


# 2010 Annual Report Of Sponsored Research

## Office of Research and Creative Activities



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Brigham Young University

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# Preface

This report covers January 1, 2010 to December 31, 2010.

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

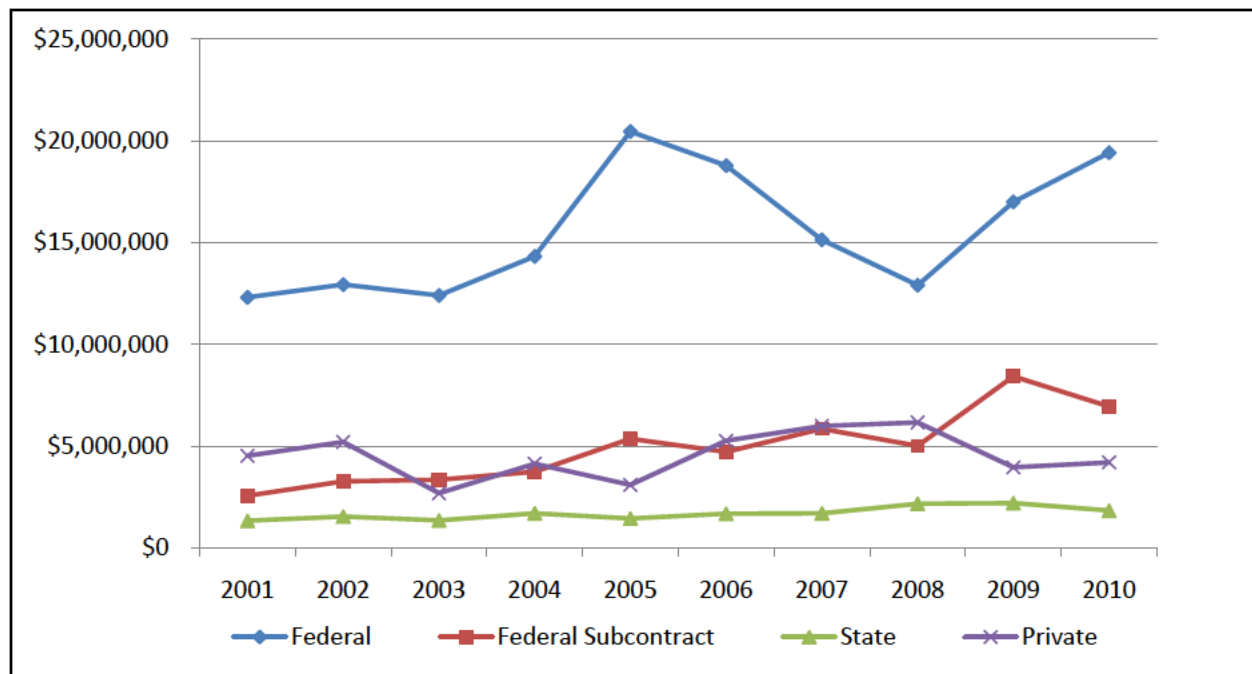
- *Reports of Sponsored Programs:* Sponsored programs at BYU are those funded by external sources through ORCA. They are largely research projects, but many include programs that are designed to develop or support instructional or service activities. Support for creative activities such as performance,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



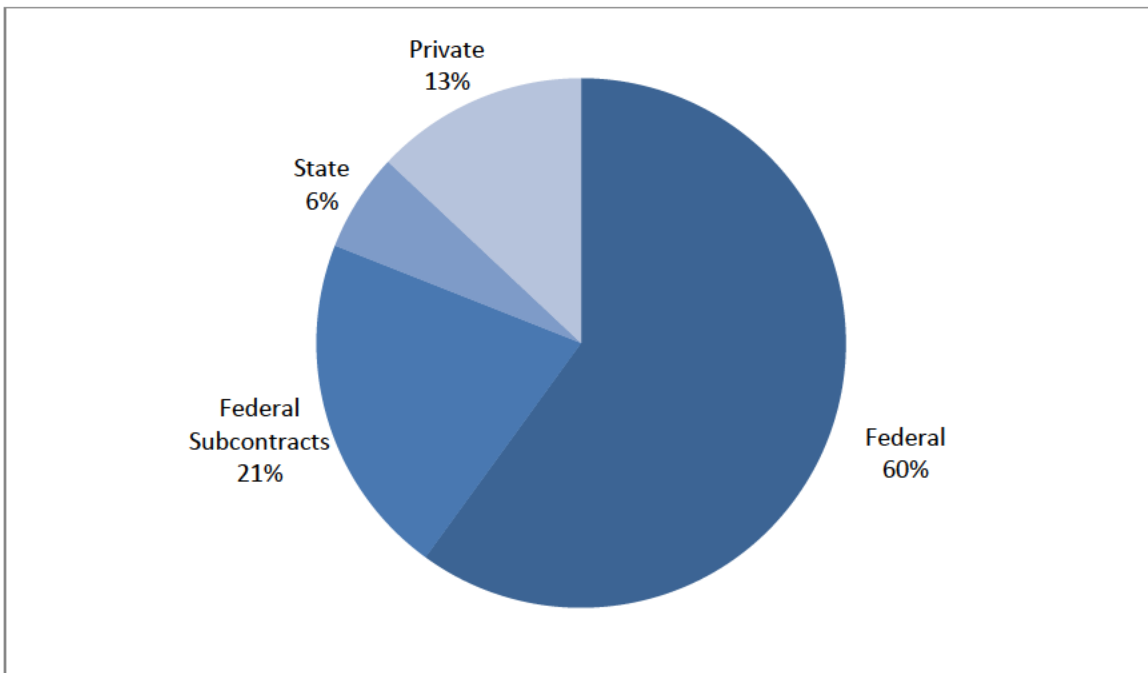
# External Research Funding

Grants/Contracts						
Year	Federal	Federal Subcontract	State	Private	Total	%Federal
2001	\$12,319,534	\$2,560,829	\$1,336,012	\$4,526,380	\$20,742,755	72%
2002	\$12,942,472	\$3,271,259	\$1,547,471	\$5,210,390	\$22,971,592	71%
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	60%



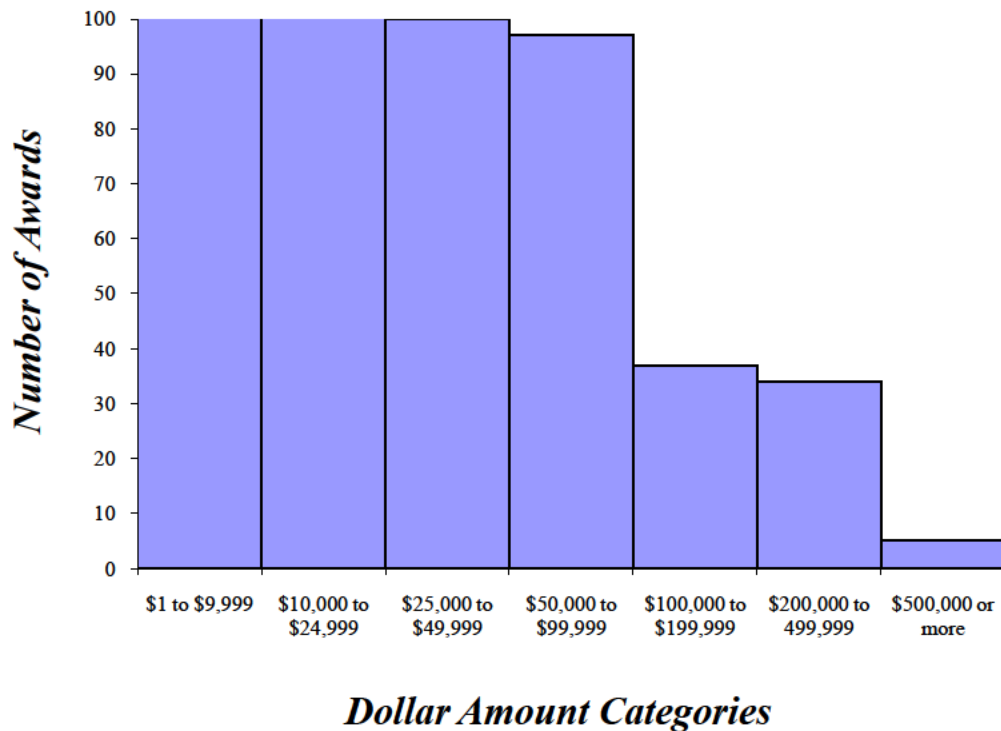
# External Funds by Source—2010

Source	Amount	% of Total
Federal	\$19,425,099	60%
Federal Subcontracts	\$6,949,059	21%
State	\$1,839,689	6%
Private	\$4,208,063	13%
<i>Total Funding</i>	\$32,419,910	100%

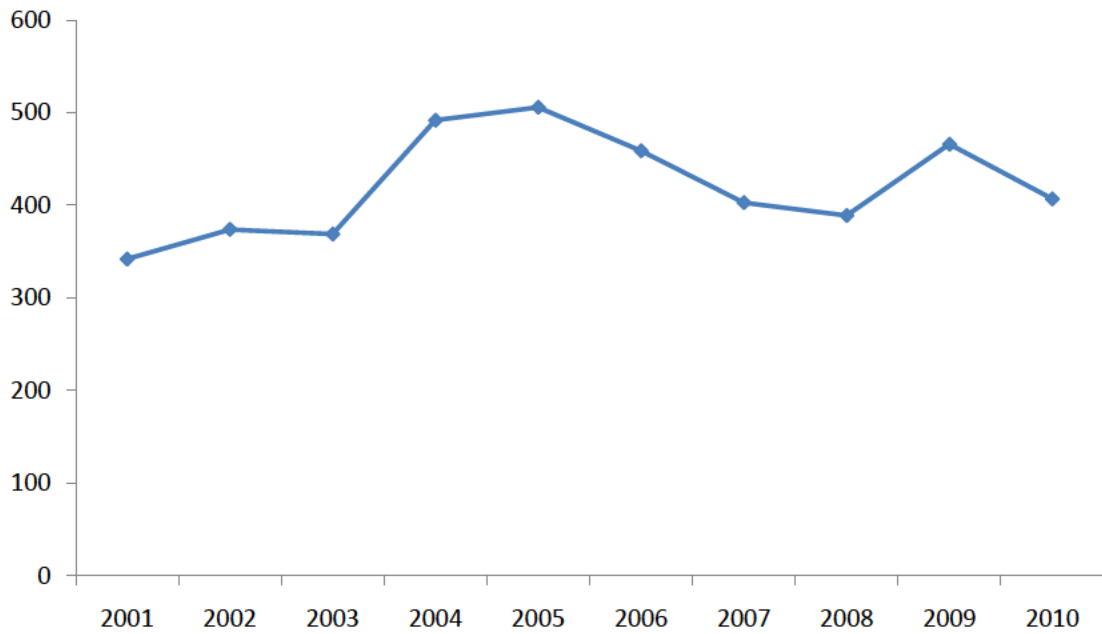


# Grant/Contract Awards by Amount—2010

Dollar Amount Categories	# of Awards	% of Total Awards by #	\$ Awards	% of Total Awards by \$ Amount
\$1 to \$9,999	116	23%	\$547,187	2%
\$10,000 to \$24,999	113	23%	\$1,798,672	6%
\$25,000 to \$49,999	100	20%	\$3,652,676	11%
\$50,000 to \$99,999	97	19%	\$6,884,236	21%
\$100,000 to \$199,999	37	7%	\$5,085,598	16%
\$200,000 to \$499,999	34	7%	\$10,405,387	32%
more than \$500,000	5	1%	\$4,046,154	12%
<b>Totals</b>	<b>502</b>	<b>100%</b>	<b>\$32,419,910</b>	<b>100%</b>



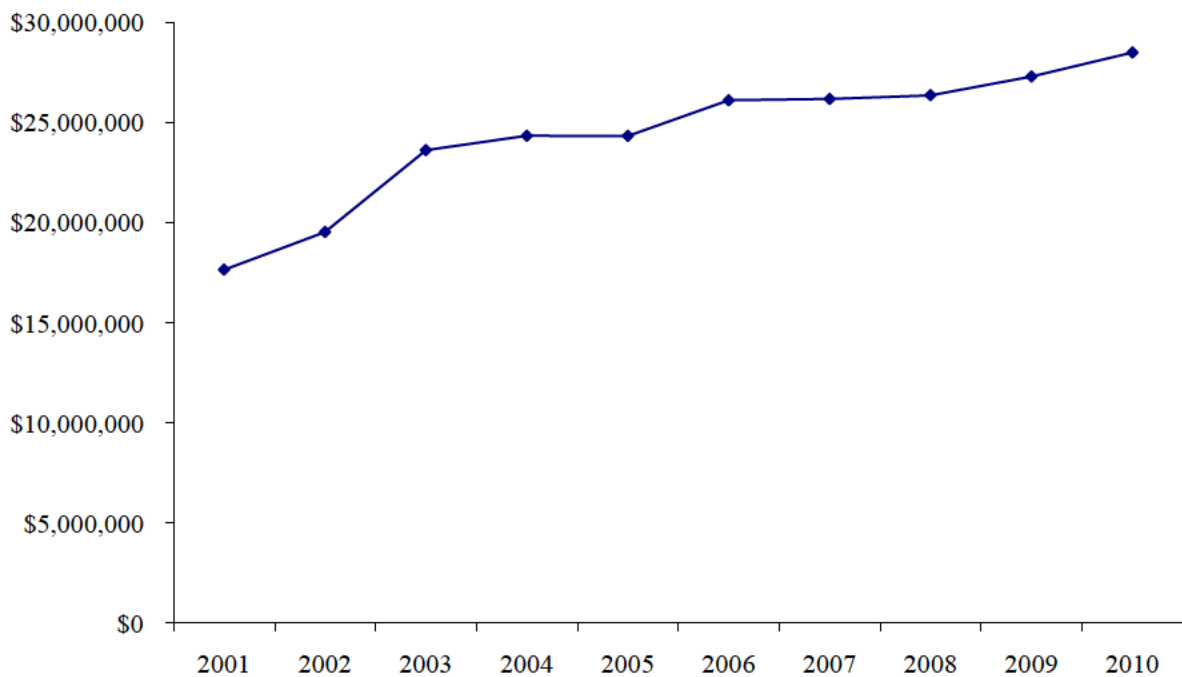
# Proposals Submitted





# Total Expenditures (Grants and Contracts)

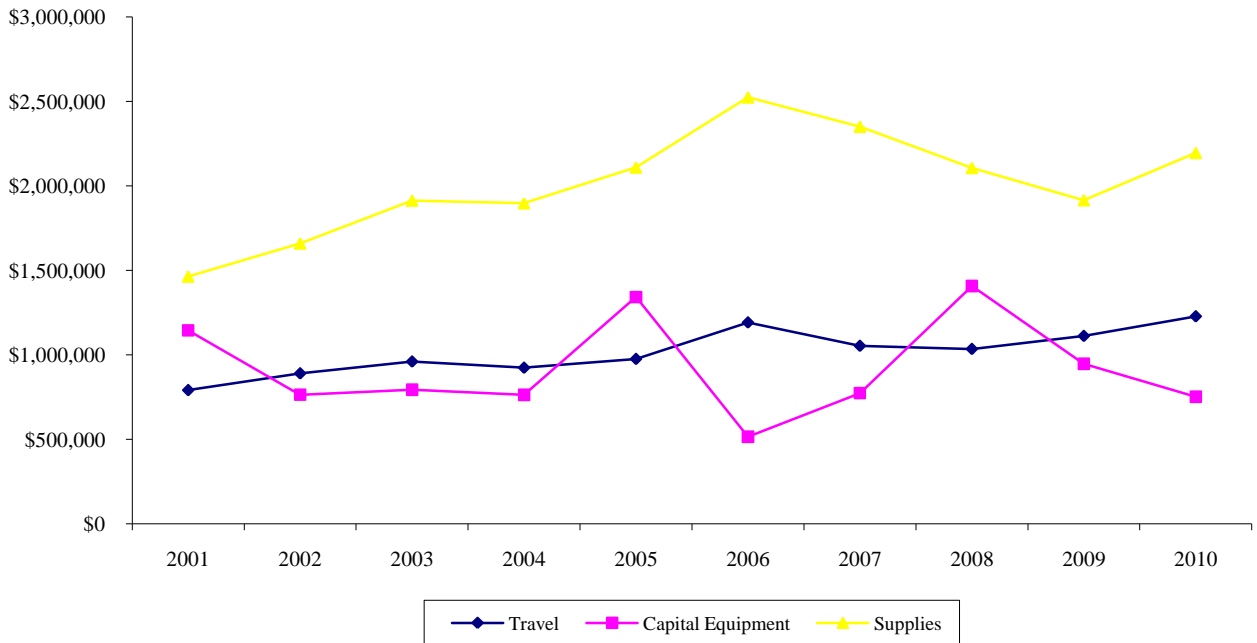
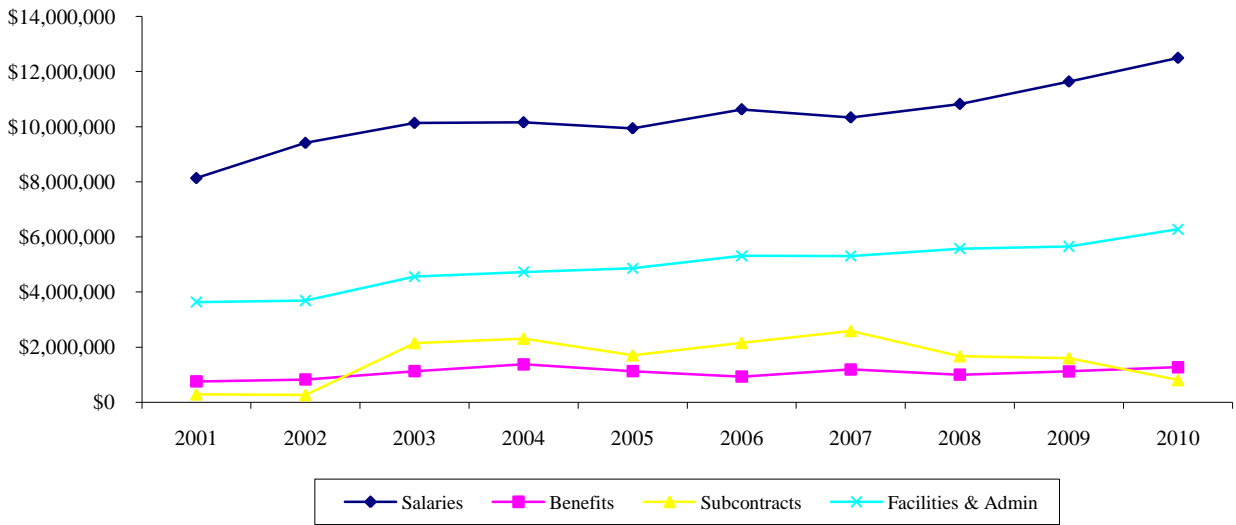
Year	Total Expenditures
2001	\$17,652,928
2002	\$19,536,264
2003	\$23,623,643
2004	\$24,339,292
2005	\$24,334,391
2006	\$26,117,033
2007	\$26,178,686
2008	\$26,364,124
2009	\$27,299,213
2010	\$28,503,008



# 2010 Research Contract/Grant Expenditures by Category

<i>Personnel Costs</i>	<i>Amount</i>
<i>Salaries &amp; Wages</i>	
Administrative Salaries	601,941
Faculty Salaries	379,172
Faculty Sal-Visit-Health Ben	1,091,856
Faculty—Supplemental	2,505,824
Part-time Faculty Salaries	551,798
Other Wages	321,012
Staff Salaries	327,934
Student Contracts	3,419,584
Student Wages	3,293,091
<b>Total Salaries &amp; Wages</b>	<b>\$12,492,213</b>
Fringe Benefits	\$1,271,438
<b>Total Personnel Costs</b>	<b>\$13,763,650</b>
<i>Other</i>	
Access Equipment	6,232
Advertising	2,081
Capital Equipment	752,610
Conference & Symposium Costs	313,063
Computer Serv-Campus-Contract	1,267
Consultants	546,892
Contract Services	460,247
Employee Development/Training	34,737
Equipment Repair & Maintenance	117,092
Exempt Account	-
Facilities Repair & Maintenance	375
Facilities & Administration	6,275,231
Hosting, Food, Entertainment	10,755
Non-Capital Equipment	83,351
Participant Stipends	256,896
Postage & Mailing	14,906
Printing & Copying	60,220
Program Income	(2,796)
Purchase Discounts Earned	(64)
Rental Expense	131,563
Research Fellowships	(4,500)
Research Publications Costs	10,402
Software Acquisitions/Support	25,876
Student Aid	1,387,516
Subcontracts	808,550
Supplies	2,195,909
Telecommunications	22,571
Travel	1,228,220
Uniforms/Costumes/Laundry	68
Utilities	88
<b>Total Other Expenditures</b>	<b>\$14,739,358</b>
<b>Total Research Expenditures</b>	<b>\$28,503,008</b>

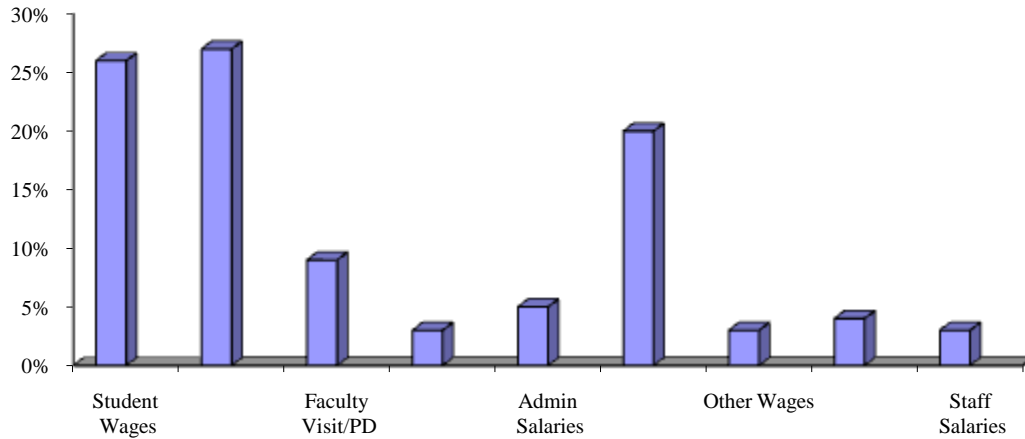
# Research Dollars Expended (Grants and Contracts Only)



# Salary and Wage Expenditures (Grants and Contracts Only)

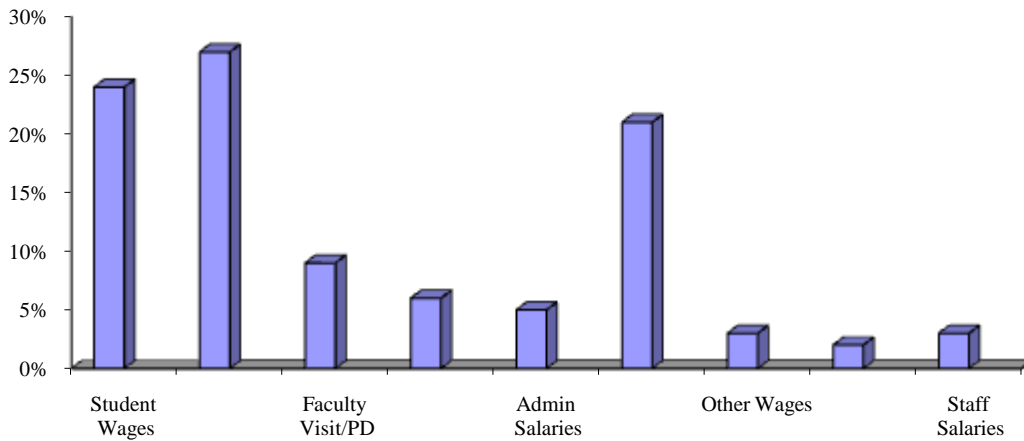
2010

Total: \$12,492,213



2009

Total: \$11,634,939

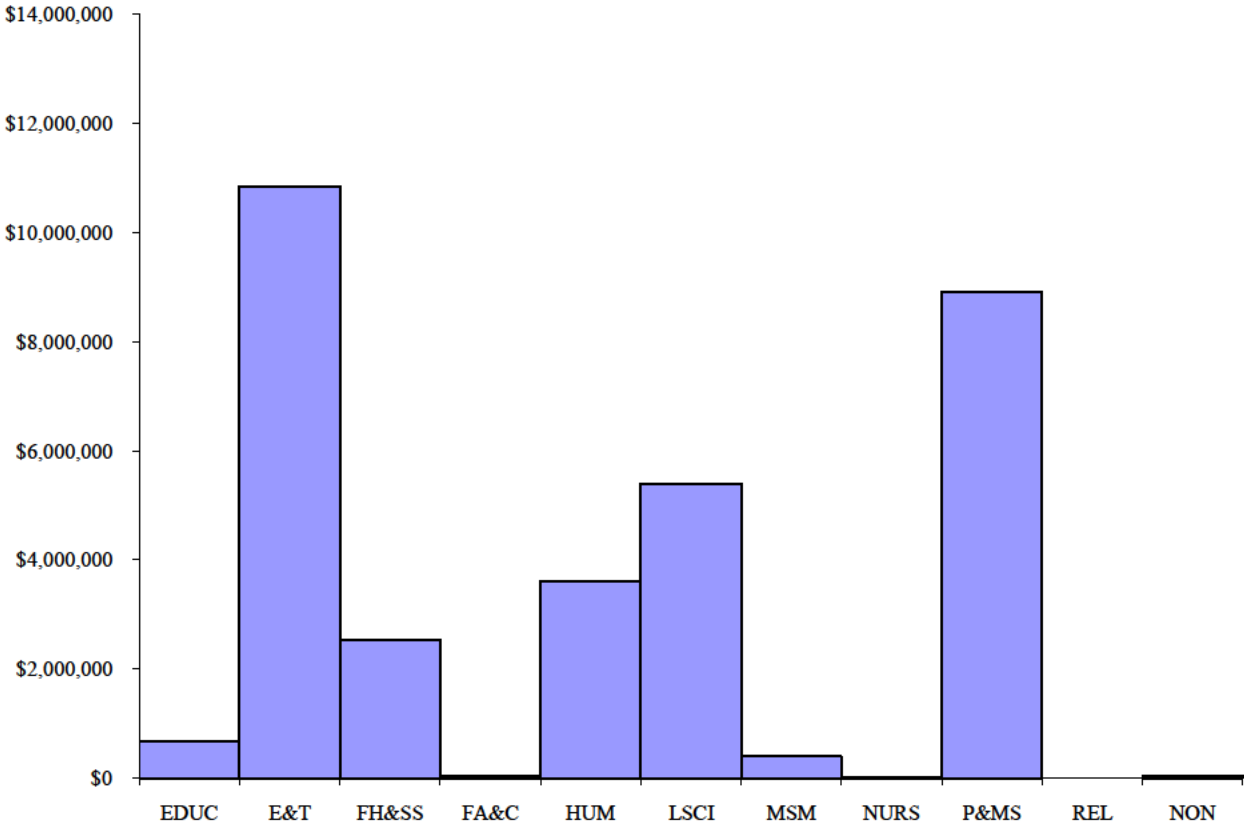




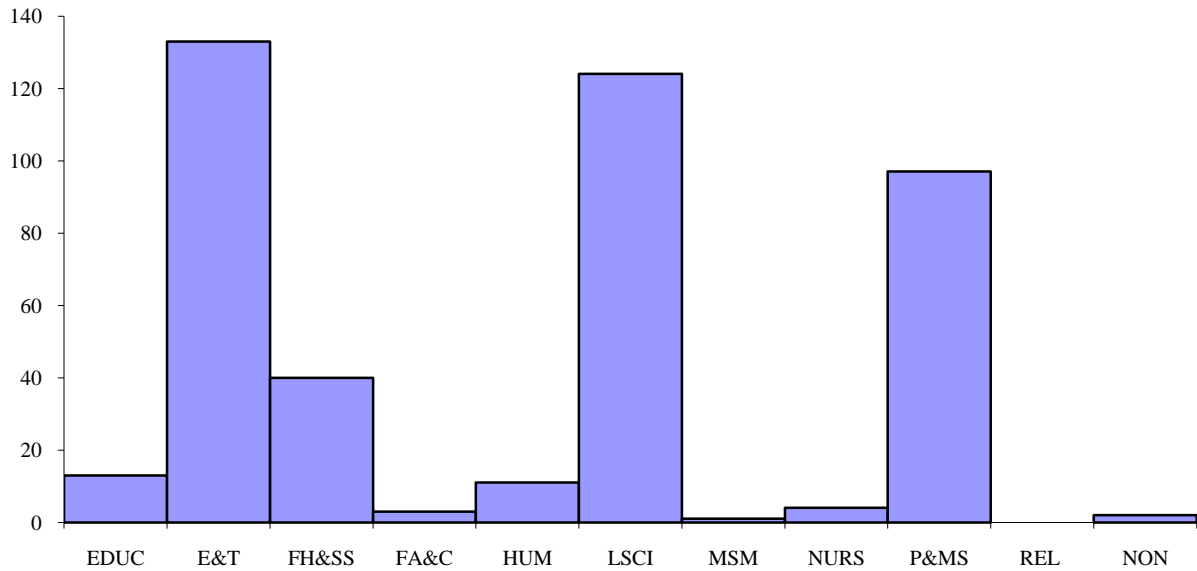
# Information by College or School

# Award Amount Totals 2010

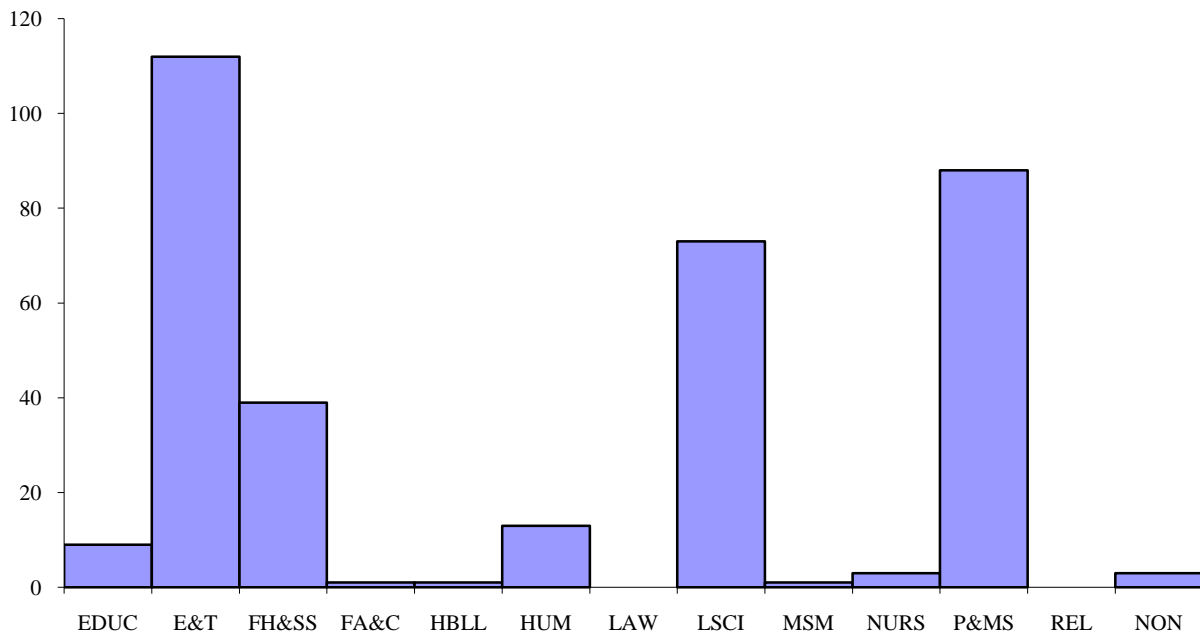
<i>College or School</i>	<i>Total</i>
Education	\$661,309
Engineering & Technology	\$10,857,829
Family, Home & Social Sciences	\$2,529,105
Fine Arts & Communications	\$30,000
Humanities	\$3,616,093
Life Sciences	\$5,402,050
Marriot School of Management	\$390,200
Nursing	\$13,750
Physical & Mathematical Sciences	\$8,908,990
Religious Education	\$0
Harold B. Lee Library	\$0
Non-College Units	\$40,584
<b><i>University Total</i></b>	<b>\$32,419,910</b>



