



2004 Annual Report

Office of Research and Creative Activities

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OFFICE OF RESEARCH and CREATIVE ACTIVITIES (ORCA)
at Brigham Young University

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Preface

This report covers January 1, 2004 to December 31, 2004.

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.

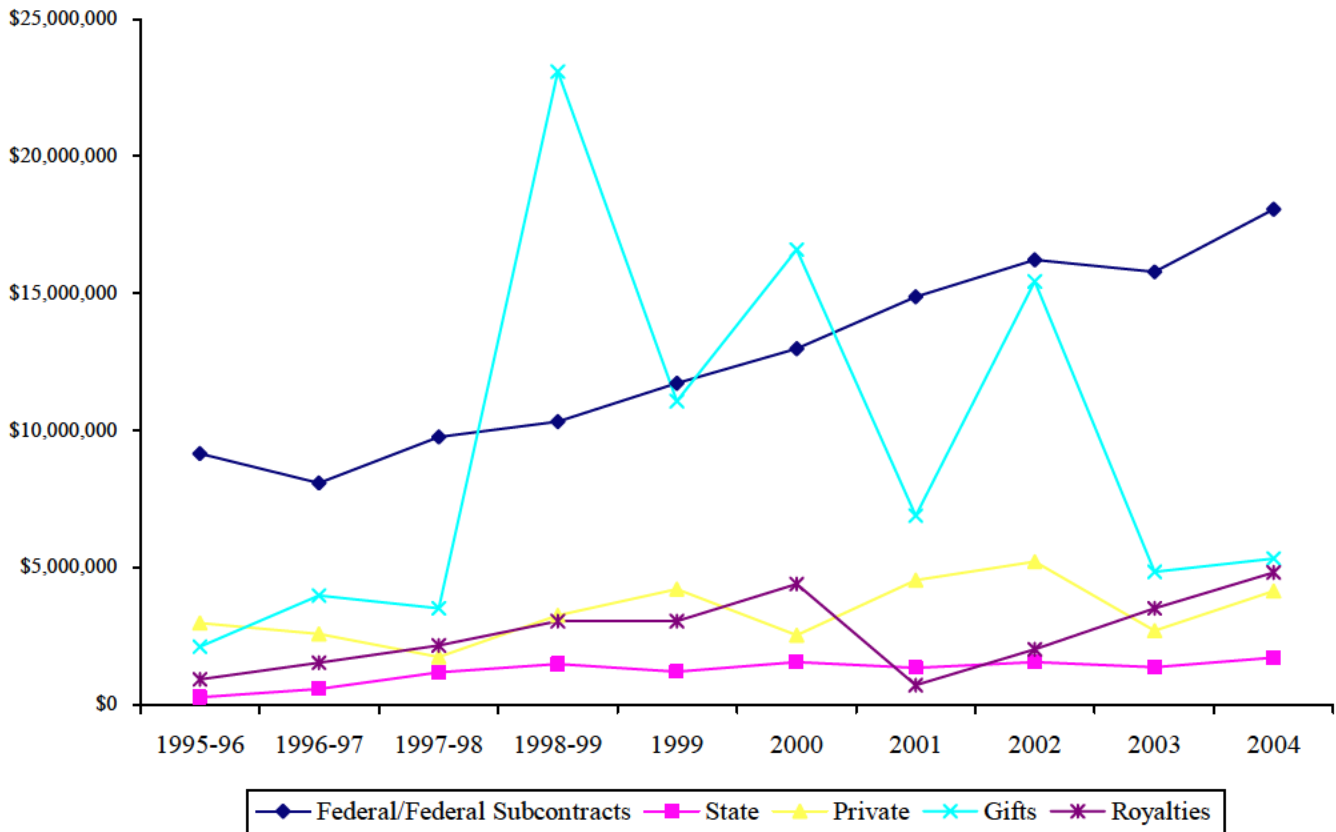


The University

External Research Funding (All sources including gifts, etc.)

