0602389	\$8,914	4
Talbot, Richard		URS Corp	Spor Mountain	12/22/2011	7/1/2012	R0602374	\$18,308	4
Talbot, Richard		Idaho Power	Upper Salmon to Wells	7/15/2010	6/30/2012	R0602359	\$4,500	4
Talbot, Richard		Nevada BLM	Obsidian Crossroads Project	3/3/2012	2/2/2015	R0492033	\$288,670	4
Talbot, Richard		URS	Chevron Pipeline Inventory	8/8/2012	12/1/2012	R0602401	\$7,800	4
Talbot, Richard		URS	Kennecott Air Quality Station	8/8/2012	12/1/2012	R0602402	\$3,000	4
Talbot, Richard		HRA Inc.	Jackson Flat Artifact Analysis	10/1/2012	8/1/2015	R0502168	\$122,500	4
Talbot, Richard		UT Div of Environmental	City of Francis Wastewater Lagoons	10/1/2012	12/30/2012	R0492033	\$3,000	4

		Quality	Expansion Project					
Talbot, Richard		Dept of Water Quality (State of UT)	MT. Pleasant Survey	9/26/2011	10/31/2011	R0402196	\$2,200	3
Talbot, Richard		URS Corp	UDOGM/AMRP Foothills Inventory	11/26/2011	12/26/2011	R0602373	\$51,353	4
Talbot, Richard		URS Corp	Spor Mountain Inventory	12/22/2011	4/1/2012	R0602374	\$48,112	4
Talbot, Richard		URS Corp	Chevron Pipeline Woodland Inventory	12/7/2011	1/31/2012	R0602375	\$3,000	4
Talbot, Richard		William Self Associates, Inc.	WSA Southern Parkway Ceramics Analysis	12/1/2011	12/1/2012	R0602381	\$30,000	4
Talbot, Richard		LDS Church	Old Provo Tabernacle Archaeological Mitigation	1/1/2012	12/31/2012	R0702014	\$140,893	4

***Political Science***

Findley, Michael	w/Nielson, Daniel	Griffiths University	Incorporation Services and Compliance to International Law	10/5/2010	12/31/2012	R0802023	\$4,000	3
Hyer, Eric		UofU (DoED)	Title IV NRC FLAS	8/15/2010	8/14/2013	R0302361	\$143,250	2
Hyer, Eric		U of Utah (DoED)	Title IV NRC	8/15/2010	8/14/2013	R0302360	\$58,187	2
Jacoby, Wade		DOEd	FLAS	8/15/2012	8/14/2013	R0132020	\$252,000	1
Jacoby, Wade		Dept of Education	National Resource Center	8/15/2010	8/14/2013	R0132019	\$142,005	1
Nielson, Daniel		William & Mary (USAID)	Where the Money Goes: Mapping Aid for Better Impact	10/1/2012	9/30/2013	R0302482	\$183,120	2
Nielson, Daniel		Griffiths University	Incorporation Services and Compliance to International Law	10/5/2010	12/31/2012	R0802023	\$4,000	3

***Psychology***

Bigler, Erin		UCSD (NIH)	A Psychiatric and Imaging Study of Pediatric Mild Traumatic Brain Injury	9/1/2011	6/30/2012	R0302450	\$85,584	2
Bigler, Erin		UCSD (NIH)	A Psychiatric and Imaging Study of Pediatric Mild Traumatic Brain Injury	9/1/2011	6/30/2013	R0302450	\$85,585	2
Bigler, Erin		Baylor (NIH)	Neurobehavioral Outcome of Head Injury in Children	2/1/2011	1/31/2013	R0302043	\$12,486	2
Bigler, Erin		Various Sources	Neuro-Imaging	4/30/1991	open	R0600381	\$3,000	4
Steffensen, Scott		NIH	Nicotine and Alcohol Co-Dependence	8/1/2012	7/31/2013	R0102059	\$299,811	1

***School of Family Life***

Dyer, W. Justin		University of Illinois (DOEd)	Men's Parenting Behaviors in Families of Children with Disabilities Findings From the ECLSB"	7/1/2012	6/30/2013	R0302467	\$26,106	2
Yorgason, Jeremy		VA SLC	VRHRC IPA	5/1/2012	7/31/2012	R0302457	\$31,153	2

***Sociology***

Brown, Ralph		Rural Sociological Society	Treasurer & Executive Director Appointment	2/8/2012	5/15/2012	R0502112	\$45,000	4
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Call, Vaughn	Veterans Admin.	IPA Agreement	10/1/2012	9/30/2013	RO202380	\$74,594	1
Erickson, Lance	Veterans Admin.	IPA Agreement	10/1/2012	9/30/2013	RO202383	\$39,632	1
Erickson, Lance	VA SLC	VRHRC IPA	5/1/2012	7/31/2012	RO302458	\$28,921	2
Jacobson, Cardell	Wichita State (PAEA)	An Examination of How Physician Assistants Experience Race-Based Discrimination in the Workplace	10/1/2011	6/10/2012	RO802030	\$4,889	3
Ward, Carol	Veterans Admin.	IPA Agreement	10/1/2012	9/30/2013	RO202381	\$32,879	1
Ward, Carol	VA SLC	VRHRC IPA	5/1/2012	7/31/2012	RO302456	\$34,691	2
Ward, Carol	Chief Dull Knife College (NIH)	TUES Program Development	10/1/2011	9/13/2013	RO302405	\$6,195	2
Ward, Carol	Chief Dull Knife College (USDA)	TUES Study	10/1/2011	9/30/2013	RO302405	\$13,382	2
Ward, Carol	Chief Dull Knife College (NSF)	Integrated Math and Science Curriculum	10/1/2007	9/30/2013	RO302226	\$10,000	2
Yorgason, Jeremy	Veterans Admin.	IPA Agreement	10/1/2012	9/30/2013	RO202382	\$36,442	1

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

Department Totals

Anthropology	\$0
Economics	\$76,874
Geography	\$78,177
History	\$0
Kennedy Center	\$208,950
School of Family Life	\$57,259
Joseph Fielding Smith Institute	\$0
Marriage & Family Therapy	\$0
Museum of Peoples & Cultures	\$0
Office of Public Archaeology	\$874,323
Political Science	\$786,562
Psychology	\$486,466
Social Work	\$0
Sociology	\$326,625
<b>College Total:</b>	<b>\$2,895,236</b>

# Family, Home & Social Sciences

## Source Breakdown of Grants and Contracts

Sponsor	No. Awarded	Amount
<b>Federal Sponsors</b>		
DoED	2	\$394,005
NPS	1	\$40,659
NIH	1	\$299,811
Veterans Admin	4	\$183,547
<i>Total</i>	8	\$918,022
<b>Federal Subcontract Sponsors</b>		
Baylor (NIH)	1	\$12,486
Chief Dell Knife College	1	\$6,195
Chief Dull Knife College (NSF)	1	\$10,000
Chief Dull Knife College (USDA)	1	\$13,382
Cleveland Clinic (EPA)	1	\$21,830
U of Louisville (NIH)	1	\$13,722
U of Utah (DoED)	1	\$58,187
UCSD (NIH)	2	\$171,169
U of Illinois (DoED)	1	\$26,106
U of Louisville (NIH)	1	\$13,722
U of Utah (NSF)	2	\$286,500
USU (NSF)	1	\$78,177
VA SLC	3	\$94,765
William & Mary (USAID)	1	\$183,120
<i>Total</i>	18	\$989,361
<b>State Sponsors</b>		
Dept of Water Quality (UT)	1	\$2,200
Griffiths University	2	\$8,000
UT Dept. of Environmental Quality	1	\$2,500
UTA	1	\$90,000
Wichita State (PAEA)	1	\$4,889
<i>Total</i>	6	\$107,589
<b>Private Sponsors</b>		
HRA Inc.	1	\$122,500
Idaho Power	1	\$4,500
LDS Church	1	\$140,893
Nevada BLM	1	\$288,670
Qatar Foundation	2	\$65,700
Rural Sociological Society	1	\$45,000
Spencer Foundation	1	\$27,600
URS	8	\$149,401
UT Div of Environmental Quality	1	\$3,000
Various Sources	1	\$3,000
William Self Associates, Inc.	1	\$30,000
<i>Total</i>	19	\$880,264



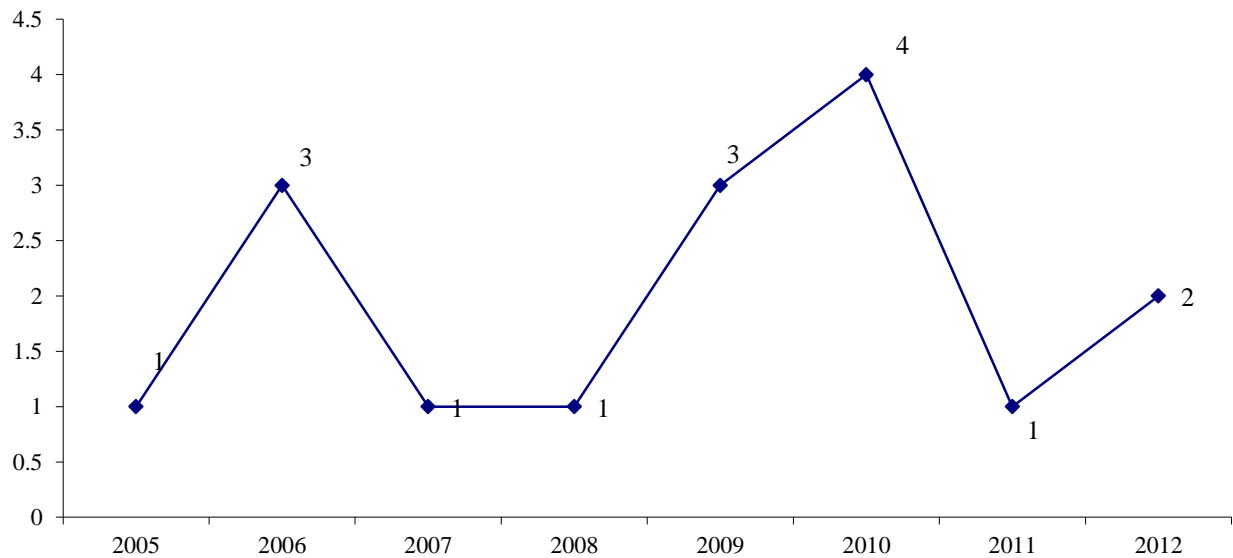
# College of Fine Arts & Communications



# Summary of Sponsored Research (Grants & Contracts)

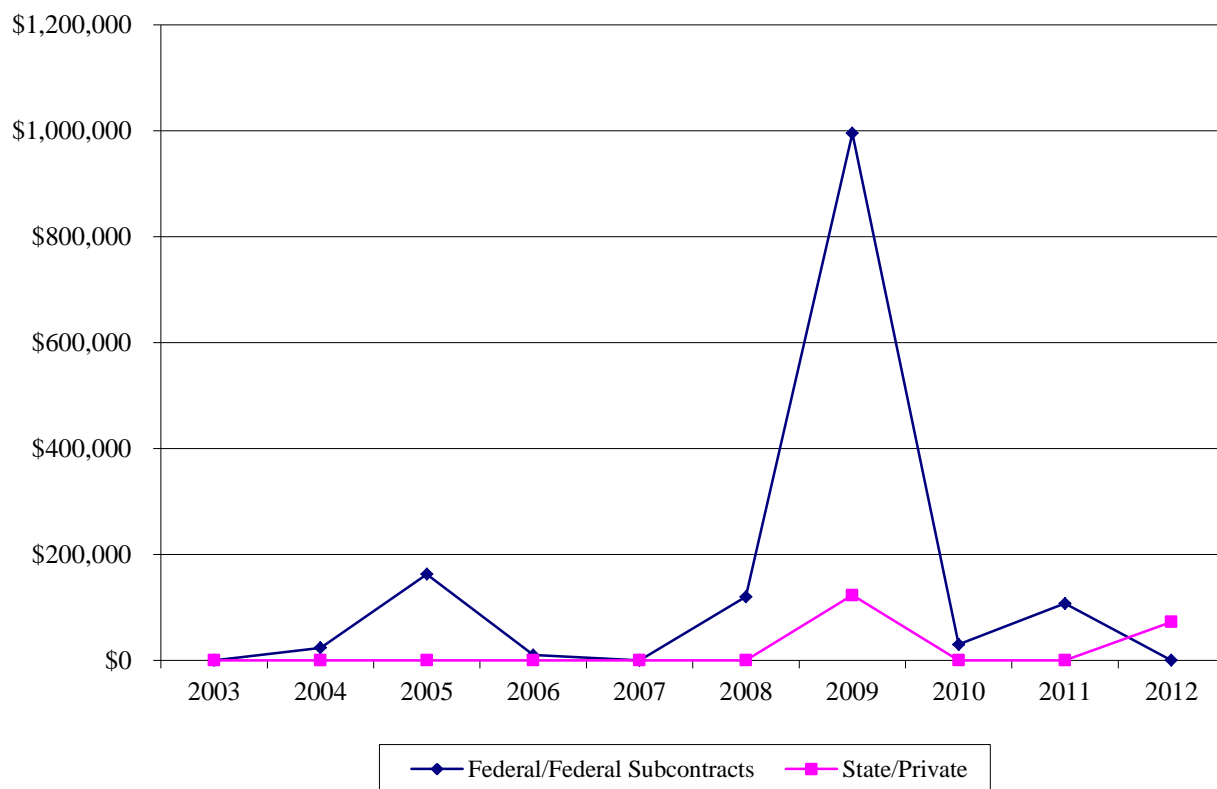
Department	# of Faculty Submitting	# of Proposals Submitted	# of Awards	Dollars Awarded
Communication	0	0	0	\$0
Dance	1	1	0	\$0
Museum of Art	0	0	0	\$0
School of Music	1	1	2	\$72,500
Theatre & Media Arts	0	0	0	\$0
Visual Arts	0	0	0	\$0
<b>TOTALS</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>\$72,500</b>

## Proposal Submission Activity



# External Research Funding (All Sources)

Year	Grants/Contracts		Total
	Federal/Federal Subcontracts	State/Private	
2003	\$0	\$0	\$0
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



# Fine Arts & Communications

## Source Breakdown of Grants and Contracts

<u>Sponsor</u>	<u>No. Awarded</u>	<u>Amount</u>
<b>Federal Sponsors</b>		
		\$0
<i>Total</i>	0	\$0
<b>Federal Subcontract Sponsors</b>		
		\$0
<i>Total</i>	0	\$0
<b>State Sponsors</b>		
None		
<b>Private Sponsors</b>		
Art Works for Kids	1	\$47,500
ISRM	1	\$25,000
<i>Total</i>	2	\$72,500

<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>School of Music</b>								
Jones, Stephen		Art Works for Kids	BTS Arts Learning Program 2012-2013	7/1/2013	6/30/13	R0502165	\$47,500	4
Kimball, William		ISRM	Research in Music	7/1/13	12/31/14	R0502164	\$25,000	4

**Department Totals**

Theatre & Media Arts	\$0
Communications	\$0
Dance	\$0
Museum of Art	\$0
School of Music	\$72,500
<b>College Total:</b>	<b>\$72,500</b>