# Number of Proposals 2010



# Number of Awards 2010



# Research Contract/Grant Awards by College and Department 2010

<i>College and Department</i>	<i>Amount</i>
<b><u>Education</u></b>	
CITES	94,172
Communication Disorders	67,854
Counseling and Special Educ	110,330
Dean's Office Education	0
Education Leadership & Foundations	0
Instructional Psychology	43,750
Teacher Education	345,203
<b>TOTAL</b>	<b>\$661,309</b>
<b><u>Engineering &amp; Technology</u></b>	
Chemical Engineering	2,400,208
Civil and Environmental Eng	1,600,157
Electrical and Computer Eng	2,727,230
Mechanical Engineering	2,968,198
School of Technology	1,162,0363
<b>TOTAL</b>	<b>\$10,859,829</b>
<b><u>Fine Art and Communications</u></b>	
Museum of Art	30,000
Communications	0
School of Music	0
<b>TOTAL</b>	<b>\$30,000</b>
<b><u>Family Home &amp; Social Sciences</u></b>	
Anthropology	0
Economics	806,006
Geography	150,000
History	293,325
Museum of Peoples and Cultures	0
Office of Public Archeology OPA	760,464
Political Science	462,495
Psychology	22,671
School of Family Life	0
Sociology	20,994
Social Work	13,150
<b>TOTAL</b>	<b>\$2,529,105</b>



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

Asian & Near East Languages	2,235,158
Humanities, Classic, Comp Lit	29,723
Linguistics	13,144
Center for Language Studies	963,949
English	374,119
Spanish & Portuguese	0
<b>TOTAL</b>	<b>\$3,616,093</b>

**J. Reuben Clark Law School**

\$0

**Library**

\$0

**Life Sciences**

Bean Museum	24,000
Biology	2,038,592
Microbiology & Molecular Biology	751,851
Nutrition, Dietetic, & Food Science	674,215
Physiology & Developmental Biology	142,255
Plant & Wildlife Sciences	1,378,562
<b>TOTAL</b>	<b>\$5,115,167</b>

**Marriott School of Management**

Business Management	0
School of Accountancy	390,200
<b>TOTAL</b>	<b>\$390,200</b>

**Nursing**

\$ 13,750

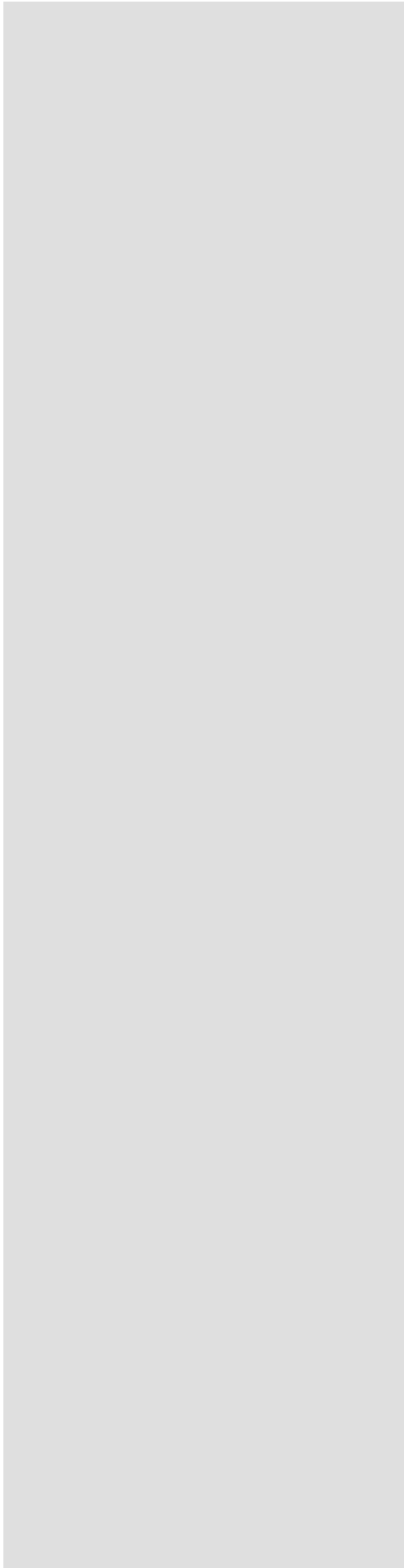
**Office of Research & Creative Activities**

\$ 0

**Physical & Math Sciences**

Chemistry and Biochemistry	5,428,100
Computer Science	1,214,219
Geology	394,719
Mathematics	172,954
Physics & Astronomy	1,572,992
Statistics	125,250
<b>TOTAL</b>	<b>\$8,908,990</b>

**Grand Total****\$ 32,419,910**

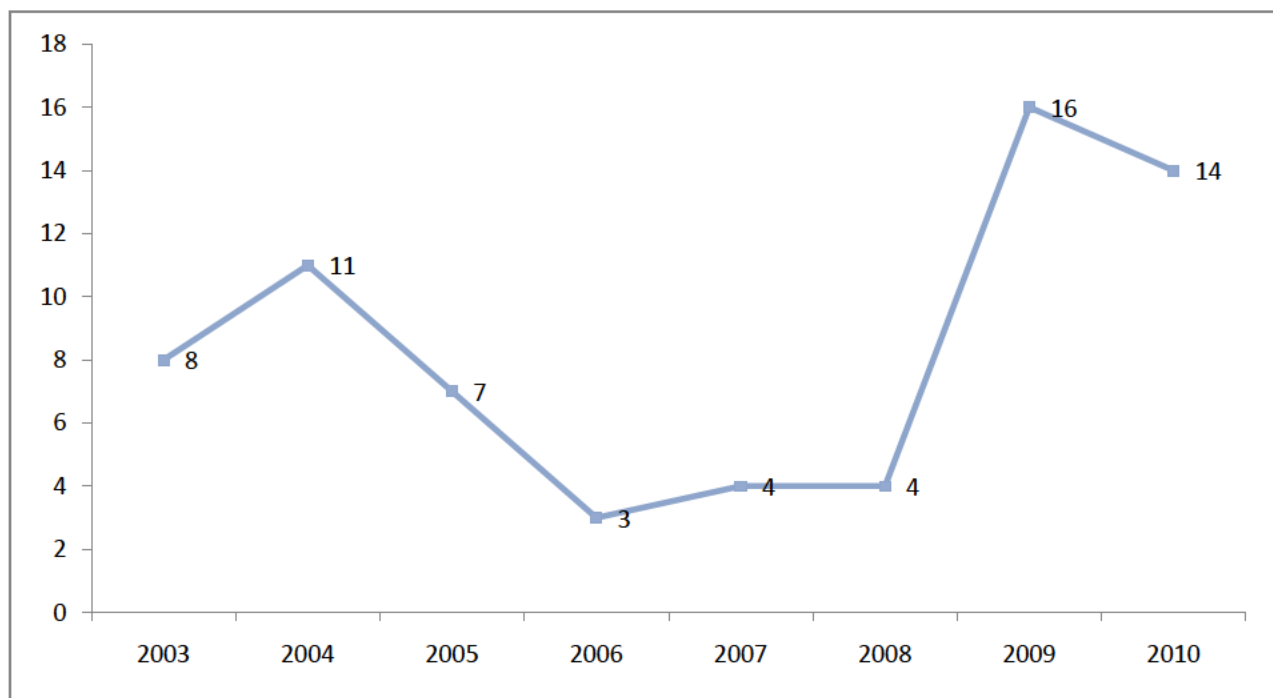


David O.  
McKay  
School  
of Education

# Summary of Sponsored Research (Grants & Contracts)

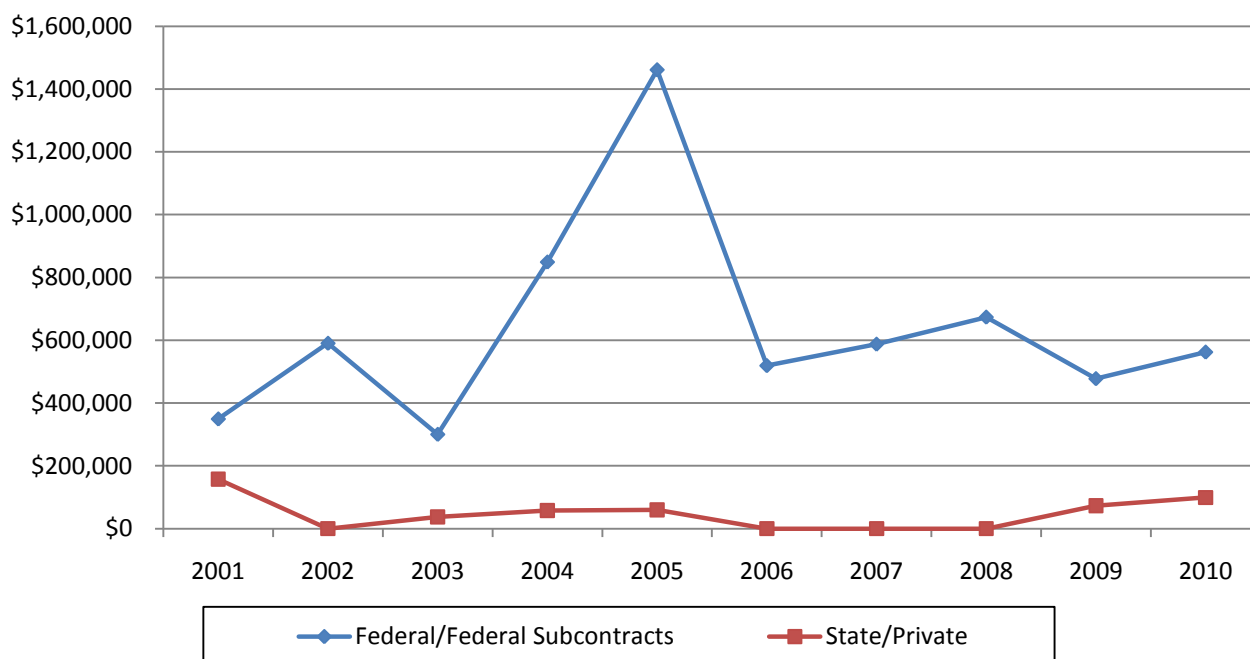
Department	# of Faculty Submitting	# of Proposals Submitted	# of Awards	Dollars Awarded
CITES	5	5	2	\$94,172
Communication Disorders	1	1	1	\$67,854
Counseling Psych & Special Ed.	3	4	2	\$110,330
Ed. Leadership & Foundations	0	0	0	\$0
Instructional Psych. & Tech.	1	1	1	\$43,750
Teacher Education	4	5	3	\$3445,203
<b>TOTALS</b>	<b>14</b>	<b>14</b>	<b>9</b>	<b>\$661,309</b>

## Proposal Submission Activity



# External Research Funding (All Sources)

Year	Grants/Contracts		Total
	Federal/Federal Subcontracts	State/Private	
2001	\$349,123	\$157,560	\$506,683
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



# David O. McKay School of Education 2010 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>							
Flox, Cally		Art Works For Kids	Visual Arts Professional Development	7/1/2010	12/31/2010	\$2,800	4
Flox, Cally	w/Jones, Stephen	UofU(DoED)	BTS Arts Learning Program	8/1/2009	6/30/2011	\$45,686	3
Jones, Stephen		UofU(DoED)	BTS Arts Learning Program	8/1/2009	6/30/2011	\$45,686	3
<b><i>Communications Disorder</i></b>							
Blair, Nancy		USOE(DoEd)	Part-Time Speech/Language Pathologists Supervisors	8/1/2010	6/30/2011	\$33,927	2
Dromey, Christopher	w/Blair, Nancy	USOE(DoEd)	Part-Time Speech/Language Pathologists Supervisors	8/1/2010	6/30/2011	\$33,927	2
<b><i>Counseling, Psych &amp; Special Education</i></b>							
Ashbaker, Betty		USOE	Reading Strategy Interventions	7/1/2010	6/15/2011	\$5,000	3
Marchant, Michelle		USOE(DoEd)	Public School Partnership for Special Education Training & Eval	7/1/2009	6/30/2010	\$52,665	2
Prater, Mary Anne	w/Marchant, Michelle	USOE(DoEd)	Public School Partnership for Special Education Training & Eval	7/1/2009	6/30/2010	\$52,665	2
<b><i>Instructional Psychology &amp; Technology</i></b>							
Davies, Randall	w/Parkinson, Alan	NSF	Development of a Scalable and Sustainable Infrastructure for Global Collaborative Engineering Design Education	9/15/2009	8/31/2011	\$43,750	1
<b><i>Teacher Education</i></b>							
Cantrell, Pam		Nebo Sch Distr(DOEd)	SciencePlus II	7/1/2010	6/30/2011	\$39,518	2
Graham, Ray		Ashland U (DoED)	Training Grant: Diversity, meeting the cultural demands of 21st century	8/1/2010	7/31/2014	\$6,650	2
Pinnegar, Stefinee		Dept of Education	BEEDE Grant - Prof Dev Program	7/1/2010	6/30/2011	\$299,035	1

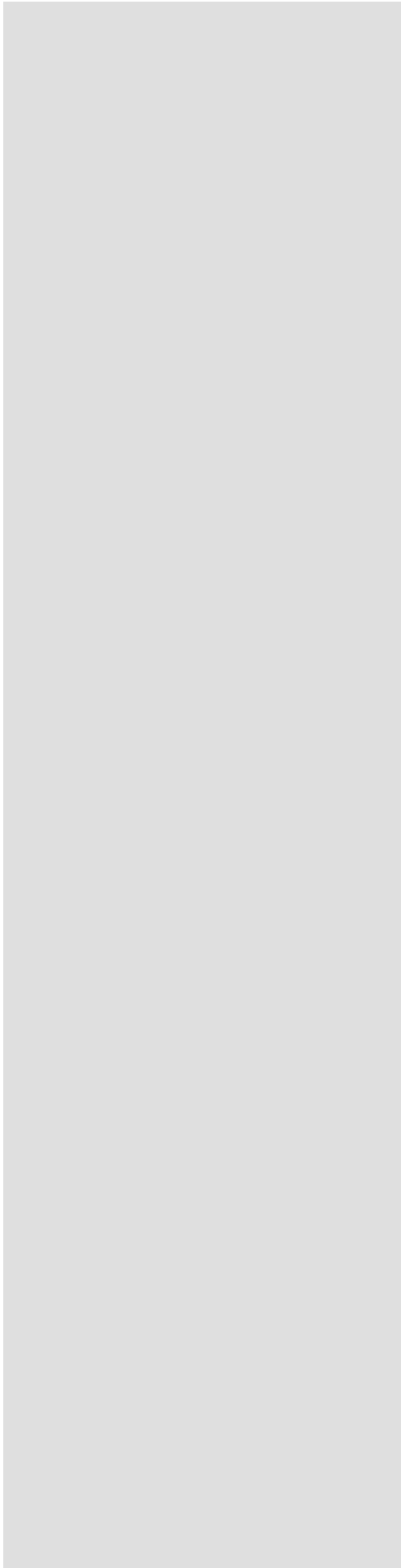
Type: 1=Federal; 2=Federal Subcontract; 3=State; 4=Private

Department Totals	
Communication Disorders	\$67,854
Center for Improvement of Teacher Education and Schooling (CITIES)	\$94,172
Continuing Education	\$0
Counseling Psychology & Special Education	\$110,330
Educational Leadership & Foundations	\$0
Instructional Psychology & Technology	\$43,750
Teacher Education	\$345,203
<b><i>College Total:</i></b>	<b>\$661,309</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	\$299,035
National Science Foundation	1	\$43,750
<b>Total</b>	2	\$342,785
<b>Subcontracts</b>		
Ashland U (DoED)	1	\$6,650
Nebo School District (DoED)	1	\$39,518
UT State Office of ED (US DOE)	4	\$173,184
<b>Total</b>	2	\$219,352
<b>State</b>		
Univ of Utah (DoED)	2	\$91,372
USOE	1	\$5,000
<b>Total</b>	3	\$96,372
<b>Private</b>		
Art Works for Kids	1	\$2,800
<b>Total</b>	1	\$2,800
<b>Grand Total</b>	12	\$661,309

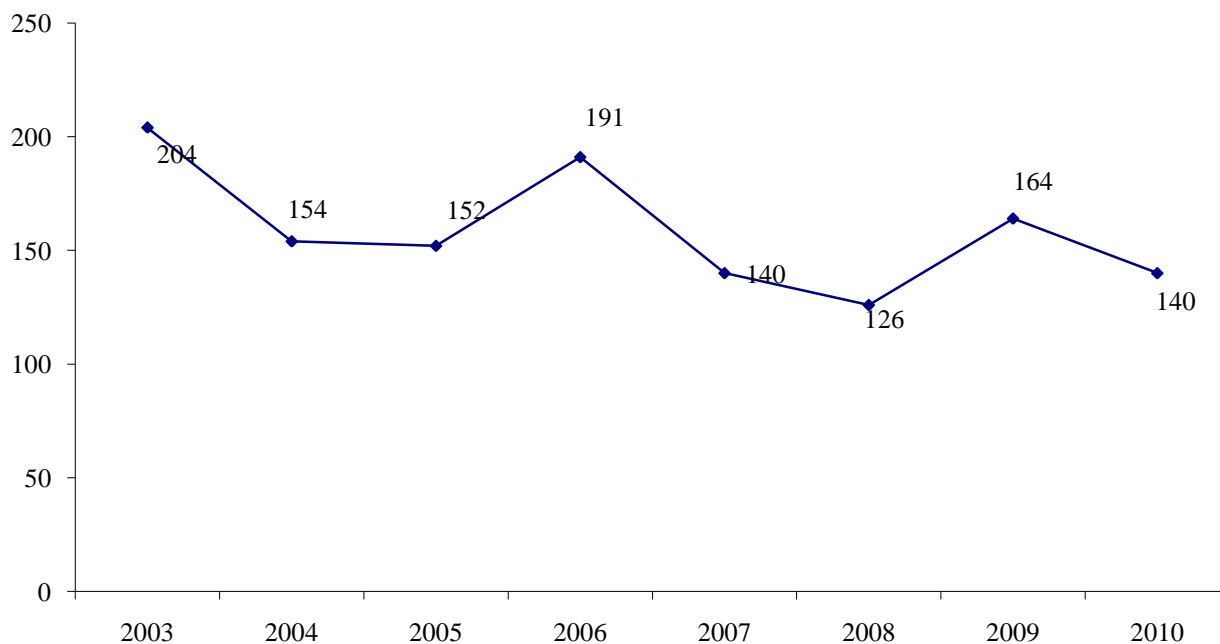


# Fulton College of Engineering & Technology

# Summary of Sponsored Research (Grants & Contracts)

Department	# of Faculty Submitting	# of Proposals Submitted	# of Awards	Dollars Awarded
Chemical Engineering	18	35	19	\$3,015,633
Civil & Environmental Engineering	11	18	23	\$1,980,613
Electrical & Computer Engineering	21	40	30	\$2,470,333
Mechanical Engineering	28	37	37	\$3,207,137
School of Technology	9	7	5	\$184,113
<b>TOTALS</b>	87	137	106	\$10,857,829

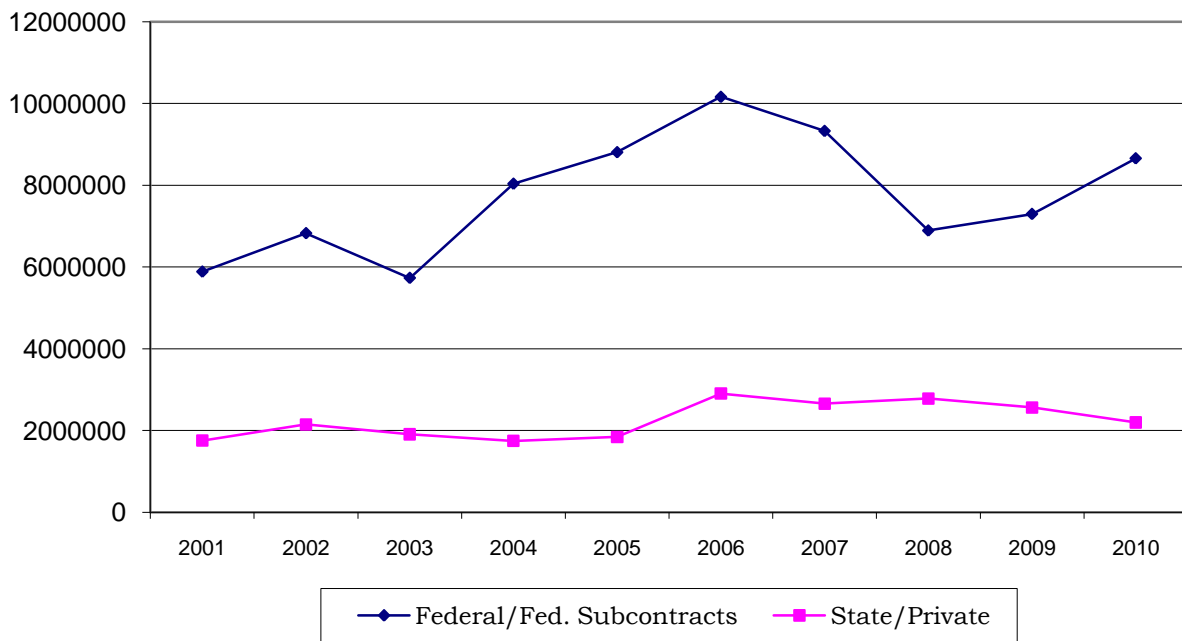
## Proposal Submission Activity





# External Research Funding (All Sources)

Year	Grants/Contracts		Total
	Federal/Federal Subcontracts	State/Private	
2001	\$5,885,021	\$1,755,752	\$7,640,773
2002	\$6,826,798	\$2,149,658	\$8,976,456
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



# College of Engineering & Technology 2010 Awards

<u>PI</u>	<u>Co-PI</u>	<u>Sponsor</u>	<u>Title</u>	<u>Beg Date</u>	<u>End Date</u>	<u>Account</u>	<u>Amount</u>	<u>Type</u>
<i>Civil &amp; Environmental Engineering</i>								
Belk, Mark	w/ Hotchkiss, Rollin	Central Utah Water Conservancy District	Stream-to-Lake Ecotone for a Changing Hobbie Creek	3/12/2010	4/30/2011	R0402160	\$11,181	3
Benzley, Steven		Sandia National Lab	All hexahedral finite element mesh generation	11/1/2008	12/30/2010	R0302266	\$10,000	2
Benzley, Steven		Sandia National Lab	All Hexahedral Finite Element Mesh Generation	11/1/2008	12/30/2011	R0302266	\$50,000	2
Benzley, Steven		BLM	Review existing Mine subsidence Data and improve collection	7/18/2008	7/31/2013	R0202248	\$16,667	1
Borup, Brett	w/Williams, Gus	US Bureau of Rec	Sediment Delta and Water Quality Interactions: Characterization, Quantification and Modeling	8/27/2009	9/30/2014	R0202584	\$11,397	3
Gerber, Travis		UDOT	Assessing Corrosion of MSE Wall Reinforcement	4/1/2010	9/30/2010	R0402161	\$21,604	3
Guthries, W. Spencer		UDOT	Full-Depth Reclamation with Asphalt Emulsion	6/1/2009	12/31/2010	R0402179	\$75,000	3
Hotchkiss, Rollin		RC&D Inc.(US FWS)	Bedload Sediment Transport Comparison Study	9/10/2010	12/31/2011	R0302354	\$59,500	2
Hotchkiss, Rollin		UDOT	Culvert Roughness Elements for Native Utah Fish Passage	1/1/2010	4/1/2011	R0402156	\$13,034	3
Hotchkiss, Rollin		USGS(USU)	Developing a Priority System for managing sediment in smaller reservoirs	2/1/2010	2/28/2011	R0302332	\$20,000	2
Hotchkiss, Rollin		Central Utah Water Conservancy District	Modifications to Dams on Hobbie Creek	3/12/2010	4/30/2011	R0402159	\$18,695	3
Hotchkiss, Rollin	w/Benzley, Steven	BLM	Review existing Mine subsidence Data and improve collection	7/18/2008	7/31/2013	R0202248	\$16,666	1
Hotchkiss, Rollin	w/Williams, Gus	US Bureau of Rec	Sediment Delta and Water Quality Interactions: Characterization, Quantification and Modeling	8/27/2009	9/30/2014	R0202583	\$11,397	2
Hotchkiss, Rollin		Central Utah Water Conservancy District	Stream-to-Lake Ecotone for a Changing Hobbie Creek	3/12/2010	4/30/2011	R0402160	\$11,181	3
Jensen, David W.		Novatek, Inc.	Structural Performance of Innovative Composite Grid and Wall panels	9/1/2010	8/31/2011	R0602329	\$176,586	4
Miller, A. Wood		Central Utah Water Conservancy District	Utah Lake Hydrologic and Water Quality Update	7/1/2010	6/30/2011	R0402140	\$100,000	3
Miller, Wood	w/Williams, Gus	US Bureau of Rec	Sediment Delta and Water Quality Interactions: Characterization, Quantification and Modeling	8/27/2009	9/30/2014	R0202585	\$11,397	4
Nelson, James	w/Williams, Gus	US Bureau of Reclamation	Sediment Delta and Water Quality Interactions: Characterization, Quantification and Modeling	8/27/2009	9/30/2014	R0202582	\$11,397	1
Rader, Russell	w/ Hotchkiss, Rollin	Central Utah Water Conservancy District	Stream-to-Lake Ecotone for a Changing Hobbie Creek	3/12/2010	4/30/2011	R0402160	\$11,181	3
Richards, Paul	w/Benzley, Steven	BLM	Review existing Mine subsidence Data and improve collection	7/18/2008	7/31/2013	R0202248	\$16,667	1

Rollins, Kyle	NSF	EAGER: Evaluate Effectiveness of Vertical Drains for Liquifaction Mitigation	1/1/2011	12/31/2011	R0112179	\$49,917	1
Rollins, Kyle	UDOT	Lateral Pile Resistance Near MSE Walls	7/1/2009	4/1/2011	R0402155	\$5,062	3
Rollins, Kyle	UDOT	Reduction In Wick Drain Effectiveness in Sensitive Clays	5/1/2010	12/31/2011	R0402168	\$51,238	3
Rollins, Kyle	USGS	Subsurface Analysis of Bridges in Costa Rica	3/1/2010	2/28/2011	R0202299	\$89,699	1
Schultz, Grant	UDOT (US DOT)	UDOT Traffic & Safety Support - On-Call	9/29/2010	6/30/2012	R0302366	\$200,000	2
Schultz, Grant	UDOT	Understanding the Economics of Transportation in Utah	2/1/2010	7/31/2011	R0402157	\$50,000	3
Williams, Gus	Hampton Univ (DOE)	Global atmospheric profiling techniques for the improvement and increased utility of Atmospheric Compensation methods	7/1/2010	5/31/2011	R0302355	\$49,750	2
Williams, Gus	DOE	Solids Identification Using Hyperspectral Imagery: Extracting Reliable Signatures from a Sea of Variability	6/28/2010	6/27/2013	R0202309	\$800,000	1
Williams, Gustavious	US Bureau of Reclamation	Sediment Delta and Water Quality Interactions: Characterization, Quantification and Modeling	8/27/2009	9/30/2014	R0202582	\$11,397	1

**Chemical Engineering**

Baxter, Larry	GE (USDA)	Biomass-Coal Cofiring	10/1/2009	9/30/2012	R0302343	\$490,778	2	
Baxter, Larry	SES	Cryogenic CO2 Capture Research	4/5/2009	12/31/2012	R0602280	\$50,000	4	
Baxter, Larry	SES	Cryogenic CO2 Capture Research	4/5/2009	12/31/2012	R0602280	\$75,000	4	
Baxter, Larry	Univ of Utah (NSF EPSCoR)	Extending Campus Networks and Research	9/1/2010	8/31/2012	R0302370	\$165,000	2	
Davis, Robert	w/Harb, John	NSF	NIRT: Chemically Directed Surface Alignment and Wiring of Self-Assembled Nanoelectrical Circuits	7/1/2007	6/30/2011	R0112096	\$4,000	1
Fletcher, Thomas	GE Global Research	Gasification Kinetics at High Temperature and Pressure	8/22/2008	9/30/2010	R0602253	\$750	4	
Fletcher, Tom	NSF	A Fundamental Investigation of Fire Initiation and Fire Behavior	10/1/2009	9/30/2011	R0112147	\$96,992	1	
Fletcher, Tom	GE (USDA)	Biomass-Coal Cofiring	10/1/2009	9/30/2012	R0302344	\$198,056	2	
Fletcher, Tom	U of U (Chevron)	Kinetics of Oil Shale Pyrolysis	1/1/2007	12/31/2010	R0802012	\$54,450	3	
Harb, John	w/Davis, Robert	NSF	EAGER: Carbon Nanotube Templated Battery Electrodes	3/15/2010	2/28/2011	R0112160	\$33,333	1
Harb, John	NSF	NIRT: Chemically Directed Surface Alignment and Wiring of Self-Assembled Nanoelectrical Circuits	7/1/2007	6/30/2011	R0112096	\$4,000	1	
Knotts, Thomas	DARPA	Predicting Protein Behavior on Surfaces for Improved Design of Protein Arrays	6/15/2010	6/14/2011	R0202307	\$108,394	1	
Lewis, Randy	Oklahoma State (USDA)	Biomass-based Energy Research	7/1/2010	6/30/2011	R0302345	\$61,886	2	
Lewis, Randy	Oklahoma State (DOT)	Critical Analysis of Syngas Fermentation Reactors for Biological Alcohol Production	12/1/2009	11/30/2010	R0302324	\$48,000	2	
Lewis, Randy	Oklahoma State (US DOT)	Critical analysis of syngas fermentation reactors for biological alcohol production	12/1/2009	11/30/2011	R0302324	\$51,000	2	