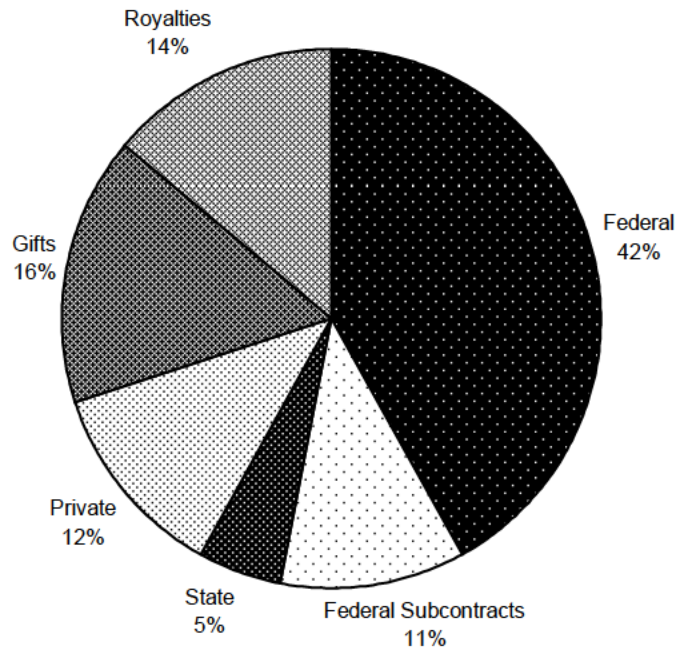
Year	Grants/Contracts				Gifts	Royalties	Total	%Federal
	Federal	Federal Subcontract	State	Private				
1995-96	\$6,478,246	\$2,682,370	\$267,645	\$2,962,018	\$2,106,967	\$921,667	\$15,418,913	59%
1996-97	\$5,752,383	\$2,322,925	\$571,313	\$2,561,252	\$3,969,198	\$1,528,754	\$16,705,825	49%
1997-98	\$7,447,875	\$2,307,126	\$1,174,691	\$1,734,226	\$3,498,303	\$2,148,956	\$18,311,177	53%
1998-99	\$7,689,987	\$2,625,949	\$1,466,440	\$3,236,576	\$23,088,131	\$3,036,079	\$41,143,162	25%
1999	\$9,579,892	\$2,147,400	\$1,189,443	\$4,192,998	\$11,056,985	\$3,036,079	\$31,202,797	38%
2000	\$10,786,727	\$2,194,176	\$1,551,853	\$2,525,966	\$16,585,802	\$4,386,382	\$38,030,906	34%
2001	\$12,319,534	\$2,560,829	\$1,336,012	\$4,526,380	\$6,878,844	\$699,919	\$28,291,518	53%
2002	\$12,942,472	\$3,271,259	\$1,547,471	\$5,210,390	\$15,436,981*	\$2,008,385	\$40,416,958	40%
2003	\$12,412,311	\$3,359,540	\$1,352,811	\$2,694,628	\$4,841,134	\$3,495,245	\$28,155,669	56%
2004	\$14,330,621	\$3,741,503	\$1,708,839	\$4,137,035	\$5,324,291	\$4,812,104	\$34,054,393	42%

* Gift total does not include \$313 million PACE donation to College of Engineering



External Funds by Source—2004

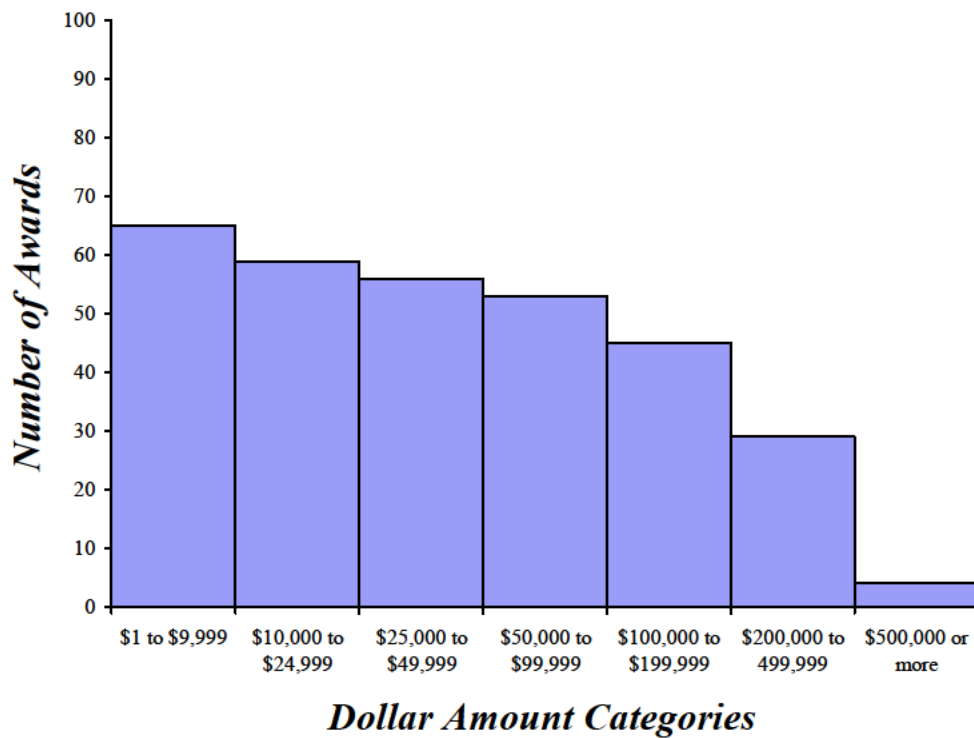
Source	Amount	% of Total
Federal	\$14,330,621	42%
Federal Subcontracts	\$3,741,503	11%
State	\$1,708,839	5%
Private	\$4,137,035	12%
Gifts	\$5,324,291	16%
Royalties	\$4,812,105	14%
<i>Total Funding</i>	\$34,054,393	100%