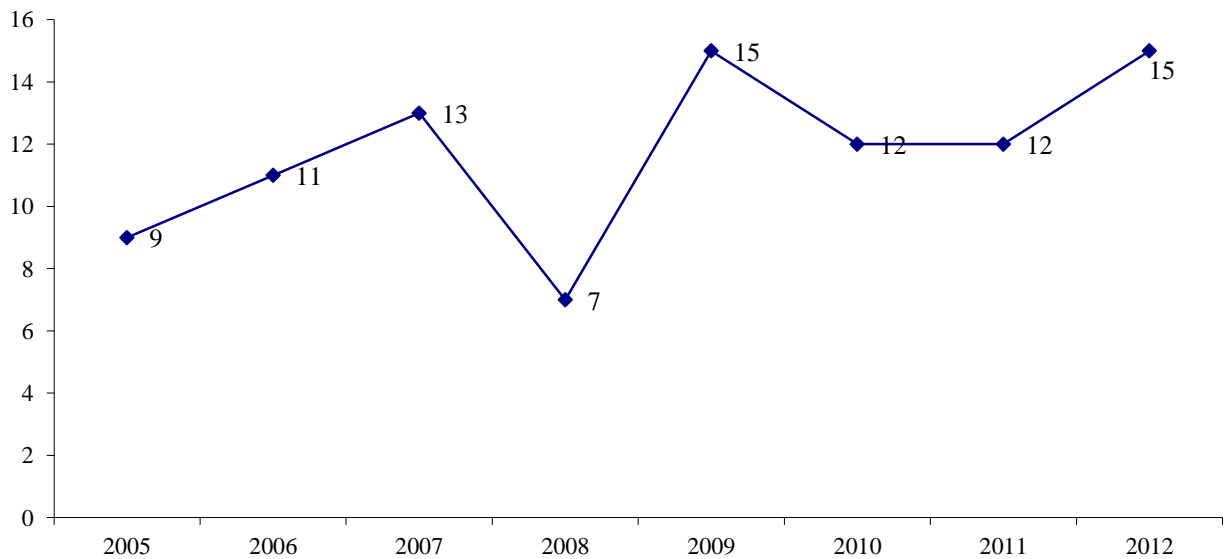


# College of Humanities

# Summary of Sponsored Research (Grants & Contracts)

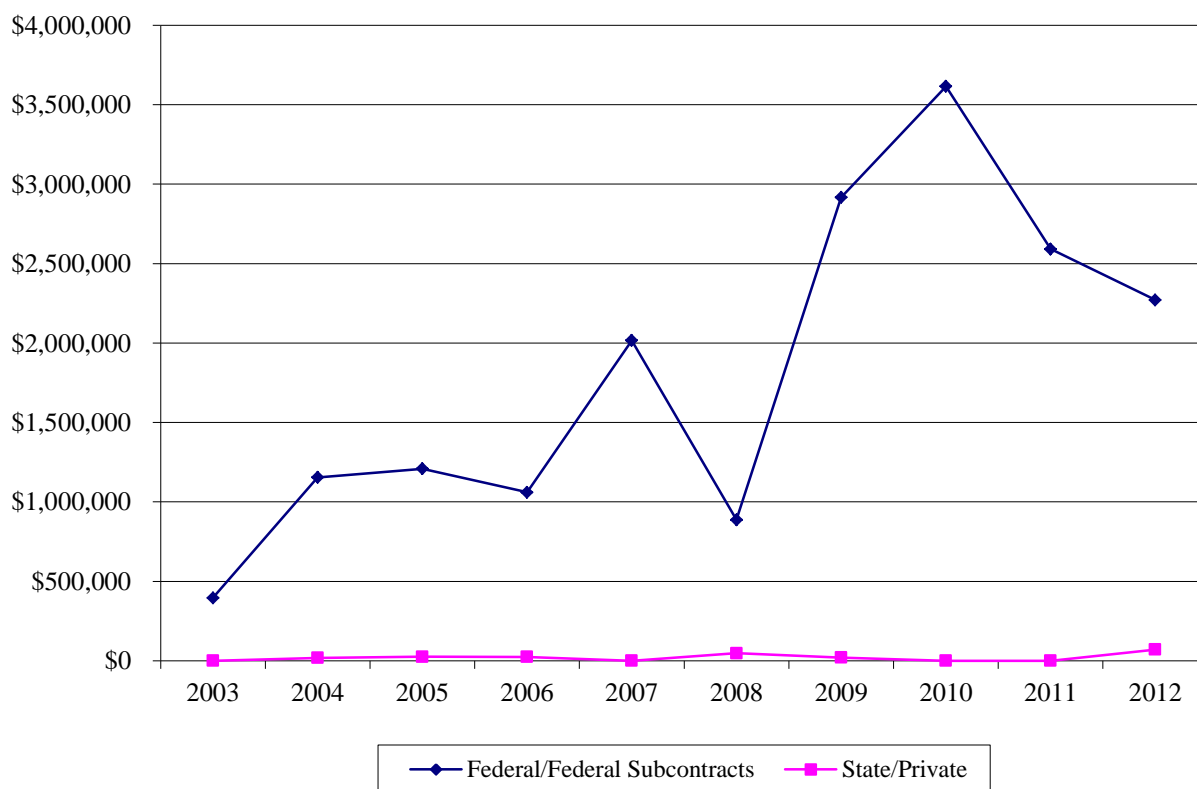
Department	# of Faculty Submitting	# of Proposals Submitted	# of Awards	Dollars Awarded
Asian & Near Eastern Languages	4	8	9	\$2,252,686
Center for Language Studies	2	2	2	\$46,012
English	2	3	3	\$38,000
French & Italian	1	1	2	\$5,500
German & Slavic Languages	0	0	0	\$0
Hum, Classics & Comparative Lit	0	0	0	\$0
Linguistics	0	0	0	\$0
Philosophy	0	0	0	\$0
Spanish & Portuguese	1	1	0	\$0
<b>TOTALS</b>	10	15	16	\$2,342,198

## Proposal Submission Activity



# External Research Funding (All Sources)

Year	Grants/Contracts		Total
	Federal/Federal Subcontracts	State/Private	
2003	\$395,633	\$0	\$395,633
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



# Humanities 2012 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>Asian &amp; Near Eastern Languages</b>								
Belnap, Kirk		NSA	BYU 2012 STARTALK Arabic Summer Camp and Arabic Teacher Apprenticeship Program	3/27/2012	2/28/2013	R0202358	\$123,416	1
Belnap, Kirk		DoED	National Middle Eastern Language Resource Center	8/15/2010	8/14/2013	R0132018	\$174,615	1
Belnap, Kirk	w/ Bush, Michael	UC Davis (DOD/IIE)	Arabic Encounters	6/1/2009	9/30/2012	R0302372	\$15,012	2
Belnap, Kirk		Qatar Foundation	Providing Workshops for refining Curriculum Development for Middle School Students and Creation of Online Portal	4/1/2012	5/1/2013	R0502157	\$12,500	4
Belnap, Kirk		Qatar Foundation	Arabic Without Walls	5/1/2012	4/30/2013	R0502160	\$53,200	4
Bourgerie, Dana		NSA	BYU Student STARTALK	3/27/2012	2/28/2013	R0202360	\$100,000	1
Bourgerie, Dana		IIE (NSEP)	BYU Chinese Flagship Center - Domestic	6/1/2012	5/31/2013	R0302468	\$615,400	2
Bourgerie, Dana		Institute of International Education	Nanjing Chinese Flagship Center - Overseas	6/1/2012	5/31/2013	R0302476	\$468,199	2
Bourgerie, Dana		IIE	K-12 Collaborative Innovation project- Chinese Flagship	9/30/2011	9/30/2013	R0302422	\$590,869	2
Christenson, Matt		NSA	BYU Chinese Teacher Training Program	3/27/2012	2/28/2013	R0202359	\$99,475	1
<b>Center for Language Studies</b>								
Bush, Michael		American Councils for Intl Education	Flagship Multi Media Library	10/1/2011	9/30/2012	R0302459	\$31,000	2
Bush, Michael		UC Davis (DOD/IIE)	Arabic Encounters	6/1/2009	9/30/2012	R0302372	\$15,012	2
<b>English</b>								
Crowe, Chris		NEA	The Art of Writing about the Arts: A Summer Youth Camp	3/1/2013	8/31/2013	R0202374	\$10,000	1
Dean, Deborah		National Writing Project (US DoED)	Central Utah Writing Project, 2012-2013	7/1/2012	6/30/2013	R0302469	\$20,000	2
Dean, Deborah		National Writing Project (DoED)	SEED Online Learning Experiences Grant	10/1/2012	9/30/2013	R0302480	\$8,000	2
<b>French &amp; Italian</b>								
Le Bras, Yvon		University of Waterloo	Textes missionnaires dans l'espace francophone	1/30/2012	7/31/2015	R0802029	\$2,500	4
LeBras, Yvon		University of Waterloo	Missionary Texts in the Francophone Space	8/1/2011	7/31/2013	R0802029	\$3,000	4

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

Department Totals	
Asian & Near Eastern Languages	\$2,252,686
Center for Language Studies	\$46,012
English	\$38,000
French & Italian	\$5,500
German & Slavic Languages	\$0
Hum, Classics & Comparative Lit	\$0
Humanities Research Center	\$0
Linguistics	\$0
Philosophy	\$0
Spanish & Portuguese	\$0
<i>College Total:</i>	<hr/> \$2,342,198



# Humanities

## Source Breakdown of Grants and Contracts

<b>Sponsor</b>	<b>No. Awarded</b>	<b>Amount</b>
<b>Federal Sponsors</b>		
DoED	1	\$174,615
NEA	1	\$10,000
NSA	3	\$322,891
<i>Totals</i>	5	\$507,506
<b>Federal Subcontracts Sponsors</b>		
Amer Council Intl Ed	1	\$31,000
IIE	1	\$590,869
IIE (NSEP)	1	\$615,400
Institute of Intl Ed	1	\$468,199
National Writing Project (DoED)	2	\$28,000
UC Davis (DOD/IIE)	2	\$30,024
<i>Totals</i>	8	\$1,763,492
<b>Private</b>		
Qatar Foundation	2	\$65,700
University of Waterloo	2	\$5,500
<i>Totals</i>	4	\$71,200

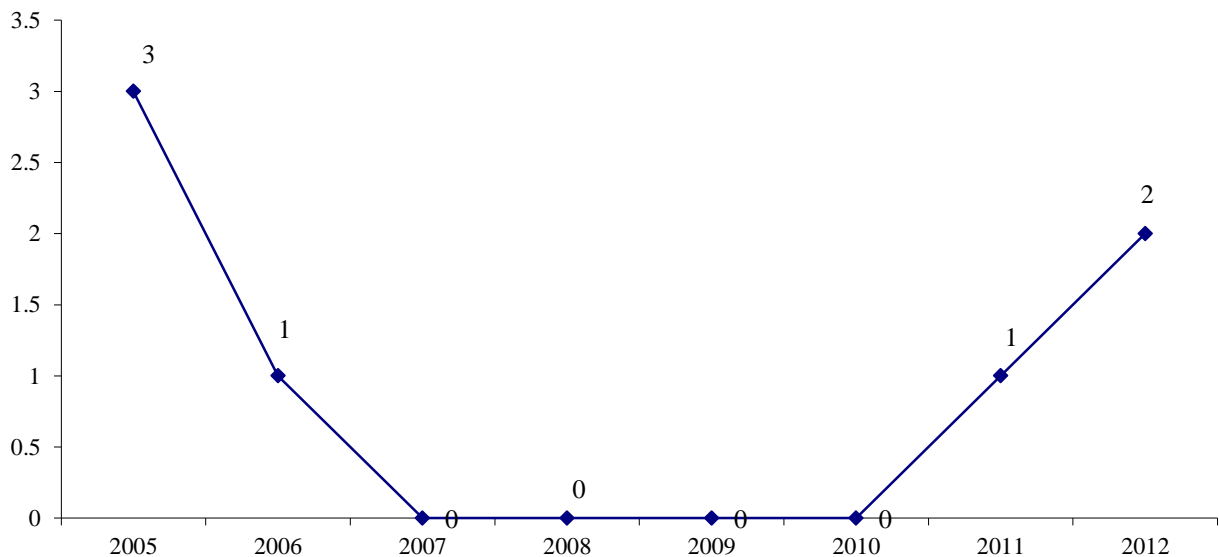


# J. Reuben Clark Law School

# Summary of Sponsored Research (Grants & Contracts)

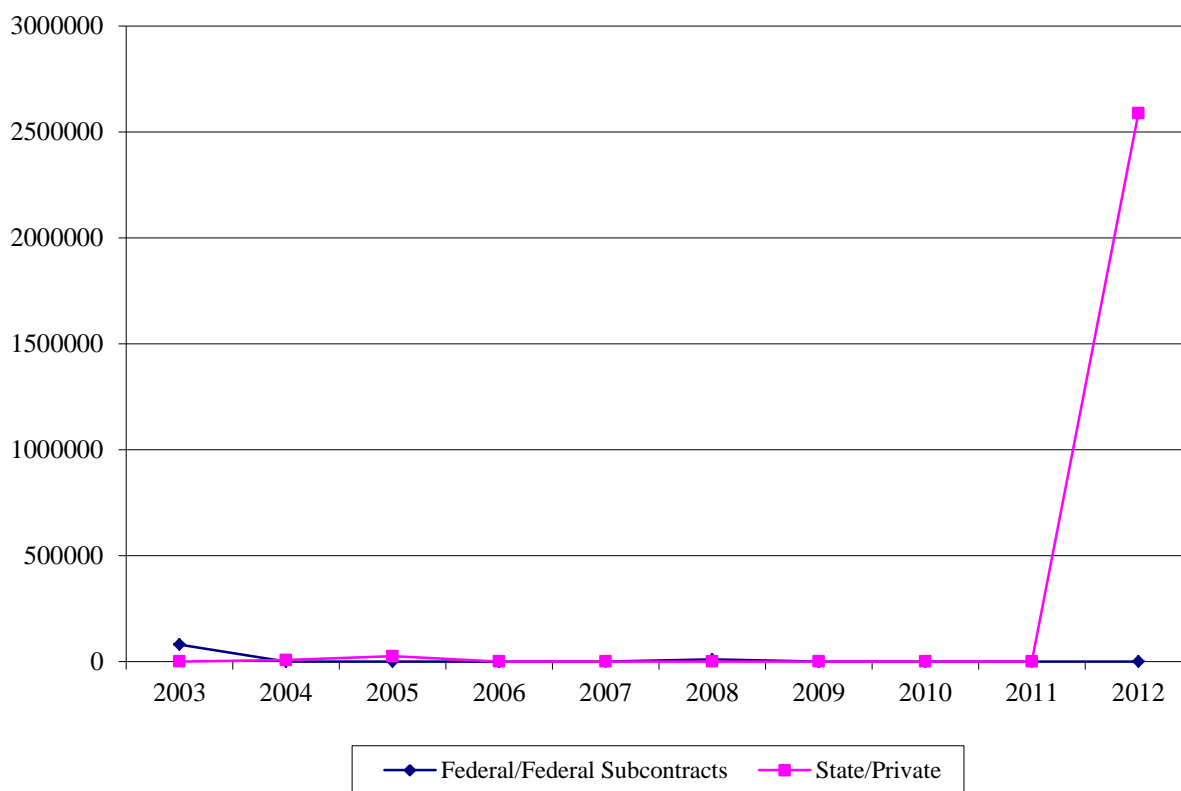
Department	# of Faculty Submitting	# of Proposals Submitted	# of Awards	Dollars Awarded
Law School	4	2	2	\$2,588,209
<b>TOTALS</b>	4	2	2	\$2,588,209

## Proposal Submission Activity



# External Research Funding (All Sources)

Year	Grants/Contracts		Total
	Federal/Federal Subcontracts	State/Private	
2003	\$80,453	\$0	\$80,453
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



# Law School 2012 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>
Doxey, Gary	w/ Durham, Cole	Templeton Foundation	Religion and the Role of Law in China	7/1/2012	6/30/2015	R0502161	\$1,095,713	4
Doxey, Gary	w/ Durham, Cole	Templeton Foundation	Religion and the Rule of Law in Vietnam	7/1/2012	6/30/2014	R0502166	\$132,261	4
Durham, Cole		Templeton Foundation	Religion and the Role of Law in China	7/1/2012	6/30/2015	R0502161	\$1,095,713	4
Durham, Cole		Templeton Foundation	Religion and the Rule of Law in Vietnam	7/1/2012	6/30/2014	R0502166	\$132,261	4
Smith, Bob	w/ Durham, Cole	Templeton Foundation	Religion and the Rule of Law in Vietnam	7/1/2012	6/30/2014	R0502166	\$132,261	4

Department Totals  
 Law School  
*College Total:*

\$2,588,209  
 \$2,588,209

# 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>		
Templeton Foundation	2	\$2,588,209
<i>Total</i>	2	\$2,588,209

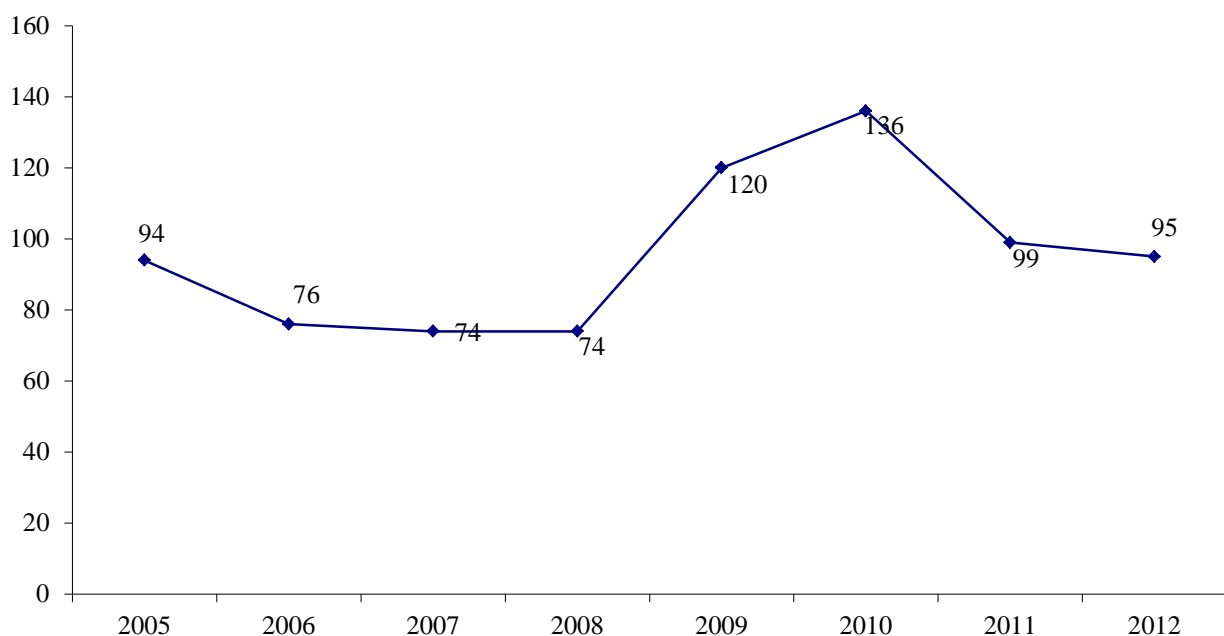


# College of Life Sciences

# Summary of Sponsored Research (Grants & Contracts)

Department	# of Faculty Submitting	# of Proposals Submitted	# of Awards	Dollars Awarded
Monte Bean Life Science Museum	0	0	0	\$0
Biology	21	32	22	\$2,401,728
Exercise Science	1	1	1	\$7,000
Health Science	6	6	4	\$70,516
Microbiology & Molecular Biology	12	13	10	\$1,059,452
Nutrition, Dietetics & Food Science	5	3	6	\$339,930
Physiology & Developmental Biology	15	15	5	\$896,178
Plant & Wildlife Science	18	25	33	\$3,388,813
<b>TOTALS</b>	<b>78</b>	<b>95</b>	<b>78</b>	<b>\$8,163,617</b>