Lewis, Randy		OK State U. (US DOT)	Effect of Syngas Sources on Ethanol Production vs Fermentation	7/1/2007	6/30/2010	R0302234	\$18,394	2
Lignell, David		Univ of Utah (DOE NNSA)	Accelerating Deployment of Retrofitable CO2 Capture Technologies through Predictivity-Carbonate Precipitation	10/1/2010	10/1/2011	R0302369	\$60,000	2
Linford, Matthew	w/Harb, John	NSF	NIRT: Chemically Directed Surface Alignment and Wiring of Self-Assembled Nanoelectrical Circuits	7/1/2007	6/30/2011	R0112096	\$4,000	1
Oscarson, John L.	w/Rowley, Richard	DIPPR/AICHE	DIPPR 801 Pure Chemical Database	8/1/1997	12/31/2011	R0601001	\$10,000	4
Oscarson, John L.	w/Rowley, Richard	DIPPR/AICHE	DIPPR 801 Pure Chemical Database	8/1/1997	12/31/2015	R0601001	\$125,000	4
Pitt, William		CIBA Vision	DMPC Transport in Polymers	5/15/2009	12/31/2010	R0602281	\$15,600	4
Pitt, William		Ciba Vision Corp	DMPC Transport in Polymers: IV Extended Wear Lenses	10/1/2010	1/31/2011	R0602281	\$27,545	4
Pitt, William	w/Wheeler, Dean	NSF	Viologen-Based Oxidation of Carbohydrate Fuels for a New Type of Low-Temperatures Fuel Cell	8/15/2010	7/31/2013	R0112170	\$149,727	1
Rowley, Richard	w/Wilding, Vincent	NIST	Biofuel Thermophysical Properties Database	1/1/2010	12/31/2012	R0202296	\$313,750	1
Rowley, Richard		AIChE	DIPPR 801 Project	8/1/1997	12/31/2012	R0601001	\$25,000	4
Rowley, Richard		DIPPR/AICHE	DIPPR 801 Pure Chemical Database	8/1/1997	12/31/2011	R0601001	\$10,000	4
Rowley, Richard		DIPPR/AICHE	DIPPR 801 Pure Chemical Database	8/1/1997	12/31/2015	R0601001	\$125,000	4
Wheeler, Dean	w/Harb, John	NSF	NIRT: Chemically Directed Surface Alignment and Wiring of Self-Assembled Nanoelectrical Circuits	7/1/2007	6/30/2011	R0112096	\$4,000	1
Wheeler, Dean		Naval Research Lab	Tools, Development, Modeling and Desoign of High Performance Electrodes for LiOon Batteries	5/1/2008	5/31/2011	R0302244	\$58,500	2
Wheeler, Dean		NSF	Viologen-Based Oxidation of Carbohydrate Fuels for a New Type of Low-Temperatures Fuel Cell	8/15/2010	7/31/2013	R0112170	\$149,728	1
Wilding, Vincent	w/Rowley, Richard	AIChE	DIPPR 801 Project	8/1/1997	12/31/2012	R0601001	\$25,000	4
Wilding, W. Vincent		NIST	Biofuel Thermophysical Properties Database	1/1/2010	12/31/2012	R0202296	\$313,750	1
Wilding, W. Vincent	w/Rowley, Richard	DIPPR/AICHE	DIPPR 801 Pure Chemical Database	8/1/1997	12/31/2011	R0601001	\$10,000	4
Wilding, W. Vincent	w/Rowley, Richard	DIPPR/AICHE	DIPPR 801 Pure Chemical Database	8/1/1997	12/31/2015	R0601001	\$125,000	4
Woolley, Adam	w/Harb, John	NSF	NIRT: Chemically Directed Surface Alignment and Wiring of Self-Assembled Nanoelectrical Circuits	7/1/2007	6/30/2011	R0112096	\$4,000	1
<i>Electrical &amp; Computer Engineering</i>								
Bangerter, Neal		Stanford Univ(NIH)	MRI for early detection of Osteoarthritis	6/1/2010	3/31/2011	R0302341	\$108,998	2
Beard, Randy		Procerus Tech (AFOSR)	Aerial Recovery of Micro UAVs, Phase II	10/27/2009	4/30/2012	R0302275	\$74,026	2
Beard, Randy		SET Corp (AFRL)	Human Assisted UAV_UGV Cooperative Tracking of Urban Dismounts	10/1/2008	9/26/2010	R0302270	\$110,701	2
Beard, Randy	w/McLain, Tim	SSCI (STTR)	ImageNav-LS: Unmanned Guidance and Control for Helicopter Resupply in Unprepared Landing Sites	7/1/2010	4/30/2011	R0302347	\$11,970	2

Beard, Randy		AFRL	Miniature Self-Deploying Systems in Cluttered/Confined Environments: Campus Challenge	8/31/2010	8/31/2011	R0202321	\$75,000	1
Beard, Randy	w/Mclain, Tim	NSF	Planning Grant I/UCRC for Unmanned Aircraft Systems	2/15/2010	1/31/2011	R0112159	\$2,600	1
Beard, Randy	w/McLain, Tim	Procerus (Army)	Swarm/Agent Technology for Small Unit Scalable Effects	9/29/2009	3/30/2010	R0302323	\$11,275	2
Hawkins, Aaron		NSF	Impact Ionization Based Multipliers for Optical Receivers	4/15/2007	3/31/2011	R0112093	\$6,000	1
Hawkins, Aaron		NSF	Impact Ionization Based Multipliers for Optical Receivers	4/15/2007	3/31/2011	R0112093	\$18,000	1
Hawkins, Aaron		UCSC (NIH)	Integrated optical particle trap for biomolecule analysis and manipulation	7/1/2009	5/31/2011	R0302292	\$73,250	2
Hutchings, Brad	w/Nelson, Brent	NSF	BYU Site CHREC I/UCRC	1/31/2009	1/31/2011	R0112109	\$4,000	1
Hutchings, Brad	w/Nelson, Brent	NSF	BYU Site for CHREC I/UCRC	1/31/2009	1/31/2012	R0112112	\$12,500	4
Hutchings, Brad	w/Nelson, Brent	NASA - Dryden	CHREC Membership	3/11/2010	3/11/2011	R0202260	\$8,750	1
Hutchings, Brad	w/Nelson, Brent	NSF	NSF CHREC	1/31/2009	1/31/2011	R0112108	\$8,732	1
Hutchings, Brad		ISI (DARPA)	Trust in Integrated Circuits	5/1/2010	12/31/2010	R0302342	\$108,178	2
Jensen, Michael		Institute of Electrical and Electronics Engineers, inc. (IEEE)	Editor in Chief Contract: IEEE Transaction on Antennas and Propagation	7/1/2010	7/31/2013	R0602321	\$37,555	4
Jensen, Michael	w/Rice, Michael	PEO STRI SFAC/STRI-KL	Multipath Modeling and Mitigation using Multiple Antennas	4/15/2009	8/15/2011	R0202268	\$12,500	1
Long, David		USU (NRL)	BYU SAR Algorithm Support	8/1/2010	8/30/2011	R0302350	\$75,000	2
Long, David		U of Colorado (NASA)	Potential synergisms between space-based Doppler Wind Lida profiles, scatterometer ocean vector winds and GOES cloud motion vectors	1/1/2009	2/1/2011	R0302279	\$38,811	2
Long, David		UofU (NASA)	Rocky Mountain NASA Space Grant Consortium	5/6/2010	5/5/2011	R0302349	\$23,000	2
Long, David		UofU (NASA)	Rocky Mountain Space Grant Consortium	5/6/2010	5/5/2011	R0302349	\$52,000	2
Long, David		PowerView USA	SAR evaluation of vegetation in transmission line corridors	2/1/2010	4/15/2010	R0604311	\$11,955	4
Long, David		NASA	Winds, Backscatter, and Brightness Temperature Climate Records	7/22/2010	7/21/2014	R0202319	\$237,725	1
Nelson, Brent		NSF	BYU Site CHREC I/UCRC	1/31/2009	1/31/2011	R0112109	\$4,000	1
Nelson, Brent		NSF	BYU Site for CHREC I/UCRC	1/31/2009	1/31/2012	R0112109	\$12,500	1
Nelson, Brent		NASA - Dryden	CHREC Membership	3/11/2010	3/11/2011	R0202260	\$8,750	1
Nelson, Brent		NSF	NSF CHREC	1/31/2009	1/31/2011	R0112108	\$8,733	1
Nelson, Brent	w/Hutchings, Brad	ISI (DARPA)	Trust in Integrated Circuits	5/1/2010	12/31/2010	R0302342	\$108,178	2
Nordin, Greg		NSF	MEMs Based Chemical and Biological Sensors	7/31/2006	2/28/2011	R0112082	\$100,000	1
Nordin, Greg		NSF	MEMs Based Chemical and Biological Sensors	7/31/2006	8/31/2011	R0112082	\$20,000	1

Nordin, Gregory		Clemson (DARPA)	Laboratory for Advanced Photonic Composites	10/10/2005	4/21/2012	R0302151	\$205,000	2
Nordin, Gregory	w/Austin, Daniel	NSF	MRI: Acquisition of a Versatile Direct Write Micro Patterning System for Research and Education	1/1/2011	12/31/2011	R0112176	\$71,956	1
Penry, David		NSF	SHF: CSR: Small Assisted Partitioning and Automated Synthesis of Hybrid Manycore Simulators	8/1/2010	7/31/2013	R0112169	\$388,749	1
Rice, Michael	w/Nelson, Brent	NSF	BYU Site CHREC I/UCRC	1/31/2009	1/31/2011	R0112111	\$4,000	3
Rice, Michael	w/Nelson, Brent	NSF	BYU Site for CHREC I/UCRC	1/31/2009	1/31/2012	R0112111	\$12,500	3
Rice, Michael	w/Nelson, Brent	NASA - Dryden	CHREC Membership	3/11/2010	3/11/2011	R0202260	\$8,750	1
Rice, Michael		PEO STRI SFAC/STRI-KL	Multipath Modeling and Mitigation using Multiple Antennas	4/15/2009	8/15/2011	R0202268	\$12,500	1
Rice, Michael	w/Nelson, Brent	NSF	NSF CHREC	1/31/2009	1/31/2011	R0112108	\$8,733	1
Schultz, Stephen		IPITEK	Advance Polymer Optical Sensors (OPOS)	5/9/2008	9/30/2011	R0302253	\$27,750	2
Schultz, Stephen		IPITEK	Advanced Polymer Optical Sensors (APOS)	5/9/2008	5/8/2010	R0302253	\$20,791	2
Schultz, Stephen		IPITEK	Advanced Polymer Optical Sensors (APOS)	5/9/2008	8/31/2010	R0302253	\$37,500	2
Schultz, Stephen		IPITEK	Advanced Polymer Optical Sensors (APOS) Amend #6	5/9/2008	10/30/2011	R0302253	\$9,841	2
Schultz, Stephen		IPITEK	Advanced Polymer Optical Sensors (APOS) Amend #7	5/9/2008	10/30/2011	R0302253	\$5,806	2
Schultz, Stephen		IPITEK	APOS Amendment #9	9/30/2010	12/31/2010	R0302253	\$24,000	2
Selfridge, Richard	w/Schultz, Stephen	IPITEK	Advance Polymer Optical Sensors (OPOS)	5/9/2008	9/30/2011	R0302253	\$27,750	2
Selfridge, Richard	w/Schultz, Steven	IPITEK	Advanced Polymer Optical Sensors (APOS)	5/9/2008	5/8/2010	R0302253	\$20,791	2
Selfridge, Richard	w/Schultz, Stephen	IPITEK	Advanced Polymer Optical Sensors (APOS)	5/9/2008	8/31/2010	R0302253	\$37,500	2
Selfridge, Richard	w/Schultz, Stephen	IPITEK	Advanced Polymer Optical Sensors (APOS) Amend #6	5/9/2008	10/30/2011	R0302253	\$9,840	2
Selfridge, Richard	w/Schultz, Stephen	IPITEK	Advanced Polymer Optical Sensors (APOS) Amend #7	5/9/2008	10/30/2011	R0302253	\$5,806	2
Taylor, Clark	w/Mclain, Tim	NSF	Planning Grant I/UCRC for Unmanned Aircraft Systems	2/15/2010	1/31/2011	R0112159	\$2,600	1
Warnick, Karl		Linear Signal LLC	Low Cost Electronically Steered Phased Arrays for Satellite Communications	5/1/2010	4/30/2012	R0602317	\$79,500	4
Wirthlin, Michael	w/Nelson, Brent	NSF	BYU Site CHREC I/UCRC	1/31/2009	1/31/2011	R0112110	\$4,000	2
Wirthlin, Michael	w/Nelson, Brent	NSF	BYU Site for CHREC I/UCRC	1/31/2009	1/31/2012	R0112110	\$12,500	2
Wirthlin, Michael	w/Nelson, Brent	NASA - Dryden	CHREC Membership	3/11/2010	3/11/2011	R0202260	\$8,750	1
Wirthlin, Michael		Sandia National Lab	Non-Volatile Memory Review and Analysis	9/1/2007	9/30/2011	R0202231	\$30,000	1
Wirthlin, Michael	w/Nelson, Brent	NSF	NSF CHREC	1/31/2009	1/31/2011	R0112108	\$8,733	1

**Mechanical Engineering**

Adams, Brent	w/Fullwood, David	NSF	GOALI: Defect Detection Microscopy: Microstructure Design for Formability of Wrought Magnesium Alloys	8/15/2009	7/31/2012	RO112144	\$2,000	1
Adams, Brent		NSF	Interaction Between Dislocations and Grain Boundaries in BCC Metals: Hall-Petch Effect	9/1/2009	8/31/2011	RO112143	\$70,987	1
Adams, Brent	w/Mattson, Christopher	NSF	REU Supplement: A Framework for Maintaining Product Superiority by Designating Hardware that Protects itself from Reverse Engineering	6/1/2008	5/31/2011	RO112112	\$6,000	1
Adams, Brent L		US Army Research Office	HROIM	8/1/2008	11/30/2010	RO202249	\$79,361	1
Blotter, Jon		Insitu Inc.	ScanEagle Acoustic Testing and Analysis	5/7/2010	9/30/2010	RO602318	\$4,084	4
Blotter, Jonathan		Northrup Grumman	A4 triads and LN250 PRB Test and Development	2/10/2010	2/10/2011	RO602307	\$14,400	4
Blotter, Jonathan		Univ of Pittsburg (Murata)	Acoustics of a Pizeoelectric Blower	10/1/2009	9/30/2010	RO802018	\$20,006	3
Blotter, Jonathan	w/Maynes, Daniel	CCI Valve	Flow Induced Virations in Pipe Systems	1/1/2007	2/28/2011	RO602206	\$35,341	4
Blotter, Jonathan	w/Maynes, Daniel	CCIValve	High Speed Interacting Air Jets: Noise and Flow Characterization	5/27/2010	3/31/2011	RO602323	\$21,419	4
Bowden, Anton		NSF	Biomechanical Consequences of Spinal Ligaments Microstructure	5/1/2010	4/30/2015	RO112161	\$400,000	1
Bowden, Anton		Crocker Spinal Tech Inc	Characterization of Degenerated Spinal Motion	2/1/2010	7/31/2010	RO602304	\$42,500	4
Burnett, Sandra	w/Jensen, Brian	NanoInjections Tech	Development of NanoInjection Prototype and Protocols Phase II	2/1/2010	7/31/2010	RO602306	\$38,738	4
Colton, Mark	w/Beard, Randy	Procerus Tech (AFOSR)	Aerial Recovery of Micro UAVs, Phase II	10/27/2009	4/30/2012	RO302275	\$74,026	2
Colton, Mark	w/Mclain, Tim	NSF	Planning Grant I/UCRC for Unmanned Aircraft Systems	2/15/2010	1/31/2011	RO112159	\$2,600	1
Colton, Mark B		Honda Research Inst.	Socially Assistive Robotics for Children with Autism: Imitation Captured-Based Robot Programming	9/1/2010	8/31/2011	RO602338	\$30,000	4
Colton, Mark B.	w/Thomson, Scott	AFOSF (ONR)	Experimental and computational analysis of intermittent flapping flights	7/1/2010	6/30/2011	RO202308	\$33,333	1
Fullwood, David		NSF	GOALI: Defect Detection Microscopy: Microstructure Design for Formability of Wrought Magnesium Alloys	8/15/2009	7/31/2012	RO112144	\$2,000	1
Fullwood, David	w/Adams, Brent L	US Army Research Office	HROIM	8/1/2008	11/30/2010	RO202249	\$79,361	1
Gee, Kent	w/Blotter, Jonathan	Northrup Grumman	A4 triads and LN250 PRB Test and Development	2/10/2010	2/10/2011	RO602307	\$14,400	4
Gee, Kent	w/Blotter, Jon	Insitu Inc.	ScanEagle Acoustic Testing and Analysis	5/7/2010	9/30/2010	RO602318	\$4,083	4
Gorrell, Steve		21st Century Systems(AF)	Phase II STTR Proposal to Air Force: Expert Systems for Coherent Feature Detection in High Fidelity Fluid Dynamic Simulations	2/1/2010	1/14/2012	RO302325	\$300,000	2
Howell, Larry	w/Jensen, Bryan	NanoInjections Tech Inc.	Advancement of Nanoinjection Technology III	2/1/2010	2/14/2011	RO602306	\$42,462	4
Howell, Larry	w, Bowden, Anton	Crocker Spinal Tech Inc	Characterization of Degenerated Spinal Motion	2/1/2010	7/31/2010	RO602304	\$42,500	4
Howell, Larry	w/Jensen, Brian	NanoInjections Tech	Development of NanoInjection Prototype and Protocols Phase II	2/1/2010	7/31/2010	RO602306	\$38,738	4
Jensen, Brian		NanoInjections Tech	Development of NanoInjection Prototype and Protocols Phase II	2/1/2010	7/31/2010	RO602306	\$38,738	4

Jensen, Bryan		NanoInjecti ons Tech Inc.	Advancement of Nanoinjection Technology III	2/1/2010	2/14/2011	R0602306	\$42,462	4
Jensen, C. Greg	w/Parkin son, Alan	NSF	Development of a Scalable and Sustainable Infrastructure for Global Collaborative Engineering Design Education	9/15/2009	8/31/2011	R0112146	\$43,750	1
Jensen, Greg		Siemens	Next Generation Cax Joining for e- design	9/1/2010	8/31/2011	R0602332	\$30,000	4
Jensen, Greg		NSF	Planning Grant: I/UCRC for next generation Cax Joining the Center for E-design	2/1/2010	1/31/2011	R0112158	\$5,750	1
Jensen, Greg		Pratt & Whitney	Task 45: Composite Optimization and Design Systems	2/19/2010	12/31/2010	R0602310	\$60,000	4
Jones, Matthew R.		Chapman Innovations	A Portable System to Test Thermal Textile Solutions	6/28/2010	6/24/2012	R0602325	\$44,757	4
Mattson, Christophe r		NSF	CAREER: Design Strategies to Benefit from the Profit-by-Poverty-Alleviation Paradox	1/15/2010	12/31/2014	R0112156	\$400,000	1
Mattson, Christophe r	w/Thoms on, Scott	AFOSF (ONR)	Experimental and computational analysis of intermittent flapping flights	7/1/2010	6/30/2011	R0202308	\$33,333	1
Mattson, Christophe r		NSF	REU Supplement: A Framework for Maintaining Product Superiority by Designating Hardware that Protects itself from Reverse Engineering	6/1/2008	5/31/2011	R0112112	\$6,000	1
Maynes, Daniel		CCI Valve	Flow Induced Vibrations in Pipe Systems	1/1/2007	2/28/2011	R0602206	\$35,341	4
Maynes, Daniel		Concepts NREC (NASA- STRR)	High Inlet Diffusion Low Flow Coefficient Inducers for Near Zero NPSP	1/21/2010	1/21/2011	R0302337	\$39,428	2
Maynes, Daniel		CCIValve	High Speed Interacting Air Jets: Noise and Flow Characterization	5/27/2010	3/31/2011	R0602323	\$21,420	4
Maynes, Daniel	w/Austin , Daniel	NSF	MRI: Acquisition of a Versatile Direct Write Micro Patterning System for Research and Education	1/1/2011	12/31/2011	R0112176	\$71,957	1
McLain, Tim	w/Beard, Randy	Procerus Tech (AFOSR)	Aerial Recovery of Micro UAVs, Phase II	10/27/2009	4/30/2012	R0302275	\$74,025	2
McLain, Tim		SSCI (STTR)	ImageNav-LS: Unmanned Guidance and Control for Helicopter Resupply in Unprepared Landing Sites	7/1/2010	4/30/2011	R0302347	\$11,970	2
McLain, Tim	w/Beard, Randy	AFRL	Miniature Self-Deploying Systems in Cluttered/Confined Environments: Campus Challenge	8/31/2010	8/31/2011	R0202321	\$75,000	1
McLain, Tim		NSF	Planning Grant I/UCRC for Unmanned Aircraft Systems	2/15/2010	1/31/2011	R0112159	\$2,600	1
McLain, Tim	w/ Blotter, Jon	Insitu Inc.	ScanEagle Acoustic Testing and Analysis	5/7/2010	9/30/2010	R0602318	\$4,083	4
McLain, Tim		Procerus (Army)	Swarm/Agent Technology for Small Unit Scalable Effects	9/29/2009	3/30/2010	R0302323	\$11,276	2
Miles, Mike	w/Fullwo od, David	NSF	GOALI: Defect Detection Microscopy: Microstructure Design for Formability of Wrought Magnesium Alloys	8/15/2009	7/31/2012	R0112144	\$2,000	1
Nelson, Tracy		SKB	Friction Stir Processing Industrial Consortium	10/30/2010	10/31/2011	R0602189	\$35,000	4
Nelson, Tracy		ONR	Friction Stir Welding Butt and T- Joints in thin HSLA-65 Steel Plate with low distortion	11/14/2007	6/17/2010	R0202241	\$32,511	1
Nelson, Tracy		Naval Research Lab	Friction Stir Welding of HSLA-65 Steel	12/18/2009	8/31/2010	R0202303	\$3,500	1
Nelson, Tracy		Manufactur ing Tech Inc	NSF for Friction Stir Process IUCRC (Membership Agreement)	4/1/2010	3/31/2012	R0602312	\$17,500	4



Red, Ed	w/Jensen, Greg	NSF	Planning Grant: I/UCRC for next generation Cax Joining the Center for E-design	2/1/2010	1/31/2011	RO112158	\$5,750	1
Sorensen, Carl	w/Nelson, Tracy	ONR	Friction Stir Welding Butt and T-Joints in thin HSLA-65 Steel Plate with low distortion	11/14/2007	6/17/2010	RO202241	\$32,510	1
Sorensen, Carl	w/Nelson, Tracy	Manufacturing Tech Inc	NSF for Friction Stir Process IUCRC (Membersip Agreement)	4/1/2010	3/31/2012	RO602312	\$17,500	4
Thomson, Scott		McGill Univ (NIH)	Design, construction and evaluation of vocal folds implants for partial or total laryngectomy reconstruction	9/19/2008	8/31/2011	RO302278	\$66,500	2
Thomson, Scott		AFOF (ONR)	Experimental and computational analysis of intermittent flapping flights	7/1/2010	6/30/2011	RO202308	\$33,334	1
Thomson, Scott		NIH	Influence of subglottic anatomy on voice production	7/1/2009	6/30/2011	RO102031	\$393,153	1
Tree, Dale		Babcock & Wilcox (DOE)	Ash Desposition and Gas Measurements	6/26/2008	8/31/2010	RO302272	\$46,622	2
Tree, Dale		General Electric	Characterization of Feavy Fuel Oil Particles	9/15/2010	12/31/2010	RO602333	\$34,250	4
Tree, Dale		General Electric	Characterization of Heavy Fuel Oil Particles Produced in a Steady-Flow Burner (Demonstration of Capability) Amendment	9/15/2010	12/31/2010	RO602333	\$5,000	4
Tree, Dale		Babcock & Wilcox	Demonstration of Ash Deposition & Gas Composition	6/26/2008	8/31/2010	RO302272	\$16,978	2
Webb, Brent		NSF	Emerging Engineer Travel Support, Six International Symposium on Radiative Transfer	6/1/2010	5/31/2011	RO112165	\$14,800	1
<b>School of Technology</b>								
Anthony, David	w/Terry, Ron	Michigan Tech. Univ	Family Engineering for Parents and Elementary Children - Test Field Site	2/14/2010	4/30/2010	RO802019	\$1,937	3
Magleby, Spencer	w/Parkinson, Alan	NSF	Development of a Scalable and Sustainable Infrastructure for Global Collaborative Engineering Design Education	9/15/2009	8/31/2011	RO112146	\$43,750	1
Miles, Michael		Battelle Pacific National Lab (DOE)	Impact of PCBN tool design and composition on friction stir spot welding joint performance and tool life for DP 980 Steel	3/26/2010	6/30/2011	RO302334	\$36,864	2
Parkinson, Alan		NSF	Development of a Scalable and Sustainable Infrastructure for Global Collaborative Engineering Design Education	9/15/2009	8/31/2011	RO112146	\$43,750	1
Shumway, Steve	w/Terry, Ron	Michigan Tech. Univ	Family Engineering for Parents and Elementary Children - Test Field Site	2/14/2010	4/30/2010	RO802019	\$1,937	3
Strong, Brent		Hazard Protection Systems, Inc.	Fire Suppression Efficacy Research	6/7/2010	6/7/2011	RO602324	\$40,000	4
Strong, Brent		Hazard Protection Systems Inc.	Optical Flow Switch Research	10/18/2010	2/15/2011	RO602336	\$12,000	4
Terry, Ron		Michigan Tech. Univ	Family Engineering for Parents and Elementary Children - Test Field Site	2/14/2010	4/30/2010	RO802019	\$1,938	3
Wright, Geoff	w/Terry, Ron	Michigan Tech. Univ	Family Engineering for Parents and Elementary Children - Test Field Site	2/14/2010	4/30/2010	RO802019	\$1,937	3

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

Department Totals	
Chemical Engineering	\$3,015,633
Civil & Environmental Engineering	\$1,980,613
Electrical & Computer Engineering	\$2,470,333
Mechanical Engineering	\$3,207,137
School of Technology	\$184,113
<b><i>College Total:</i></b>	<hr/> <b>\$10,857,829</b>

# Engineering & Technology Source Breakdown of Grants and Contracts

<u>Sponsor</u>	<u>No. Awarded</u>	<u>Amount</u>
<b>Federal Sponsors</b>		
AFOF (ONR)	3	\$100,000
AFRL	2	\$150,000
BLM	3	\$50,000
Bureau of Reclamation	2	\$22,794
DARPA	1	\$108,394
DOE	1	\$800,000
NASA	1	\$237,725
NASA – Dryden	4	\$35,000
Naval Research Lab	1	\$3,500
NIH	1	\$393,153
NIST	2	\$627,500
NSF	42	\$2,288,727
ONR	2	\$65,021
PEO STRI SFAC/STRI-KL	2	\$25,000
Sandia National Lab	1	\$30,000
US Army Research Office	2	\$158,722
USGS	1	\$89,699
<i>Total</i>	71	\$5,185,235

# Engineering & Technology

## Source Breakdown of Grants and Contracts

### Federal Subcontracts Sponsors

21 <sup>st</sup> Century Systems (AF)	1	\$300,000
B&W (DOE)	2	\$63,600
Clemson (DARPA)	1	\$205,000
Concepts NREC (NASA-STRR)	1	\$39,428
GE (USDA)	2	\$688,834
Hampton Univ (DOE)	1	\$49,750
IPITEK	11	\$277,375
ISI (DARPA)	2	\$216,356
McGill Univ (NIH)	1	\$66,500
Naval Research Lab	1	\$58,500
NSF	2	\$16,500
Oklahoma State Univ (USDA)	1	\$61,886
Oklahoma State Univ (DOT)	3	\$117,394
Procerus (Army)	2	\$22,551
Procerus Tech (AFOSR)	3	\$222,077
RC&D Inc. (US FWS)	1	\$59,500
Sandia National Lab	2	\$60,000
SET Corp (AFRL)	1	\$110,701
SSCI (STTR)	2	\$23,940
Stanford Univ (NIH)	1	\$108,998
U of Colordao (NASA)	1	\$38,811
UC Santa Cruz (NIH)	1	\$73,250
UDOT (US DOT)	1	\$200,000
U of U (DOE NNSA)	1	\$60,000
U of U (NSF EPSCoR)	1	\$165,000
U of U (NASA)	2	\$75,000
US Bureau of Rec	1	\$11,397
USGS (USU)	1	\$20,000
USU (NRL)	1	\$75,000
<i>Total</i>	52	\$3,474,212

# Engineering & Technology

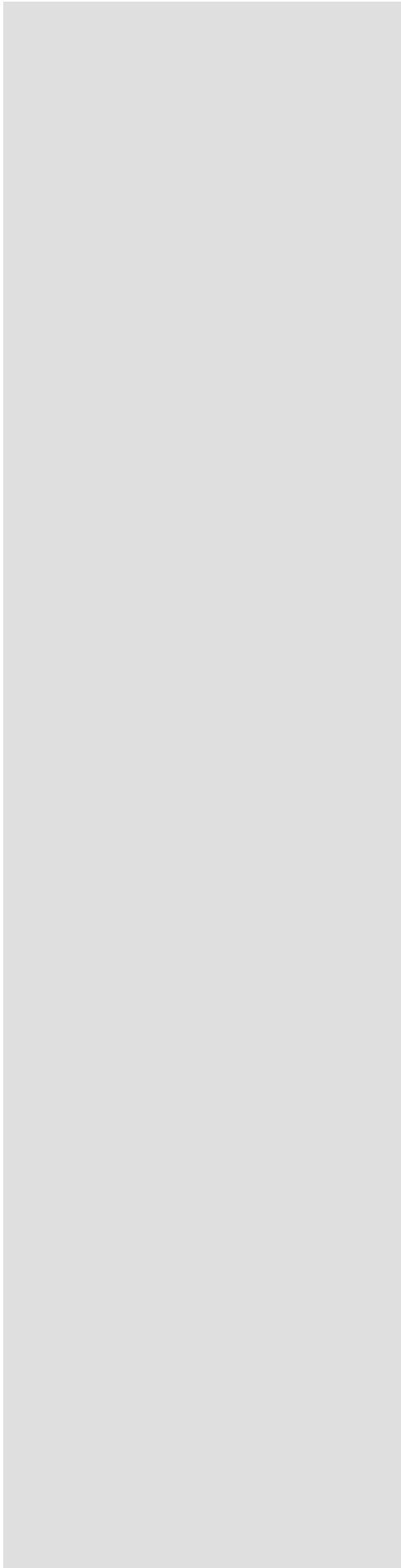
## Source Breakdown of Grants and Contracts