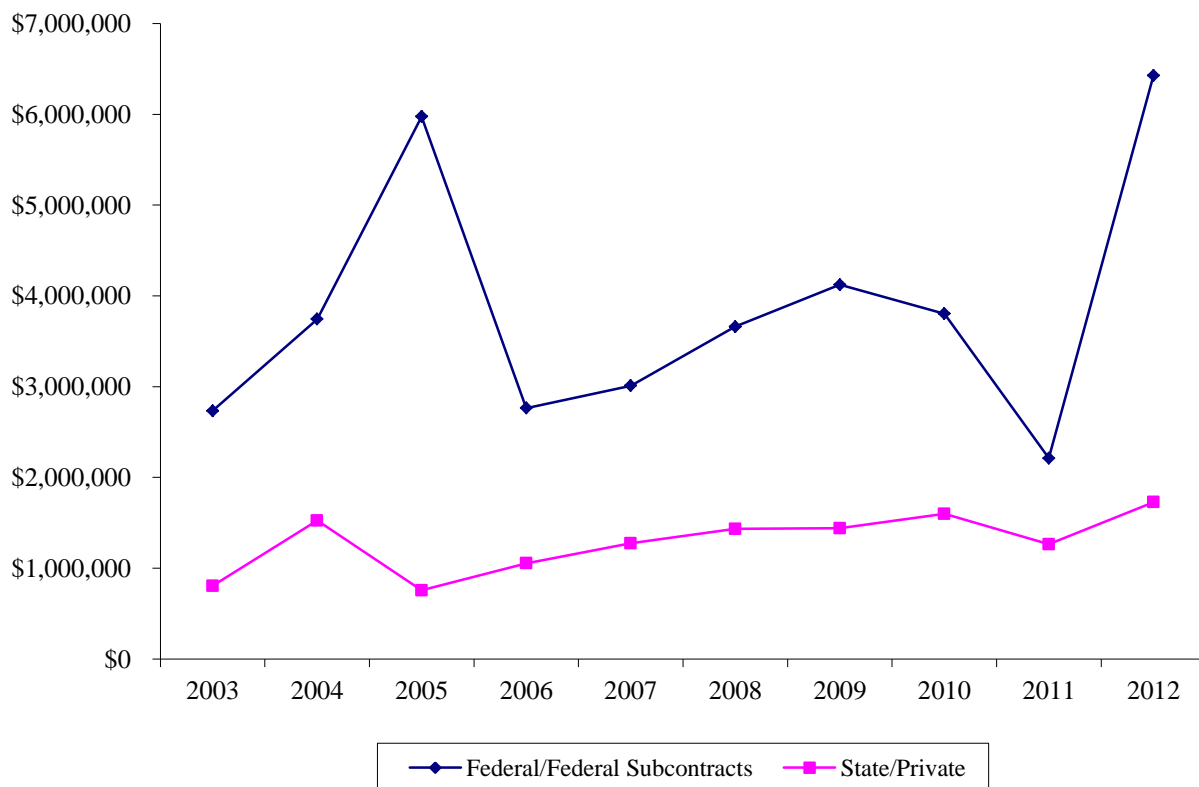
## Proposal Submission Activity





# External Research Funding (All Sources)

Year	Grants/Contracts		Total
	Federal/Federal Subcontracts	State/Private	
2003	\$2,734,614	\$805,898	\$3,740,771
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



# College of Life Sciences 2012 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>Typ e</u>
<b>Biology</b>								
Adams, Byron		NSF	A planning workshop for a McMurdo Dry Valley Terrestrial Observation Network	6/1/2012	5/31/2013	R0112208	\$38,217	1
Adams, Byron		U of Colorado(NSF)	Increased Connectivity in a Polar Desert Resulting from Climate Warming: McMurdo Dry Valley LTER Program	4/15/2011	3/31/2013	R0302397	\$38,915	2
Belk, Mark		BLM-Wyo	Study relationship among land use patterns, habitat structure, and population dynamics(northern leatherside)	9/15/2012	9/30/2017	R0202377	\$8,000	1
Belk, Mark		CUWCD	Population Matrix Model for June Sucker in Utah Lake	3/23/2012	4/30/2013	R0402203	\$38,375	3
Crandall, Keith		NSF	Collaborative Research: Automated and Community-Driven Synthesis of the Tree of Life	6/1/2012	5/31/2015	R0112209	\$350,000	1
Gill, Richard		USGS	Climate Change in Dryland Regions: The sensitivity and thresholds in biocrusts	8/1/2012	4/30/2017	R0202367	\$25,000	1
Gill, Richard		WSU (NSF)	Weathering Under Cover: Role of Biofilms in Mineral Weathering and Nutrient Uptake in the Mycorrhizosphere	8/1/2010	12/31/2012	R0302367	\$14,411	2
Gill, Richard	w/Aanderud, Zach	NSF via Utah State U.	EPSCOR-iUTAH-innovative Urban Transitions and Aridregion Hydro-sustainability	8/1/2012	7/31/2013	R0302477	\$78,178	2
Johnson, Jerald		NSF	Using Comparative phylogeography to understand evolutionary diversification in Central American Freshwater fishes	6/15/2012	5/31/2014	R0112212	\$14,040	1
Johnson, Leigh		NSF	CSBR: Natural History Collections: Securing the BRY and OGDV Vascular Plant Collections Through Increased Storage Capacity	5/1/2012	4/30/2014	R0112207	\$341,006	1
Johnson, Leigh		Grand Canyon Trust	Plant Specimens collecting in Vermilion Cliffs National Monument	4/1/2012	12/31/2013	R0502159	\$4,000	4
Kauwe, John		NIH	Pleiotropic and Interaction Effects on Alzheimer's disease Risk and Progression	9/1/2012	6/30/2013	R0102062	\$237,731	1
Kauwe, John		NIH	Use of Endophenotypes in the Search for Alzheimer's Disease Risk Genes	9/1/2010	8/31/2012	R0302380	\$48,466	2
Kauwe, John	w/Evans, R. Paul	UDWR	Nuclear and Mitochondrial DNA Analysis of Cutthroat Trout	11/1/2012	6/30/2015	R0402216	\$15,400	3
Koide, Roger		USDA-NIFA	Greenhouse gas life cycle analysis of biochar effects on marginal land conversion to switchgrass production	9/1/2012	12/31/2015	R0202379	\$733,884	1
Nelson, C. Riley		US Dept of Interior	Deiptera BioBlitz @ Great Basin National Park	6/1/2012	12/31/2012	R0202366	\$2,000	1
Rader, Russell	w/Hotchkiss, Rollin	CUWCD	Monitoring Restoration of a Changing Hobble Creek	3/23/2012	6/10/2011	R0402202	\$20,352	3
Shiozawa, Dennis	w/Evans, R. Paul	UDWR	Nuclear and Mitochondrial DNA Analysis of Cutthroat Trout	11/1/2012	6/30/2015	R0402216	\$15,400	3
Shiozawa, Dennis		Colorado Div of Wildlife	Genetic Analysis of Greenback Cutthroat Trout	4/27/2009	9/30/2014	R0492029	\$2,211	3
Sites, Jack		NSF	Dissertation Research: Diversification in the South American "dry diagonal" biomes: Distribution Modeling and multi-locus. ReEvaluation of Lichen Air Quality	6/1/2012	5/31/2013	R0112203	\$14,940	1
St. Clair, Larry		USDA/US Forest Svc	Biomonitoring	1/26/2007	12/31/2012	R0202217	\$7,260	1
St. Clair, Larry		USDA Forest Service	Lichen Air Quality Bio-Monitoring	7/27/2012	9/30/2015	R0202369	\$43,923	1
St. Clair, Larry		BLM-Wyo	Whoopup Canyon Lichen Damage Assessment	9/30/2012	12/31/2014	R0202376	\$4,000	1
St. Clair, Larry		Alpine School District	Education Partnership - CITES	11/1/2011	10/31/2013	R0502113	\$24,000	4
Whiting, Michael		NSF	Program Officer for 1 year with NSF	9/4/2012	9/3/2013	R0112224	\$267,029	1
Whiting, Michael F.		NSF	Dissertation Research: Phylogeny of Tettigoniidae (Orthoptera): Evolution of Katydid Defenses and Ears	6/1/2012	5/31/2014	R0112206	\$14,990	1
<b>Exercise Science</b>								
Hunter, Iain		USA Track and Field	Analysis of Distance Running	7/1/2012	9/30/2013	R0502040	\$7,000	4
<b>Health Science</b>								
Barnes, Michael		Doris Duke Charitable Foundation	DDCF Health Systems Coordinating Grant	1/1/2013	6/30/2014	R0502173	\$24,840	4

Crookston, Benjamin		U of Pennsylvania (Gates Foundation)	Early Child Growth and Development in Four Countries	11/1/2011	10/31/2013	R0502154	\$16,796	4
Swanson, Chad	w/Barnes, Michael	Doris Duke Charitable Foundation	DDCF Health Systems Coordinating Grant	1/1/2013	6/30/2014	R0502173	\$24,840	4
Thygerson, Steve		Spencer Foundation	Internship Grant	2/22/2012	9/30/2012	R0502153	\$3,000	4
Thygerson, Steven		IHC	Respirator Fit Testing	2/28/2012	3/1/2015	R0602385	\$1,040	4

### ***Microbiology & Molecular Biology***

Berges, Bradford		Harmony Health	Use of humanized mice to develop novel human monoclonal antibodies against Dangué	11/1/2012	12/31/2013	R0602407	\$12,127	4
Burnett, Sandra		U. of Utah(NIH)	Transgenic Mouse Rederivation Project	1/1/2012	12/31/2012	R0302426	\$1,500	2
Erickson, David		NIH	Identification of Bacterial Resistance Mechanisms to Antimicrobial Chemokines	5/1/2012	4/30/2015	R0102057	\$187,500	1
Evans, R. Paul		UDWR	Nuclear and Mitochondrial DNA Analysis of Cutthroat Trout	11/1/2012	6/30/2015	R0402216	\$15,400	3
Evans, R. Paul	w/Shiozawa, Dennis	Colorado Div of Wildlife	Genetic Analysis of Greeback Cutthroat Trout	4/27/2009	9/30/2014	R0492029	\$2,211	3
Griffitts, Joel		NSF	The molecular basis of abortive symbiosis	2/1/2011	2/29/2016	R0112180	\$146,534	1
Grose, Julianne		NIH	Molecular mechanisms of yeast PAS kinase regulation & function	3/1/2012	2/28/2015	R0102056	\$346,949	1
Nielsen, Brent L.		NAS	Building Capabilities for the Molecular and biochemical characterization of photosynthesis	11/15/2010	11/14/2013	R0302363	\$59,225	1
O'Neill, Kim		TK Biotech	TK Research	12/1/2011	12/1/2012	R0602377	\$20,000	4
O'Neill, Kim		U of Colorado	TK1 ELISA and TK Radioassay	10/1/2012	9/30/2013	R0802032	\$27,393	4
Poole, Brian	w/Berges, Bradford	Harmony Health	Use of humanized mice to develop novel human monoclonal antibodies against Dangué	11/1/2012	12/31/2013	R0602407	\$12,127	4
Robison, Richard		Battelle National Biodefense Institute	A curated archive of Viable Select Agents and Extracted Nucleic Acids for Bioforensic Casework	3/5/2008	12/31/2012	R0302243	\$40,986	2
Wilson, Eric	w/ Erickson, David	NIH	Identification of Bacterial Resistance Mechanisms to Antimicrobial Chemokines	5/1/2012	4/30/2015	R0102057	\$187,500	1

### ***Nutrition, Dietetic & Food Science***

Jefferies, Laura		Basic American Foods	Food Sensory Evaluation - 2012	1/1/2012	12/31/2012	R0602395	\$50,000	4
Jefferies, Laura		Basic American Foods	Food Sensory Evaluations	1/1/2012	12/31/2013	R0602395	\$50,000	4
Parker, Tory		UT Dept. of Ag & Food	Utah Red Raspberry Jam: The Effects of Processing and Storage on Color, Antioxidant Content and Flavor	5/1/2012	6/30/2012	R0402205	\$11,160	3
Pike, Oscar		LDS Welfare Svcs	BYU Quality Food Laboratories	1/1/2013	12/31/2013	R0700031	\$160,000	4
Steele, Frost		Deseret Meats	Pathogen Analysis for Meat Products Produced at Deseret Meats	1/12/2012	12/31/2015	R0702001	\$44,450	4
Steele, Frost		Deseret Meats	Salmonella Detection in Peanut Butter	7/1/2012	6/30/2013	R0702001	\$24,320	4

### ***Physiology & Developmental Biology***

Arroyo, Juan		NIH	Apoptosis in an Ovine Model of Intrauterine Growth Restriction	6/4/2012	4/30/2012	R0102060	\$230,014	1
Busath, David		Florida State U (NIH)	Structure-Dynamics-Function in Channels	8/1/2012	7/31/2013	R0302408	\$112,664	2
Edwards, Jeffrey		NIH	Identification of GPR55 cellular expression within hippocampal cells	2/1/2012	1/31/2015	R0102055	\$362,500	1
Hansen, Marc		Frost Biologic	Validating EMT inhibitors in vitro and in vivo.	9/1/2012	8/31/2014	R0602400	\$82,500	4
Reynolds, Paul		Flight Attendant Medical Research Institute	Modeling of COPD by Novel RAGE transgenic Mice	1/1/2012	6/30/2013	R0502158	\$108,500	4

### ***Plant & Wildlife Sciences***

Aanderud, Zach		USU (NSF)	EPSCOR-iUTAH-innovative Urban Transitions and Aridregion Hydro-sustainability	8/1/2012	7/31/2013	R0302477	\$78,178	2
Aanderud, Zachary		USDA/US Forest Svc	Understanding the causes and consequences of cheatgrass dieoffs in the Great Basin	1/27/2012	12/31/2014	R0202355	\$40,150	1
Allen, Phil		USDA Forest	Enhancing the effectiveness of annual grass	5/31/2012	5/31/2015	R0202365	\$171,600	1

		Service	weed biocontrol with black fingers of death Pathogen						
Allphin, Loreen		US Dept Interior-BLM	Genetic and Demographic Monitoring of three rare Boechera species	9/15/2012	9/30/2017	Ro202373	\$29,484	1	
Anderson, Val		US Forest Service	Rangeland Health Assessments, Wasatch Plateau	5/17/2012	9/30/2016	Ro202363	\$60,119	1	
Anderson, Val Jo		USDA Forest Service	Rangeland Health Assessment - Wasatch Plateau	5/17/2012	9/30/2016	Ro202363	\$84,999	1	
Geary, Brad	w/Aanderud, Zachary	USDA/US Forest Svc	Understanding the causes and consequences of cheatgrass dieoffs in the Great Basin	1/27/2012	12/31/2014	Ro202355	\$40,150	1	
Geary, Brad		Utah Dept of Ag & Food	Development of Native Plants as Drought Tolerant Ornamental Landscape Plants	1/1/2012	12/31/2013	Ro402198	\$6,874	3	
Hopkins, Bryan		US Army DoD	Nutrient Quantity-Intensity Relationships for Determining Environmental fate of Munition Constituents in the Soil Vadose zone	9/20/2011	9/19/2013	Ro202351	\$34,050	1	
Hopkins, Bryan		USGS	Soil and Plant Analysis	9/26/2010	9/25/2013	Ro202337	\$19,946	1	
Larsen, Randy	w/Rogers, Duke	US Army	Genetic Investigation of Desert Shrews from Dugway Proving Ground	2/1/2012	8/1/2015	Ro202356	\$4,180	1	
Larsen, Randy		US Army	Dugway Tech Support for Summer 2012	5/1/2012	8/15/2015	Ro202335	\$40,038	1	
Larsen, Randy	w/McMillan, Brock	US Army	Small Mammals at U.S. Dugway Proving Ground: Prey-base dynamics and rare species	4/30/2012	6/30/2013	Ro202329	\$25,168	1	
Larsen, Randy		US Army - Dugway	Establishing baseline information on wildlife communities and water use at the US Army's Dugway Proving Ground	6/1/2012	8/31/2014	Ro202368	\$142,284	1	
Larsen, Randy		US Army Dugway	Monitoring of Sensitive Species	5/1/2012	8/15/2015	Ro202335	\$168,317	1	
Larsen, Randy	w/McMillan, Brock	UDWR	Effects of Predator Management on Mule Deer Survival	1/1/2012	12/31/2013	Ro402199	\$129,738	3	
Larsen, Randy	w/St. Clair, Sam	UDWR	Assessment of disturbance size and ecological conditions on wildlife impacts of aspen regeneration in Utah - Phase 2	7/5/2012	6/30/2013	Ro402208	\$99,128	3	
Larsen, Randy		URM&CC	Recovery Study of Greater Sage Grouse in Strawberry Valley, UT	5/1/2009	7/30/2013	Ro402146	\$65,000	3	
Larsen, Randy		UDWR	Chukar Release Evaluations	7/1/2012	6/30/2013	Ro402209	\$16,313	3	
Larsen, Randy		UDWR	Assessment of Pymy Rabbit Response to Installation of the Ruby Pipeline in North-Eastern Utah	7/1/2012	6/30/2013	Ro402210	\$79,091	3	
Larsen, Randy		UDWR	Guidelines for Placement of Wildlife Water Developments- Year 4	7/1/2012	6/30/2013	Ro402211	\$38,709	3	
Larsen, Randy		Sportsmen for Fish and Wildlife	Strawberry Valley Sage Grouse Recovery Project	3/6/2007	12/31/2014	Ro602163	\$25,000	4	
Larsen, Randy		Utah Chukar Foundation	Benefits, Impacts, and Proper Spacing of Guzzlers for Chukars	11/1/2012	12/31/2012	Ro502066	\$4,000	4	
Maughan, Jeff		The McKnight Foundation	Validate Innovative Technologies for Quinoa in Bolivia	3/1/2010	6/30/2013	Ro502121	\$15,000	4	
McMillan, Brock		US Army	Small Mammals at U.S. Dugway Proving Ground: Prey-base dynamics and rare species	4/30/2012	6/30/2013	Ro202329	\$25,169	1	
McMillan, Brock		UDWR	Effects of Predator Management on Mule Deer Survival	1/1/2012	12/31/2013	Ro402199	\$129,739	3	
Rogers, Duke		US Army	Genetic Investigation of Desert Shrews from Dugway Proving Ground	2/1/2012	8/1/2015	Ro202356	\$4,180	1	
Roundy, Bruce		USDA-Forest Service	SageSTEP soil moisture station monitoring	10/21/2010	4/30/2015	Ro202327	\$8,485	1	
Smith, Thomas		UDWR	Determining the Status and Trend for Desert Bighorn Sheep in the North San Rafael Swell	1/1/2012	12/31/2013	Ro402200	\$142,498	3	
St. Clair, Sam	w/Aanderud, Zach	USU (NSF)	EPSCOR-iUTAH-innovative Urban Transitions and Aridregion Hydro-sustainability	8/1/2012	7/31/2013	Ro302477	\$78,178	2	
St. Clair, Sam		UDWR	Assessment of disturbance size and ecological conditions on wildlife impacts of aspen regeneration in Utah - Phase 2	7/5/2012	6/30/2013	Ro402208	\$99,129	3	
Stevens, Mikel	w/Geary, Brad	Utah Dept of Ag & Food	Development of Native Plants as Drought Tolerant Ornamental Landscape Plants	1/1/2012	12/31/2013	Ro402198	\$6,873	3	
Stewart, Ryan		USDA-NIFA	Impact and social acceptance of selected sustainable practices in ornamental crop production systems	8/15//2011	8/14/2013	Ro202378	\$1,233,671	1	
Stewart, Ryan		Dine College (USDA)	Seeking food and energy sustainability with succulent plant species	9/1/2012	8/31/2014	Ro302484	\$39,982	2	
Stewart, Ryan		Utah Div of Agriculture	Enhancing suburban landscapes of Utah with uncommon, stress-tolerant fruit trees with ornamental potential	1/1/2012	5/1/2014	Ro402201	\$14,500	3	