### State Sponsors

Central UT Water Conservancy District	5	\$152,238
Michigan Tech. Univ	4	\$7,749
NSF	2	\$16,500
U of U (Chevron)	1	\$54,450
UDOT	6	\$215,938
Univ of Pittsburg (Murata)	1	\$20,000
US Bureau of Rec	1	\$11,397
<i>Total</i>	20	\$478,278

### Private Sponsors

AIChE	2	\$50,000
CCI Valve	4	\$113,521
Chapman Innovations	1	\$44,757
CIBA Vision	2	\$43,145
Crocker Spinal Tech Inc	2	\$85,000
DIPPR/AIChE	6	\$405,000
GE Global Research	1	\$750
GE	2	\$39,250
Hazard Protection Systems Inc.	2	\$52,000
Honda Research Inst.	1	\$30,000
Insitu Inc.	3	\$12,250
Institute of Electrical and Electronics Engineers Inc. (IEEE)	1	\$37,555
Linear Signal LLC	1	\$79,500
Manufacturing Tech Inc	2	\$35,000
NanoInjections Tech Inc.	5	\$116,214
Northrup Grumman	2	\$84,924
Novatek, Inc.	1	\$176,586
NSF	1	\$12,500
PowerView USA	1	\$11,955
Pratt & Whitney	1	\$60,000
SES	2	\$125,000
Siemens	1	\$30,000
SKB	1	\$35,000
US Bureau of Rec	1	\$11,397
<i>Total</i>	46	\$1,720,104

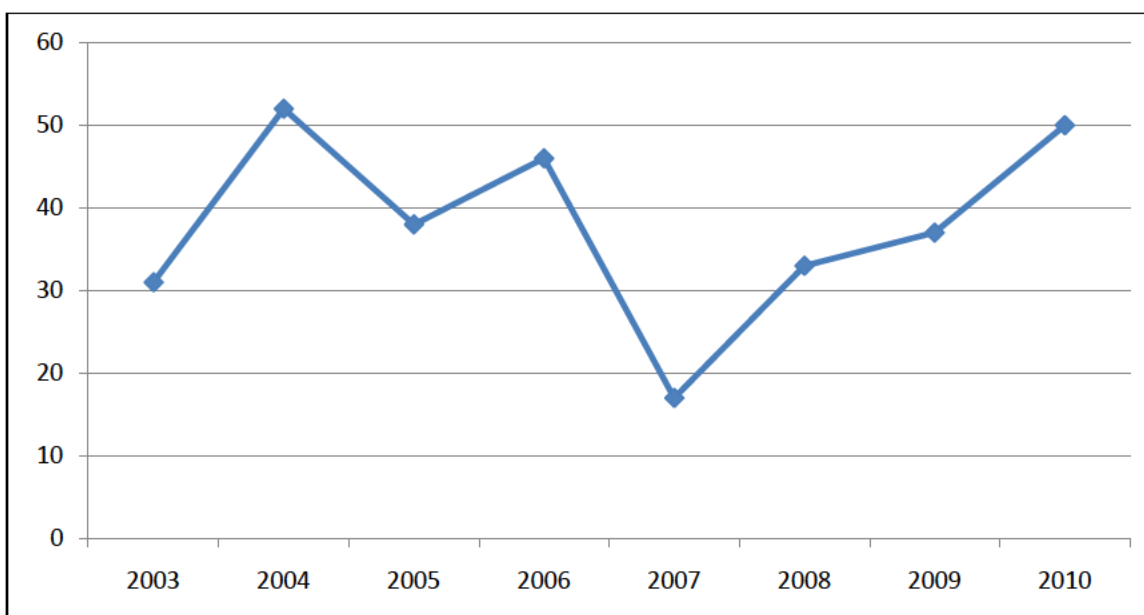


# College of Family, Home & Social Sciences

# Summary of Sponsored Research (Grants & Contracts)

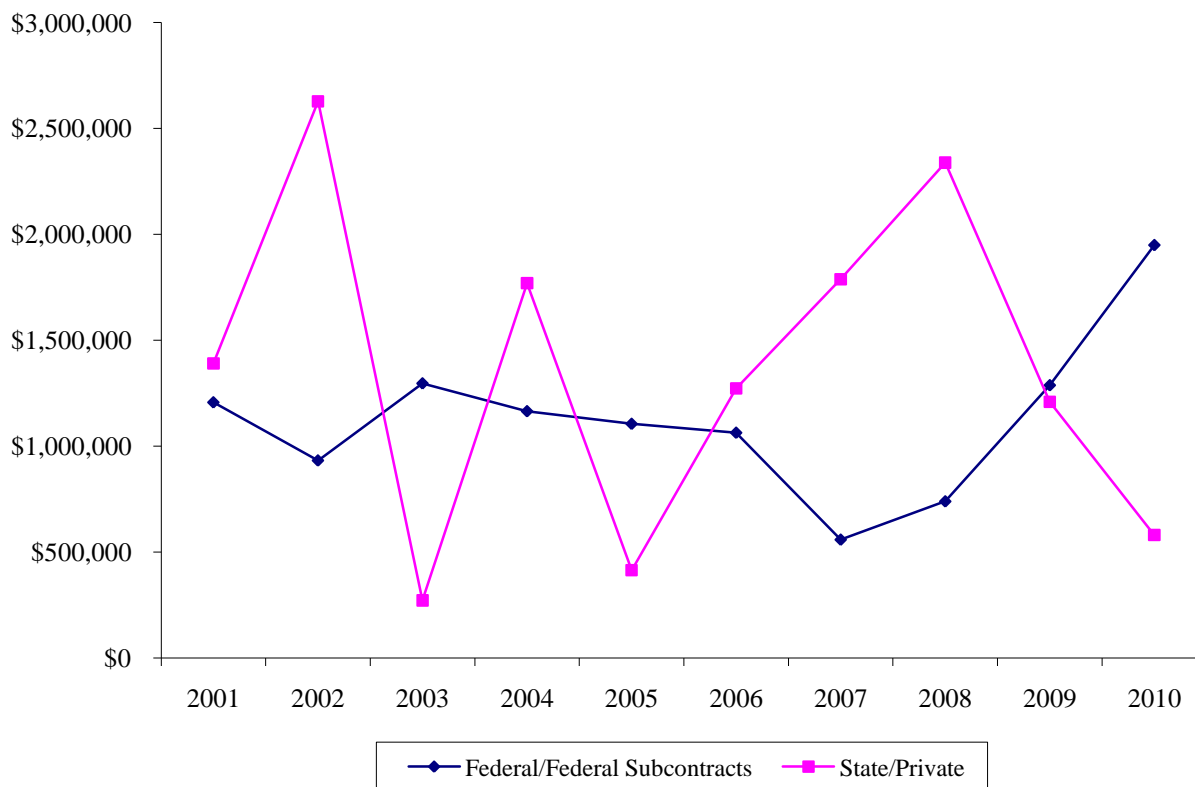
Department	# of Faculty Submitting	# of Proposals Submitted	# of Awards	Dollars Awarded
Anthropology	0	0	0	\$0
Center for Studies of the Family	2	2	0	\$0
Economics	4	8	3	\$212,696
Geography	2	3	1	\$35,640
History	1	1	1	\$6,700
Home and Family Living	0	0	0	\$0
Joseph Fielding Smith Institute	0	0	0	\$0
Marriage & Family Therapy	0	0	0	\$0
Marriage, Family & Human Development	0	0	0	\$0
Museum of Peoples & Cultures	0	0	0	\$0
Office of Public Archaeology	1	3	7	\$99,455
Political Science	11	16	7	\$1,266,960
Psychology	5	8	3	\$474,317
School of Family Life	4	4	0	\$0
Social Work	1	1	1	\$10,584
Sociology	2	4	4	\$422,753
Women's Research Institute	0	0	0	\$0
<b>TOTALS</b>	<b>33</b>	<b>50</b>	<b>27</b>	<b>\$2,529,105</b>

## Proposal Submission Activity



# External Research Funding (All Sources)

Year	Grants/Contracts		Total
	Federal/Federal Subcontracts	State/Private	
2001	\$1,206,835	\$1,390,664	\$2,597,499
2002	\$932,566	\$2,627,620	\$3,560,186
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





# Family, Home & Social Sciences 2010 Awards

<u>PI</u>	<u>Co-PI</u>	<u>Sponsor</u>	<u>Title</u>	<u>Beg Date</u>	<u>End Date</u>	<u>Account</u>	<u>Amount</u>	<u>Type</u>
<b>Economics</b>								
Evans, Rick		Consumer Credit Research Foundation	The Term Structure of Short-term Credit: Theory and Evidence	12/1/2010	10/31/2011	R0502129	\$22,770	4
Price, Joseph		USDA-ERS	Can Default Options and Incentives Improve Food Choices at School?	8/18/2010	10/31/2012	R0152010	\$150,000	1
Ransom, Michael		Alfred Sloan Foundation	Aging and Work in the Academy	4/1/2010	3/1/2011	R0502119	\$39,926	4
<b>Geography</b>								
Jensen, Ryan	w/Petersen, Steven	UDNR - UDWR	Rangeland monitoring of range trend projects using remote sensing and GIS in northern Utah	7/26/2010	4/1/2012	R0402175	\$35,640	3
<b>History</b>								
Daynes, Kathryn		LDS Church	Latin American and Spanish Collections	5/1/2010	12/31/2010	R0702013	\$6,700	4
<b>Office of Public Archeology</b>								
Talbot, Richard		URS Corporation	Historical Survey at Plymouth Utah, Diana Estep Property	2/23/2010	5/15/2010	r0602308	\$7,500	4
Talbot, Richard		URS	Knight-Ideal Loadout Project	4/28/2010	7/1/2010	R0602308	\$5,000	4
Talbot, Richard		Idaho Power	Hagerman Area Cultural Resource Monitoring Project 2010	4/16/2010	12/31/2010	R0602314	\$47,380	4
Talbot, Richard		URS Corporation	Shakespear Cultural Survey	5/4/2010	8/1/2010	R0602320	\$6,110	4
Talbot, Richard		URS Corporation	Ames Lake Point Quarry Historical Survey	6/1/2010	12/1/2010	R0602331	\$6,000	4
Talbot, Richard		URS Corporation	Historical Survey for the Remedial Areas of the Davenport Flagstaff Smelter Site	9/22/2010	12/1/2010	R0602334	\$5,000	4
Talbot, Richard		Trees, Inc.	Moab-Pinto 2010 Mapping Project	10/1/2010	12/31/2010	R0602335	\$10,000	4
Talbot, Richard		Trees, Inc.	Moab-Pinto 2010 Mapping Project	10/1/2010	12/31/2010	R0602335	\$1,671	4
Talbot, Richard		LDS Church	Archeological Inventory and Documentation at Mountain Meadows	9/13/2010	8/31/2011	R0702012	\$10,794	4
<b>Political Science</b>								
Findley, Michael	w/Hawkins, Darren	William & Mary College	Aid Data: 5 Year Plan, Transforming Foreign Aid Information	3/22/2010	2/22/2013	R0502122	\$80,806	4
Findley, Michael		Griffith University	Incorporation Services and Compliance to International Law	6/1/2010	12/31/2010	R0802023	\$1,750	3
Hawkins, Darren		William & Mary College	Aid Data: 5 Year Plan, Transforming Foreign Aid Information	3/22/2010	2/22/2013	R0502122	\$80,807	4
Hyer, Eric		UofU(DoED)	NRC: Intermountain Consortium for Asian & Pacific Studies Diverse Perspectives	8/15/2010	8/14/2011	R0302360	\$122,966	2
Hyer, Eric		UofU(DoED)	Intermountain Consortium for Asian & Pacific Studies: FLAS	8/15/2010	8/14/2014	R0302361	\$286,500	2
Jacoby, Wade		DOE: NRC	BYU Center for the Study of Europe	8/15/2010	8/14/2011	R0132019	\$265,619	1
Jacoby, Wade		DOE: FLAS	BYU Center for the Study of Europe	8/15/2010	8/14/2011	R0132020	\$252,000	1

Monson, Quin		Kent State U (Spencer Foundation)	A Classroom-Based Experiment to Investigate the Linkages Between New Media, Civic Learning, and Civic Action Among Young People	9/1/2010	12/31/2012	Ro802024	\$13,150	3
Nielson, Daniel	w/Hawkins, Darren	William & Mary College	Aid Data: 5 Year Plan, Transforming Foreign Aid Information	3/22/2010	2/22/2013	Ro502122	\$80,806	4
Nielson, Daniel	w/Findley, Michael	Griffith University	Incorporation Services and Compliance to International Law	6/1/2010	12/31/2010	Ro802023	\$1,750	3
Wilson, Sven	w/Hawkins, Darren	William & Mary College	Aid Data: 5 Year Plan, Transforming Foreign Aid Information	3/22/2010	2/22/2013	Ro502122	\$80,806	4

**Psychology**

Bigler, Erin		Columbus Children's Hospital (NIH) Natl	Social Outcomes in Pediatric Traumatic Brain Injury	6/1/2010	5/31/2011	Ro302184	\$80,315	2
Bigler, Erin		Children's Hospital (NIH)	Social Outcomes in Pediatric Traumatic Brain Injury	6/1/2010	5/31/2011	Ro302184	\$80,315	2
Busby, Dean		UT Dept of Workforce Services	Development of a Longitudinal Assessment, Feedback, and Education Process for Couples	7/1/2010	6/30/2011	Ro402177	\$25,300	3
Steffensen, Scott		NIH	Neuropharmacological Substrates of Alcohol Addiction	8/1/2010	7/31/2011	Ro102002	\$288,387	1

**Sociology**

Call, Vaughn		SLC VA	RHRC Research Project	10/1/2010	9/30/2011	Ro302268	\$94,428	2
Erickson, Lance		VA - SLC, UT	Vietnam Veteran Health Care Study	9/22/2010	8/31/2011	Ro202326	\$293,325	1
Ward, Carol		Provo School District	Provo School District 21st Century After School Program Assessment: Farrer and Franklin Elementaries	10/1/2010	9/30/2011	Ro302145	\$25,000	2
Ward, Carol		Chief Dull Knife College (NSF)	NSF Tribal Colleges and Universities Program: Integrated Math and Science Curriculum Evaluation	9/6/2010	9/6/2011	Ro302226	\$10,000	2

**Social Work**

Clark, Charlene	w/MacInnis, Ronalee	UDOCommunity & Culture	BYU Americorps	8/18/2010	8/17/2011	Ro402181	\$10,584	3
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Type: 1=Federal; 2=Federal Subcontract; 3=State; 4=Private

Department Totals

Anthropology	\$0
Economics	\$212,696
Geography	\$35,640
History	\$6,700
School of Family Life	\$0
Joseph Fielding Smith Institute	\$0
Marriage & Family Therapy	\$0
Museum of Peoples & Cultures	\$0
Office of Public Archaeology	\$99,455
Political Science	\$1,266,960
Psychology	\$474,317
Social Work	\$10,584
Sociology	\$422,753
Women's Research Institute	\$0

**College Total:** \$2,529,105

# Family, Home & Social Sciences

## Source Breakdown of Grants and Contracts

Sponsor	No. Awarded	Amount
<b>Federal Sponsors</b>		
DOE: FLAS	1	\$252,000
DOE: NRC	1	\$265,619
NIH	1	\$288,387
USDA-ERS	1	\$150,000
VA – SLC, UT	1	\$293,325
<i>Total</i>	5	\$1,249,331
<b>Federal Subcontract Sponsors</b>		
Chief Dull Knife College (NSF)	1	\$10,000
Columbus Children’s Hospital (NIH)	1	\$80,315
National Children’s Hospital (NIH)	1	\$80,315
Provo School District	1	\$25,000
SLC VA	1	\$94,428
U of U (DoED)	2	\$409,466
<i>Total</i>	7	\$699,524
<b>State Sponsors</b>		
Griffith University	2	\$3,500
Kent State U (Spencer Foundation)	1	\$13,150
UDNR-UDWR	1	\$35,640
UDOCmmuniyt & Culture	1	\$10,584
UT Dept of Workforce Services	1	\$25,300
<i>Total</i>	6	\$88,174
<b>Private Sponsors</b>		
Alfred Sloan Foundation	1	\$39,926
Consumer Credit Research Foundation	1	\$22,770
Idaho Power	1	\$47,380
LDS Church	2	\$17,494
Trees, Inc	2	\$11,671
URS Corporation	5	\$29,610
William & Mary College	4	\$323,225
<i>Total</i>	16	\$492,076

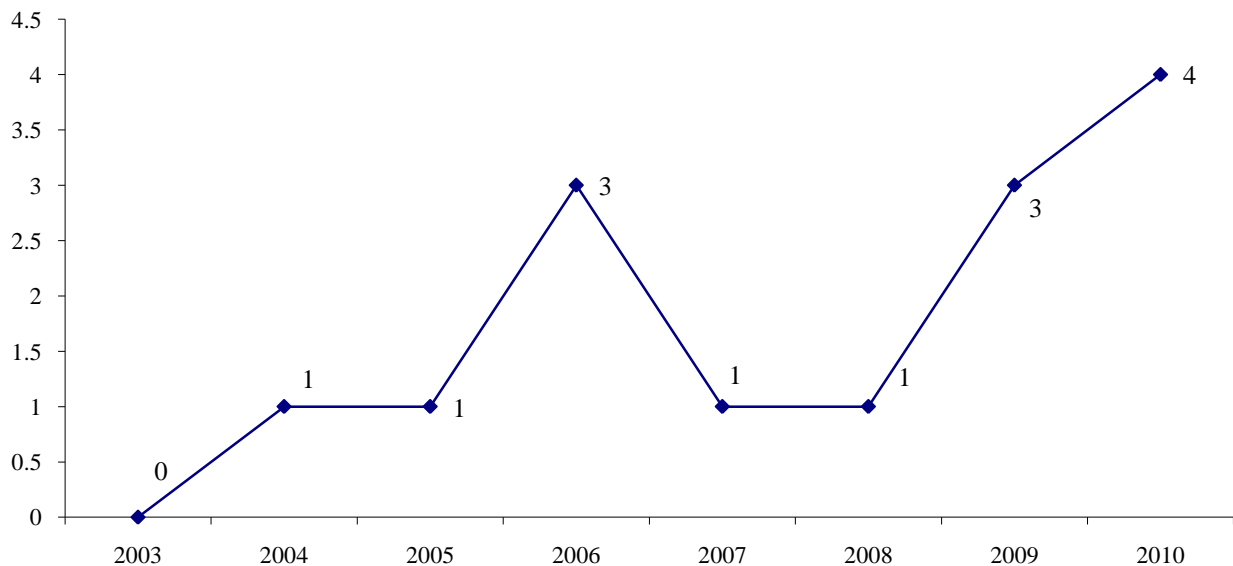


# College of Fine Arts & Communications

# Summary of Sponsored Research (Grants & Contracts)

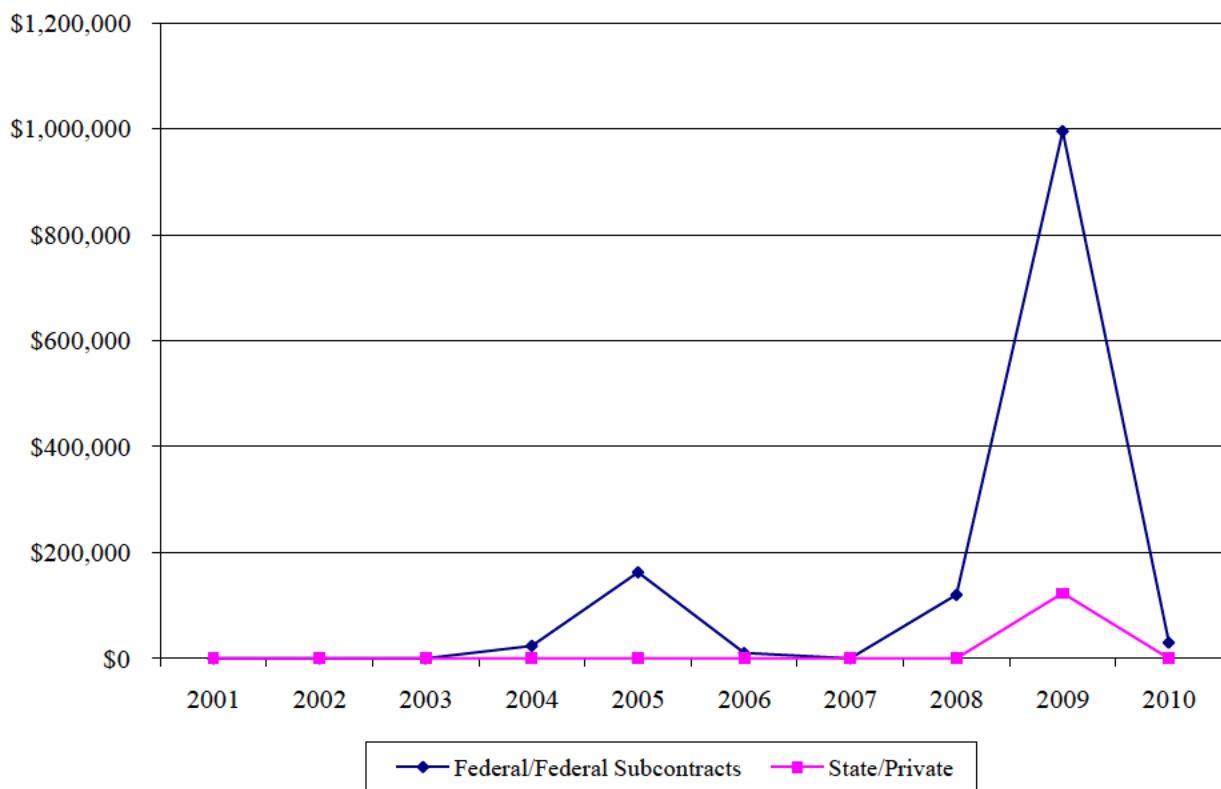
Department	# of Faculty Submitting	# of Proposals Submitted	# of Awards	Dollars Awarded
Communication	0	0	0	\$0
Dance	0	0	0	\$0
Museum of Art	1	1	1	\$30,000
School of Music	2	2	0	\$0
Theatre & Media Arts	1	1	0	\$0
Visual Arts	0	0	0	\$0
<b>TOTALS</b>	<b>4</b>	<b>4</b>	<b>1</b>	<b>\$30,000</b>

# Proposal Submission Activity



# External Research Funding (All Sources)

Year	Grants/Contracts		Total
	Federal/Federal Subcontracts	State/Private	
2001	\$0	\$0	\$0
2002	\$0	\$0	\$0
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



# Fine Arts & Communications

## Source Breakdown of Grants and Contracts

<u>Sponsor</u>	<u>No. Awarded</u>	<u>Amount</u>
<b>Federal Sponsors</b>		
NEH	1	\$30,000
<i>Total</i>	1	\$30,000
<b>Federal Subcontract Sponsors</b>		
None		
<b>State Sponsors</b>		
None		
<b>Private Sponsors</b>		
None		
<i>Total</i>	1	\$30,000

<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>Museum of Art</i>				-	-	-	-	-
Gray, Campbell		NEH	Chairman's Grant for "Beauty and Belief: Crossing Bridges with the Arts of Islam"	2/1/2009	1/31/2010	R0202295	\$30,000	1

<b>Department Totals</b>	
Theatre & Media Arts	\$0
Communications	\$0
Dance	\$0
Museum of Art	\$30,000
School of Music	\$0
<b>College Total:</b>	\$30,000



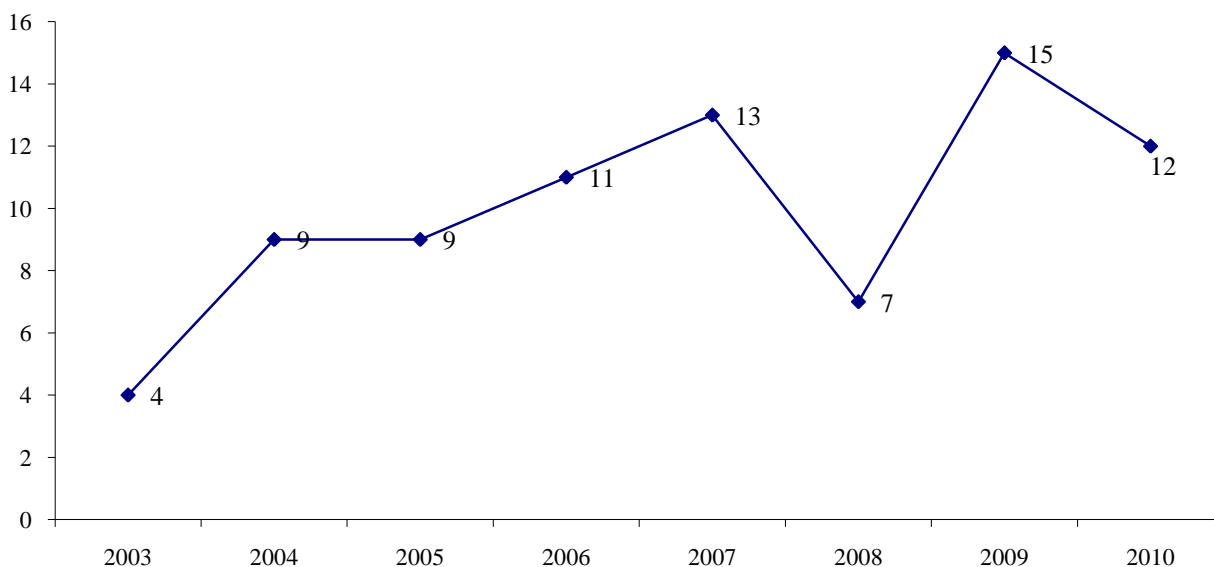
# College of Humanities



# Summary of Sponsored Research (Grants & Contracts)

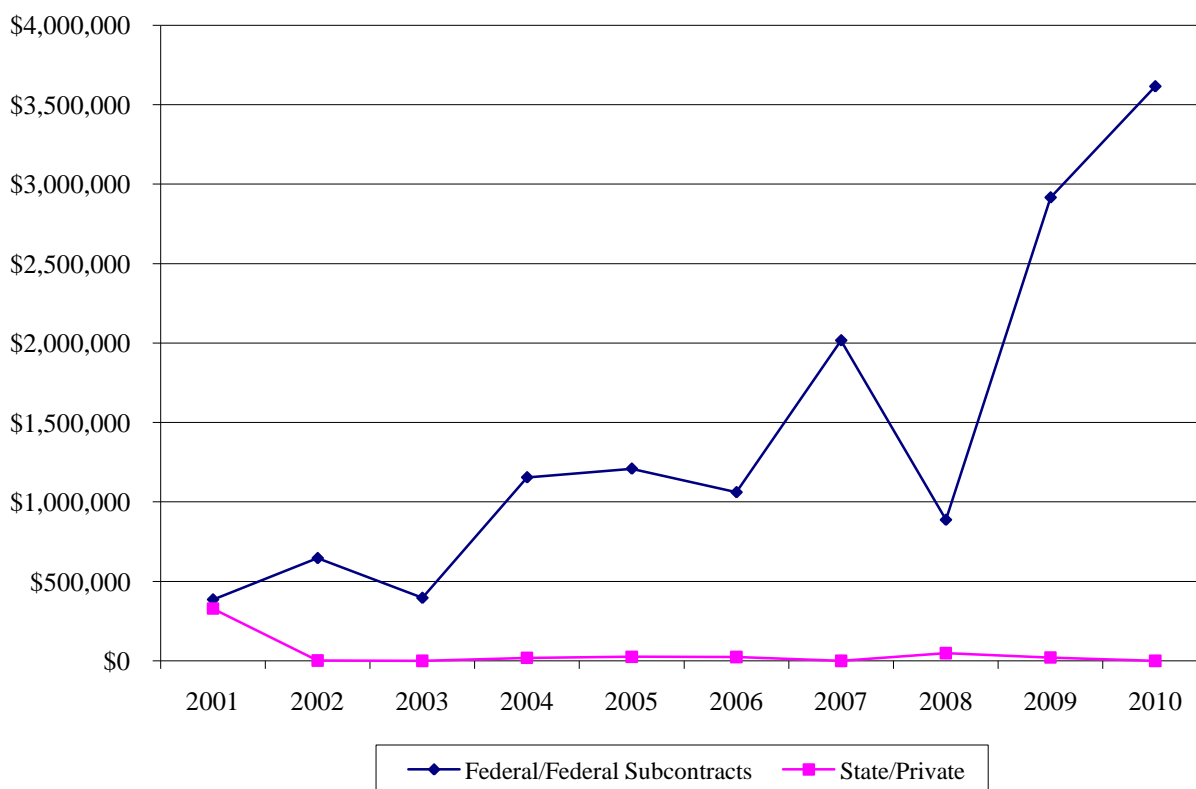
Department	# of Faculty Submitting	# of Proposals Submitted	# of Awards	Dollars Awarded
Asian & Near Eastern Languages	3	7	8	\$1,713,521
Center for Language Studies	2	3	3	\$1,612,790
English	0	0	1	\$46,000
French & Italian	0	0	0	\$0
German & Slavic Languages	0	0	0	\$0
Hum, Classics & Comparative Lit	2	2	2	\$203,282
Linguistics	0	0	1	\$40,500
Philosophy	0	0	0	\$0
Spanish & Portuguese	0	0	0	\$0
<b>TOTALS</b>	<b>7</b>	<b>12</b>	<b>13</b>	<b>\$3,616,093</b>

## Proposal Submission Activity



# External Research Funding (All Sources)

Year	Grants/Contracts		Total
	Federal/Federal Subcontracts	State/Private	
2001	\$385,376	\$328,672	\$714,048
2002	\$645,960	\$1,440	\$647,400
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