Udall, Joshua	USDA-Forest Service	Big Sagebrush DNA Sequencing and Analysis	7/13/2009	6/1/2014	RO202288	\$8,800	1
Udall, Joshua	Iowa State U.(NSF)	Comparative Evolutionary Genomics of Cotton	5/1/2010	2/28/2014	RO302284	\$141,793	2
Udall, Joshua	Utah Dept of Agr & Food	Sequencing the genome of Red Raspberry	10/1/2011	12/31/2013	RO402197	\$6,000	3
Udall, Joshua	Cotton, Inc.	Development and application of next-generation sequence technologies	1/1/2012	12/31/2012	RO602343	\$30,000	4
Udall, Joshua	Cotton, Inc.	Genome Resequencing of Select Cotton Diploid Accessions	1/1/2012	12/31/2012	RO602391	\$2,300	4

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

#### Department Totals

Bean Museum	\$0
Biology	\$2,401,728
Microbiology & Molecular Biology	\$1,059,452
Exercise Science	\$7,000
Health Science	\$70,516
Nutrition, Dietetics & Food Science	\$339,930
Physiology & Developmental Biology	\$896,178
Plant & Wildlife Sciences	\$3,388,813
<b>College Total:</b>	<b>\$8,163,617</b>

# Life Sciences

## Source Breakdown of Grants and Contracts

<b>Sponsor</b>	<b>No. Awarded</b>	<b>Amount</b>
<b>Federal Sponsors</b>		
BLM-Wyoming	2	\$12,000
Forest Service	9	\$465,486
NAS	1	\$59,225
NIH	6	\$1,552,194
NSF	8	\$1,186,756
US Army	6	\$132,785
US Army – Dugway	2	\$310,601
US Dept Interior – BLM	1	\$29,484
US Dept of Interior	1	\$2,000
USDA-NIFA	2	\$1,967,555
USGS	2	\$44,946
<i>Total</i>	40	\$5,763,032
<b>Federal Subcontract Sponsors</b>		
Battelle National Biodefense Institute	1	\$40,986
Dine College (USDA)	1	\$39,982
Florida State U (NIH)	1	\$112,664
Iowa State U (NSF)	1	\$141,793
NIH	1	\$48,466
NSF via USU	1	\$78,178
U of Colorado (NSF)	1	\$38,915
U of U (NIH)	1	\$1,500
USU (NSF)	2	\$156,356
WSU (NSF)	1	\$14,411
<i>Total</i>	11	\$673,251

**State Sponsors**

Colorado Div of Wildlife	2	\$4,422
CUWCD	2	\$58,727
UDWR	11	\$780,545
URM&CC	1	\$65,000
UT Dept. of Ag & Food	4	\$30,907
Utah Div of Agriculture	1	\$14,500
<i>Total</i>	21	\$954,101

**Private Sponsors**

Alpine School District	1	\$24,000
Basic American Foods	2	\$100,000
Cotton, Inc	2	\$32,300
Deseret Meats	2	\$68,770
Doris Duke Charitable Foundation	2	\$49,680
Flight Attendant Medical Research Institute	1	\$108,500
Frost Biologic	1	\$82,500
Grand Canyon Trust	1	\$4,000
Harmony Health	2	\$24,254
IHC	1	\$1,040
LDS Welfare Services	1	\$160,000
Spencer Foundation	1	\$3,000
Sportsmen for Fish and Wildlife	1	\$25,000
The McKnight Foundation	1	\$15,000
TK Biotech	1	\$20,000
U of Colorado	1	\$27,393
U of Pennsylvania (Gates Foundation)	1	\$16,796
USA Track and Field	1	\$7,000
Utah Chukar Foundation	1	\$4,000
<i>Total</i>	24	\$773,233



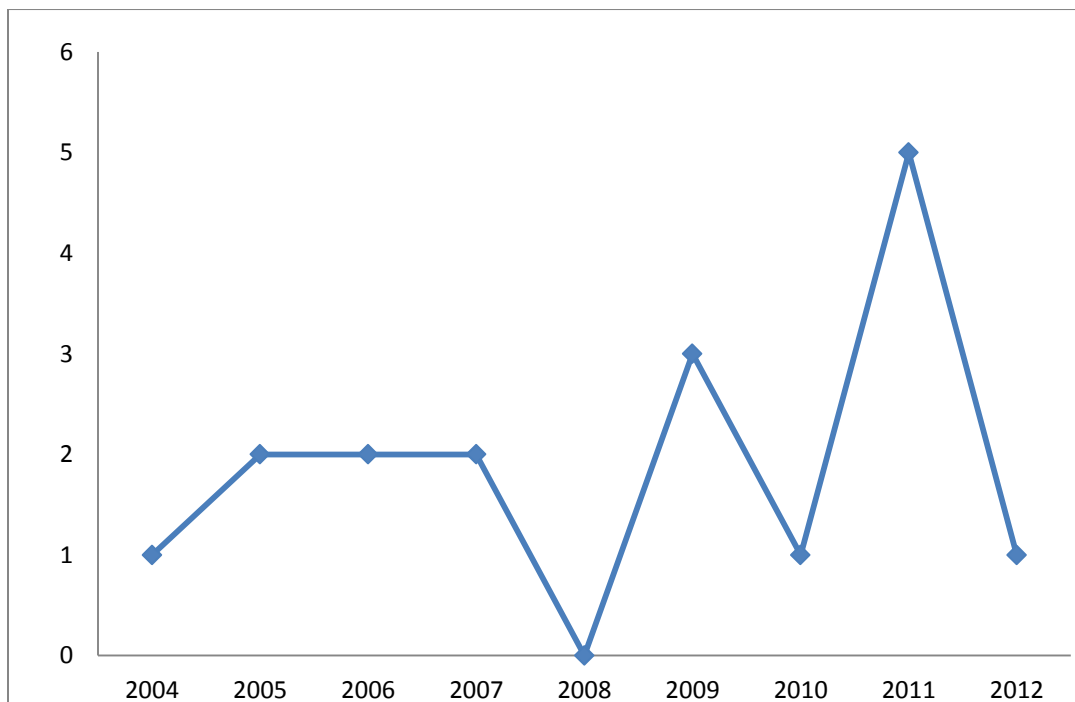
# Marriott School of Management



# 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	0	0	0	\$0
Recreation Management & Youth Leadership	0	0	0	\$0
Romney Inst of Public Management	0	0	0	\$0
School of Accountancy	0	0	1	\$175,321
Information Systems	3	1	0	\$0
<b>TOTALS</b>	<b>3</b>	<b>1</b>	<b>1</b>	<b>\$175,321</b>

## Proposal Submission Activity



# External Research Funding (All Sources)

Year	Grants/Contracts		Total
	Federal/Federal Subcontracts	State/Private	
2003	\$384,700	\$11,850	\$396,550
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



# Marriot School of Management 2012 Awards

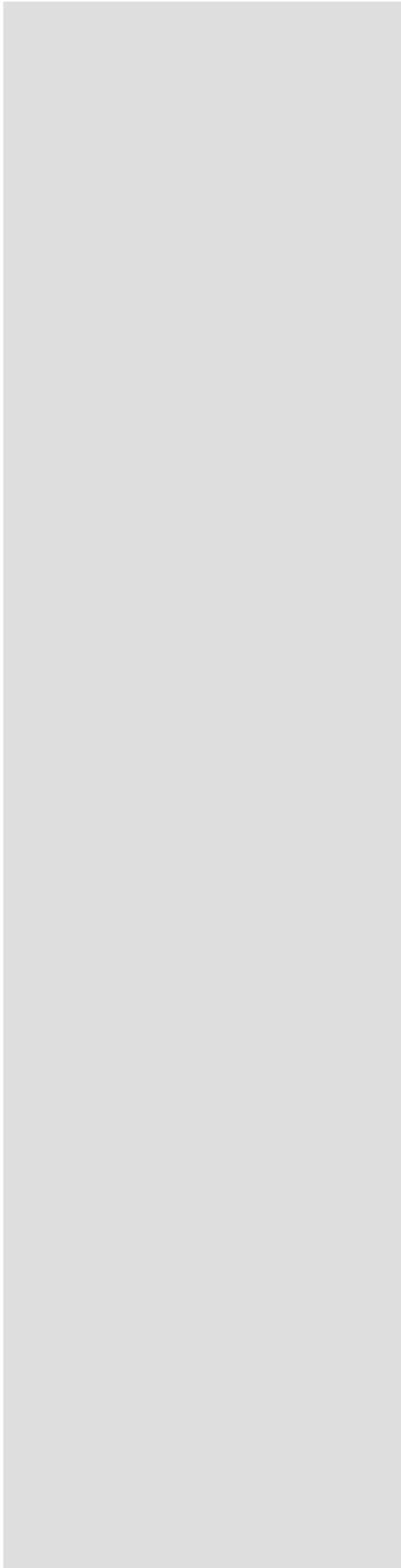
<u>PI</u>	<u>Co-PI</u>	<u>Sponsor</u>	<u>Title</u>	<u>Beg Date</u>	<u>End Date</u>	<u>Account</u>	<u>Amount</u>	<u>Type</u>
<i>School of Accountancy</i>								
Radebaugh, Lee		DoED	CIBER	10/1/2010	9/30/2013	R0132021	\$175,321	1

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

Department Totals	
Center for Economic Development	\$0
Business Management	\$0
Organizational Leadership & Strategy	\$0
Romney Inst of Public Management	\$0
School of Accountancy	\$175,321
Information Systems	\$0
<b>College Total:</b>	<b>\$175,321</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	\$175,321
<i>Total</i>	1	\$175,321
 <b>Subcontracts</b>		
None		
<i>Total</i>		
 <b>State</b>		
None		
<i>Total</i>		
 <b>Private</b>		
None		
<i>Total</i>		

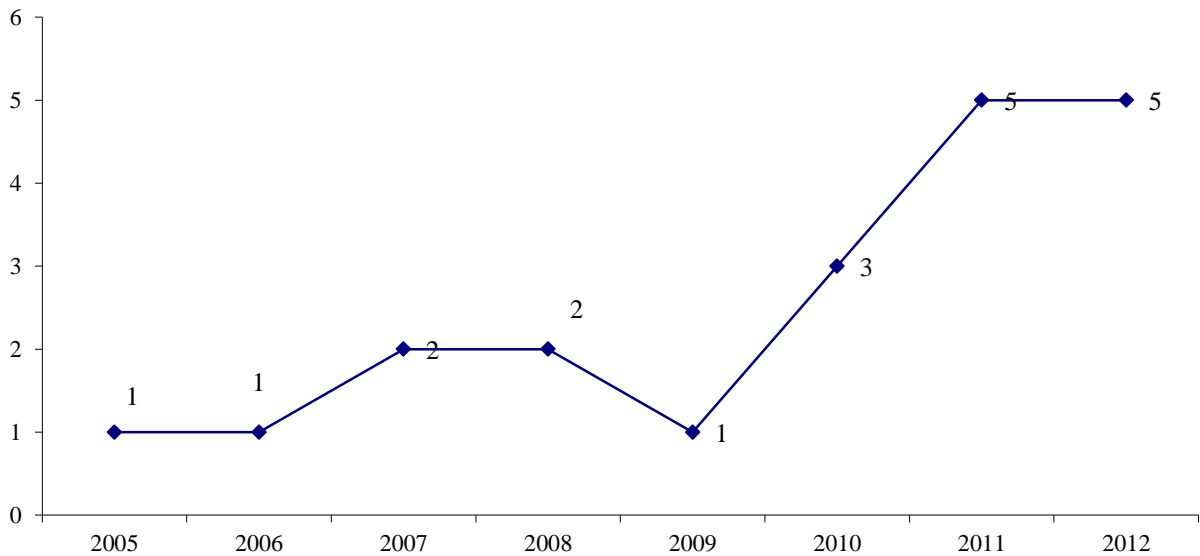


# College of Nursing

# Summary of Sponsored Research (Grants & Contracts)

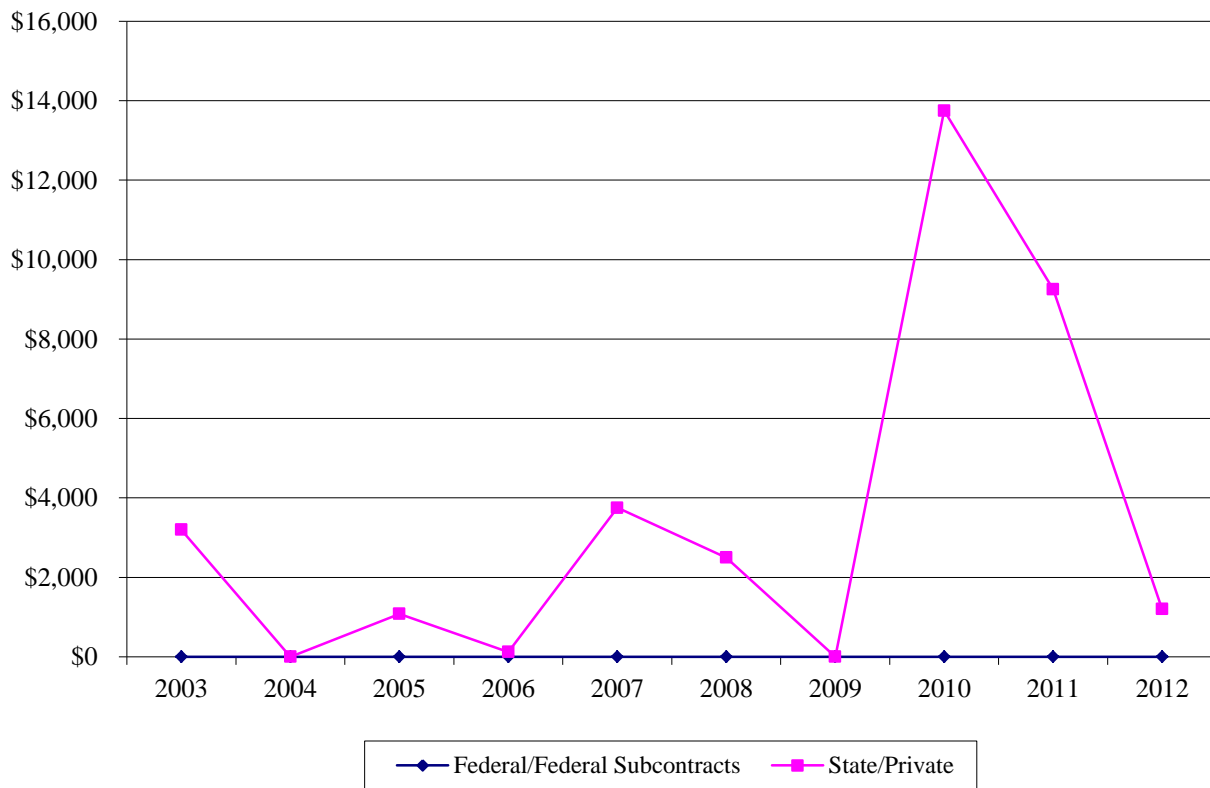
Department	# of Faculty Submitting	# of Proposals Submitted	# of Awards	Dollars Awarded
Nursing	5	5	3	\$1,200
<i>TOTALS</i>	5	5	3	\$1,200

## Proposal Submission Activity



# External Research Funding (All Sources)

Year	Grants/Contracts		Total
	Federal/Federal Subcontracts	State/Private	
2003	\$0	\$3,200	\$3,200
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



# Nursing 2012 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>						
MacIntosh, Janelle	Sigma Theta Tau Intl	Parenting Self-efficacy: the Effects of Incarceration on Maternal Identity	10/1/12	9/30/13	\$500	4
Merrill, Katreena	Sigma Theta Tau Intl	Nursing Research Grant	7/1/12	12/31/12	\$500	4
Palmer, Sheri	IOTA IOTA Chapter	STTI Leadership	10/1/12	10/30/13	\$200	4

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

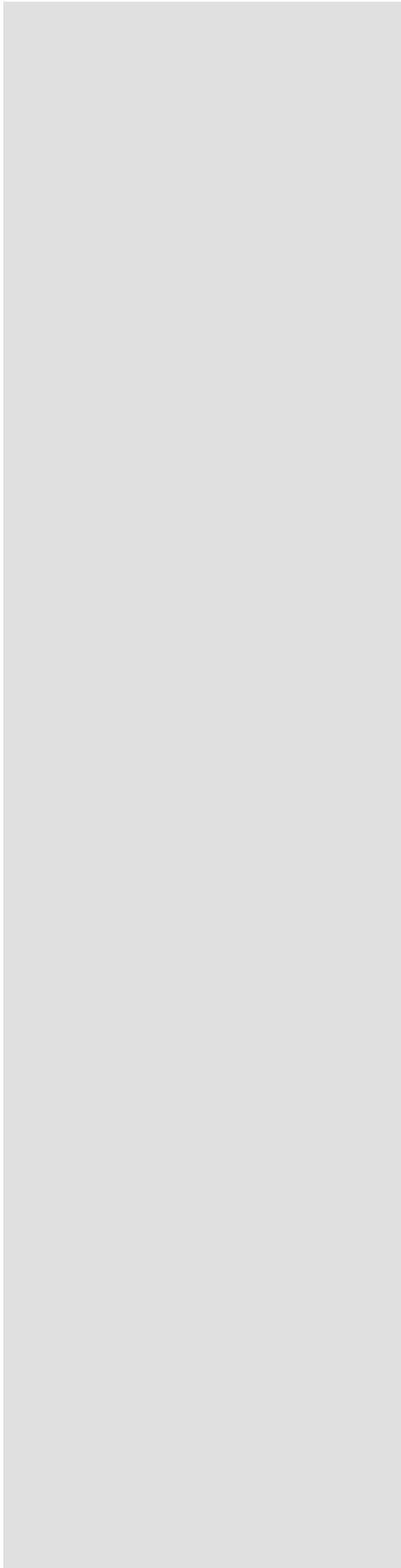
Department Totals		
Nursing		\$1,200
<b>College Total:</b>		<b>\$1,200</b>



# 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>		
Sigma Theta Tau	2	\$1,000
IOTA IOTA Chapter	1	\$200
	<i>Total</i>	_____ \$1,200

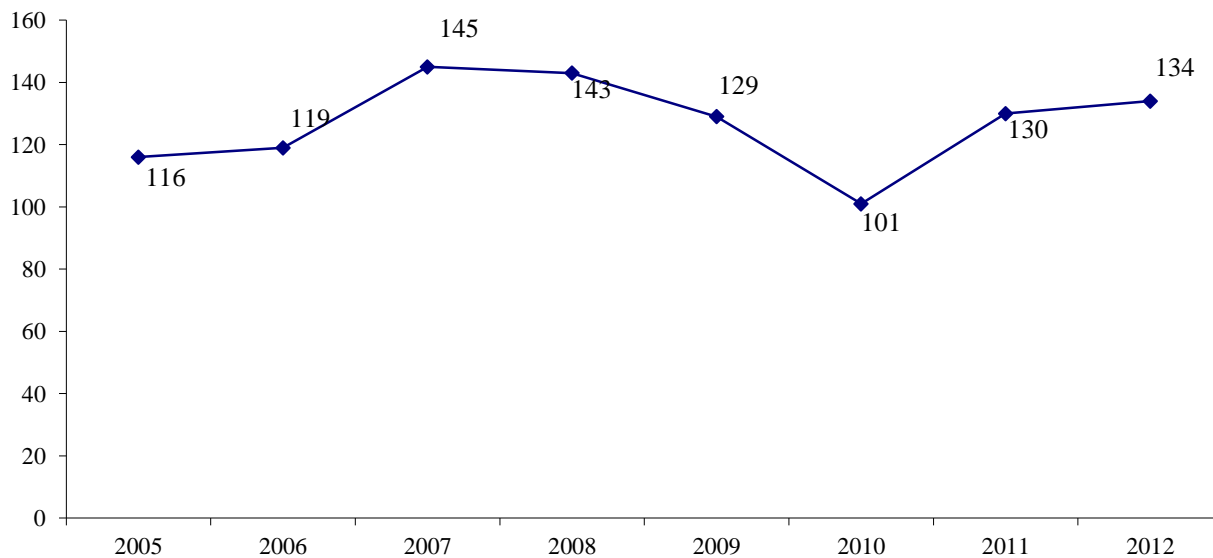


# College of Physical & Mathematical Sciences

# Summary of Sponsored Research (Grants & Contracts)

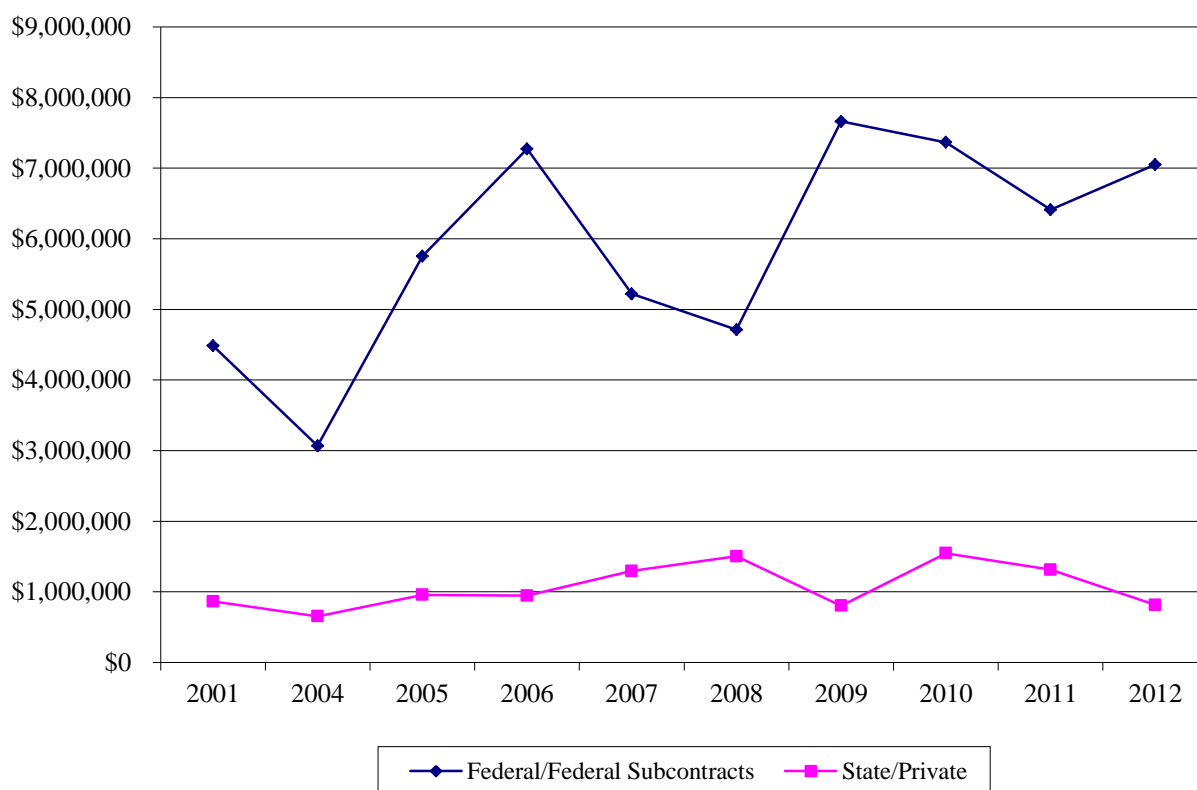
Department	# of Faculty Submitting	# of Proposals Submitted	# of Awards	Dollars Awarded
Chemistry & Biochemistry	24	57	31	\$2,281,534
Computer Science	11	15	7	\$426,318
Earth Science Museum	0	0	0	\$0
Geology	4	6	7	\$430,880
Mathematics	20	26	6	\$1,923,628
Mathematics Education	4	7	4	\$547,184
Physics & Astronomy	18	19	20	\$1,817,820
Statistics	4	4	2	\$435,796
<b>TOTALS</b>	<b>85</b>	<b>134</b>	<b>77</b>	<b>\$7,863,160</b>

## Proposal Submission Activity



# External Research Funding (All Sources)

Year	Grants/Contracts		Total
	Federal/Federal Subcontracts	State/Private	
2003	\$4,447,192	\$915,462	\$5,362,654
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	\$7,863,160



# Physical & Mathematical Sciences 2012 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>								
Austin, Daniel		NASA	Coaxial Ion Trap: Microfabricated Dual Mass Spectrometer for Planetary Exploration	1/18/2012	5/4/2014	R0162009	\$100,590	1
Austin, Daniel		NASA	Coaxial Ion Trap: Microfabricated Dual Mass Spectrometer for Planetary Exploration	5/5/2010	5/4/2014	R0162009	\$121,294	1
Bates, Emily		U of U (DoD)	Examination of Susceptibility of Pain After Trauma	9/30/2011	9/29/2012	R0302451	\$25,000	2
Bates, Emily		U of Utah (DOD)	Susceptibility of Pain After Trauma	9/30/2011	9/29/2013	R0302451	\$25,000	2
Boerio-Goates, Julie	w/ Woodfield, Brian	Cosmas Inc. (NIH)	Synthesis of Metal and Metal Alloy Nanoparticles	1/1/2008	6/30/2014	R0302235	\$84,386	2
Buskirk, Allen		Yale (NIH)	Mechanisms of Ribosomal Reactions: Peptide Bond Formation , Peptide Release and mRNA Cleavage	4/1/2012	1/31/2013	R0302455	\$88,250	2
Ess, Daniel		University of Virginia (DOE)	Quantum Mechanical Calculations of Hydrocarbon C-H Bond	8/1/2011	7/31/2012	R0302428	\$25,000	2
Ess, Daniel		U of VA (DOE)	Center for Catalytic Hydrocarbon Functionalization - EFRC	8/1/2011	7/31/2013	R0302428	\$25,000	2
Farnsworth, Paul		DOE	Ion Production and Transport in Atomspheric Pressure Ion Source Mass Spectrometers	2/1/2012	1/13/2013	R0122003	\$70,000	1
Farnsworth, Paul		DOE	Ion Sampling and Transport in Plasma Source Mass Spectrometers	2/2/2012	1/31/2013	R0122003	\$102,000	1
Farnsworth, Paul		Bruker Corporation	The Use of Laser-Induced Fluorescence to Study Ion Transmission	1/1/2012	12/31/2012	R0602380	\$15,000	4
Graves, Steven		Sera (UT TCIP)	Serum Proteomic Diagnosis of Endometriosis	5/1/2012	4/30/2013	R0482025	\$40,000	3
Hansen, Jaron		Louisville Bioscience, Inc.	Differential Scanning Claorimeter Design for Determining Thermograms of Blood Plasma	11/15/2011	12/31/2012	R0602372	\$4,500	4
Hansen, Jaron		SCE	Identification of Sources of PM2.5 in the Los Angeles Basin	7/30/2012	12/31/2013	R0602398	\$57,971	4
Harrison, Rogers	w/ Lamb, John	Dionex (ThermoFisher)	Macrocycles Based on Ion Chromatography	10/10/2006	6/30/2013	R602198	\$20,250	4
Lamb, John		Dionex (ThermoFisher)	Macrocycles Based on Ion Chromatography	10/10/2006	6/30/2013	R0602198	\$20,250	4
Lee, Milton		Torion Tech	DTRA Salaries	1/1/2012	4/30/2012	R0202080	\$18,756	1
Lee, Milton		Torion	Chemical and Biological Agent Detector	5/1/2012	8/30/2012	R0202080	\$18,596	1
Lee, Milton		Torion	Chemical & Biological Agent Detector	8/1/2003	8/31/2013	R0202080	\$38,727	1
Lee, Milton		Torion Tech	DTRA Supplies	1/1/2012	4/30/2012	R0602103	\$2,500	4

Lee, Milton		Torion	Supplies	5/1/2012	8/30/2012	R0602103	\$2,500	4
Lee, Milton		Torion	High Throughput Chemical Analyzer	3/1/2004	8/31/2013	R0602103	\$5,000	4
Linford, Matt		US Synthetic	Development of Diamond Materials for Chromatography	1/1/2007	12/31/2012	R0602191	\$150,000	4
Savage, Paul		U of Chicago (NIH)	Th1/Th2 Glycolipid Adjuvants	3/31/2008	3/31/2013	R0302055	\$272,070	2
Savage, Paul		Vanderbilt (NIH)	Multifunctional Nanoparticles for Image-Guided Vaccine Delivery in Cancer	4/1/2012	3/31/2013	R0302474	\$24,369	2
Savage, Paul		CIBA Vision	Optimization of CSA structure for incorporation into contact lenses and prevention of bacterial growth	8/24/2010	6/30/2012	R0602330	\$7,500	4
Savage, Paul		N 8 Medical	Tech Transfer Royalty Revenue	5/12/2004	Open	R0802005	\$25,000	4
Savage, Paul		N8 Medical	Royalty payment	5/12/2004	open	R0802005	\$50,000	4
Savage, Paul		N-8 Medical	Royalty Revenue	5/12/2004	12/31/2025	R0802005	\$12,500	4
Spencer, Ross	w/ Farnsworth, Paul	DOE	Ion Production and Transport in Atmospheric Pressure Ion Source Mass Spectrometers	02-01-12	01-13-13	R0122003	\$70,000	1
Watt, Richard		China Lake NWS	Synthesis of Anionic Host Guest Complexes	7/23/2012	7/22/2013	R0202370	\$77,000	1
Willardson, Barry		NIH	Mechanisms of Assembly of Photoreceptor G Protein Complexes	4/1/2012	3/31/2013	R0102053	\$375,000	1
Woodfield, Brian		Cosmas Inc. (NIH)	Synthesis of Metal and Metal Alloy Nanoparticles	1/1/2008	6/30/2014	R0302235	\$84,386	2
Woolley, Adam		NIH	Phase Changing-Sacrificial Layer Microfluidics for Enhanced Protein Analysis	2/1/2012	11/30/2012	R0102023	\$223,139	1
<b>Computer Science</b>								
Clement, Mark		Boston U. (NIH)	Statistical Tools and Methods for Next-Generation Sequencing	10/1/2011	2/28/2013	R0302464	\$30,000	2
Goodrich, Michael		ONR via Carnegie Mellon	Cognitively Compliant Command for Multirobot Teams	7/1/2009	5/31/2012	R0302319	\$48,153	2
Goodrich, Michael		U. Central Florida(ARL)	RCTA-H8 Dynamics of HR Military Teams & Organizations	7/1/2010	6/15/2012	R0302358	\$12,000	2
Goodrich, Michael		TRACLabs(NASA)	Anytime Summarization for Remote Robot Operations	2/13/2012	2/13/2013	R0302465	\$17,468	2
Goodrich, Michael		U. Central Florida (ARL)	RCTA-H8 Dynamics of HR Military Teams & Organizations	7/1/2010	5/31/2013	R0302358	\$64,600	2
Goodrich, Michael	w/McLain, Tim	AAI-Textron	C-UAS Membership (NSF I/UCRC)	5/3/2012	5/4/2013	R0602390	\$10,000	4
Goodrich, Mike	w/McLain, Tim	NSF	I/UCRC Phase I: Center for Unmanned Aircraft Systems, REV	3/1/2012	2/28/2017	R0112200	\$2,667	1
Goodrich, Mike	w/McLain, Tim	NSF	REV Supplement, I/UCRC Phase I: Center for Unmanned Aircraft Systems	8/10/2012	2/28/2017	R0112200	\$6,000	1

Goodrich, Mike	w/ McLain, Tim	NSF	AFRL Munitions Directorate C-UAS Membership	9/1/2012	8/31/2013	R0112221	\$9,957	1
Goodrich, Mike	w/ McLain, Tim	NSF	NASA Dryden C-UAS Membership	9/1/2012	8/31/2013	R0112221	\$9,349	1
Goodrich, Mike	w/McLain, Tim	Insitu, Inc.	C-UAS I/UCRC Membership	9/1/2012	8/31/2013	R0602390	\$10,000	4
Goodrich, Mike	w/McLain, Tim	L-3 Communications	C-UAS I/UCRC Membership	9/1/2012	8/31/2013	R0602390	\$10,000	4
Mercer, Eric	w/McLain, Tim	NSF	I/UCRC Phase I: Center for Unmanned Aircraft Systems, REV	3/1/2012	2/28/2017	R0112200	\$2,666	1
Mercer, Eric		Google	Summer of Code - Mentor Stipends	11/1/2011	12/31/2013	R0602370	\$6,000	4
Morse, Bryan	w/Goodrich, Michael	TRAC Labs(NASA)	Anytime Summarization for Remote Robot Operations	2/13/2012	2/13/2013	R0302465	\$17,468	2
Seppi, Kevin	w/ Beard, Randy	Utopia Compression (AF)	Enhancing Cooperative Controls	5/5/2012	2/28/2013	R0302460	\$22,500	2
Snell, Quinn	w/Clement, Mark	Boston U. (NIH)	Statistical Tools and Methods for Next-Generation Sequencing	10/1/2011	2/28/2013	R0302464	\$30,000	2
Warnick, Sean		AFRL	Fast Non-Invasive Topology Discovery, Geolocation and Intrusion Detection in Networked Systems	8/11/2011	8/11/2013	R0202343	\$69,995	1
Zappala, Daniel	w/Warnick, Sean	AFRL	Fast Non-Invasive Topology Discovery, Geolocation and Intrusion Detection in Networked Systems	8/11/2011	8/11/2013	R0202343	\$69,995	1