# Humanities 2010 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		US Dept of ED	Middle East Language Resource Center	8/15/2010	8/14/2014	R0132018	\$345,850	1
Belnap, Kirk		NSA(NFLC)	BYU Startalk: Summer Arabic Camp	4/5/2010	2/28/2011	R0202300	\$99,917	1
Bourgerie, Dana		NSA(NFLC)	BYU Startalk: Student Program Chinese Flagship Center	4/2/2010	2/28/2011	R0202301	\$100,000	1
Christensen, Matthew		NSA(NFLC)	BYU Startalk: Teacher Program Chinese Flagship Center	4/2/2010	2/28/2011	R0202302	\$80,255	1
Bourgerie, Dana		Inst. Of Intl. Ed. (ED)	Chinese Flagship -Domestic	6/1/2009	5/31/2011	R0302313	\$683,657	1
Bourgerie, Dana		Inst. Of Intl. Ed. (ED)	Chinese Flagship - Nanjing Center	6/1/2009	5/31/2011	R0302314	\$374,119	1
Bourgerie, Dana		Amer Councils for Intl Edu	Cross Language Joint Flagship Assessment Project	9/1/2009	8/31/2010	R0302348	\$16,580	2
Belnap, Kirk	w/Bush, Michael	UC Davis (IIE)	Arabic Encounters	6/1/2009	5/31/2011	R0302372	\$13,143	2
<b>Center for Language Studies</b>								
Clifford, Ray		US Air Force Academy	Foreign Language Tool Development	9/22/2010	9/24/2011	R0202324	\$1,382,000	1
Clifford, Ray		ADL Co-lab (SERCO)	Compare Scoring of Language Tests	8/27/2009	8/27/2010	R0302305	\$62,646	2
Clifford, Ray		ADL (Serco)	Comparing Scoring of Language Tests	8/27/2009	8/27/2011	R0302305	\$155,000	2
Bush, Michael		UC Davis (IIE)	Arabic Encounters	6/1/2009	5/31/2011	R0302372	\$13,144	2
<b>English</b>								
Dean, Deborah		National Writing Project	Central Utah Writing Project	2/1/2009	6/30/2011	R0302280	\$46,000	2
<b>Humanities, Classic &amp; Comparative Literature</b>								
Rosenburg, John		NEH	Summer Seminar for Teachers	10/1/2010	9/30/2011	R0202317	\$140,636	1
Clifford, Ray		Serco(ADL CoLab Hub)	Compare Scoring of Language Tests	8/27/2009	8/26/2010	R0302305	\$62,646	2
<b>Linguistics</b>								
Nuckolls, Janis		NSF	Graduate Research Fellowship Program (Bradley Miller)	6/1/2010	5/31/2013	R0112167	\$40,500	1

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

Department Totals	
Asian & Near Eastern Languages	\$1,713,521
Center for Language Studies	\$1,612,790
English	\$46,000
French & Italian	\$0
German & Slavic Languages	\$0
Hum, Classics & Comparative Lit	\$203,282
Humanities Research Center	\$0
Linguistics	\$40,500
Philosophy	\$0
Spanish & Portuguese	\$0
<b>College Total:</b>	<b>\$3,616,093</b>

# Humanities

## Source Breakdown of Grants and Contracts

<b>Sponsor</b>	<b>No. Awarded</b>	<b>Amount</b>
<b>Federal Sponsors</b>		
Institute of International Education (ED)	2	\$1,057,776
NEH	1	\$140,636
NSA (NFLC)	3	\$280,172
NSF	1	\$40,500
US Air Force Academy	1	\$1,382,000
US Dept of Education	1	\$345,850
<i>Totals</i>	9	\$3,246,934
<b>Federal Subcontracts Sponsors</b>		
ADL (Serco)	2	\$217,646
American Councils of International Ed	1	\$16,580
National Writing Project	1	\$46,000
Serco (ADL CoLab Hub)	1	\$62,646
UC Davis (IIE)	2	\$26,287
<i>Totals</i>	7	\$369,159
<b>Private</b>		
None	0	\$0
<i>Totals</i>	0	\$0

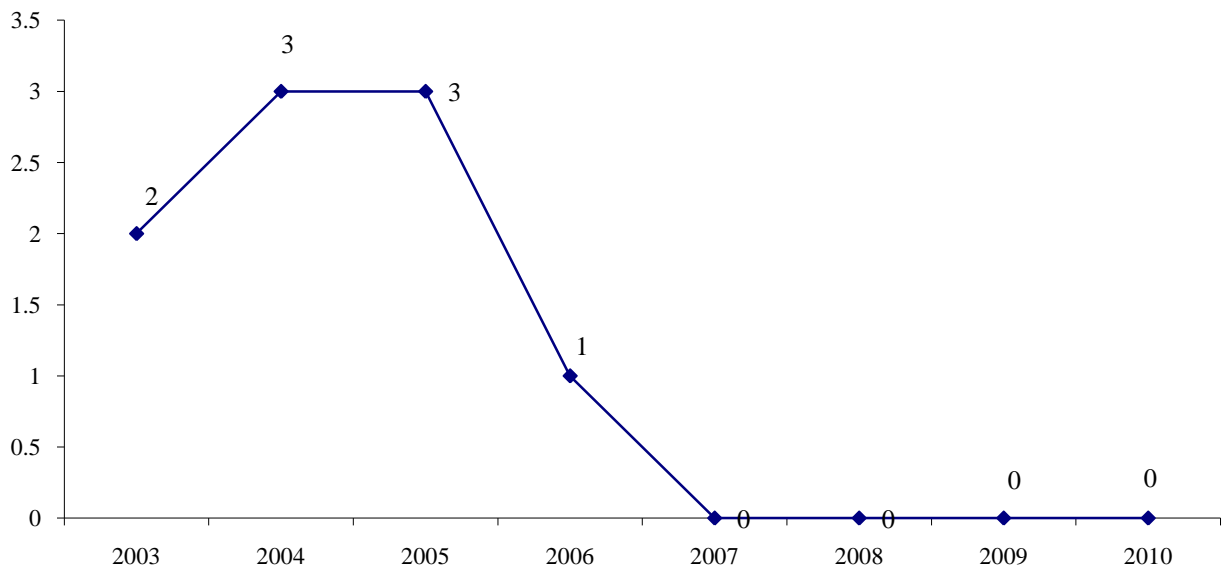


# J. Reuben Clark Law School

# Summary of Sponsored Research (Grants & Contracts)

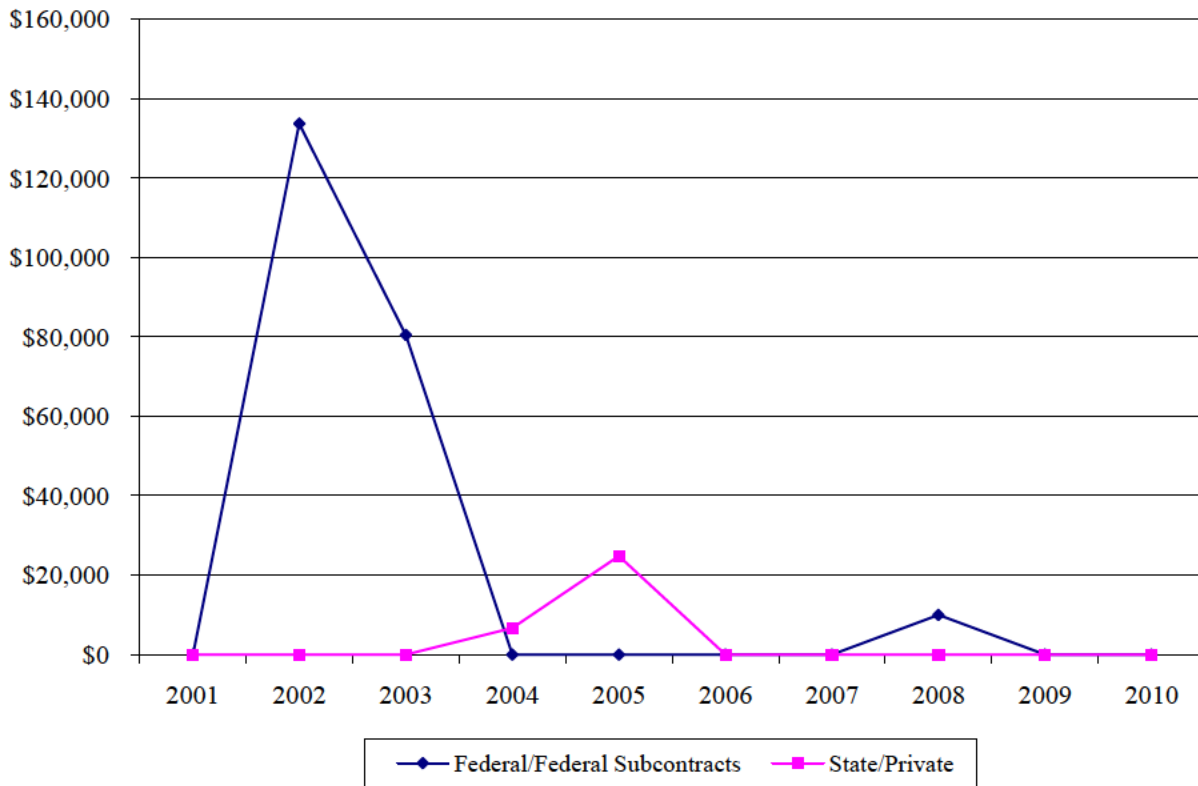
Department	# of Faculty Submitting	# of Proposals Submitted	# of Awards	Dollars Awarded
Law School	0	0	0	\$0
<i>TOTALS</i>	0	0	0	\$0

## Proposal Submission Activity



# External Research Funding (All Sources)

Year	Grants/Contracts		Total
	Federal/Federal Subcontracts	State/Private	
2001	\$0	\$0	\$0
2002	\$133,653	\$0	\$133,653
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



Department Totals  
Law School  
**College Total:**

\$0  
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\$0



# J. Reuben Clark Law School

## Source Breakdown of Grants and Contracts

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

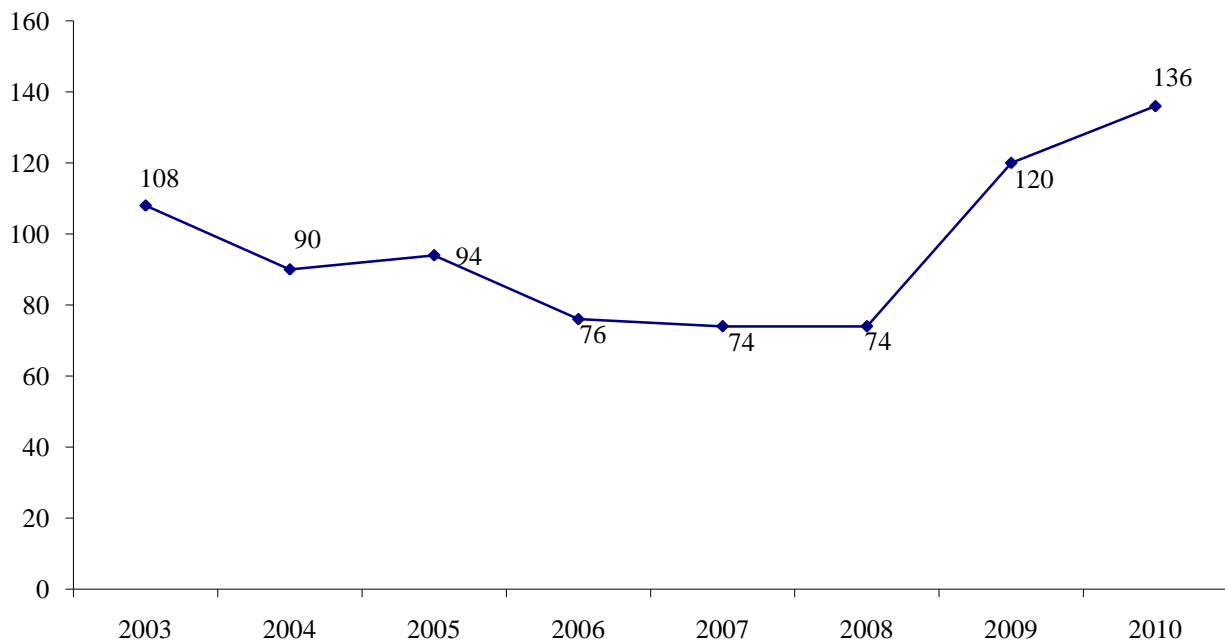


# College of Life Sciences

# Summary of Sponsored Research (Grants & Contracts)

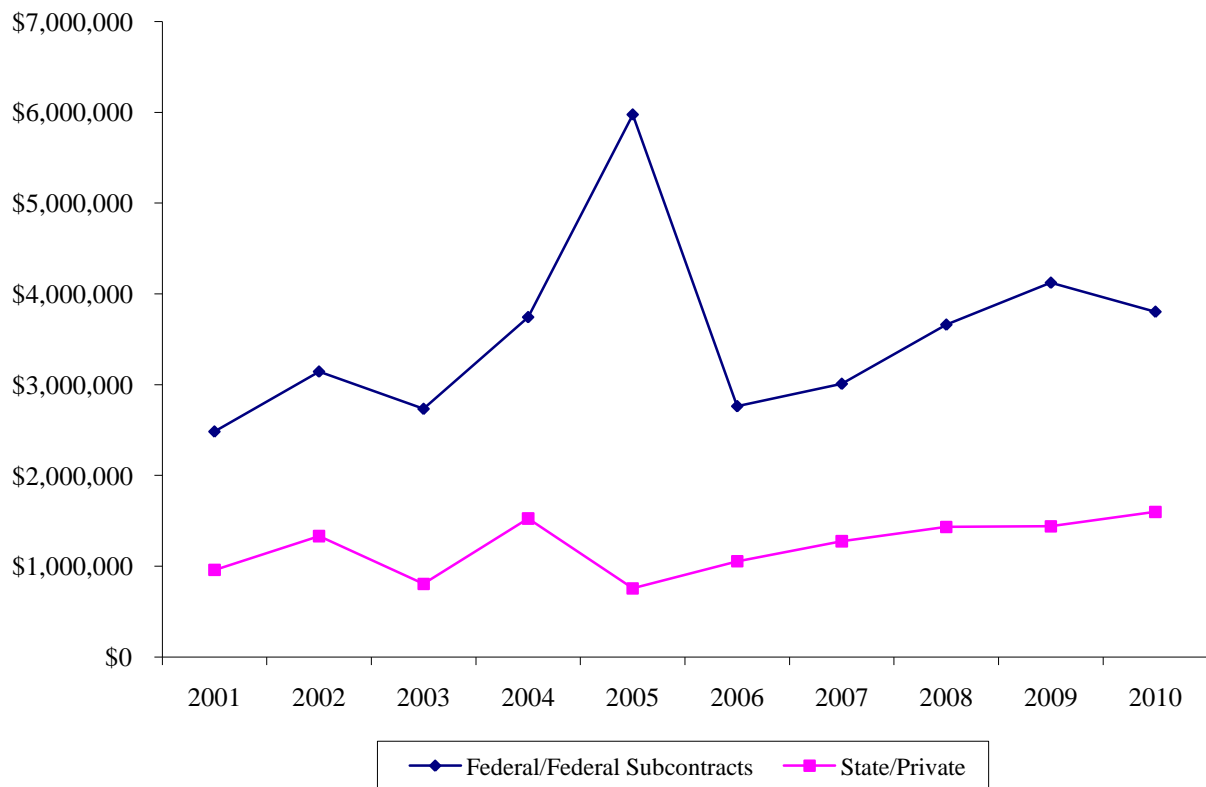
Department	# of Faculty Submitting	# of Proposals Submitted	# of Awards	Dollars Awarded
Monte Bean Life Science Museum	0	0	1	\$24,000
Integrative Biology	20	51	28	\$1,285,402
Exercise Science	4	3	2	\$13,875
Health Science	1	1	1	\$3,000
Microbiology & Molecular Biology	14	22	8	\$689,210
Nutrition, Dietetics & Food Science	4	6	8	\$419,044
Physiology & Developmental Biology	11	13	5	\$594,018
Plant & Wildlife Science	21	40	25	\$2,373,501
<b>TOTALS</b>	<b>75</b>	<b>136</b>	<b>78</b>	<b>\$5,402,050</b>

## Proposal Submission Activity



# External Research Funding (All Sources)

Year	Grants/Contracts		Total
	Federal/Federal Subcontracts	State/Private	
2001	\$2,484,780	\$958,960	\$7,240,131
2002	\$3,144,951	\$1,331,910	\$5,384,623
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



# College of Life Sciences 2010 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>Monte Bean Life Science Museum</b>								
St. Clair, Larry		Jordan School District	Education Partnership	8/1/2009	7/31/2011	R0502113	\$24,000	4
<b>Biology</b>								
Adams, Byron		NSF	RUI Tardigrades of the LTER sites	4/1/2007	3/31/2010	R0112094	\$15,000	1
Adams, Byron		NSF	RUI Tardigrades of the LTER sites	4/1/2007	3/31/2011	R0112094	\$39,102	1
Belk, Mark		US Dept Interior - BLM	BLM WY HDD Northern Leatherside Study	1/6/2010	12/31/2015	R0202297	\$80,000	1
Belk, Mark	w/ Hotchkiss, Rollin	UDOT	Culvert Roughness Elements for Native Utah Fish Passage	1/1/2010	4/1/2011	R0402156	\$13,033	3
Belk, Mark		Central Utah Water Conservancy District	Characterization of mouth shape phenotype in the captive brood stock of June sucker	4/26/2010	4/30/2011	R0402164	\$22,964	3
Cates, Rex		LDS Welfare Services	Improving the Quality of Life of Impoverished Rural Villagers in Guatemala	5/4/2010	5/3/2011	R0702011	\$50,000	4
Crandall, Keith		NSF	Collaborative: Developing genomic tools for integrative bio research	9/1/2010	8/31/2012	R0112175	\$50,000	1
Crandall, Keith		NPS	Assess Genetic Distinctiveness of <i>Cambarus acuminatus</i>	9/1/2008	1/30/2012	R0202254	\$39,774	1
Evans, R. Paul	w/Shiozawa, Dennis	US Dept of Interior	Genetic Evaluation of Bonneville Cutthroat Trout Conservation	9/1/2010	11/30/2011	R0202322	\$19,857	1
Gill, Richard		USDA-Forest Service	Interior West Forest Inventory and Analysis(FIA)	7/30/2010	10/31/2011	R0202313	\$49,698	1
Gill, Richard	w/St. Clair, Sam	USDA - NIFA	Climate Driven invasive grass-fire cycles	9/1/2010	8/31/2013	R0202325	\$83,834	1
Gill, Richard		Wash St Univ(NSF)	Weathering undercover: Role of biofilms in mineral weathering	8/1/2010	7/31/2012	R0302367	\$17,280	2
Hanegan, Nicki	w/Udall, Joshua	NSF(thru Iowa State U)	Comparative Evolutionary Genomics of Cotton - Supplement	4/12/2010	2/28/2011	R0302284	\$27,900	2
Hanegan, Nikki	w/Udall, Joshua	NSF(Iowa State U.)	Comparative Evolutionary Genomics of Cotton	9/7/2010	2/29/2012	R0302284	\$56,714	2
Johnson, Jerald		UDWR	Identifying the drainage of origin of leatherside chub	7/1/2010	12/31/2010	R0402176	\$5,200	3
Johnson, Jerry		Texas A&M (NSF)	anyFISH: user-friendly software creating realistic animations of animal behavior	9/15/2010	8/31/2012	R0302353	\$52,782	2
Johnson, Leigh		BLM, Dept of Interior	Cycladenia Humilis Continuation Project	8/25/2008	8/31/2013	R0202251	\$10,000	1
Johnson, Leigh		BLM	Toward a comprehensive database of Utah plant herbarium records	3/1/2010	2/28/2015	R0202314	\$3,850	1
Kauwe, John		Wash Univ (NIH)	Genomic Search for Susceptibility to Alzheimer's Disease	9/1/2009	8/31/2011	R0302309	\$77,982	2
Rader, Russell	w/ Hotchkiss, Rollin	UDOT	Culvert Roughness Elements for Native Utah Fish Passage	1/1/2010	4/1/2011	R0402156	\$13,033	3
Roeder, Beverly		US Dept of Interior	Stable Isotope Ecology of Great Basin National Park	8/1/2009	9/30/2011	R0202286	\$2,985	1
Shiozawa, Dennis		US Dept of Interior	Genetic Evaluation of Bonneville Cutthroat Trout Conservation	9/1/2010	11/30/2011	R0202322	\$19,858	1
Shiozawa, Dennis		UDNR	Greenback Cutthroat Trout: Native or Introduced	7/1/2010	6/30/2011	R0402166	\$2,500	3
Shiozawa, Dennis		Colorado Div of Wildlife	Genetic Analysis of Trout	4/27/2009	12/31/2011	R0492029	\$14,592	3
Song, Hojun		NSF	REU Supplement - Evolution of Male Genitalia and Study of Nuclear Mitochondrial Pseudogenes	4/9/2010	8/31/2011	R0112124	\$3,000	1
St. Clair, Larry		USDA - Forest Service	Expanding the Lichen, Air Quality Bio-Monitoring Program	3/23/2009	12/31/2012	R0202267	\$3,749	1
St. Clair, Larry		USDA, National Forest	Scheduled Air Quality Bio-Monitoring Re-Evaluation	8/11/2010	3/31/2013	R0202318	\$21,367	1
St. Clair, Larry		USDA Ashley N. Forest	Analysis of sensitive indicator species for pollutant elements	9/30/2010	9/30/2011	R0202323	\$2,000	1
Whipple, Clinton		CSHL (USDA)	Regulatoin of Bract Suppression in the Cereals	9/1/2009	8/31/2011	R0302306	\$66,899	2
Whipple, Clinton J.		NSF	Function and Evolution of Grass B Class Floral Hemeotic Proteins	9/1/2010	8/31/2013	R0112166	\$359,826	1
Whiting, Michael		NSF	REU Supplement - Assembling the beetle tree of life	5/11/2010	9/30/2010	R0112071	\$6,000	1
Whiting, Michael	w/Song, Hojun	NSF	REU Supplement - Evolution of Male Genitalia and Study of Nuclear Mitochondrial Pseudogenes	4/9/2010	8/31/2011	R0112124	\$3,000	1
Whiting, Michael		U of Cntrl Florida (NSF)	Phylogenetic Systematics of Orthoptera (insecta)	9/14/2010	8/31/2011	R0302359	\$51,623	2

**Exercise Science**

Hunter, Iain		US Track & Field	Sports Analysis	10/4/2003	9/30/111	R0502040	\$4,000	4
Seeley, Matthew K.		Perfect Water & Essentials	Perfect Empowered Drinking Water	2/1/2010	7/30/2010	R0602305	\$9,875	4

**Health Science**

Thygerson, Steven		Spencer Education	Internship Grant	3/15/2010	8/31/2010	R0502117	\$3,000	4
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**Microbiology & Molecular Biology**

Burnett, Sandra	w/Jensen, Bryan	NanoInjections Tech Inc.	Advancement of Nanoinjection Technology III	2/1/2010	2/14/2011	R0602306	\$42,462	4
Evans, R. Paul	w/Shiozawa, Dennis	UDNR	Greenback Cutthroat Trout: Native or Introduced	7/1/2010	6/30/2011	R0402166	\$2,500	3
Grose, Julianne		NIH(U of Utah)	S. cerevisiae as a model system for studying protein aggregation cardiomyopathy	9/30/2009	7/31/2010	R0302336	\$9,999	2
Nielsen, Brent		NAS (Dept of State)	Building Capabilities for the Molecular and Biochemical Characterization of Chloroplast	11/15/2010	11/14/2011	R0302363	\$64,975	2
Robison, Richard	w/Lee, Milton	DTRA	Differentiation of Bacterial Biothreat Agents Using Thermochemolysis Methylation and Gas Chromatography-Mass Spectrometry	9/9/2010	9/14/2012	R0202320	\$228,853	1
Robison, Richard		Battelle National BI	A curated archive of viable select bacterial agents for Bioforensic Casework	3/5/2008	3/4/2011	R0302243	\$312,000	2
Robison, Richard		LLNL	Bacillus Anthracis Sterne Endospore Production	5/25/2010	5/21/2010	R0302328	\$8,523	2
Wilson, Eric		Montana State(USDA)	Expression and function of bovine CCL28	9/1/2008	8/30/2010	R0302263	\$19,898	2

**Nutrition, Dietetic & Food Science**

Christensen, Merrill		NIH	Timing of exposure of selenium and isoflavones and prostrate cancer prevention	4/1/2010	3/31/2013	R0102047	\$112,500	1
Ogden, Lynn		Basic American Foods	Consumer Sensory Panels	1/1/2010	12/31/2010	R0602302	\$15,632	4
Ogden, Lynn		Basic American Foods	Food Sampling	1/1/2010	12/31/2010	R0602302	\$10,440	4
Ogden, Lynn		Basic American Foods	Consumer sensory panels	1/1/2010	12/31/2011	R0602302	\$25,216	4
Ogden, Lynn		Basic American Foods	Consumer Sensory Panels	1/1/2010	12/31/2010	R0602302	\$14,348	4
Ogden, Lynn		LDS Welfare Svc	BYU Quality Assurance Laboratory	1/1/2011	12/31/2011	R0700031	\$169,950	4
Ogden, Lynn		LDS Welfare Services	Consumer acceptance testing of existing product	1/1/2010	12/31/2010	R0700034	\$10,000	4
Ogden, Lynn		Basic American Foods	Tasting Panel	1/1/2010	12/31/2010	R0602302	\$5,648	4
Ogden, Lynn		Basic American Foods	Consumer Sensory Panels	1/1/2010	12/31/2010	R0602302	\$6,960	4
Parker, Tory		J Carnet of Utah(USDA UDAF)	Quality characteristics and antioxidant activity of Red Raspberries	9/30/2009	3/31/2012	R0302331	\$5,300	2
Parker, Tory		UDAF	Quality Characteristics and antioxidant activity of Raspberries	9/30/2009	3/31/2012	R0302331	\$1,200	2
Steele, Frost		Deseret Meats	Pathogen analysis for meat products produced at Deseret Meats	1/1/2010	12/31/2010	R0702001	\$41,850	4

**Physiology & Developmental Biology**

Lephart, Edwin	w/Christensen, Merrill	NIH	Timing of exposure of selenium and isoflavones and prostrate cancer prevention	4/1/2010	3/31/2013	R0102047	\$112,500	1
Reynolds, Paul		FAMRI	Rage-Medicated Effects of Pulmonary Inflammation and Emphysema	7/1/2010	6/30/2012	R0502111	\$108,500	4
Seegmiller, Robert		NIH	Common mechanisms of Osteoarthritis in three mouse models	5/27/2010	9/30/2010	R0102050	\$49,650	1
Stark, Michael		NIH	Genes regulating neurogenesis in the trigeminal placode	5/1/2010	9/30/2010	R0102048	\$12,485	1
Winder, Will		NIH	Regulation of Skeletal Muscle LKB1	6/1/2010	5/31/2011	R0102026	\$310,883	1

**Plant & Wildlife Sciences**

Aanderud, Zach	w/St. Clair, Sam	BLM - Utah	Factors contributing to the emergence of invasive plants/fire cycles	6/1/2010	5/31/2013	R0202306	\$34,393	1
Aanderud, Zach	w/St. Clair, Sam	USDA - NIFA	Climate Driven invasive grass-fire cycles	9/1/2010	8/31/2013	R0202325	\$83,835	1

Allen, Phil		USDA Forest Service	Developing a delivery system for annual brome biological control	8/5/2010	12/31/2012	R0202315	\$62,000	1
Allphin, Loreen		USDA - Forest Service	Gene flow among populations of the Wasatch shooting star	7/14/2010	9/30/2015	R0202311	\$18,890	1
Baxter, Rick	w/Larsen, Randy	Utah Reclamation Mit	Recovery Study of Greater Sage Grouse in Strawberry Valley, UT	5/1/2009	7/30/2011	R0402146	\$20,000	3
Flinders, Jerran	w/Larsen, Randy	Utah Reclamation Mit	Recovery Study of Greater Sage Grouse in Strawberry Valley, UT	5/1/2009	7/30/2011	R0402146	\$20,000	3
Geary, Brad		NAC/ISDA	Mutation Breeding of Penstemon for Use in the Green Industry	2/11/2010	12/31/2010	R0492030	\$3,900	3
Geary, Brad		Wash State Potato Comm	Potassium Nutrition influencing Verticillium(Early Dying)Disease	7/1/2020	6/30/2011	R0602311	\$19,500	4
Jellen, Eric		USDA ARS PWA	Oat SNP Development & Identification of Loci Affecting Key Traits	5/18/2010	8/31/2010	R0202305	\$33,144	1
Jellen, Eric N.		USDA-CSREES-AFRI	Oat NSF Pevelopment and Identification of Loci Affecting Key traits	5/18/2010	8/31/2012	R0202305	\$6,800	1
Larsen, Randy		No Dakota Game & Fish	Effects of energy development on the nesting of sharp-tailed grouse	4/1/2010	6/30/2014	R0302333	\$160,000	3
Larsen, Randy		Utah Reclamation Mit	Recovery Study of Greater Sage Grouse in Strawberry Valley, UT	5/1/2009	7/30/2011	R0402146	\$20,000	3
Larsen, Randy	w/Petersen, Steven	UDWR	Greater Sage-grouse habitat selection at Multiple Spatial Scales	2/1/2010	9/30/2013	R0402158	\$150,000	3
Larsen, Randy		State of Utah(UDWR)	Kit Fox Research-Study the impacts of artificial water and coyotes	4/15/2010	6/30/2012	R0402162	\$41,608	3
Larsen, Randy		State of Utah(UDWR)	Effects of reduced predator control on Strawberry Valley sage-grouse population	1/1/2010	6/30/2012	R0402163	\$32,700	3
Larsen, Randy		Utah Div of Wildlife Resources	Occurrence, Habitat use, and limiting factors affecting Pygmy Rabbit	7/1/2010	6/30/2011	R0402165	\$76,170	3
Larsen, Randy		Utah DWR	Assessment of Pygmy Rabbit Response to Installation of the Ruby Pipeline in North-Eastern Utah	7/1/2010	6/30/2011	R0402169	\$80,000	3
Larsen, Randy		Utah DWR	Chukar Population and Resease Evaluations	7/1/2010	6/30/2011	R0402170	\$28,567	3
Larsen, Randy		Utah DWR	Guidelines for Effective Placement and Uwe of Wildlife Water Dev	7/1/2010	6/30/2011	R0402171	\$69,267	3
Larsen, Randy		Water for Wildlife	Benefit, impacts and proper spacing of guzzlers for chukers	4/1/2010	6/30/2011	R0502066	\$5,000	4
Maughan, Peter J.		McKnight Foundation	Quinoa Study - Bolivia	3/1/2010	6/30/2011	R0502121	\$10,000	4
McMillan, Brock	w/St. Clair, Sam	BLM - Utah	Factors contributing to the emergence of invasive plants/fire cycles	6/1/2010	5/31/2013	R0202306	\$34,393	1
McMillan, Brock	w/St. Clair, Sam	USDA - NIFA	Climate Driven invasive grass-fire cycles	9/1/2010	8/31/2013	R0202325	\$83,835	1
McMillan, Brock	w/Randy Larsen	State of Utah(UDWR)	Kit Fox Research-Study the impacts of artificial water and coyotes	4/15/2010	6/30/2012	R0402162	\$41,607	3
Petersen, Steven	w/St. Clair, Sam	USDA - NIFA	Climate Driven invasive grass-fire cycles	9/1/2010	8/31/2013	R0202325	\$83,834	1
Petersen, Steven		UDWR	Greater Sage-grouse habitat selection at Multiple Spatial Scales	2/1/2010	9/30/2013	R0402158	\$150,000	3
Petersen, Steven		UDNR - UDWR	Rangeland monitoring of range trend projects using remote sensing and GIS in northern Utah	7/26/2010	4/1/2012	R0402175	\$35,640	3
Roundy, Bruce		USDA - Forest Service	Pinon and juniper tree mastication effects in the Great Basin	7/7/2010	6/13/2010	R0202310	\$506,982	1
St. Clair, Sam		BLM - Utah	Factors contributing to the emergence of invasive plants/fire cycles	6/1/2010	5/31/2013	R0202306	\$34,394	1
St. Clair, Sam		USDA - NIFA	Climate Driven invasive grass-fire cycles	9/1/2010	8/31/2013	R0202325	\$83,835	1
Stevens, Mikel	w/Geary, Brad	NAC/ISDA	Mutation Breeding of Penstemon for Use in the Green Industry	2/11/2010	12/31/2010	R0492030	\$3,900	3
Stevens, Mikel		Nunhems	Crossing Nunhems Inbred Seed with CK12 - Germplasm	3/23/2010	3/22/2011	R0602309	\$5,000	4
Terry, Richard E.		NSF	REU - Geochemical Detection of Ancient Maya Exchange Environ	6/12/2010	9/30/2011	R0112155	\$6,400	1
Udall, Joshua		USDA - Forest Service	Big Sagebrush DNA sequencing and alignment to assess environmental adaptation for restoration	4/16/2010	6/1/2014	R0202288	\$40,000	1
Udall, Joshua		Iowa State (NSF)	Comparative Evolutionary Genomics of Cotton	3/30/2009	2/28/2011	R0302284	\$155,293	2
Udall, Joshua		NSF(thru Iowa State U)	Comparative Evolutionary Genomics of Cotton - Supplement	4/12/2010	2/28/2011	R0302284	\$27,900	2
Udall, Joshua		NSF(Iowa State U.)	Comparative Evolutionary Genomics of Cotton	9/7/2010	2/29/2012	R0302284	\$56,714	2
Udall, Joshua	w/Maughan, Peter J.	McKnight Foundation	Quinoa Study - Bolivia	3/1/2010	6/30/2011	R0502121	\$10,000	4
Webb, Bruce		USGS	Soil and Plant Analysis	7/2/2010	9/28/2010	R0202114	\$15,000	1

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

Department Totals	
Biology	\$1,285,402
Health Science	\$3,000
Exercise Science	\$13,875
Microbiology & Molecular Biology	\$689,210
Nutrition, Dietetics & Food Science	\$419,044
Physiology & Developmental Biology	\$594,018
Plant & Wildlife Science	\$2,373,501
Bean Museum	\$24,000
Benson	\$0
<b>College Total:</b>	<hr/> \$5,402,050



# Life Sciences

## Source Breakdown of Grants and Contracts

<b>Sponsor</b>	<b>No. Awarded</b>	<b>Amount</b>
<b>Federal Sponsors</b>		
BLM	6	\$197,030
DTRA	1	228,853
NIH	5	\$598,018
NPS	1	\$39,774
NSF	8	\$482,328
US Dept of Interior	3	\$42,700
USDA – Forest Service	7	\$702,686
USDA – NIFA	5	\$419,173
USDA – ARS PWA	1	\$33,144
USDA – Ashley N. Forest	1	\$2,000
USDA – CSREES – AFRI	1	\$6,800
USGS	2	\$38,000
<i>Total</i>	41	\$2,790,506
<b>Federal Subcontract Sponsors</b>		
Battelle National BL	1	\$312,000
CSHL (USDA)	1	\$66,899
Iowa State (NSF)	1	\$155,293
J Carnet of Utah (USDA, UDAF)	1	\$5,300
LLNL	1	\$8,523
Montana State (USDA)	1	\$19,898
NAS (Dept of State)	1	\$64,975
NIH (Univ of Utah)	1	\$9,999
NSF (Iowa State U)	4	\$169,228
Texas A&M (NSF)	1	\$52,782
U of Central Florida (NSF)	1	\$51,623
UDAF	1	\$1,200
Washington St. U (NSF)	1	\$17,280
Washington Univ (NIH)	1	\$77,982
<i>Total</i>	17	\$1,012,982

**State Sponsors**

Central UT Water Conservancy District	1	\$22,964
Colorado Division of Wildlife	1	\$14,592
NAC/ISDA	2	\$7,800
North Dakota Game & Fish	1	\$160,000
State of Utah (UDWR)	3	\$115,915
UDNR	2	\$5,000
UDNR - UDWR	1	\$35,640
UDOT	2	\$26,066
UDWR	7	\$559,204
Utah Reclamation Mit	3	\$60,000
<i>Total</i>	23	\$1,007,181

**Private Sponsors**

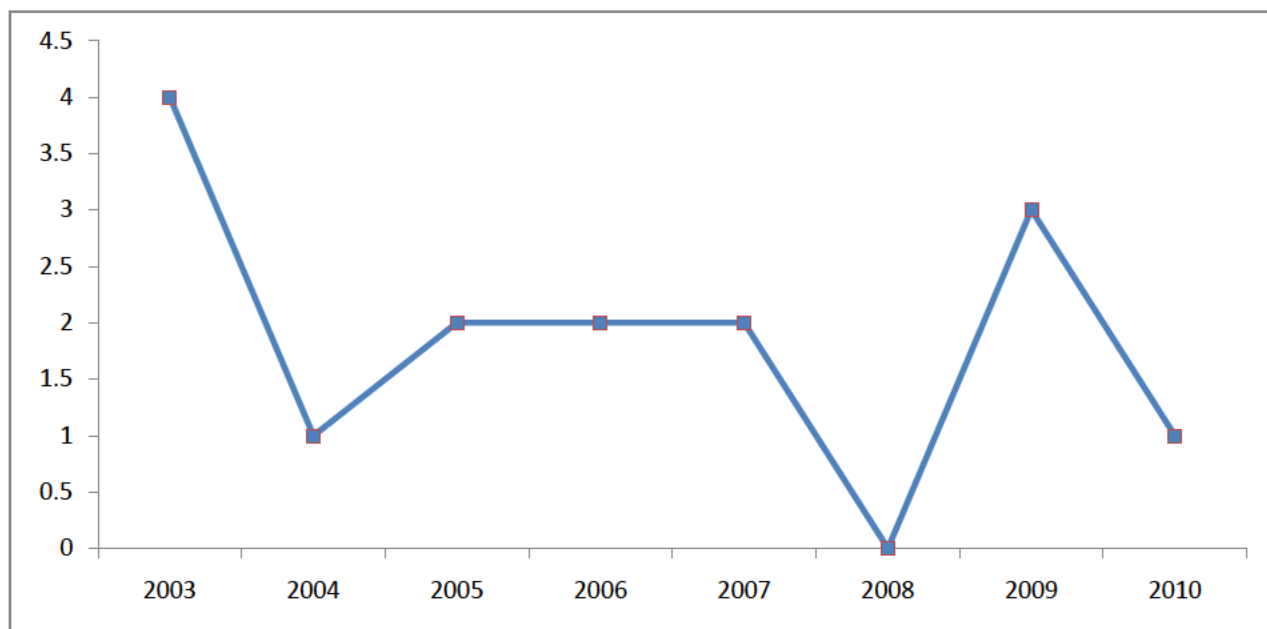
Basic American Foods	6	\$78,244
Deseret Meats	1	\$41,850
FAMRI	1	\$108,500
Jordan School District	1	\$24,000
LDS Welfare Services	3	\$229,950
McKnight Foundation	2	\$20,000
NanoInjections Tech Inc.	1	\$42,462
Nunhems	1	\$5,000
Perfect Water & Essentials	1	\$9,875
Spencer Education	1	\$3,000
US Track & Field	1	\$4,000
Wash State Potato Comm	1	\$19,500
Water for Wildlife	1	\$5,000
<i>Total</i>	21	\$591,381

# 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	2	1	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	\$390,200
Information Systems	0	0	0	\$0
<b>TOTALS</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>\$390,200</b>

## Proposal Submission Activity



# External Research Funding (All Sources)

Year	Grants/Contracts		Total
	Federal/Federal Subcontracts	State/Private	
2001	\$87,124	\$0	\$87,124
2002	\$570,628	\$0	\$570,628
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



# Marriot School of Management 2010 Awards

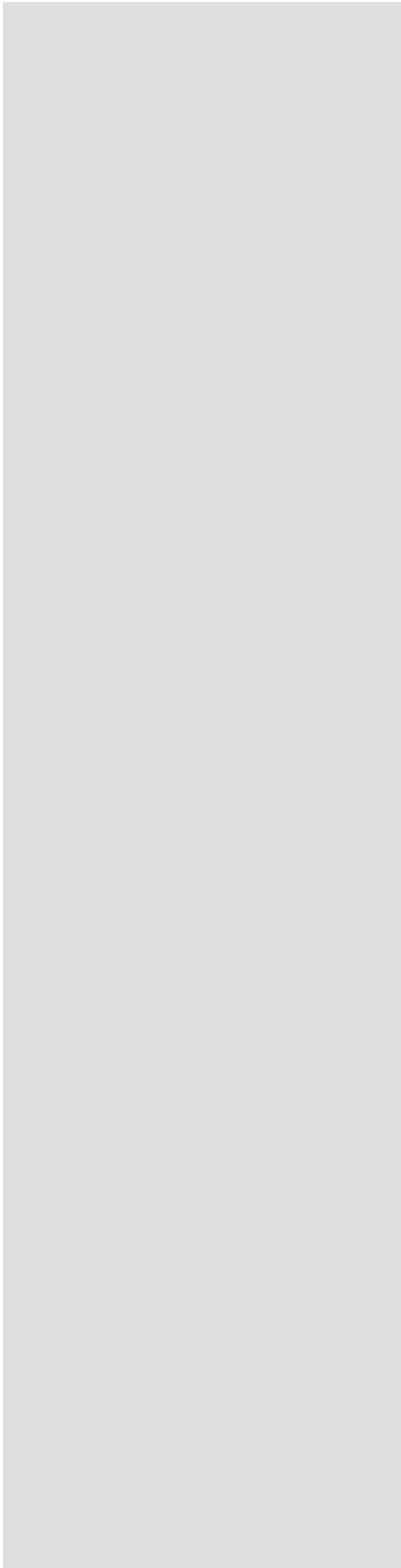
<u>PI</u>	<u>Sponsor</u>	<u>Title</u>	<u>Beg. Date</u>	<u>End Date</u>	<u>Amount</u>	<u>Type</u>
<i>School of Accountancy</i>						
Radebaugh, Lee	DoED	CIBER	10/1/2010	9/30/2011	\$390,200	1

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		\$390,200
Information Systems		\$0
<b>College Total:</b>		<b>\$390,200</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	\$390,200
<i>Total</i>	1	\$390,200
<b>Subcontracts</b>		
None		
<i>Total</i>		
<b>State</b>		
None		
<i>Total</i>		
<b>Private</b>		
None		
<i>Total</i>		



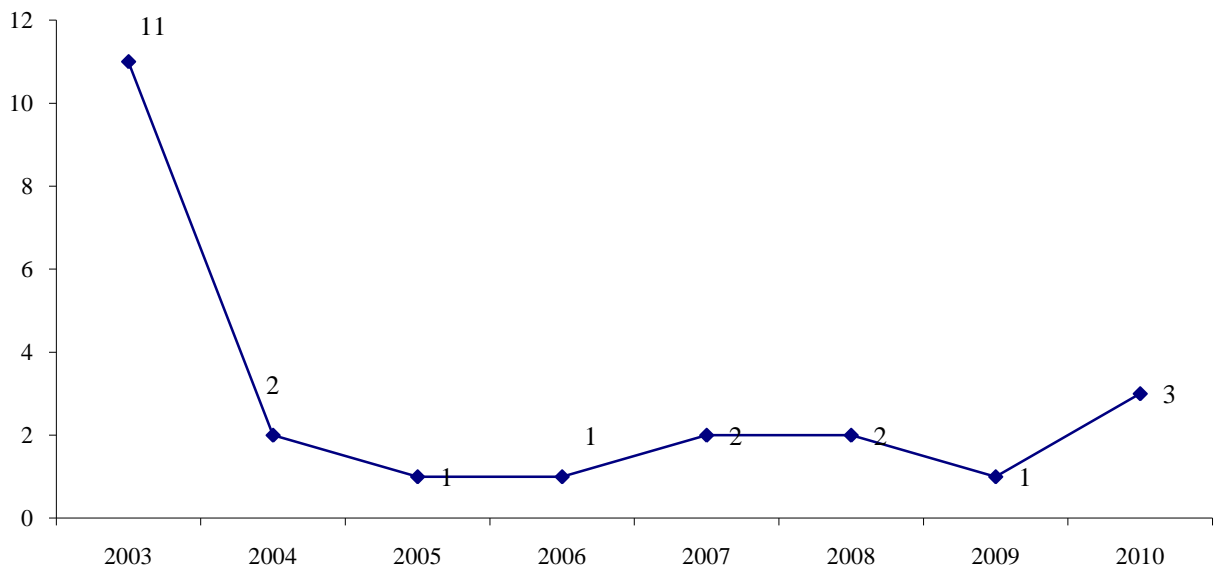
# College of Nursing



# Summary of Sponsored Research (Grants & Contracts)

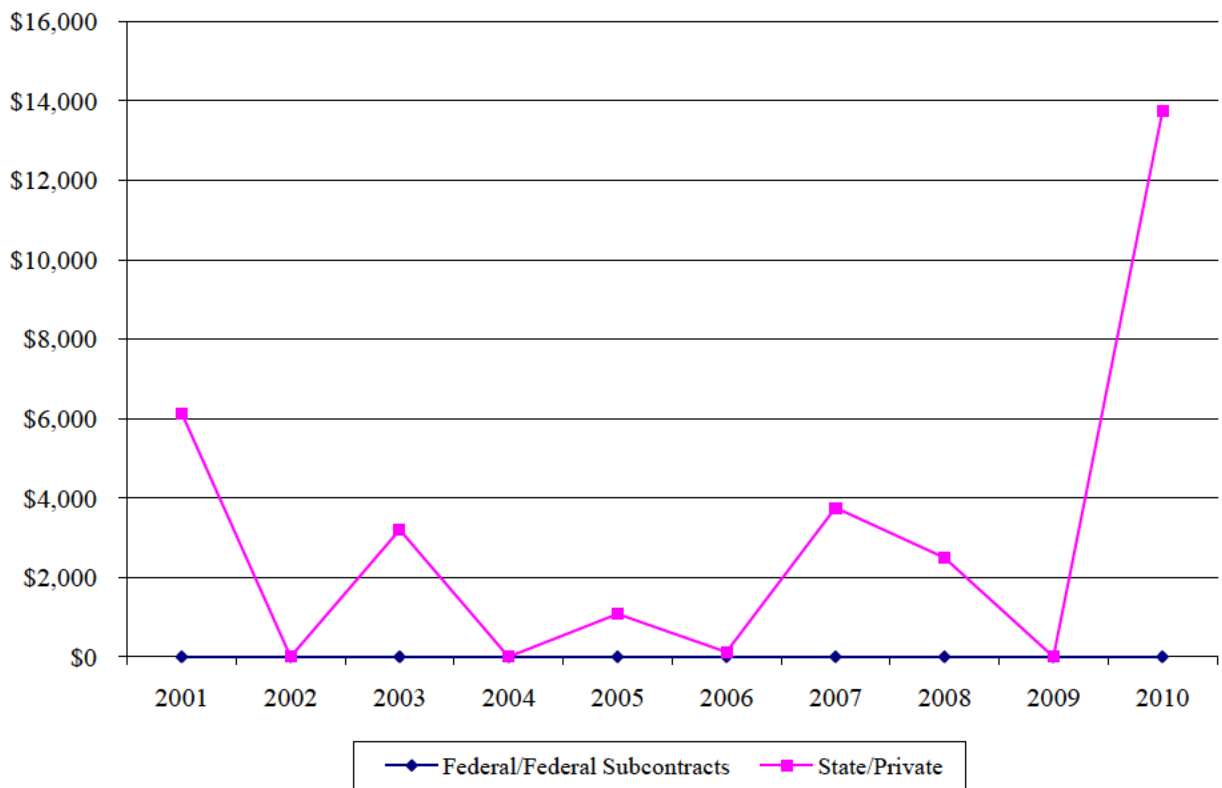
Department	# of Faculty Submitting	# of Proposals Submitted	# of Awards	Dollars Awarded
Nursing	6	3	3	\$13,750
<i>TOTALS</i>	6	3	3	\$13,750

## Proposal Submission Activity



# External Research Funding (All Sources)

Year	Grants/Contracts		Total
	Federal/Federal Subcontracts	State/Private	
2001	\$0	\$6,129	\$6,129
2002	\$0	\$0	\$0
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



# Nursing 2010 Awards

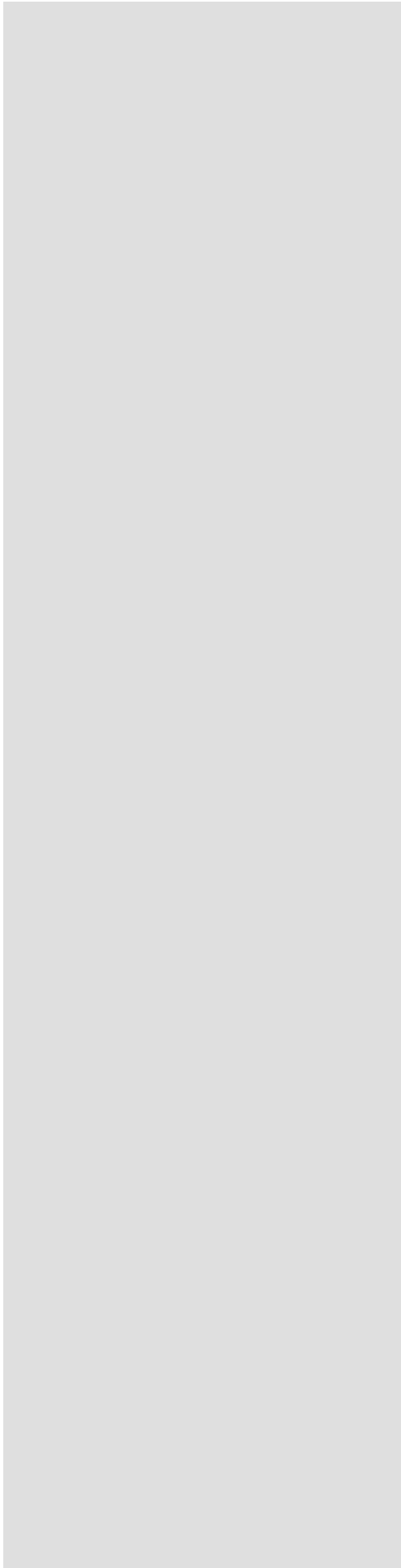
<u>PI</u>	<u>Sponsor</u>	<u>Title</u>	<u>Beg. Date</u>	<u>End Date</u>	<u>Amount</u>	<u>Type</u>
<i>Nursing</i>						
Callister, Lynn	AWHONN	Post Partum Depression and Help Seeking Behaviors in Hispanic Women	6/1/2010	5/31/2011	\$8,250	4
Corbett, Cheryl	STT-Nursing Honor Soc	Post Partum Depression and Help Seeking Behaviors in Immigrant Hispanic Women	4/6/2010	6/1/2011	\$5,000	4
Lassetter, Jane	Sigma Theta Tau Intl	Pacific Islander parents feeding practices & cultural preferences	3/29/2010	8/1/2010	\$500	4

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

Department Totals		
Nursing		\$13,750
<b>College Total:</b>		<b>\$13,750</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>		
AWHONN	1	\$8,250
STT-Nursing Honor	1	\$5,000
Sigma Theta Tau Intl	1	\$500
<i>Total</i>		\$13,750

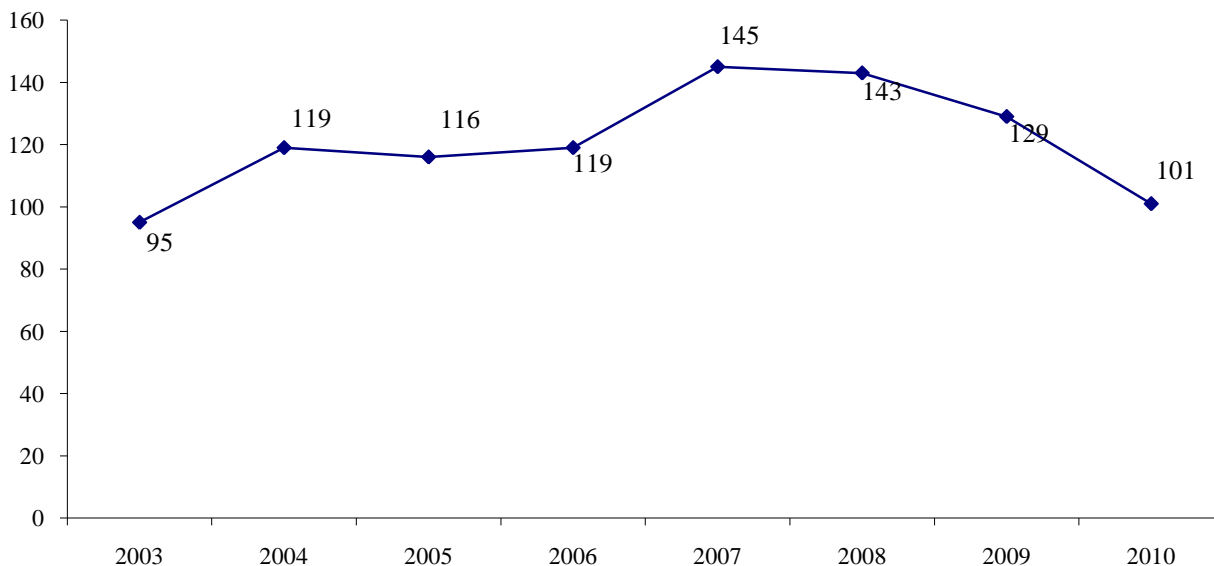


# College of Physical & Mathematical Sciences

# Summary of Sponsored Research (Grants & Contracts)

Department	# of Faculty Submitting	# of Proposals Submitted	# of Awards	Dollars Awarded
Chemistry & Biochemistry	15	33	39	\$5,292,864
Computer Science	16	15	11	\$800,142
Earth Science Museum	0	0	0	\$0
Geology	11	15	10	\$518,799
Mathematics	11	11	5	\$312,249
Mathematics Education	3	1	1	\$38,538
Physics & Astronomy	19	28	23	\$1,317,901
Statistics	1	1	3	\$628,497
<b>TOTALS</b>	<b>76</b>	<b>101</b>	<b>88</b>	<b>\$8,908,990</b>

# Proposal Submission Activity



# External Research Funding (All Sources)

Year	Grants/Contracts		Total
	Federal/Federal Subcontracts	State/Private	
2001	\$4,485,814	\$865,015	\$5,350,829
2002	\$3,368,967	\$547,133	\$3,916,100
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



# Physical & Mathematical Sciences 2010 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		NSF	MRI: Acquisition of a Versatile Direct Write Micro Patterning System for Research and Education	1/1/2011	12/31/2011	R0112176	\$71,957	1
Austin, Daniel		NASA	Coaxial Ion Trap: Micrfabricated Mass Spectrometer For Planetary Exploration	5/5/2010	5/14/2014	R0162009	\$130,000	1
Austin, Daniel		NASA	Impact and Shock Survivability of Micro-organisms	8/25/2010	8/24/2011	R0162011	\$50,000	1
Austin, Daniel		Torion (SBIR DOD)	Micrfabricated Linear Ion Trap Mass Spectrometer for Portable Characterization of Chemical and Biological Threats	3/8/2010	9/30/2010	R0302338	\$13,001	2
Belnap, David M.		NIH	Determining the Three-Dimensional Structure of Icosahedral Virus Genomes	1/1/2010	12/31/2010	R0102033	\$16,785	1
Bigler, Erin		U of Utah (NIH)	Atypical Late Neurodevelopment in Autism: A Longitudinal MRI and DTI Study	8/1/2010	7/31/2011	R0302228	\$69,030	2
Bigler, Erin		Columbus Children's Hospital Research Institute (NIH)	Social Outcomes in Pediatric Traumatic Brain Injury	8/1/2010	7/31/2011	R0302352	\$25,823	2
Boerio-Goates, Julianna	w/Woodfield, Brian	COSMAS (NSF)	Synthesis of Metal and Metal Alloy	3/15/2010	2/29/2012	R0302235	\$82,830	2
Boerio-Goates, Julianne	w/Woodfield, Brian	DoE	Energetics of Nanomaterials	8/15/2010	8/14/2011	R0202157	\$82,500	1
Boerio-Goates, Julie	w/ Woodfield, Brian	NSF	Acquisition of High Resolution, High Throughput, Powder X-ray Diffractometer	1/1/2010	12/31/2012	R0112157	\$99,250	1
Boerio-Goates, Julie	w/Woodfield, Brian	NSF (thru Cosmas)	Synthesis of Metal and Metal Alloy	3/15/2010	3/14/2011	R0302235	\$7,500	2
Burton, Greg F.		NIH	FDC Activation and HIV Pathogenesis	6/1/2010	5/31/2013	R0102049	\$427,125	1
Burton, Greg F.		NIH	FDC Activation and HIV Pathogenesis	6/1/2010	5/31/2013	R0102049	\$15,000	1
Buskirk, Allen		NIH	Genetic Studies on Bacterial Trans-Translation	5/1/2010	4/30/2011	R0102024	\$216,291	1
Dearden, David		NSF	Gas Phase Supramolecular Characterization	6/1/2010	5/31/2012	R0112163	\$235,000	1
Farnsworth, Paul		DOE	Ion Production and Transport in Atmospheric Pressure Ion Source Mass Spectrometers	2/1/2010	1/31/2011	R0122003	\$74,250	1
Graves, Steven		Glenveigh Medical	Characterization of Endogenous Digitalis-like Factors in Preeclampsia	9/1/2010	12/31/2011	R0602083	\$151,977	4
Graves, Steven		Sera Prognostics, Inc.	Serum Proteomics of Pregnancy Complications	9/1/2010	6/30/2012	R0602290	\$264,000	4
Hansen, Jaron		Anaerobic Digestion Technologies	Conditioning of a Biogas/Sour Gas Stream	5/1/2010	12/31/2010	R0602315	\$4,420	4
Hansen, Jaron		Southern California Edison	Semi-Continuous Monitoring and the Source Apportionment of PM2.5 Mass and its Components	3/31/2010	12/31/2010	R0602319	\$25,000	4
Lamb, John		Dionex Corporation	Macrocycles Based Ion Chromatography	7/1/2010	6/30/2011	R0602198	\$35,550	4
Lee, Milton		Torion Technology	Chemical and Biological Agent Detector	1/1/2010	4/30/2010	R0202080	\$17,384	1



		ies						
Lee, Milton	Torion	Smiths Sampling Accessories	1/1/2010	4/30/2010	R0202080	\$22,188	4	
Lee, Milton	Torion	Chemical and Biological Agent Detector	5/1/2010	8/31/2010	R0202080	\$23,181	4	
Lee, Milton	Torion	Chemical and Biological Agent Detector	5/1/2010	8/31/2010	R0202080	\$22,462	1	
Lee, Milton	Torion	Chemical and Biological Agent Detector	5/1/2010	12/31/2010	R0202080	\$43,843	1	
Lee, Milton	DTRA	Differentiation of Bacterial Biothreat Agents Using Thermochemolysis Methylation and Gas Chromatography-Mass Spectrometry	9/9/2010	9/14/2012	R0202320	\$228,854	1	
Lee, Milton	Torion Technologies	DTRA Supplies, Travel, Machinist	1/1/2010	4/30/2010	R0602103	\$4,500	4	
Lee, Milton	Torion	DTRA Supplies, Travel, Machinist	5/1/2010	8/31/2010	R0602103	\$3,750	4	
Lee, Milton	Torion	DTRA Supplies, Travel, Machinist	5/1/2010	12/31/2010	R0602103	\$3,750	4	
Linford, Matt	US Synthetics	New Diamond Materials for Chromatography	1/1/2010	3/31/2012	R0602191	\$192,000	4	
Linford, Matthew	US Synthetics	New Diamond Materials for Chromatography	1/1/2010	3/31/2011	R0602191	\$192,000	4	
Linford, Matthew	Engineering Yield	Characterization of Silane Modified Surfaces	5/1/2009	4/30/2010	R0602208	\$5,000	4	
Linford, Matthew	Engineering Systems, Inc.	Characterization of Silane Modified Surfaces	5/1/2010	4/30/2011	R0602208	\$5,000	4	
Linford, Matthew	Xeromax LLC	Development of Hydrophobic Coatings	12/1/2009	6/30/2010	R0602301	\$7,155	4	
Linford, Matthew	Xeromax	Development of Hydrophobic Coatings	12/1/2009	12/31/2011	R0602301	\$30,000	4	
Linford, Matthew	Xeromax	Development of Hydrophobic Coatings	8/1/2010	12/31/2011	R0602301	\$30,000	4	
Linford, Matthew	Affymetrix, Inc	Preparation and Characterization of Surfaces for Biochips	5/1/2010	8/1/2010	R0602316	\$7,500	4	
Linford, Matthew	HZO, Inc.	Optimization and Advancement of Hydrophobic Coating for Mobile Electronic Devices	7/15/2010	11/15/2010	R0602328	\$45,000	1	
Patterson, James	AFSOR	Molecular Basis of Adhesion	12/1/2009	11/30/2010	R0202263	\$49,826	1	
Patterson, James	AFOSR	Molecular Basis of Adhesions	3/1/2009	11/30/2010	R0202263	\$49,826	1	
Savage, Paul	NIH	Development of Novel Antimicrobial Peptide Mimics to provide Broad Spectrum Prevention Against and Therapeutic Treatment for Infection	9/1/2010	8/31/2011	R0102041	\$673,515	1	
Savage, Paul	U of Chicago (NIH)	Th1/Th2 Glycolipid Adjuvants	4/1/2010	3/31/2011	R0302055	\$296,882	2	
Savage, Paul	Sandia National Lab	Ceragenins for RO Membranes	4/24/2008	9/30/2011	R0302246	\$60,000	2	
Savage, Paul	Innate Immune, Inc.	Development of Analytical Methods for Quantification of III-214 in Blood	7/20/2010	12/31/2010	R0602326	\$11,475	4	
Savage, Paul	CIBA Vision Corp	Optimization of CSA Structure for Incorporation into Contact Lenses and Bacterial Growth	8/24/2010	1/11/2011	R0602330	\$98,550	4	
Savage, Paul	U of U Orthopaedics	Development of DSA-13 Miranol Implant Coating	7/1/2009	6/30/2010	R0802020	\$20,000	3	
Savage, Paul B.	Boston Children's Hospital (NIH)	Role of T Cell Subsets in Allergic Lung Inflammation	7/22/2009	6/30/2011	R0302298	\$31,818	2	