### **Geology**

Bickmore, Barry		NSF	Structure and Reactivity at the Mineral-Water Interface	9/15/2012	8/31/2014	R0112222	\$107,745	1
Bickmore, Barry		Univ of Oklahoma (NASA)	Pathways to Mars Analogue Hematite through Nanoparticle Aggregation	5/1/2011	4/30/2012	R0302396	\$23,544	2
Harris, Ron		NSF	Australia Down under: Quantification of Rates and amount of continental subduction	6/15/2010	5/31/2014	R0112164	\$50,996	1
McBride, John		U of Illinois(DOE)	Assessment of the Geological Carbon Sequestration Options in the Illinois Basin: Phase II and Phase III	12/18/2007	4/30/2014	R0302254	\$47,568	2
Radebaugh, Jani		NASA	Climate and Organic Inventory from Dunes on Titan	6/6/2012	6/5/2015	R0162014	\$108,443	1
Rupper, Summer		NSF	Collaborative Research: Annual Satellite era accumulation patterns over WAIS Divide	8/1/2010	7/31/2013	R0112172	\$58,641	1
Rupper, Summer		NSF	Climate and Glacier Change in Bhutan: the last millennia, present, and future	9/1/2012	8/31/2013	R0112220	\$33,943	1

### **Mathematics**

Baker, Roger		NSA	Hooley's Exponential Sum: Primes in Arithmetic Progressions	3/31/2011	4/1/2013	R0202334	\$33,884	1
Conner, Gregory		Simons Foundation	Wild Topology, Attractors and Algebraic Invariants	9/1/2012	8/31/2017	R0502163	\$35,000	4

Dorff, Michael		NSF	MCTP: Center for Undergraduate Research in Mathematics	6/1/2012	5/31/2017	RO112205	\$640,000	1
Fisher, Todd		Simons Foundation	Entropy for Smooth Dynamical Systems	9/1/2012	8/31/2017	RO502162	\$35,000	4
Halverson, Denise	w/Howell, Larry	NSF	EFRI-ODISSEI: Uniting Principles of Folding and Compliant Mechanisms to Create Engineering Systems with Unprecedented Performance	8/1/2012	7/31/2016	RO112215	\$400,000	1
Humpherys, Jeffrey	w/Bickmore, Barry	NSF	Structure and Reactivity at the Mineral-Water Interface	9/15/2012	8/31/2014	RO112222	\$107,744	1
Jarvis, Tyler	w/Dorff, Michael	NSF	MCTP: Center for Undergraduate Research in Mathematics	6/1/2012	5/31/2017	RO112205	\$640,000	1
Purcell, Jessica		NSF	Moab Topology Conference	1/1/2012	3/31/2013	RO112202	\$25,000	1
Swenson, Eric		Simons Foundation	Group Boundary Dynamics	7/1/2011	8/31/2013	RO502143	\$7,000	4

**Mathematics Education**

Corey, Douglas		Harvard (NSF)	Improving Mathematical Knowledge for Teaching	9/1/2009	8/31/2013	RO302311	\$41,178	2
Leatham, Keith		NSF	Developing a Theory of Productive Use of Student Mathematical Thinking	10/1/2012	9/30/2016	RO112223	\$226,909	1
Peterson, Blake	w/Leatham, Keith	NSF	Developing a Theory of Productive Use of Student Mathematical Thinking	10/1/2012	9/30/2016	RO112223	\$226,909	1
Teucher, Dawn		ASU (NSF)	Pathways to Calculus:Disseminating and Scaling a Professional Development model for Algebra	9/1/2011	8/31/2013	RO302470	\$26,461	2
Teuscher, Dawn		ASU (NSF)	Pathways to Calculus: Disseminating and Scaling a Professional Development Model	9/1/2011	8/31/2012	RO302470	\$25,727	2

**Physics & Astronomy**

Bergeson, Scott		AFRL	Reaching Higher Gammain Ultracold Neutral Plasmas through Disorder-induced Heating Control	6/1/2012	5/31/2015	RO202364	\$220,999	1
Bergeson, Scott		NSF	Dynamics of Ultra Cold Neutral Plasmas in the first 100 ns	9/1/2010	8/31/2013	RO112173	\$120,000	1
Colton, John		ASU (NSF)	Electron Spin Lifetimes in Quantum Dots	5/1/2012	7/31/2012	RO302472	\$756	2
Davis, Robert		NSF	Carbon Nanotube Templated Battery Electrodes	6/15/2012	5/31/2015	RO112211	\$116,667	1
Davis, Robert		Moxtek	X-ray windows and filters	1/4/2012	5/31/2012	RO602313	\$35,639	4
Davis, Robert		Moxtek	X-ray Windows and Filters	4/27/2009	11/30/2012	RO602313	\$35,695	4
Davis, Robert		Moxtek	X-Ray windows and filters	8/1/2012	4/30/2013	RO602313	\$35,053	4
Durfee, Dallin		NSF	Matterwave Interferometry with Ions	8/15/2012	7/31/2015	RO112217	\$75,102	1



Gee, Kent		ONR	Detailed characterization of the near-field noise environment from a full-scale jet	1/17/2012	7/31/2013	R0202349	\$10,000	1
Gee, Kent		ONR	Detailed characterization of the near-field noise environment from a full-scale jet	3/7/2012	7/31/2013	R0202349	\$12,706	1
Gee, Kent		NASA(Blue Ridge Research)	Energy-based Acoustic Measurement System for Rocket Noise	6/30/2011	5/31/2012	R0302399	\$50,000	2
Gee, Kent		Blue Ridge Research & Consulting (NASA)	Energy-Based Acoustic Measurement System for Rocket Noise	6/30/2011	5/31/2013	R0302399	\$16,667	2
Gee, Kent	w/Sommerfeldt, Scott	Intel	Active Noise Control For Notebook Fan Noise	5/18/2010	1/31/2012	R0602298	\$11,288	4
Hart, Gus		NSF	Materials World Network: Discovering Novel Alloys via a Combined Computational and experimental Approach	9/1/2009	3/30/2014	R0112154	\$120,000	1
Hintz, Eric	w/Moody, J. Ward	NSF(WAESO-ASU)	Monitoring Suspected Neutron Stars and Black Holes Variability	1/1/2012	8/31/2012	R0302453	\$378	2
Hirschmann, Eric		NSF	Dynamics and Gravitational Wave Production of Neutron Stars and Black Holes	7/2/2012	8/31/2013	R0112177	\$60,000	1
Leishman, Timothy	w/Sommerfeldt, Scott	Caterpillar	Improved Acoustical Measurement Techniques	3/1/2011	12/31/2012	R0602358	\$26,154	4
Migenes, Victor		ASU (NSF)	MASERS: Probing Astrophysical Environments	5/1/2012	8/31/2012	R0302471	\$756	2
Moody, J. Ward		NSF(WAESO-ASU)	Monitoring Suspected Neutron Stars and Black Holes Variability	1/1/2012	8/31/2012	R0302453	\$378	2
Neilsen, Tracianne	w/Gee, Kent	ONR	Detailed characterization of the near-field noise environment from a full-scale jet	1/17/2012	7/31/2013	R0202349	\$10,000	1
Neilsen, Tracianne	w/Gee, Kent	ONR	Detailed characterization of the near-field noise environment from a full-scale jet	3/7/2012	7/31/2013	R0202349	\$12,706	1
Neilsen, David	w/Hirschmann, Eric	NSF	Dynamics and Gravitational Wave Production of Neutron Stars and Black Holes	7/2/2012	8/31/2013	R0112177	\$60,000	1
Rees, Lawrence		U. of Michigan (Homeland Security)	New Detectord, Electronics, and Algorithms for Fast Neutron Spectroscopy	9/1/2011	8/31/2012	R0302425	\$57,900	2
Sommerfeldt, Scott	w/Gee, Kent	Blue Ridge Research & Consulting (NASA)	Energy-Based Acoustic Measurement System for Rocket Noise	6/30/2011	5/31/2013	R0302399	\$16,666	2
Sommerfeldt, Scott		Caterpillar	Improved Acoustical Measurement Techniques	3/1/2011	12/31/2012	R0602358	\$26,154	4
Sommerfeldt, Scott		Intel	Active Noise Control For Notebook Fan Noise	5/18/2010	1/31/2012	R0602298	\$11,289	4
Spencer, Ross L.	w/Turley, R. Steven	NSF	REU Site: Physics Research at Brigham Young University	5/1/2012	4/30/2015	R0112204	\$225,908	1
Turley, R. Steven		NSF	REU Site: Physics Research at Brigham Young University	5/1/2012	4/30/2015	R0112204	\$225,908	1

Vanfleet, Richard	w/Davis, Robert	NSF	Carbon Nanotube Templated Battery Electrodes	6/15/2012	5/31/2015	R0112211	\$116,666	1
Vanfleet, Richard	w/Davis, Robert	Moxtek	X-ray windows and filters	1/4/2012	5/31/2012	R0602313	\$35,638	4
Vanfleet, Richard	w/Davis, Robert	Moxtek	X-ray Windows and Filters	4/27/2009	11/30/2012	R0602313	\$35,695	4
Vanfleet, Richard	w/Davis, Robert	Moxtek	X-Ray windows and filters	8/1/2012	4/30/2013	R0602313	\$35,052	4
<b>Statistics</b>								
Dahl, David		NIH	Non parametric Bayesian Approaches to Modeling Protein Structure	7/1/2012	4/30/2013	R0102061	\$350,796	1
Engler, David		NIH	Novel Approaches for the Modeling of Disease Progression in MS	4/15/2012	3/31/2013	R0102058	\$85,000	1

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

Department Totals	
Chemistry & Biochemistry	\$2,281,534
Computer Science	\$426,318
Earth Science Museum	\$0
Geology	\$430,880
Mathematics	\$1,923,628
Mathematics Education	\$547,184
Physics & Astronomy	\$1,817,820
Statistics	\$435,796
<b>College Total:</b>	<b>\$7,863,160</b>

# Physical & Mathematical Sciences

## Source Breakdown of Grants and Contracts

<b>Sponsor</b>	<b>No. Awarded</b>	<b>Amount</b>
<b>Federal Sponsors</b>		
AFRL	3	\$360,989
China Lake NWS	1	\$77,000
DOE	3	\$242,000
NASA	3	\$330,327
NIH	4	\$1,033,935
NSA	1	\$33,884
NSF	25	\$3,668,777
ONR	4	\$45,412
Torion	3	\$76,079
<i>Total</i>	47	\$5,868,403
<b>Federal Subcontract Sponsors</b>		
ASU (NSF)	4	\$53,700
Blue Ridge Research & Consulting (NASA)	1	\$33,333
Boston U. (NIH)	1	\$60,000
Cosmas Inc. (NIH)	1	\$168,772
Harvard (NSF)	1	\$41,178
NASA (Blue Ridge Research)	1	\$50,000
NSF (WAESO-ASU)	1	\$756
Carnegie Mellon (ONR)	1	\$48,153
TRAC Labs (NASA)	1	\$34,936
U of Chicago (NIH)	1	\$272,070
U of Illinois (DOE)	1	\$47,568
U of U (DoD)	2	\$50,000
U of VA (DOE)	2	\$50,000
U of Central Florida (ARL)	2	\$76,600
U of Michigan (Homeland Security)	1	\$57,900
U of Oklahoma (NASA)	1	\$23,544
Vanderbilt (NIH)	1	\$24,369
Yale (NIH)	1	\$88,250
<i>Total</i>	24	\$1,181,129
<b>State Sponsors</b>		
Sera (UT TCIP)	1	\$40,000
<i>Total</i>	1	\$40,000
<b>Private Sponsors</b>		
AAI-Textron	1	\$10,000
Bruker Corp	1	\$15,000
Caterpillar	1	\$52,308
CIBA Vision	1	\$7,500
Dionex (ThermoFisher)	1	\$40,500
Google	1	\$6,000
Insitu, Inc.	1	\$10,000
Intel	1	\$22,577

L-3 Communications	1	\$10,000
Louisville Bioscience, Inc.	1	\$4,500
Moxtek	3	\$212,772
N-8 Medical	3	\$87,500
SCE	1	\$57,971
Simons Foundation	3	\$77,000
Torion	3	\$10,000
US Synthetic	1	\$150,000
<i>Total</i>	24	\$773,628

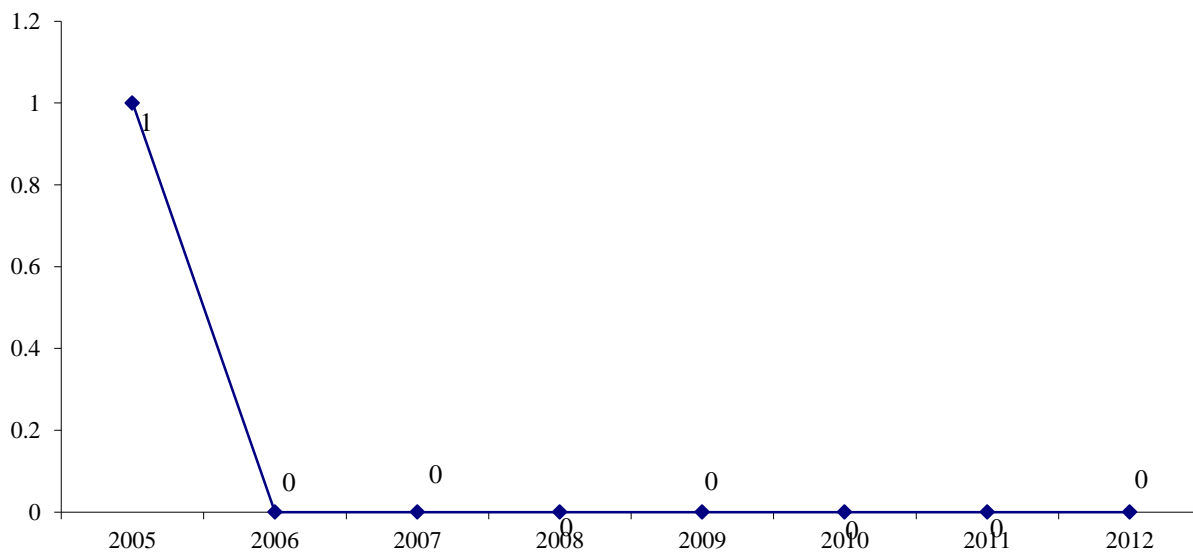


# Religious Education

# Summary of Sponsored Research (Grants & Contracts)

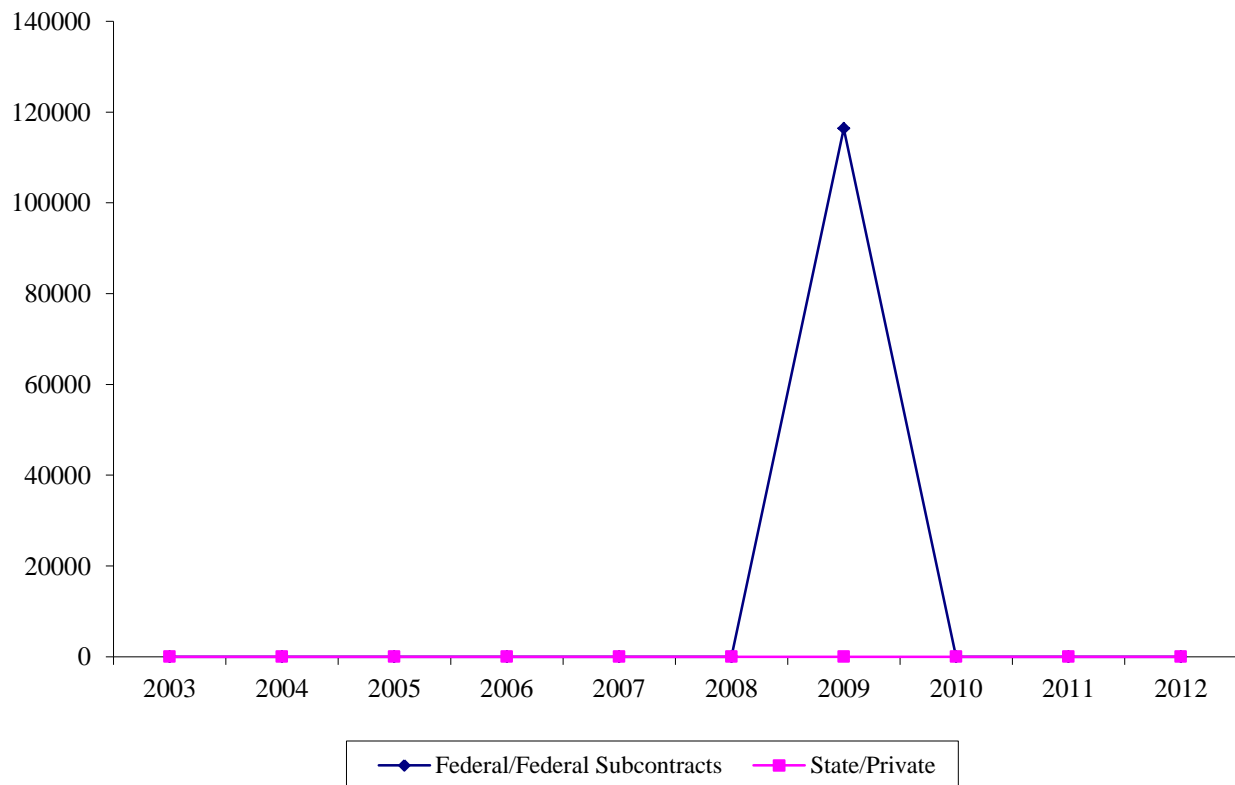
Department	# of Faculty Submitting	# of Proposals Submitted	# of Awards	Dollars Awarded
Ancient Scripture	0	0	0	\$0
Church History & Doctrine	0	0	0	\$0
<i>TOTALS</i>	0	0	0	\$0

## Proposal Submission Activity



# External Research Funding (All Sources)

Year	Grants/Contracts		Total
	Federal/Federal Subcontracts	State/Private	
2003	\$0	\$0	\$0
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



# Religious Education 2012 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
<b>College Total:</b>	<b>\$0</b>



# 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>	

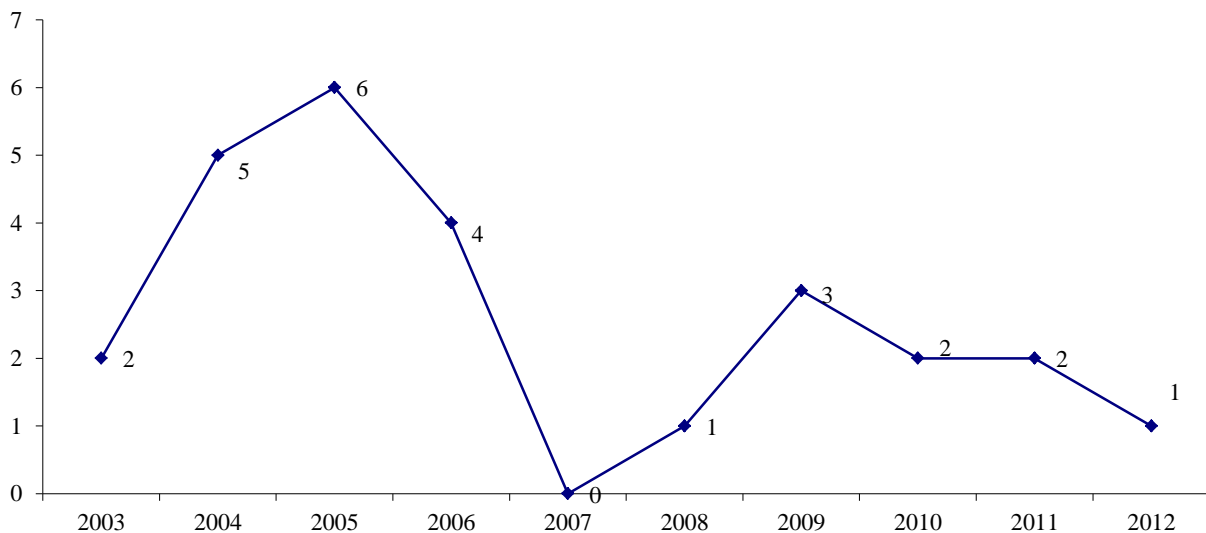


# Non-College Units

# Summary of Sponsored Research (Grants & Contracts)

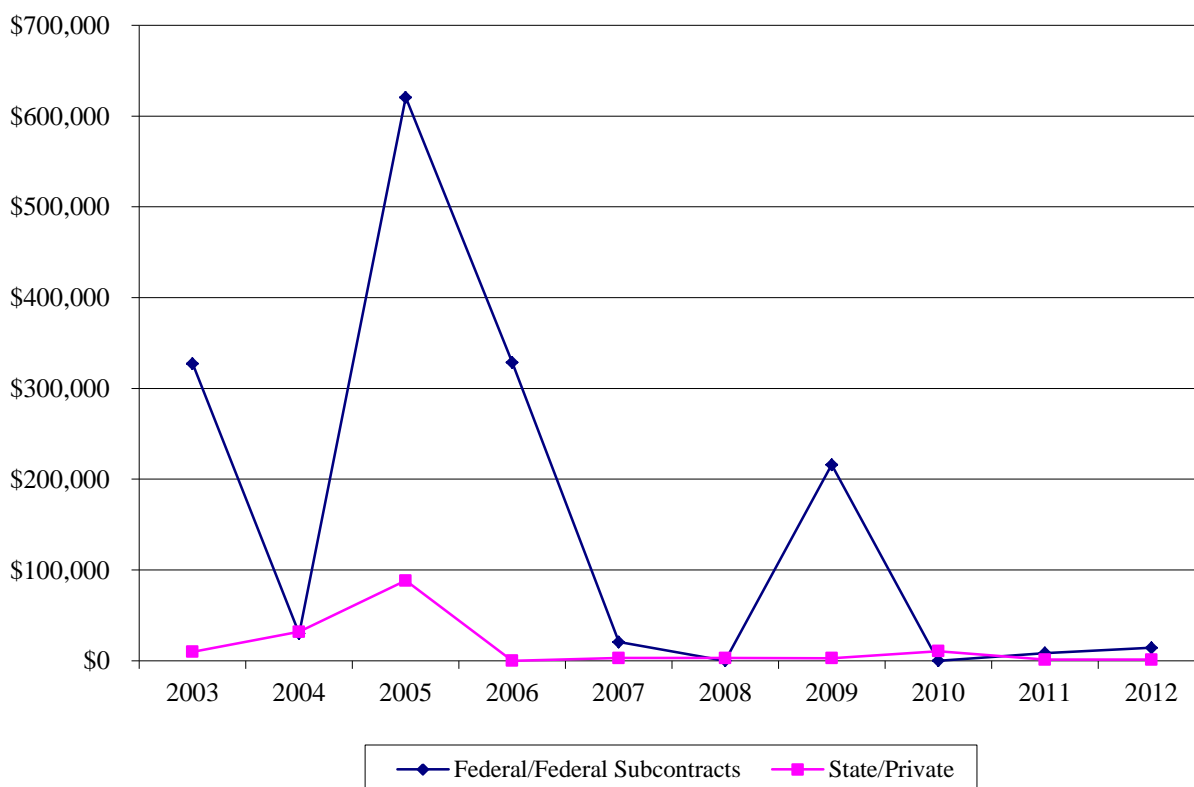
Department	# of Proposals Submitted	# of Awards	Dollars Awarded
Academic Internship	0	0	\$0
Admissions & Records	0	0	\$0
Associate Academic Vice President	0	0	\$0
Center for Instructional Design	0	0	\$0
Center for Service and Learning	0	0	\$0
Church Educational System	0	0	\$0
Faculty Center	0	0	\$0
General 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
Student Life	1	0	\$0
Jacobsen Center	0	0	\$0
Media Services	0	0	\$0
Office of Research and Creative Activities	0	6	\$15,661
Technology Transfer	0	0	\$0
University Accessibility Center	0	0	\$0
University Computing Services	0	0	\$0
<b>TOTALS</b>	<b>1</b>	<b>6</b>	<b>\$0</b>

## Proposals Submitted



# External Research Funding (All Sources)

Year	Grants/Contracts		Total
	Federal/Federal Subcontracts	State/Private	
2003	\$327,250	\$10,000	\$337,250
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



# Non-College Units 2012 Awards

<i>ORCA</i>	<u>PI</u>	<u>Sponsor</u>	<u>Title</u>	<u>Beg. Date</u>	<u>End Date</u>	<u>Amount</u>	<u>Type</u>
	Garrett, Sandra		Lost Paws	Pre-vet Preceptorship	1/1/2012	9/30/2013	4
	Garrett, Sandra		Lost Paws	Lost Paws Pre- vet	3/20/2012	9/30/2013	4
	Garrett, Sandra		Lost Paws	Pre-vet Preceptorship	4/13/2012	9/30/2013	4
	Garrett, Sandra		Lost Paws	Preceptorship Veterinarian Course	1/1/2005	9/30/2013	4
	Garrett, Sandra		Lost Paws	Pre-vet Preceptorship	1/1/2007	9/30/2013	4
	Reynolds, Gary		NIST	NIST Summer Undergraduate Research Fellowships	5/1/2012	9/30/2012	1

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

## Department Totals

Academic Internship	\$0
Admissions & Records	\$0
Associate Academic Vice President	\$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
Student Life	\$0
Office of Research and Creative Activities	\$15,661
Jacobsen Center	\$0
Media Services	\$0
Technology Transfer	\$0
University Accessibility Center	\$0
University Computing Services	\$0
<b>College Total:</b>	<b>\$15,661</b>

# Non-College Units

## Source Breakdown of Grants and Contracts

<b>Sponsor</b>	<b>Number Awarded</b>	<b>Total Amount</b>
<b>Federal</b>		
NIST	1	\$14,281
<i>Total</i>	1	\$14,281
<b>Subcontracts</b>		
None	0	\$0
<i>Total</i>	0	\$0
<b>State</b>		
None		
<i>Total</i>		
<b>Private</b>		
Lost Paws	5	\$1,380
<i>Total</i>	5	\$1,380



# 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 2012 through December 2012 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 2012 membership and activities are on subsequent pages.

**The Institutional Review Board (IRB)** is responsible for the review of all human subjects research conducted at BYU, or conducted elsewhere by University faculty, staff, or students. The members who sit on the IRB recognize that ethical research carries the dual burden to advance knowledge that can improve the human condition or generate new knowledge and, at the same time, to treat human research subjects with the utmost care and respect.

The IRB seeks to create a collaborative relationship with the research community to assure that research with human subjects is conducted in accordance with federal regulations and basic ethical principles.

**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.

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<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 2012 are summarized by the following table.

## IRB Protocol Activity 2012

College	New Protocols	Continuing Protocols
McKay School of Education	84	30
Fulton College of Engineering & Technology	5	4
Fine Arts & Communications	22	0
Family Home & Social Sciences	165	83
Humanities	47	15
LSCI	65	34
LAW	2	1
Marriott School of Management	35	16
Nursing	16	11
Physical & Mathematical Sciences	10	15
Religious Education	2	1
Non-College Units	25	35
<b><i>TOTALS</i></b>	<b>468</b>	<b>235</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 2012 are summarized by the following table.

## IACUC Protocol Activity 2012

College	New Approvals	Continuing	Pending
E&T	0	0	0
FHSS	4	2	0
LSCI	39	47	3
P&MS	4	4	2
ORCA	0	1	0
<b>TOTALS</b>	47	54	5

# 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 four new projects reviewed by the BioSafety Committee during the 2012 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>
2012	Tom Fletcher
2011	Scott Sommerfeldt
2010	Barry Willardson
2009	Keith Crandall
2008	Paul Savage

## ***Intellectual Properties***

<i><b>Year</b></i>	<i><b>Recipient</b></i>
2012	Tom Sederberg
2011	Daniel Simmons
2010	Kent Seamons
2009	Barry M. Lunt and Matthew R. Linford
2008	Lynn V. Ogden

# 2012 Mentoring Environment Grant Recipients

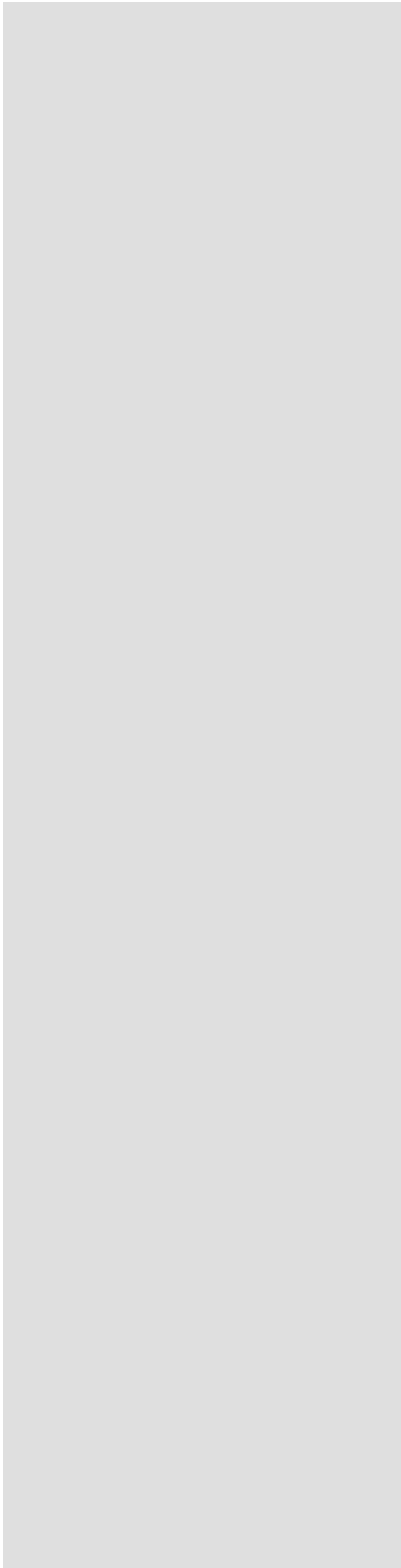
The grant proposals are first reviewed at the department and college levels. Following those reviews, a group of faculty representing various disciplines across campus gives a final review where they compare protocols to each other based on how well they incorporate the desired goals and elements of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

<u>Recipient</u>	<u>Department</u>	<u>College</u>
William Pitt	CHEME	E&T
John Hedengren	CHEME	E&T
Bradley Bundy	CHEME	E&T
Steven Charles	ME	E&T
Dale Rowe	TECH	E&T
Ellie Young	SP&SE	EDUC
Mark Beecher	SP&SE	EDUC
Melissa Heath	SP&SE	EDUC
Timothy Smith	SP&SE	EDUC
Jared Johnson	COMM	FA&C
Megan Sanborn Jones	TMA	FA&C
Robert Barrett	VA	FA&C
Joseph Price	ECON	FHSS
Kerk Phillips	ECON	FHSS
Chad Emmett	GEOG	FHSS
Daniel Nielson	POLISCI	FHSS
David Magleby	POLISCI	FHSS
Joel Selway	POLISCI	FHSS
Michael Findley	POLISCI	FHSS
Michael Larson	PSYCH	FHSS
Patrick Steffen	PSYCH	FHSS
Scott Steffensen	PSYCH	FHSS
Kevin Shafer	SW	FHSS
Benjamin Gibbs	SOC	FHSS
Robert Belnap	A&NEL	HUM
Michelle James	G&SL	HUM

Steven Sondrup	HUM	HUM
Marvin Gardner	LING	HUM
Norman Evans	LING	HUM
Nieves Knapp	S&P	HUM
Shima Baradaran	LAW	LAW
David Day	LIB	LIB
Jerald Johnson	BIO	LSCI
John Kauwe	BIO	LSCI
Richard Gill	BIO	LSCI
Cougar Hall	HSCI	LSCI
Michael Barnes	HSCI	LSCI
Randy Page	HSCI	LSCI
Bradford Berges	M&MB	LSCI
Kim O'Neill	M&MB	LSCI
Laura Bridgewater	M&MB	LSCI
Julianne Grose	M&MB	LSCI
Richard Robison	M&MB	LSCI
Chad Hancock	ND&FS	LSCI
David Kooyman	P&DB	LSCI
Dixon Woodbury	P&DB	LSCI
Jeff Edwards	P&DB	LSCI
David Thomson	P&DM	LSCI
David Busath	P&DM	LSCI
John Bell	P&DM	LSCI
Paul Reynolds	P&DM	LSCI
Joshua Udall	P&WS	LSCI
Peter Maughan	P&WS	LSCI
Anthony Vance	IS	MSM
Peter Madsen	OL&S	MSM
Karen Lundberg	NURS	NURS
Erin Maughan	NURS	NURS
Karlen Luthy	NURS	NURS
Katreena Merrill	NURS	NURS
Ron Ulberg	NURS	NURS
James Patterson	CHMBIO	P&MS

Steven Castle	CHMBIO	P&MS
Charles Knutson	CS	P&MS
Mark Clement	CS	P&MS
John McBride	GEOL	P&MS
Stephen Nelson	GEOL	P&MS
Summer Rupper	GEOL	P&MS
Greg Conner	MATH	P&MS
Eric Hintz	P&A	P&MS
John Colton	P&A	P&MS
Thomas Wayment	AS	REL





# Student Recognition

# 2012 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>).

Student		Mentor		Department
First Name	Last Name	First Name	Last Name	
Mallory	Hales	David	Whitchurch	Ancient Scripture
Madison	Mercer	Michael	Searcy	Anthropology
John	Whitton	Jacob	Hickman	Anthropology
Kirk	Hepburn	Charles	Nuckolls	Anthropology
Kaitlin	Patterson	Charles	Nuckolls	Anthropology
Colleen	McDermott	Charles	Nuckolls	Anthropology
Timothy	Boyer	Donald	Forsyth	Anthropology
Andrew	Pieper	Charles	Nuckolls	Anthropology
Hilary	Munger	Jacob	Hickman	Anthropology
Belinda	Ramirez	Jacob	Hickman	Anthropology
Mo	Lee	John	Kauwe	Biology
James	Leavitt	Michael	Whiting	Biology
SunYeong	Oh	Dennis	Shiozawa	Biology
Brian	Melville	Beverly	Roeder	Biology
Jesse	Cobell	John	Kauwe	Biology
Alan	Colver	Keith	Crandall	Biology
Michael	Peterson	John	Kauwe	Biology
Maren	Ettinger	Keith	Crandall	Biology
Steven	Nevers	Keith	Crandall	Biology
Liahona	Hamblin	Jamie	Jensen	Biology
Cory	Jones	Keith	Crandall	Biology
Krista	Klingler	John	Kauwe	Biology
David	Morris	Keith	Crandall	Biology
Warren	Chatwin	Leigh	Johnson	Biology
Preston	Wilson	Russel	Rader	Biology
Holly	Waddel	Clinton	Whipple	Biology
Tanner	Cox	John "Keoni"	Kauwe	Biology
Michael	McEntire	Jerald	Johnson	Biology
Nathan	Howe	Dennis	Shiozawa	Biology
Sarah	Karlinsey	Richard	Gill	Biology