Savage, Paul B.		Scripps Research Institute (NIH)	Using Lipids for Vaccination	8/12/2010	7/31/2011	R0302351	\$94,907	2
Savage, Paul B.		U of U Orthopedics	Development of DSA-13 Miranol Implant Coating	7/1/2010	6/30/2011	Ro802021	\$20,000	3
Spencer, Ross L.	w/Farnsworth, Paul	DOE	Ion Production and Transport in Atmospheric Pressure Ion Source Mass Spectrometers	2/1/2010	1/31/2011	R0122003	\$74,250	1
Willardson, Barry		NIH	Co-chaperone Role of Phosducin-like Protein in G Protein Sub Unit Assembly	7/1/2010	6/30/2011	R0102030	\$267,819	1
Woodfield, Brian		NSF	Acquisition of High Resolution, High Throughput, Powder X-ray Diffractometer	1/1/2010	12/31/2012	R0112157	\$99,250	1
Woodfield, Brian		DoE	Energetics of Nanomaterials	8/15/2010	8/14/2011	R0202157	\$82,500	1
Woodfield, Brian		COSMAS (NSF)	Synthesis of Metal and Metal Alloy	3/15/2010	2/29/2012	R0302235	\$82,830	2
Woodfield, Brian		NSF (thru Cosmas)	Synthesis of Metal and Metal Alloy	3/15/2010	3/14/2011	R0302235	\$7,500	2
Woolley, Adam		NIH	Phase-Changing Sacrificial Layer Microfluidics for Enhanced Protein Analysis	2/1/2010	1/31/2011	R0102023	\$291,060	1
<b>Computer Science</b>								
Clement, Mark	w/Crandall, Keith	NSF	Collaborative: Developing genomic tools for integrative bio research	9/1/2010	8/31/2012	R0112175	\$50,000	1
Goodrich, Michael	w/Morse, Bryan	NSF	Technology Supported Wilderness Search & Rescue	8/1/2009	10/31/2011	R0112126	\$74,959	1
Goodrich, Michael		U of Cntrl Florida (NSF)	Robotics CTA- Phase 1	7/1/2010	12/31/2010	R0302358	\$23,434	2
Goodrich, Michael A.	w/Colton, Mark B	Honda Research Inst.	Socially Assistive Robotics for Children with Autism: Imitation Captured-Based Robot Programming	9/1/2010	8/31/2011	Ro602338	\$30,000	4
Goodrich, Mike	w/Mclain, Tim	NSF	Planning Grant I/UCRC for Unmanned Aircraft Systems	2/15/2010	1/31/2011	R0112159	\$2,600	1
Goodrich, Mike		ONR(Carnegie Mellon)	Cognitively Compliant: Command for Multirobot teams	7/1/2009	5/31/2012	R0302319	\$54,184	2
McCarthy, Jay		NSF	Modern Web Applications with Callbacks	9/1/2010	8/31/2013	R0112171	\$300,000	1
Mercer, Eric		SRC	Formal Analysis of Multicore Communication API's and App	8/1/2009	7/31/2011	Ro602292	\$10,000	4
Morse, Bryan		NSF	Technology Supported Wilderness Search & Rescue	8/1/2009	10/31/2011	R0112126	\$74,959	1
Sommerfeldt, Scott	w/Blotter, Jonathan	Univ of Pittsburg (Murata)	Acoustics of a Piezoelectric Blower	10/1/2009	9/30/2010	Ro802018	\$20,006	3
Warnick, Sean		AFRL	Analysis and Design of Complex Network Environments	7/1/2010	9/10/2011	R0202287	\$50,000	1
Warnick, Sean		NSA	IPA	5/23/2010	3/1/2010	R0202304	\$60,000	1
Zappala, Daniel	w/Warnick, Sean	AFRL	Analysis and Design of Complex Network Environments	7/1/2010	9/10/2011	R0202287	\$50,000	1
<b>Geology</b>								
Brooks, Britt		NPS	Paleontological Excavation and Isotopic Dating	9/29/2008	8/30/2012	R0202258	\$543	1
Christiansen, Eric		NSF	Acquisition of an X-ray fluorescence spectrometer	6/15/2010	5/31/2011	R0112168	\$56,250	1
Dorais, Micheal		Ocean Leadership (NSF)	Integrated Ocean Drilling Program	#####	12/13/2011	R0302368	\$50,125	2
Dorais, Mike	w/Christianse n, Eric	NSF	Acquisition of an X-ray fluorescence spectrometer	6/15/2010	5/31/2011	R0112168	\$56,250	1
Harris, Ron		NSF	Quantification of Rates and Amount of Continental Subduction	6/15/2010	5/31/2011	R0112164	\$50,996	1
Harris, Ron	w/Christianse n, Eric	NSF	Acquisition of an X-ray fluorescence spectrometer	6/15/2010	5/31/2011	R0112168	\$56,250	1

Ron	n, Eric		spectrometer						
Kowallis, Bart	w/Christianse n, Eric	NSF	Acquisition of an X-ray fluorescence spectrometer	6/15/2010	5/31/2011	R0112168	\$56,250	1	
McBride, John		U of Illinois (DOE)	Evaluation of the Carbon Sea. Potential of the Cambro-Ordovician	12/8/2009	12/7/2010	R0302335	\$27,882	2	
McBride, John H.		U of Illinois (DOE)	Integrate study of geophysical data for ADM site	#####	4/30/2014	R0302254	\$40,425	2	
Morris, Thomas		Utah Geological Survey	Reservoir Characterization of Subtidal to Supratidal Facies	7/1/2010	6/30/2011	R0402174	\$17,646	3	
Morris, Tom		U of Utah	Teach Fundamentals of Sequence Stratigraphy	9/20/2010	9/24/2010	R0802022	\$2,625	3	
Ritter, Scott	w/Morris, Tom	U of Utah	Teach Fundamentals of Sequence Stratigraphy	9/20/2010	9/24/2010	R0802022	\$2,625	3	
Rupper, Summer		NSF	Collaborative Research: Annual satellite era accumulation patterns over WAIS Divide	8/1/2010	7/31/2011	R0112172	\$96,140	1	
Scheetz, Rod	w/Brooks, Britt	NPS	Paleontological Excavation and Isotopic Dating	9/29/2008	8/30/2012	R0202258	\$542	1	
Scheetz, Rod		UT Dept of Community Development	Lab Table construction project	7/1/2010	6/30/2011	R0402178	\$4,250	3	
Mathematics									
Cardon, David	w/Doud, Darin	Number Theory Fndn	Western Number Theory Conference 2010	#####	1/31/2011	R0502128	\$1,000	4	
Doud, Darin		Number Theory Fndn	Western Number Theory Conference 2010	#####	1/31/2011	R0502128	\$1,000	4	
Glasgow, Scott	w/Ware, Michael	NSF	Photoemission by large electron wave packets emitted out the side of a relativistic laser focus	7/1/2010	6/30/2013	R0112162	\$95,450	1	
Jarvis, Tyler		NSA	Collaborative Research: Group actions, orbicures, topological field theory	1/21/2010	1/20/2011	R0202293	\$31,970	1	
Jarvis, Tyler		NSA	Group Actions, Orbicures, and topological field theory	1/21/2010	1/20/2012	R0202293	\$32,799	1	
Purcell, Jessica		NSF	Collaborative Research: Hyperbolic geometry of knots and 3- manifolds	9/1/2010	8/31/2013	R0112174	\$144,030	1	
Wright David		Mathematical Assoc of America	BYU Math Circle Math Camp	6/14/2010	6/30/2011	R0502124	\$6,000	4	

### **Mathematics Education**

Corey, Douglas		Harvard (NSF)	Improving Mathematical Knowledge for Teaching	9/1/2010	9/30/2011	R0302311	\$38,538	2
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### **Physics & Astronomy**

Allred, David		WAESO(NSF)	Western Alliance of Expand Student Opportunities	1/29/2010	1/28/2011	R0302326	\$756	2
Allred, David		WAESO/ASU	Silicon Carbide Coated Nanotubes for Novel Nanotechnology	6/2/2010	6/1/2011	R0302339	\$756	2
Allred, David		ASU - WAESO(NSF)	3D Simulation of the CV infiltration of carbon nanotube forests	9/2/2010	9/7/2011	R0302357	\$756	2
Anderson, Brian E.		DOE(Los Alamos NL)	Ultrasonic Transmission & Noise	5/21/2009	9/30/2010	R0302287	\$25,000	2
Bergeson, Scott		NSF	Dynamics of ultracold neutral plasmas in the first 100 ns	9/1/2010	8/31/2010	R0112173	\$180,000	1
Blotter, Jonathan	w/Gee, Kent	Blue Ridge Rsrch	Development of a Near-field Acoustical Holography Sys	3/17/2008	9/17/2010	R0302210	\$17,700	2
Blotter, Jonathan	w/Gee, Kent	Blue Ridge RC(NASA)	System for acquisition and analysis of energy based rocket noise	1/29/2010	12/29/2010	R0302329	\$9,828	2
Davis,		NSF	EAGER: Carbon Nanotube Templated	3/15/2010	2/28/2011	R0112160	\$33,333	1

Robert			Battery Electrodes						
Davis, Robert		Cornell(N SF)	Center for Nanoscale Systems in Info Tech	9/30/2010	9/30/2011	R0302198	\$30,000	2	
Davis, Robert		WAESO(N SF)	Western Alliance of Expand Student Opportunities	1/29/2010	1/28/2011	R0302327	\$756	2	
Davis, Robert		WAESO	Current Collector Fabrication	1/29/2010	1/28/2011	R0302327	\$756	2	
Davis, Robert		WAESO/A SU	Tungsten Infiltration of High Aspect Ratio CNT's for High Temperature MEMS Applications	6/2/2010	6/1/2011	R0302340	\$756	2	
Davis, Robert	w/Vanfleet, Richard	Moxtek	Metrology - Student Characterization	9/1/2009	5/31/2010	R0602293	\$5,175	4	
Davis, Robert	w/Vanfleet, Richard	Moxtek	Metrology project	9/1/2010	1/31/2011	R0602293	\$9,075	4	
Davis, Robert	w/Vanfleet, Richard	Moxtek	CNT Templated Windows	4/26/2010	8/31/2010	R0602313	\$12,975	4	
Davis, Robert		Moxtek	X-Ray Windows and filters	9/1/2010	1/31/2011	R0602313	\$17,925	4	
Gee, Kent		Blue Ridge Rsrch	Development of a Near-field Acoustical Holography Sys	3/17/2008	9/17/2010	R0302210	\$17,700	2	
Gee, Kent	w/Anderson, Brian E.	DOE(Los Alamos NL)	Ultrasonic Transmission & Noise	5/21/2009	9/30/2010	R0302287	\$24,999	2	
Gee, Kent		Blue Ridge RC(NASA)	System for acquisition and analysis of energy based rocket noise	1/29/2010	12/29/2010	R0302329	\$9,829	2	
Gee, Kent	w/Sommerfeldt	Intel Corporation	Active Noise Control for Notebook Fan Noise - Phase II	5/18/2010	8/31/2011	R0602298	\$33,391	4	
Gee, Kent	w/Blotter, Jonathan	Univ of Pittsburg (Murata)	Acoustics of a Pizelectric Blower	10/1/2009	9/30/2010	R0802018	\$20,005	3	
Hintz, Eric	w/ Moody, J Ward	NSF	Principle Instrument Upgrade at West Mtn.	6/15/2006	5/31/2011	R0112078	\$16,475	1	
Hirschmann, Eric		NSF	Collaborative Research: Dynamics and Gravitational Wave Production	9/1/2010	8/31/2011	R0112177	\$20,000	1	
Hirschmann, Eric		NSF	Simulating Neutron-Star Blackhole Inspirals	7/20/2010	8/31/2011	R0112127	\$40,000	1	
Joner, Michael	w/ Moody, J Ward	NSF	Principle Instrument Upgrade at West Mtn.	6/15/2006	5/31/2011	R0112078	\$16,474	1	
Leishman, Timothy	w/Sommerfeldt, Scott	Caterpillar, Inc.	Advanced Acoustic Modeling and Experimental Verification of Enclosure Insertion Loss	1/1/2010	12/31/2010	R0602322	\$32,937	4	
Moody, J Ward		NSF	Principle Instrument Upgrade at West Mtn.	6/15/2006	5/31/2011	R0112078	\$16,475	1	
Neilsen, David W.	w/ Hirschmann, Eric	NSF	Collaborative Research: Dynamics and Gravitational Wave Production	9/1/2010	8/31/2011	R0112177	\$20,000	1	
Nielsen, David	w/Hirschmann, Eric	NSF	Simulating Neutron-Star Blackhole Inspirals	7/20/2010	8/31/2011	R0112127	\$40,000	1	
Peatross, Justin	w/Ware, Michael	NSF	Photoemission by large electron wave packets emitted out the side of a relativistic laser focus	7/1/2010	6/30/2013	R0112162	\$95,450	1	
Rees, Lawrence		DOE(NNSA)	Develop & Test inexpensive capture-gated neutron spectrometer	1/15/2010	1/14/2011	R0202298	\$99,900	1	
Sommerfeldt, Scott	w/Gee, Kent	Blue Ridge Rsrch	Development of a Near-field Acoustical Holography Sys	3/17/2008	9/17/2010	R0302210	\$17,700	2	
Sommerfeldt, Scott	w/Gee, Kent	Blue Ridge RC(NASA)	System for acquisition and analysis of energy based rocket noise	1/29/2010	12/29/2010	R0302329	\$9,829	2	
Sommerfeldt, Scott		Intel Corporation	Active Noise Control for Notebook Fan Noise - Phase II	5/18/2010	8/31/2011	R0602298	\$33,391	4	
Sommerfeldt, Scott		Caterpillar, Inc.	Advanced Acoustic Modeling and Experimental Verification of Enclosure Insertion Loss	1/1/2010	12/31/2010	R0602322	\$32,937	4	
Spencer, Ross L.	w/Turley, R. Steven	NSF	REU Physics Research at BYU	5/25/2010	4/30/2011	R0112128	\$64,486	1	
Turley, R. Steven		NSF	REU Physics Research at BYU	5/25/2010	4/30/2011	R0112128	\$64,487	1	

Vanfleet, Richard	w/Davis, Robert	NSF	EAGER: Carbon Nanotube Templated Battery Electrodes	3/15/2010	2/28/2011	R0112160	\$33,333	1
Vanfleet, Richard	w/Austin, Daniel	NSF	MRI: Acquisition of a Versatile Direct Write Micro Patterning System for Research and Education	1/1/2011	12/31/2011	R0112176	\$71,956	1
Vanfleet, Richard		Moxtek	Metrology - Student Characterization	9/1/2009	5/31/2010	R0602293	\$5,175	4
Vanfleet, Richard		Moxtek	Metrology project	9/1/2010	1/31/2011	R0602293	\$9,075	4
Vanfleet, Richard		Moxtek	CNT Templated Windows	4/26/2010	8/31/2010	R0602313	\$12,975	4
Vanfleet, Richard	w/Davis, Robert	Moxtek	X-Ray Windows and filters	9/1/2010	1/31/2011	R0602313	\$17,925	4
Ware, Michael		NSF	Photoemission by large electron wave packets emitted out the side of a relativistic laser focus	7/1/2010	6/30/2013	R0112162	\$95,450	1

### Statistics

Christensen, William		Wisconsin Focus on Energy	Incorporating synoptic Data in Source Apportionment	1/1/2010	12/31/2010	R0492031	\$32,393	3
Christensen, William		Wisconsin Focus on Energy	Incorporating Synoptic Data in Source Apportionment	1/1/2010	12/31/2011	R0492031	\$17,550	3
Clement, Mark	w/Johnson, W. Evan	NIH	Methods for the analysis and integrations of next-generation sequencing with appl	6/1/2010	2/28/2011	R0102051	\$116,567	1
Johnson, W. Evan		NIH	Methods for the analysis and integrations of next-generation sequencing with appl	6/1/2010	2/28/2011	R0102051	\$116,567	1
Snell, Quinn	w/Johnson, W. Evan	NIH	Methods for the analysis and integrations of next-generation sequencing with appl	6/1/2010	2/28/2011	R0102051	\$116,566	1
Tolley, Dennis H.	w/Lee, Milton	DTRA	Differentiation of Bacterial Biothreat Agents Using Thermochemolysis Methylation and Gas Chromatography-Mass Spectrometry	9/9/2010	9/14/2012	R0202320	\$228,854	1

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

Department Totals	
Chemistry & Biochemistry	\$5,292,864
Computer Science	\$800,142
Geology	\$518,799
Mathematics	\$312,249
Mathematics Education	\$38,538
Physics & Astronomy	\$1,317,901
Statistics	\$628,497
<b>College Total:</b>	<b>\$8,908,990</b>

# Physical & Mathematical Sciences

## Source Breakdown of Grants and Contracts

<b>Sponsor</b>	<b>No. Awarded</b>	<b>Amount</b>
<b>Federal Sponsors</b>		
AFOSR	2	\$99,652
AFRL	2	\$100,000
DOE	4	\$313,500
DOE (NNSA)	1	\$99,900
DTRA	2	\$457,708
HZO, Inc.	1	\$45,000
NASA	2	\$180,000
NIH	10	\$2,257,708
NPS	2	\$1,085
NSA	3	\$124,769
NSF	32	\$2,427,510
Torion	3	\$83,689
<i>Total</i>	64	\$6,190,108
<b>Federal Subcontract Sponsors</b>		
ASU –WAUSO (NSF)	1	\$756
Blue Ridge Research (NIH)	3	\$29,486
Blue Ridge Research	3	\$53,100
Boston Children’s Hospital (NIH)	1	\$31,818
Columbus Children’s Hospt Rsrch Inst (NIH)	1	\$25,823
Cornell (NSF)	1	\$30,000
COSMAS (NSF)	2	\$165,660
DOE (Los Alamos NL)	2	\$49,999
Harvard (NSF)	1	\$38,538
NSF (thru COSMAS)	2	\$15,000
Ocean Leadership (NSF)	1	\$50,125
ONR (Carnegie Mellon)	1	\$54,184
Sandia National Lab	1	\$60,000
Scripps Research Institute (NIH)	1	\$94,907
Torion (SBIR DOD)	1	\$13,001
U of Chicago (NIH)	1	\$296,882
U of Central Florida (NSF)	1	\$23,434
U of Illionois (DOE)	2	\$68,307
U of Utah (NIH)	1	\$69,030
WAESO	1	\$756
WAESO (NSF)	2	\$1,512
WAESO (ASU)	2	\$1,512
<i>Total</i>	32	\$1,173,830
<b>State Sponsors</b>		
U of Utah Orthopedics	2	\$40,000
U of Utah	2	\$5,250
U of Pittsburg	2	\$40,011
Utah Dept of Community Development	1	\$4,250
Utah Geological Survey	1	\$17,646

Wisconsin Focus on Energy	2	\$49,943
<i>Total</i>	10	\$157,100

**Private Sponsors**

Affymetrix, Inc	1	\$7,500
Anaerobic Digestion Technologies	1	\$4,420
Caterpillar, Inc.	2	\$64,874
Ciba Vision Corp	1	\$98,550
Dionex Corporation	1	\$35,550
Glenveigh Medical	1	\$151,977
Honda Research Institute	1	\$30,000
Innate Immune, Inc.	1	\$11,475
Intel Corporation	2	\$66,782
Mathematical Association of America	1	\$6,000
Moxtek	8	\$90,300
Number Theory Fndn	2	\$2,000
Sera Prognostics, Inc.	1	\$264,000
Southern California Edison	1	\$25,000
SRC	1	\$10,000
Torion Technologies	5	\$57,369
US Synthetics	2	\$384,000
Xeromax LLC	3	\$67,155
Yield Engineering Systems, Inc.	2	\$10,000
<i>Total</i>	37	\$1,387,952



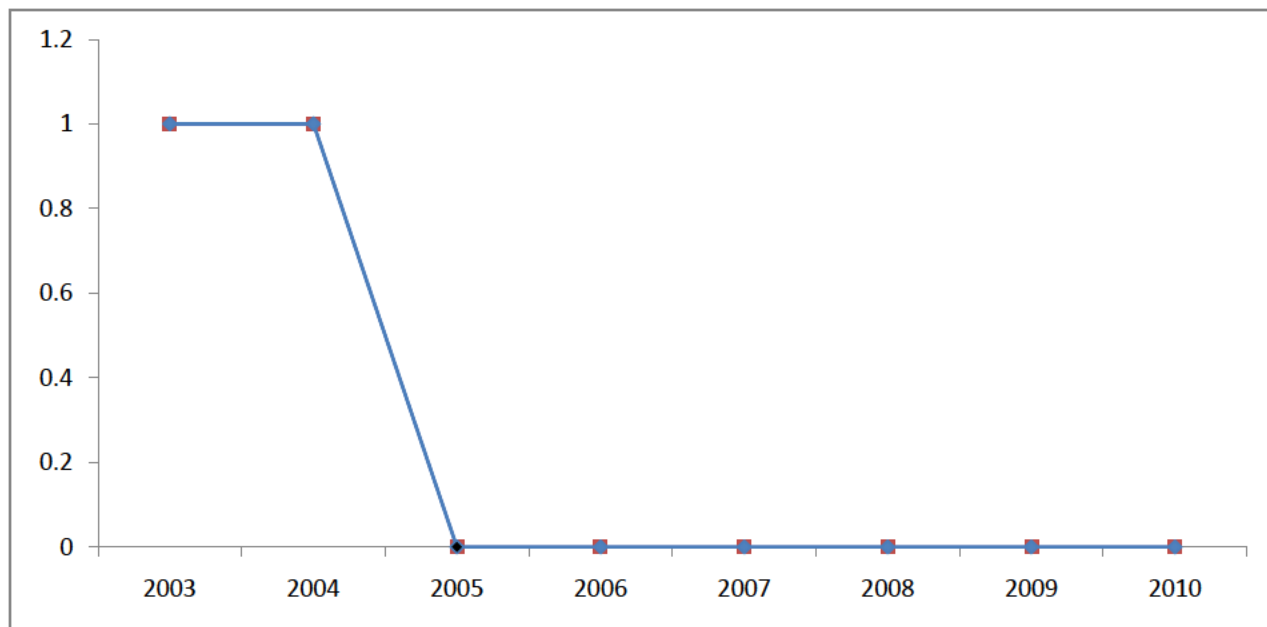
# Religious Education



# Summary of Sponsored Research (Grants & Contracts)

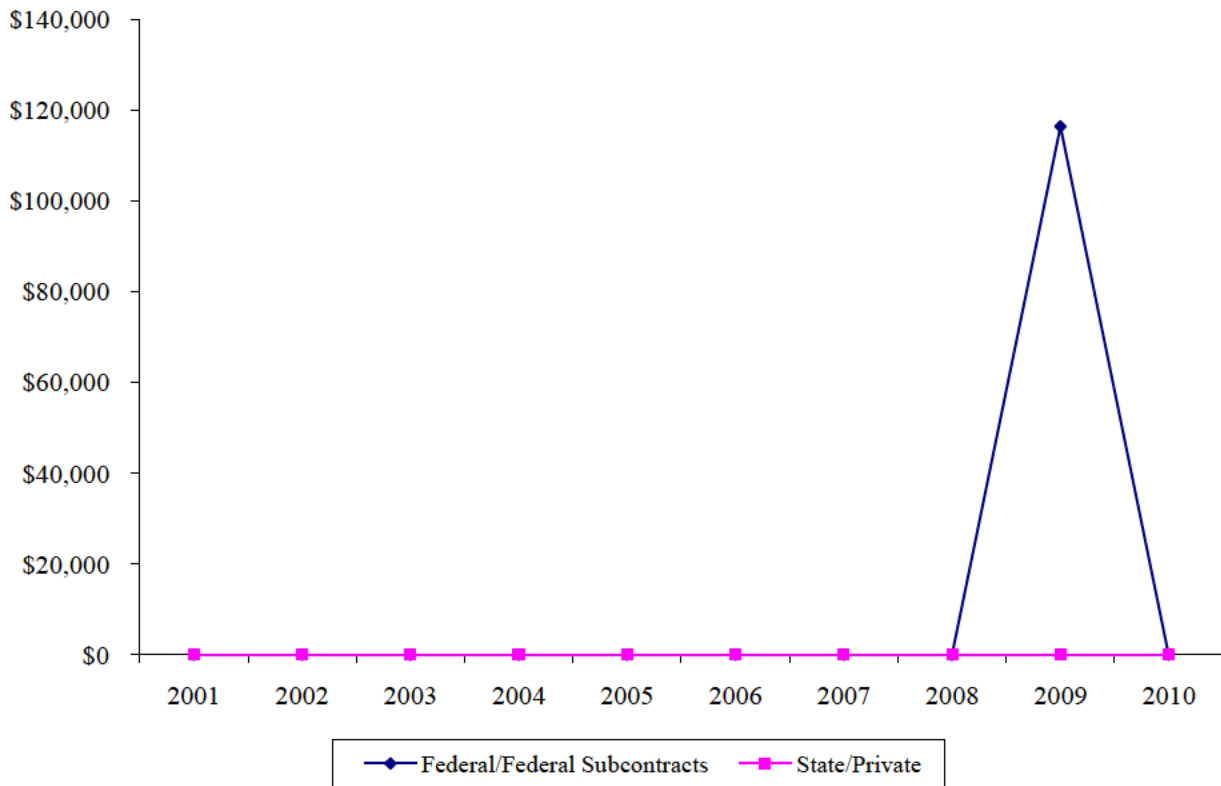
Department	# of Faculty Submitting	# of Proposals Submitted	# of Awards	Dollars Awarded
Ancient Scripture	0	0	0	\$0
Church History & Doctrine	0	0	0	\$0
<i>TOTALS</i>	0	0	0	\$0

## Proposal Submission Activity



# External Research Funding (All Sources)

Year	Grants/Contracts		Total
	Federal/Federal Subcontracts	State/Private	
2001	\$0	\$0	\$0
2002	\$0	\$0	\$0
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



# Religious Education 2010 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>	

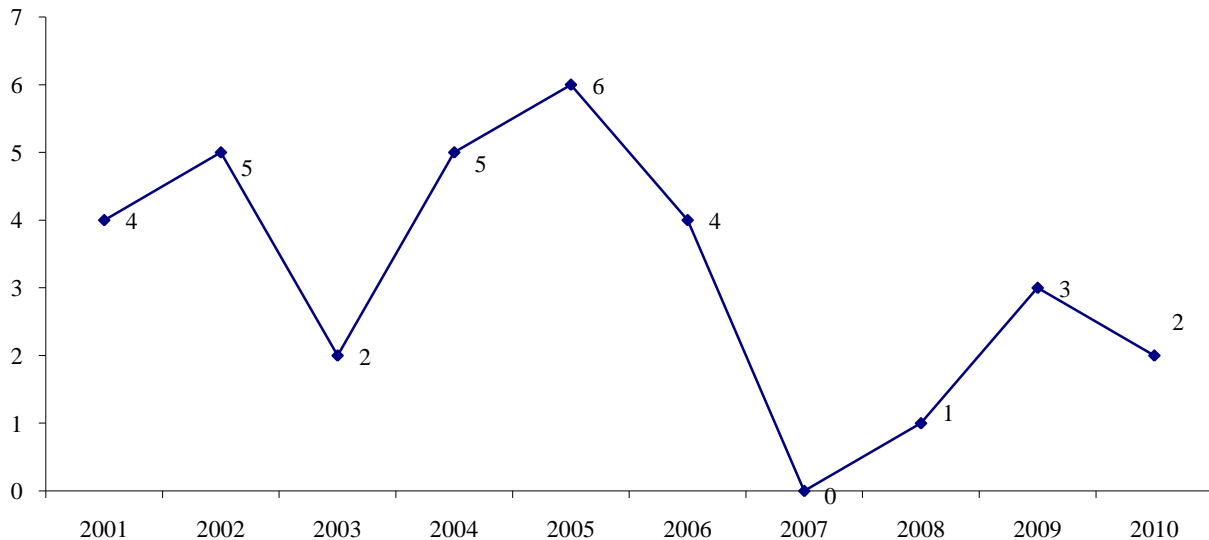


# Non-College Units

# Summary of Sponsored Research (Grants & Contracts)

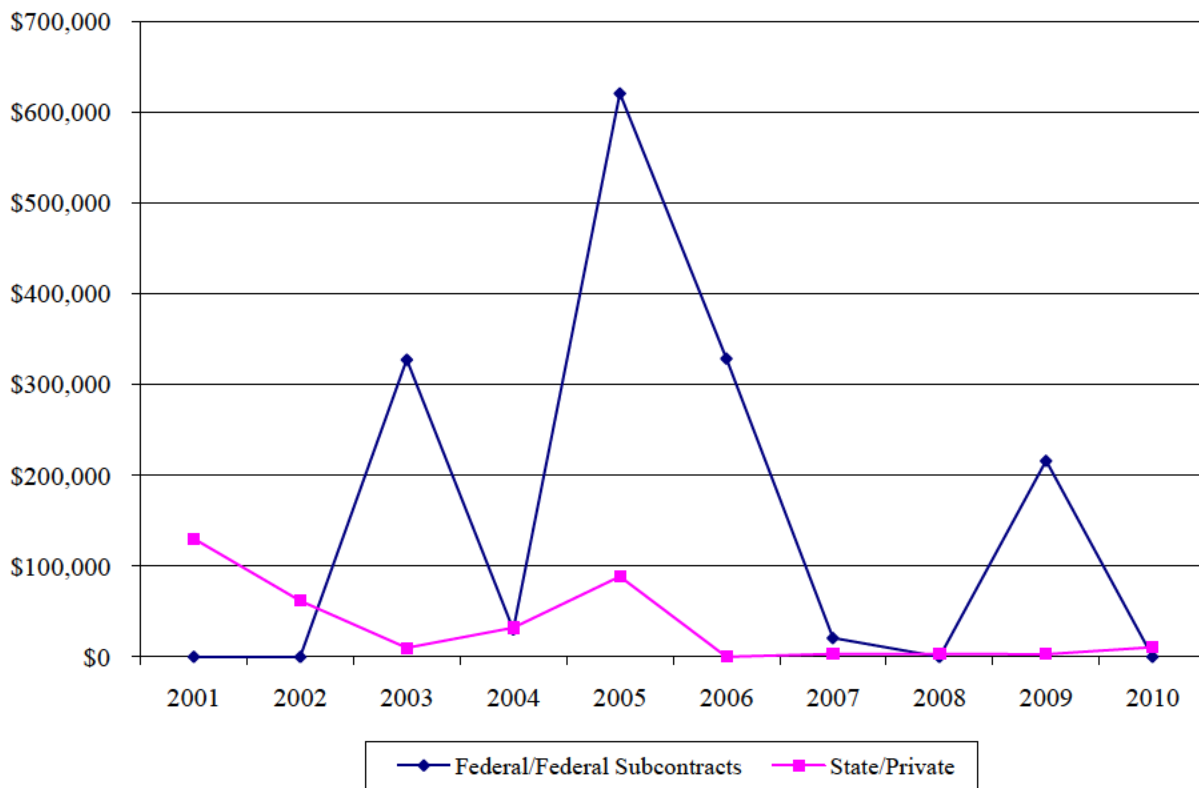
Department	# of Proposals Submitted	# of Awards	Dollars Awarded
Academic Internship	0	0	\$0
Admissions & Records	0	0	\$0
Associate Academic Vice President	0	0	\$0
Center for Instructional Design	0	0	\$0
Center for Service and Learning	2	1	\$10,584
Church Educational System	0	0	\$0
Faculty Center	0	0	\$0
General Education & Honors	0	0	\$0
Harold B. Lee Library	0	0	\$0
Information Technology Services	0	0	\$0
Neal A. Maxwell Institute for Religious Scholarship	0	0	\$0
Jacobsen Center	0	0	\$0
Media Services	0	0	\$0
Office of Research and Creative Activities	0	0	\$0
Technology Transfer	0	0	\$0
University Accessibility Center	0	0	\$0
University Computing Services	0	0	\$0
<b>TOTALS</b>	<b>2</b>	<b>1</b>	<b>\$10,584</b>

## Proposals Submitted



# External Research Funding (All Sources)

Year	Grants/Contracts		Total
	Federal/Federal Subcontracts	State/Private	
2001	\$0	\$129,916	\$129,916
2002	\$0	\$61,600	\$61,600
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



# Non-College Units 2010 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>Center for Service and Learning</i>						
MacInnis, Ronalee	UDO Community & Culture	BY U Americorps	8/18/2010	8/17/2011	\$10,584	3

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	\$10,584
Church Educational System	\$0
Faculty Center	\$0
General Education & Honors	\$0
Harold B. Lee Library	\$0
Information Technology Services	\$0
Neal A. Maxwell Institute for Religious Scholarship	\$0
Office of Research and Creative Activities	\$0
Jacobsen Center	\$0
Media Services	\$0
Technology Transfer	\$0
University Accessibility Center	\$0
University Computing Services	\$0
<b>College Total:</b>	<b>\$10,584</b>



# Non-College Units

## Source Breakdown of Grants and Contracts

<b>Sponsor</b>	<b>Number Awarded</b>	<b>Total Amount</b>
<b>Federal</b>		
None		
	<i>Total</i>	
<b>Subcontracts</b>		
None		
	<i>Total</i>	
<b>State</b>		
UDO Community & Culture	1	\$10,584
	<i>Total</i>	\$10,584
<b>Private</b>		
None		
	<i>Total</i>	



# Administrative Support of Compliance Committees & Regulations

# Compliance and Certification

There are a number of federal, states, and university regulations which are intended to ensure the safety and well being of those associated with research and creative activities at academic institutions.<sup>1</sup> The Office of Research and Creative Activities specifically supports three university committees and provides other certifications as needed. The following pages contain a record of official actions taken by these committees during the January 2009 through December 2009 time period. In addition to those official actions, the committee—their individual chairs and members—and the staff of ORCA actively reviewed facilities developed and updated policy, and education the university research community on pertinent issues. The following is a brief description of each committee. Their 2008 membership and activities are on subsequent pages.