Lidan	Xu	Ryan	Elder	Business Management
Andrew	Broadbent	Daniel	Simmons	Chemistry & Biochemistry
Benjamin	VanLeeuwen	Allen	Buskirk	Chemistry & Biochemistry
Matthew	McDowell	Allen	Buskirk	Chemistry & Biochemistry
Preston	Stewart	Daniel	Ess	Chemistry & Biochemistry
Curtis	Allred	Merritt	Andrus	Chemistry & Biochemistry
Joseph	Mosley	Jaron	Hansen	Chemistry & Biochemistry
Jacob	Hedelius	David	Dearden	Chemistry & Biochemistry
Neil	Anderson	Adam	Woolley	Chemistry & Biochemistry
Joshua	Browning	Allen	Buskirk	Chemistry & Biochemistry
Diana	Valverde	Allen	Buskirk	Chemistry & Biochemistry
Elizabeth	Montgomery	Brent	Top	Church History & Doctrine
Charles	Wilson	Jeffrey	Chadwick	Church History & Doctrine
Taylor	Whitmer	Bonnie	Brinton	Communication Disorders
Bryan	Lovgren	Kevin	Kelly	Communications
Whitney	Evans	Joel	Campbell	Communications
Benjamin	Tengelsen	Richard	Evans	Economics
Jason	Despain	Eric	Eide	Economics
David	Mauler	James	McDonald	Economics
Jacqueline	Andros	Joseph	Price	Economics
Stephen	Richards	Eric	Eide	Economics
Wayne	Sandholtz	Joseph	Price	Economics
Craig	Palsson	Joseph	Price	Economics
Susanne	McGann	Gregory	Clark	English
Jacob	Sherman	Nancy	Christiansen	English
Danielle	Leavitt	Patrick	Madden	English
Nicholas	Jones	Lance	Larsen	English
Andrew	Wiggins	Brandie	Siegfried	English
Jonathan	Garcia	Susan	Howe	English
Jacob	Cutler	Patrick	Madden	English
Trent	Leinenbach	Stephen	Tuttle	English
Jordan	Pitt	Matt	Seeley	Exercise Sciences
David	Chinn	Matthew	Seeley	Exercise Sciences
Kelsey	Simons	Tony	Brown	German and Russian
Benjamin	Jones	Mark	Grover	Harold B. Lee Library
Aileen	Christensen	Paul	Kerry	History
Shayla	Sturgess	Kirk	Larsen	History
Nanci	Johnson	Mark	Choate	History
Michael	Hoopes	Evan	Ward	History
Robert	Christensen	Jeffrey	Shumway	History
Jacob	Glenn	Andrew	Johns	History

Bradley	Kime	Paul	Kerry	History
Joseph	Seeley	Kirk	Larsen	History
Brock	Mason	John	Welch	Law School
Aubri	LeBaron	Sheli	Sillito	Organizational Leadership and Strategy
Lyndon	Garrett	Curtis	LeBaron	Organizational Leadership and Strategy
Emily	Warren	Curtis	LeBaron	Organizational Leadership and Strategy
Kurt	Gee	Jeff	Wilks	School of Accountancy
Matthew	Starliper	David	Wood	School of Accountancy
Daniel	Stephens	David	Wood	School of Accountancy
Jordan	Hatch	Geralyn	Giovannetti	School of Music
Bethany	Richards	Jerry L.	Jaccard	School of Music
Karissa	Baker	Jerry L.	Jaccard	School of Music
Catherine	Golding	Jerry L.	Jaccard	School of Music
Christy	Ripa	Jerry L.	Jaccard	School of Music
Alisha	Peterson	Paul	Adams	Visual Arts
Kevin	Nemelka	James	Swensen	Visual Arts
Katie	Dooley	Daniel	Barney	Visual Arts
Kevin	Merriman	Ryan	Woodward	Visual Arts
Diana	Lauritzen	James	Swensen	Visual Arts
Renee	Bates	Robert	Barrett	Visual Arts
Sarah	Theurer	Mark	Graham	Visual Arts
Brandon	Berrett	Sharon	Gray	Visual Arts
Karen	McKay	Mark	Graham	Visual Arts
Joshua	Talbot	Robert	Barrett	Visual Arts
Chrisanne	Hernandez	Robert	Barrett	Visual Arts
Leah	Beckwith	Shani	Robison	Dance
Lee	Hinkle	Gove	Allen	Information Systems
Sarah	Carrigan	James	Swensen	Art History
Jacob	Adams	Ryan	Jensen	Geography
Nathan	Gill	Matthew	Bekker	Geography
Nathan	Jensen	Frost	Steele	Nutrition, Dietetics and Food Science
JiSu	Park	Merrill	Christensen	Nutrition, Dietetics and Food Science
Michael	Stallings	Chad	Hancock	Nutrition, Dietetics and Food Science
Kelsey	Holloway	Francesca	Lawson	Humanities, Classics, and Comparative Literature
Claire	Monson	Roger	Macfarlane	Humanities, Classics, and Comparative Literature
John	Stout	Aaron	Hawkins	Electrical and Computer Engineering
Sara	Ehlert	Aaron	Hawkins	Electrical and Computer Engineering
Bradley	Whitaker	Stephen	Schultz	Electrical and Computer Engineering
Shiul	Khadka	Brian	Mazzeo	Electrical and Computer Engineering

Charles	Richards	Hans- Wilhelm	Kelling	German and Russian
Camila	TrujilloMedina	Michelle	James	German and Russian
Lauren	Teusch	Robert	McFarland	German and Russian
Alexander	Smith	Michelle	James	German and Russian
Matisse	Hales	Mark	Purves	German and Russian
Hyuna	Kim	Laura	Smith	German and Russian
Mack	Whitehead	Tony	Brown	German and Russian
David	Sabey	Jennifer	Bown	German and Russian
Ruth	Dittli	Randall	Lund	German and Russian
Vitalijs	Sadovskis	Grant	Lundberg	German and Russian
Kelley	Manning	Laura	Smith	German and Russian
Menghsuan	Tsai	Brian	Poole	Microbiology & Molecular Biology
Jared	Lambert	Brian	Poole	Microbiology & Molecular Biology
Andrew	Gessel	Julianne	Grose	Microbiology & Molecular Biology
Michael	Daetwyler	Richard	Robison	Microbiology & Molecular Biology
Stephanie	Carlson	Brad	Berges	Microbiology & Molecular Biology
Kylie	Measom	Kim	O'Neill	Microbiology & Molecular Biology
Jordan	Mackay	Julianne	Grose	Microbiology & Molecular Biology
Rodney	Till	Brian	Poole	Microbiology & Molecular Biology
Jamie	Gardiner	Brad	Berges	Microbiology & Molecular Biology
Kaitlyn	Vance	Eric	Wilson	Microbiology & Molecular Biology
Alicia	Brighton	Julianne	Grose	Microbiology & Molecular Biology
Mary	Rennick	Brent	Nielsen	Microbiology & Molecular Biology
Marinya	Roznik	Brian	Poole	Microbiology & Molecular Biology
Brittany	Kartchner	Eric	Wilson	Microbiology & Molecular Biology
Julie	Roberts	Steven	Johnson	Microbiology & Molecular Biology
Marshall	Sheide	Brad	Berges	Microbiology & Molecular Biology
Peter	Janzen	Eric	Wilson	Microbiology & Molecular Biology
Jessica	Engle	Richard	Robison	Microbiology & Molecular Biology
Stanton	Nielsen	Bradford	Berges	Microbiology & Molecular Biology
Jordan	Mabey	Brian	Poole	Microbiology & Molecular Biology
Tacie	Hall	Julianne	Grose	Microbiology & Molecular Biology
Brian	Earley	Laura	Bridgewater	Microbiology & Molecular Biology
German	Cuadra	Bradford	Berges	Microbiology & Molecular Biology
Jennifer	Blanchard	Scott	Steffensen	Psychology
Peter	Nielson	Scott	Steffensen	Psychology
Adam	Smith	Scott	Steffensen	Psychology
Andrew	Welch	Scott	Steffensen	Psychology
Benjamin	Carter	Scott	Steffensen	Psychology
Paul	Chamberlain	Mikle	South	Psychology

Michael	Munafo	Scott	Steffensen	Psychology
Tiffani	Newton	Mikle	South	Psychology
Jocelyn	Raphael	Larry	St. Clair	Monte L. Bean Museum
Jared	Crossley	Jim	Jacobs	Teacher Education
Laura	Boone	Donna	Freeborn	Nursing
Jordyn	Whiting	Shelly	Reed	Nursing
Shannon	McOmber	Barbara	Mandleco	Nursing
Nathan	Wiley	Beth	Luthy	Nursing
Laura	Gilpin	Barbara	Heise	Nursing
Cami	Schiel	Leslie	Miles	Nursing
Julius	Adebayo	Sean	Warnick	Computer Science
James	Jensen	Mark	Clement	Computer Science
Denna	Lawrence	Sean	Warnick	Computer Science
Nathan	Woodbury	Sean	Warnick	Computer Science
Kimberly	Orton	Christophe	Giraud-Carrier	Computer Science
Ashlee	Manwaring	Janelle	Macintosh	Nursing
Brooke	Alleger	Debra	Wing	Nursing
Robert	Richards	Christopher	Karpowitz	Political Science
Matthew	Frei	Quin	Monson	Political Science
Jessica	Biggs	Christopher	Karpowitz	Political Science
Madeleine	Gleave	Daniel	Nielson	Political Science
Kurt	Hepler	Nicholas	Wheeler	Political Science
Scott	Jackson	Joshua	Gubler	Political Science
Nicholas	Jones	Darren	Hawkins	Political Science
Taylor	Bambas	Chris	Karpowitz	Political Science
Nicole	Taylor	Joel	Selway	Political Science
Ryan	Bakow	Daniel	Nielson	Political Science
Megan	Spencer	Michael	Findley	Political Science
John	Harris	Wade	Jacoby	Political Science
Brooke	DanielsBrown	Jared	Warren	Psychology
Elizabeth	Hoose	Jeffrey	Reber	Psychology
Sarah	White	Mikle	South	Psychology
Whitney	Worsham	Michael	Larson	Psychology
Carrolyn	McMurdie	Sam	Hardy	Psychology
Daniel	Bjornn	Michael	Larson	Psychology
Quentin	Smith	Brock	Kirwan	Psychology
Frank	Bright	Jeffrey	Reber	Psychology
Spencer	Liebel	Michael	Larson	Psychology
Spencer	Anderson	Sam	Hardy	Psychology
Samuel	Shin	Scott	Steffensen	Psychology
Rick	Stone	Brock	Kirwan	Psychology

Brigham	Breton	Patrick	Steffen	Psychology
Hannah	Page	J. Dee	Higley	Psychology
Andrew	Joy	Jeffrey	Martin	School of Music
Lee	Jacobsen	John	Hedengren	Chemical Engineering
Casey	Abbott	John	Hedengren	Chemical Engineering
Geoffrey	Lemon	Randy	Lewis	Chemical Engineering
Troy	Holland	Brad	Bundy	Chemical Engineering
Savannah	Herdegen	Brad	Bundy	Chemical Engineering
Chad	Varner	Brad	Bundy	Chemical Engineering
Matt	Burnham	Brad	Bundy	Chemical Engineering
Trevor	Seegmiller	Calvin	Bartholomew	Chemical Engineering
Sarah	Holden	Michael	Bush	Language Studies
Hayley	Heath	Renata	Forste	Sociology
Aaron	Miles	Benjamin	Gibbs	Sociology
Leslie	Cooper	Stephen	Bahr	Sociology
Ashley	Dymock	Tim	Heaton	Sociology
Dylan	Lubbe	Mikaela	Dufur	Sociology
Heather	Williams	Mikaela	Dufur	Sociology
Joseph	Blanch	Carol	Ward	Sociology
Daniel	Willey	Sarah	Coyne	Family Studies
Melissa	Manwill	Robert	Barrett	Illustration & Fine Art
Soljee	Lee	Robert	Barrett	Illustration & Fine Art
Kimberly	Merkley	Cindy	Brewer	Romney Institute of Public Management
Ryan	Woodbury	Sam	Hardy	Psychology
Gwen	Coulson	Scott	Braithwaite	Psychology
Andrew	Jackson	Geoff	Wright	Chemical Engineering
Andrew	Hoffman	Lawrence	Rees	Physics & Astronomy
Holly	Mumford	Eric	Hintz	Physics & Astronomy
David	Hart	Kent	Gee	Physics & Astronomy
Jordan	Tanner	Lawrence	Rees	Physics & Astronomy
Daniel	Thrasher	Scott	Bergeson	Physics & Astronomy
Stephen	Clouse	Victor	Migenes	Physics & Astronomy
Matthew	Rytting	Karine	Chesnel	Physics & Astronomy
Benjamin	Christensen	Kent	Gee	Physics & Astronomy
Kyle	Zufelt	Robert	Davis	Physics & Astronomy
Jarom	Jackson	Dallin	Durfee	Physics & Astronomy
Drake	Ranquist	Victor	Migenes	Physics & Astronomy
Thomas	Gappmayer	Mark	Pollei	Harold B. Lee Library
Beau	Hilton	Jeremy	Grimshaw	School of Music
Desiree	Gonzalez	Jeffrey	Shumway	Piano & Organ Studies
Benjamin	Black	Masakazu	Watabe	Japanese and Comparative Literature

Mariah	Chambers	Brooks	Britt	Geology
Charles	Ankenman	Dale	Pratt	Spanish and Portuguese
Brian	Holt	Dennis	Tolley	Statistics
Jared	Fisher	Gilbert	Fellingham	Statistics
Joseph	Kannan	Tim	Threlfall	Theatre & Media Arts
Douglas	Olsen	Troy	Streeter	Theatre & Media Arts
Jacob	Johnson	Dean	Duncan	Theatre & Media Arts
Gabrielle	Cunningham	Barta	Heiner	Theatre & Media Arts
David	Macdonald	Robert	Seegmiller	Physiology & Developmental Biology
Tyler	Goodell	Ron	Harris	Geology
Jayde	Shackett	Andrea	Knestel	School of Accountancy
Tenli	Waters	W. Spencer	Guthrie	Civil & Environmental Engineering
Lisa	Gurney	W. Spencer	Guthrie	Civil & Environmental Engineering
Clancy	Black	Grant	Schultz	Civil & Environmental Engineering
Kimberly	Stevens	Scott	Thomson	Mechanical Engineering
Braden	Hancock	Christopher	Mattson	Mechanical Engineering
Ryan	Anderson	Mark	Colton	Mechanical Engineering
Weston	Baxter	Dale	Tree	Mechanical Engineering
Trevor	Terrill	Matthew	Jones	Mechanical Engineering
Suman	Pokharel	Matthew R.	Jones	Mechanical Engineering
Brianna	Roth	Tina	Dyches	Counseling Psychology and Special Education
Angelina	Schwartz	Eric	Homer	Mechanical Engineering
Joshua	Hernandez	Steven	Charles	Mechanical Engineering
Samuel	Henderson	David	Fullwood	Mechanical Engineering
Garrett	Dorman	Steven	Charles	Mechanical Engineering
Matthew	Cook	Timothy	Smith	Counseling Psychology and Special Education
Adele	Lopez	Paul	Jenkins	Mathematics
Abraham	Frandsen	Michael	Dorff	Mathematics
Rachel	Suggs	Tyler	Jarvis	Mathematics
Jeremiah	Bejarano	Jeffrey	Humpherys	Mathematics
Darrell	Roundy	Steven	Petersen	Plant & Wildlife Sciences
Aaron	Nordin	Bradley	Geary	Plant & Wildlife Sciences
Joshua	Nicholson	Brad	Geary	Plant & Wildlife Sciences
Skyler	Greenman	Bret	Swan	School of Technology
Justin	Stark	William	Eggington	Linguistics
Nathan	Glenn	Deryle	Lonsdale	Linguistics
Roseanna	Hopper	Janis	Nuckolls	Linguistics
Randall	Meister	David	Eddington	Linguistics
Marco	Mora	Heather	Willson	Linguistics
Christina	Champenois	Doris	Dant	Linguistics
Alex	Jennings	Wendy	Baker Smemoe	Linguistics



Ryan	Williamson	Jeff	Edwards	Physiology & Developmental Biology
Kate	Erickson	Benjamin	Bikman	Physiology & Developmental Biology
Stephanie	Melchor	John	Bell	Physiology & Developmental Biology
Adam	Field	Jeffrey	Edwards	Physiology & Developmental Biology
Jason	Burton	Marc	Hansen	Physiology & Developmental Biology
Jacob	Hoj	Marc	Hansen	Physiology & Developmental Biology
Lisa	McCoy	David	Thomson	Physiology & Developmental Biology
Phillip	Beck	Robert	Seegmiller	Physiology & Developmental Biology
David	Marriott	Jeffrey	Edwards	Physiology & Developmental Biology
Jamie	Twiggs	Robert	Seegmiller	Physiology & Developmental Biology
Timothy	McClain	David	Busath	Physiology & Developmental Biology
Trevor	Anderson	David	Busath	Physiology & Developmental Biology
Spencer	Bell	Jeffrey	Edwards	Physiology & Developmental Biology
Jason	Farrell	Robert	Seegmiller	Physiology & Developmental Biology



# 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.

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**Title: Personnel**

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<b>Director:</b>	<b>Gary R. Reynolds</b>
<b>Associate Director:</b>	<b>Gene Larson</b>
<b>Research Administrator:</b>	<b>Debbie Silversmith</b>
<b>Research Administrator:</b>	<b>Sandee Munoz</b>
<b>Office Manager/Secretary:</b>	<b>Courtney Bulsiewicz</b>
<b>Part-time Secretaries:</b>	<b>Tyler Robertson, Lisa Roper</b>
<b>Web Site Administrator:</b>	<b>Steven Nevers</b>

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## 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—Export Controls

RCR – NSF

E-Verify

FCOI

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)