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

At BYU, all research (funded or unfunded) must meet the guidelines and be appropriately reviewed and approved. Since regulations encompass everything from interviews and questionnaires to medical practices, faculty and students should work closely with this committee.

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

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

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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 and is composed of the following individuals:

- |   |   |
|---|---|
| <p>██████████</p> <p>██████████</p> <p>██████████</p> <p>██████████</p> <p>██████████</p> <p>██████████</p> <p>██████████</p> <p>██████████</p> <p>██████████</p> <p>██████████</p> <p>██████████</p> <p>██████████</p> <p>██████████</p> <p>██████████</p> <p>██████████</p> | <p>██████████</p> <p>██████████</p> <p>██████████</p> <p>██████████</p> <p>██████████</p> <p>██████████</p> <p>██████████</p> <p>██████████</p> <p>██████████</p> <p>██████████</p> <p>██████████</p> <p>██████████</p> <p>██████████</p> <p>██████████</p> |
|---|---|

The actions of the IRB committee for 2010 are summarized by the following table.

## IRB Protocol Activity 2010

College	New Protocols
██████████	█
██████████	█
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# 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. This committee is composed of the following individuals:

<p>[REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED]</p>	<p>[REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED]</p>
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The actions of the IACUC committee for 2010 are summarized by the following table.

## IACUC Protocol Activity 2010

College	New Approvals	Continuing	Pending
[REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED]	[REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED]	[REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED]	[REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED]

# 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. This committee is composed of the following individuals:

[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]

There were four new projects reviewed by the BioSafety Committee during the 2010 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***

<b><i>Year</i></b>	<b><i>Recipient</i></b>
2010	Barry Willardson
2009	Keith Crandall
2008	Paul Savage
2007	William Pitt

## ***Intellectual Properties***

<b><i>Year</i></b>	<b><i>Recipient</i></b>
2010	Kent Seamons
2009	Barry M. Lunt and Matthew R. Linford
2008	Lynn V. Ogden
2007	Scott D. Sommerfeldt

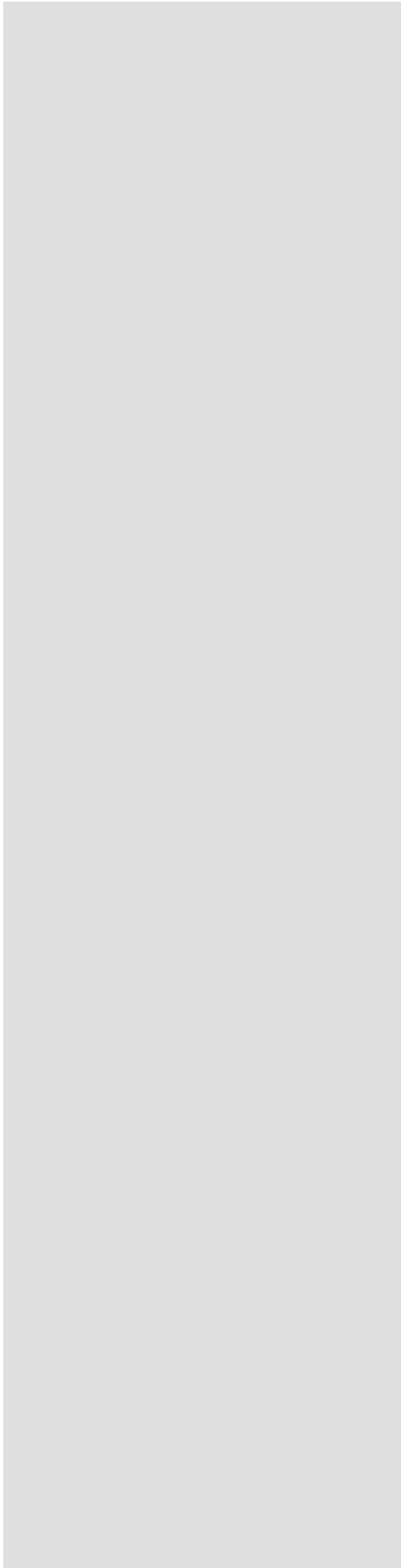


# 2010 Mentoring Environment Grant Recipients

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>
W. Spencer Guthrie	CEEn	E&T
Stephen Schultz	ECEn	E&T
Steven Charles	ME	E&T
Tadd Truscott	ME	E&T
Geoffrey Wright	TECH	E&T
Peter Rich	IP&T	EDUC
Richard West	IP&T	EDUC
Erika Feinauer	TED	EDUC
Edward Carter	COMM	FA&C
Darrell Babidge	MUSC	FA&C
Cynthia Finlayson	ANTHRO	FHSS
Michael Findley	POLISCI	FHSS
Jay Goodliffe	POLISCI	FHSS
Jessica Preece	POLISCI	FHSS
James Higley	PYSCH	FHSS
Julianne Holt-Lunstad	PYSCH	FHSS
Brock Kirwan	PYSCH	FHSS
Mikle South	PYSCH	FHSS
Scott Steffensen	PYSCH	FHSS
Stephen Bahr	SOC	FHSS
Benjamin Gibbs	SOC	FHSS
Mark Grover	LIB	HBLL
Connie Lamb	LIB	HBLL
Nicholas Mason	ENG	HUM
Michelle James	G&SL	HUM
Dan Dewey	LING	HUM
Scott Alvord	S&P	HUM
W. Cole Durham, Jr.	LAW	LAW
Mark Belk	BIO	LSCI

Keith Crandall	BIO	LSCI
Richard Gill	BIO	LSCI
Jerald Johnson	BIO	LSCI
John Kauwe	BIO	LSCI
Duke Rogers	BIO	LSCI
Jack W. Sites, Jr.	BIO	LSCI
Michael Whiting	BIO	LSCI
Bruce Bailey	ES	LSCI
James LeCheminant	ES	LSCI
Laura Bridgewater	M&MB	LSCI
David Erickson	M&MB	LSCI
Julianne Grose	M&MB	LSCI
Steven Johnson	M&MB	LSCI
Kim O'Neill	M&MB	LSCI
Brian Poole	M&MB	LSCI
Richard Robison	M&MB	LSCI
Eric Wilson	M&MB	LSCI
Michael Dunn	ND&FS	LSCI
John Bell	P&DB	LSCI
David Busath	P&DB	LSCI
Michael Stark	P&DB	LSCI
David Thomson	P&DB	LSCI
Craig Coleman	P&WS	LSCI
Bryan Hopkins	P&WS	LSCI
Steven Petersen	P&WS	LSCI
Curtis LeBaron	OL&S	MSM
Stacy Taniguchi	RMYL	MSM
Cheryl Corbett	NURS	NURS
Donna Freeborn	NURS	NURS
Jane Lassetter	NURS	NURS
Leslie Miles	NURS	NURS
Sheri Palmer	NURS	NURS
Allen Buskirk	CHMBIO	P&MS
Paul Farnsworth	CHMBIO	P&MS
Paul B. Savage	CHMBIO	P&MS
Eric Mercer	CS	P&MS
Bryan Morse	CS	P&MS
Barry Bickmore	GEOL	P&MS
John McBride	GEOL	P&MS
Paul Jenkins	MATH	P&MS
Robert Davis	P&A	P&MS
Shane Reese	STATS	P&MS
Lincoln Blumell	AS	REL
Roger P. Minert	CH&D	REL



# Student Recognition

# 2010 ORCA Grant Recipients

This group is selected by a process resembling the faculty pursuit of external research funding. Students prepare proposals for undergraduate research or creative projects and select faculty mentors. A group of faculty and administrators carefully evaluate all proposals and select those deemed outstanding. The \$1,800 grants are awarded in winter semester and a report on the work is due within a year. These reports are tabulated as the Brigham Young University Journal of Undergraduate Research and Creative Activities, which is published on the Internet under the ORCA homepage (<http://orca.byu.edu>).

<b><u>Department</u></b>	<b><u>Student</u></b>	<b><u>Faculty Mentor</u></b>
Accounting	Artem Davletshin	Ted Christensen
Ancient Scripture	Joseph Antley	Lincoln Blumell
Ancient Scripture	Erik Yingling	Thomas Wayment
Ancient Scripture	Alan Taylor Farnes	Thomas Wayment
Anthropology	Kelly Hacker	Charles Nuckolls
Anthropology	Alexa Hysi	Paul Stavast
Anthropology	Hailey King	Charles Nuckolls
Anthropology	Amy Drake	Charles Nuckolls
Biology	Douglass Brown	Jack Sites
Biology	Dohyup Kim	Keith Crandall
Biology	Ijesh Giri	Keith Crandall
Biology	Rachel Arendt	Jack Sites
Biology	Matthew CableFabiszak	John Kauwe
Biology	Ryan Egbert	John Kauwe
Biology	Maren Ettinger	Keith Crandall
Biology	Spencer Ewert	John Kauwe
Biology	Jesse Ford	Beverly Roeder
Biology	Nathan Hanna	Jack Sites
Biology	Grace Hawkins	John Kauwe
Biology	Benjamin Haynes	Keith Crandall
Biology	Jessica Jensen	Michael Whiting
Biology	Kelsy Johnson	Michael Whiting
Biology	Mo Lee	John Kauwe
Biology	Andres Mallipudi	Keith Crandall
Biology	Mac Martin	Byron Adams
Biology	Miles McKee	John Kauwe
Biology	Joseph Nelson	Jerald Johnson
Biology	David Patty	John Kauwe
Biology	David Peterson	John Kauwe
Biology	Victoria Scott	John Kauwe
Biology	Nalani Yamada	Beverly Roeder
Biology	Colton Hicks	Nile Hatch
Business Management	Jowanza Joseph	Sterling Bone
Business Management	Tara Pandey	William Pitt
Chemical Engineering	Spencer Bowen	Randy Lewis
Chemical Engineering	Aaron Harrison	Vincent Wilding
Chemical Engineering	Jeffrey Skidmore	Randy Lewis
Chemical Engineering	David Williams	William Pitt

Chemical Engineering	Trevor Slade	Morris Argyle
Chemistry and Bio Chemistry	Tyler Olsen	Paul Savage
Chemistry and Bio Chemistry	Kayleen Thompson	Merritt Andrus
Chemistry and Bio Chemistry	Mackay Merrill	John Prince
Chemistry and Bio Chemistry	Marie Chilton	Jaron Hansen
Chemistry and Bio Chemistry	Matthew Greer	Gregory Burton
Chemistry and Bio Chemistry	Sara Nielson	Daniel Austin
Chemistry and Bio Chemistry	Eric Bready	Merritt Andrus
Chemistry and Bio Chemistry	Jared Huber	Gregory Burton
Chemistry and Bio Chemistry	Brandon Gassaway	Emily Bates
Chemistry and Bio Chemistry	Shankar Parajuli	Allen Buskirk
Chemistry and Bio Chemistry	Caleb Shumway	Paul Savage
Chemistry and Bio Chemistry	Diana Valverde	Allen Buskirk
Church History and Doctrine	Jordan Bell	Richard Bennett
Church History and Doctrine	Caitlin Daniels	Dennis Wright
Church History and Doctrine	Melissa Kotter	Mary Jane Woodger
Church History and Doctrine	Joseph Stuart	John Fluhman
Church History and Doctrine	Benjamin Reed	Ken Alford
Civil Engineering	Eric Sumsion	W. Spencer Guthrie
Communication Disorders	Lucy Brimhall	Martin Fujiki
Communication Disorders	Bryce Bristow	Shawn Nissen
Communication Disorders	Amanda Fujiki	David McPherson
Communication Disorders	Amy Ragsdale	David McPherson
Communications	Benjamin Petersen	Jared Johnson
Communications	Scott Stevens	Kevin Kelly
Computer Science	Christopher Dalton	Dan Ventura
Computer Science	Julius Adebayo	Sean Warnick
Computer Science	Joseph Park	David Embley
Counseling, Psych & Special Education	Rebecca Blair	Betty Ashbaker
Economics	Daniel Bennett	Richard Evans
Economics	Michael Barnett	Eric Eide
Economics	Nathan Law	C. Arden Pope, III
Economics	Corbin Miller	Joseph Price
Economics	Jonathan Stevens	Eric Eide
Electrical and Computer Engineering	Paul Bartholomew	Brian Mazzeo
Electrical and Computer Engineering	Meagan Bracken	Aaron Hawkins
Electrical and Computer Engineering	Micah Jenkins	Aaron Hawkins
English	Justin Scholes	Jon Ostenson
English	Kristen Cardon	Gideon Burton
English	Danielle Leavitt	Leonard Tourney
English	Averyl Dietering	Brandie Siegfried
English	Barret Lybbert	Brian Roberts
Exercise Science	Shawn Lewis	Ken Knight
Family Life, School of	Gregory Nichols	Laura Padilla-Walker
French and Italian	Kristen Brown	Robert J. Hudson
French and Italian	Danielle Gilley	Cinzia Noble
French and Italian	Matthew Hatch	Cinzia Noble
Geography	Kimball Hansen	Matthew Bekker
Geography	Teresa Gomez	Matthew Shumway
Geography	Carson Stam	Ryan Jensen

Geological Sciences	Tsz man Lau	Ronald Harris
German and Slavic Languages	Kasia Cook	Hans-Wilhelm Kelling
German and Slavic Languages	Zachary Duvall	Laura Catherine Smith
German and Slavic Languages	Alexander Smith	Michelle James
German and Slavic Languages	Emily Hall	Laura Catherine Smith
German and Slavic Languages	Falk Kleinert	Hans-Wilhelm Kelling
German and Slavic Languages	Steven Meyer	Robert McFarland
German and Slavic Languages	Brandt Swensen	Michelle James
German and Slavic Languages	Christopher Taylor	Michelle James
German and Slavic Languages	James Pringle	Raissa Solovieva
German and Slavic Languages	Tyler Williams	Robert McFarland
Harold B. Lee Library	Jennifer Bruton	Kristi Bell
Harold B. Lee Library	Thomas Gapmayer	Mark Pollei
Harold B. Lee Library	Kylie Ladd	Mark Pollei
Harold B. Lee Library	Patrick Monson	Thomas Edlund
Harold B. Lee Library	Hilary Watkins	Quinn Galbraith
Health Science	Bryce Johnson	Chad Swanson
History	Christopher Hill	Paul Kerry
History	David McClure	Aaron Skabelund
History	Devon Zimmerman	Eric Dursteler
History	Galina Chenina	Aaron Skabelund
Humanities, Classics, and Comp Lit	Leigh Hunsaker	Francesca Lawson
Humanities, Classics, and Comp Lit	Randall Meister	Polyxeni Strolonga
Information Systems	Kirk Ouimet	Anthony Vance
Information Systems	Lee Wood	Anthony Vance
Linguistics and English Language	Spencer Ring	Dan Dewey
Linguistics and English Language	Kendon Kurzer	Dan Dewey
Linguistics and English Language	Alison Roberts	William Eggington
Linguistics and English Language	Sarah Franklin	Wendy Baker-Smemoe
Linguistics and English Language	Nathan Glenn	Deryle Lonsdale
Linguistics and English Language	Marco Mora Huizar	Heather Willson
Linguistics and English Language	Christian Wagner	Wendy Baker-Smemoe
Linguistics and English Language	Matthew Winterton	Deryle Lonsdale
Mathematics	Michael Griffin	Paul Jenkins
Mathematics	Jeremiah Bejarano	Jeffrey Humphreys
Mechanical Engineering	Jenny Pate	Steven Charles
Mechanical Engineering	David Bilodeau	Daniel Maynes
Mechanical Engineering	Jeff Hendricks	Tadd Truscott
Mechanical Engineering	Robert Klaus	Tadd Truscott
Mechanical Engineering	Kenneth Langley	Tadd Truscott
Mechanical Engineering	Caroline Sorensen	David Fullwood
Mechanical Engineering	Michael Tree	Scott Thomson
Mechanical Engineering	Nathan Tulett	Daniel Maynes
Mechanical Engineering	Brandon Decker	Matthew Jones
Mechanical Engineering	Will Drake	Steven Charles
Mechanical Engineering	Mark Fernelius	Larry Howell
Mechanical Engineering	Taylor Killian	Tadd Truscott
Mechanical Engineering	Samikshya Subedi	David Fullwood
Microbiology and Molecular Biology	Serena Loeb	Julianne Grose
Microbiology and Molecular Biology	Jordan Mackay	Julianne Grose

Microbiology and Molecular Biology	Taylor Abegg-Lawrence	Kim O'Neill
Microbiology and Molecular Biology	Michael Baldwin	Laura Bridgewater
Microbiology and Molecular Biology	Kellie Bollenbach	Steven Johnson
Microbiology and Molecular Biology	Danny Catts	Brian Poole
Microbiology and Molecular Biology	Benjamin Fisher	Laura Bridgewater
Microbiology and Molecular Biology	Joel Gardner	Bradford Berges
Microbiology and Molecular Biology	Michael Hatch	Bradford Berges
Microbiology and Molecular Biology	Jordan Kitchen	Sandra Burnett
Microbiology and Molecular Biology	Cynthia Perry	Brent Nielsen
Microbiology and Molecular Biology	Daniel Sharp	Kim O'Neill
Microbiology and Molecular Biology	Kaitlyn Vance	Eric Wilson
Microbiology and Molecular Biology	Ashley Wright	Brent Nielsen
Microbiology and Molecular Biology	Tyler Hedman	Brian Poole
Microbiology and Molecular Biology	Kent Jarvis	Julianne Grose
Microbiology and Molecular Biology	Christopher Koontz	Bradford Berges
Microbiology and Molecular Biology	Tyler Slater	Bradford Berges
Microbiology and Molecular Biology	Stephanie Carlson	Bradford Berges
Microbiology and Molecular Biology	Nathaniel Jensen	Richard Robison
Music, School of	Garrett Breeze	Kirt Saville
Music, School of	Matthew Clayton	Douglas Bush
Music, School of	David Coughanour	Arden Hopkin
Music, School of	Jonathan Evans	Douglas Bush
Music, School of	John Goodman	Ron Simpson
Music, School of	Todd Kitchen	Steve Ricks
Music, School of	Jacob Mudrick	Jerry L. Jaccard
Music, School of	Ryler Nielsen	Jeremy Grimshaw
Music, School of	Gavin Ryan	Jeremy Grimshaw
Nursing	Robert Willes	Kory Katseanes
Nursing	Arielle Chambers	Katreena Merrill
Nursing	Jaclyn Coleman	Jane Lassetter
Nursing	Maureen Goates	Lynn Callister
Nursing	Elizabeth Gubler	Karen De la Cruz
Nursing	Chelsey Hancock	Merritt Andrus
Nursing	Cristy Johnson	Donna Freeborn
Nursing	Brandon Lewis	Patricia Ravert
Nursing	Shannon McOmber	Barbara Mandleco
Nursing	Heidi Newsome	Catherine Coverston
Nursing	Kristen Painter	Barbara Heise
Nursing	Sarah Passey	Ana C. Birkhead
Nursing	Amy Pulsipher	Beth Luthy
Nursing	Devaun Sheppard	Barbara Mandleco
Nursing	Vadim Zhitnikov	Lynn Callister
Nutrition, Dietetics, and Food Science	Eric Engstrom	Lynn Ogden
Nutrition, Dietetics, and Food Science	Richard Low	Tory Parker
Nutrition, Dietetics, and Food Science	Kevin Lowder	Tory Parker
Nutrition, Dietetics, and Food Science	Paul McMullan	Lynn Ogden
Nutrition, Dietetics, and Food Science	Lauren Nielson	Merrill J. Christensen
Nutrition, Dietetics, and Food Science	Shintaro Pang	Michael Dunn
Nutrition, Dietetics, and Food Science	Shannon Snyder	Tory Parker
Organizational Leadership & Strategy	James Carlson	Teppo Felin

Organizational Leadership & Strategy	Lyndon Garrett	Curtis LeBaron
Organizational Leadership & Strategy	Weston Hadlock	Katie Liljenquist
Philosophy	Benjamin Brown	David Paulsen
Philosophy	Michael Hansen	Daniel Graham
Physics and Astronomy	Caleb Hustedt	Robert Davis
Physics and Astronomy	Blaine Harker	Kent Gee
Physics and Astronomy	Timothy Hecht	Bret Hess
Physics and Astronomy	Jarom Jackson	Dallin Durfee
Physics and Astronomy	Kelsey Jorgensen	Eric Hintz
Physics and Astronomy	Adam Konneker	David Allred
Physics and Astronomy	David Landry	David Allred
Physics and Astronomy	Adam Wallace	Lawrence Rees
Physiology and Developmental Biology	David Barnes	Jeffery Barrow
Physiology and Developmental Biology	Tyler Earley	Paul Reynolds
Physiology and Developmental Biology	Megan Stogsdill	Paul Reynolds
Physiology and Developmental Biology	Douglas Bretzing	David Busath
Physiology and Developmental Biology	Bradley Colton	Marc Hansen
Physiology and Developmental Biology	Owen Owens	Jeffery Barrow
Physiology and Developmental Biology	Braden Price	Marc Hansen
Physiology and Developmental Biology	Jared Weed	Jeffrey Edwards
Physiology and Developmental Biology	Ryan Williamson	Jeffrey Edwards
Physiology and Developmental Biology	Andrew Wallmann	Jeffrey Edwards
Physiology and Developmental Biology	Kimberly Dalton	Allan Judd
Physiology and Developmental Biology	David Holt	Robert Seegmiller
Physiology and Developmental Biology	David Lee	Dixon Woodbury
Physiology and Developmental Biology	Michael McNeil	Jeffrey Edwards
Physiology and Developmental Biology	David Nolte	David Kooyman
Physiology and Developmental Biology	Danielle Peterson	David Kooyman
Physiology and Developmental Biology	Jason Porter	Paul Reynolds
Plant and Wildlife Sciences	Scott Smith	Peter Maughan
Plant and Wildlife Sciences	Heather Finch	Phil Allen
Plant and Wildlife Sciences	JanaLynn Franke	Bradley Geary
Plant and Wildlife Sciences	Jeremy Gneck	Bradley Geary
Plant and Wildlife Sciences	Robert Nielsen	Craig Coleman
Plant and Wildlife Sciences	Curtis Ransom	Von Jolley
Plant and Wildlife Sciences	Tobin Story	Bryan Hopkins
Political Science	Josephine Borich	Jeremy Pope
Political Science	Zach Christensen	Michael Findley
Political Science	Stephen Cranney	Kirk Hawkins
Political Science	Matthew Frei	Quin Monson
Political Science	Victoria Garcia	Kirk Hawkins
Political Science	Aaron Gifford	Joel Selway
Political Science	John Holbein	Jeremy Pope
Political Science	Nicholas Jones	Darren Hawkins
Political Science	Bradley Masters	Christopher Karpowitz
Political Science	Yoshiki Matsunaga	Jessica Preece
Political Science	Robert Morello	Daniel Nielson
Political Science	Taylor Richards	Darren Hawkins
Political Science	Paul Russell	Wade Jacoby
Political Science	Daniel Walker	Michael Findley



Political Science	Erin Wells	Kirk Hawkins
Psychology	J. Andrew Hartshorn	C. Brock Kirwan
Psychology	Kevin Noisin	Michael Larson
Psychology	Dallin Andersen	Scott Steffensen
Psychology	Poromendro Burman	Scott Steffensen
Psychology	Ann Clawson	Michael Larson
Psychology	Cary Crall	Scott Steffensen
Psychology	Nicholas Edwards	Dawson Hedges
Psychology	Mark Henderson	C. Brock Kirwan
Psychology	Nathan Jamison	Mikle South
Psychology	Meagen Jensen	Dee Higley
Psychology	Oliver Johnston	Mikle South
Psychology	Brett Larsen	Scott Steffensen
Psychology	David Marsh	Julianne Holt-Lunstad
Psychology	Tiffani Newton	Mikle South
Psychology	Tyler Nickle	Ramona Hopkins
Psychology	Megan Oliver	C. Brock Kirwan
Psychology	Bobbi Sue Padro	James D. Higley
Psychology	Megan Pixton	Mikle South
Psychology	David Rackham	Michael Larson
Psychology	Marshall Roedel	C. Brock Kirwan
Psychology	Quentin Smith	C. Brock Kirwan
Psychology	Andrea Sorenson	James Higley
Psychology	William Walker	Michael Larson
Psychology	Parker Woody	Dawson Hedges
Psychology	Robert Cohoon	Scott Steffensen
Psychology	James Price	Ramona Hopkins
Psychology	Whitney Worsham	Michael Larson
Sociology	Robert Meldau	Stan Knapp
Sociology	Keaton Robertson	Charlie Morgan
Sociology	Jessica Thompson	Mikaela Dufur
Sociology	Elizabeth Warnick	John Hoffmann
Sociology	John Whitney	Renata Forste
Statistics	Ariana Hedges	W. Evan Johnson
Statistics	Natalie Noel Ellison	Natalie Blades
Statistics	Kathleen Finlinson	W. Evan Johnson
Teacher Education	Mindy Davis	Stefinee Pinnegar
Teacher Education	Eyleen Liliana	Ray Graham
Teacher Education	Megan Harris	Joy Campbell
Technology, School of	Matthew Butler	Brian Capt
Technology, School of	Alexander Stiles	Brent Strong
Technology, School of	Craig Treasure	Chia-Chi Teng
Technology, School of	Cameron Wilson	Geoffrey Wright
Theatre and Media Arts	Mario Ayala	Mary Farahnakian
Theatre and Media Arts	David Jon Banks	Jeff Parkin
Theatre and Media Arts	Samuel Bilodeau	Thomas Lefler
Theatre and Media Arts	Melissa DeGuire	Mary Farahnakian
Theatre and Media Arts	Anna Hargadon	Julia Ashworth
Theatre and Media Arts	Dusty Hulet	Tom Lefler
Theatre and Media Arts	Graham Ward	Eric Samuelsen

Theatre and Media Arts  
Visual Arts  
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Visual Arts

John Herzog  
Sarah Alger  
Christine Armbruster  
Colt Bowden  
Ashleigh Braithwaite  
Anna Ferrin  
Alyssa Grant  
Jason Harmon  
David Hawkins  
Bryan Hutchison  
Katie Jahner  
Ashlee Larsen  
Courtney McWhorter  
Sarah Theurer  
Steven Waggoner  
Hannah Wertz

Kelly Loosli  
Paul Adams  
James Swensen  
Linda Sullivan  
Fidalis Buehler  
Von Allen  
Daniel Barney  
Mark Graham  
Fidalis Buehler  
Peter Everett  
Daniel Barney  
Paul Adams  
Martha Peacock  
Joseph Ostraff  
Robert Barrett  
Sunny Taylor



# 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>Nancy A. Davis</b>
<b>Research Administrator:</b>	<b>Sandee Munoz</b>
<b>Office Manager/Secretary:</b>	<b>Jennifer Ricks</b>
<b>Part-time Secretaries:</b>	<b>Hanna Caldwell, Tyler Robertson</b>
<b>Web Site Administrator:</b>	<b>Aaron Hart, 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

RCR – NSF

E-Verify

The Coordinated Review Process-Executive Order 12372

Rights to Inventions Made by Nonprofit Organizations and Small Business Firms

Compliance Information for Specific Circumstances

Facilities Management

Historic Preservation

Paperwork Reduction Act

## ***Individual Rights***

Antidiscrimination

Civil Rights Act of 1964—Title VI

Employment of the Handicapped-Rehabilitation Act of 1973

Americans with Disabilities Act

Title IX—Sex Discrimination

Age Discrimination

Equal Employment Opportunity

Affirmative Action for Special Disabled and Vietnam Era Veterans

Utilization of Women-Owned Small Business

Utilization of Labor Surplus Area Concerns

Utilization of Small and Small Disadvantaged Business Concerns



## Privacy

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

## ***Protection Issues***

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

## ***Employee Directives***

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

## ***Fraud, Waste, and Abuse***

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

## ***Specific Administrative Requirements***

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