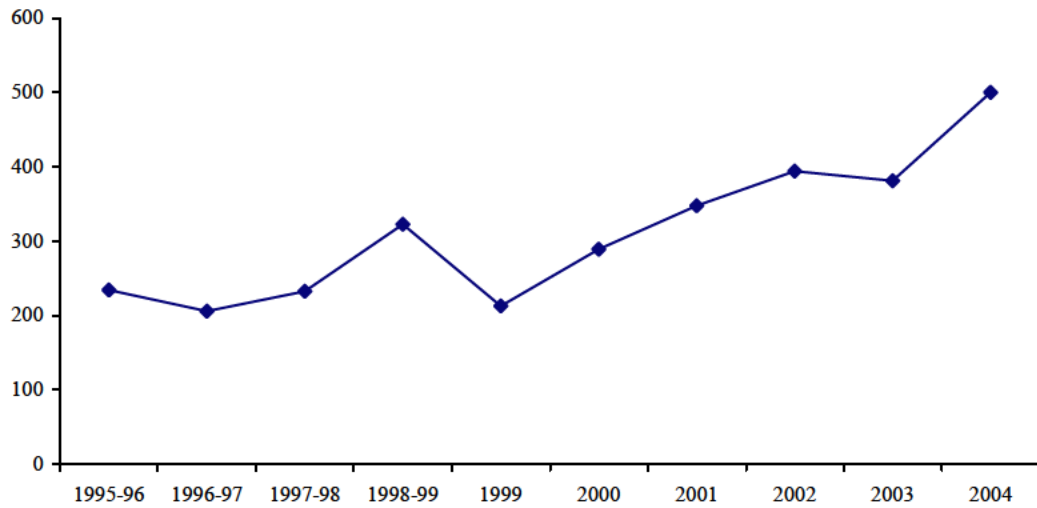
■ Federal □ Federal Subcontracts ■ State □ Private ■ Gifts ■ Royalties

Grant/Contract Awards by Amount—2004

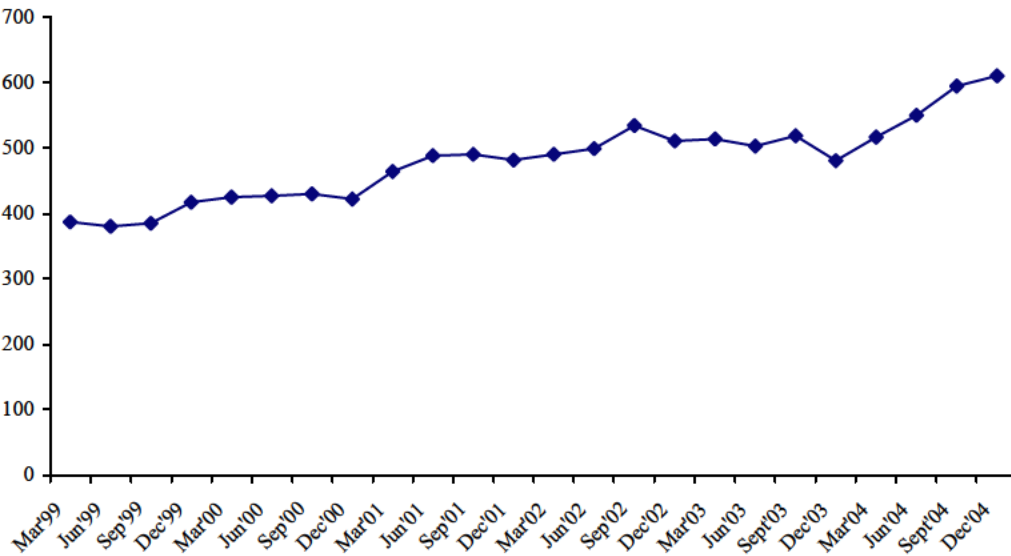
Dollar Amount Categories	# of Awards	% of Total Awards by #	\$ Awarded	% of Total Awards by \$
\$1 to \$9,999	65	21%	\$316,254	1%
\$10,000 to \$24,999	61	19%	\$968,318	4%
\$25,000 to \$49,999	56	18%	\$2,020,989	8%
\$50,000 to \$99,999	53	17%	\$3,661,684	15%
\$100,000 to \$199,999	45	14%	\$5,916,392	25%
\$200,000 to \$499,999	29	10%	\$8,271,935	35%
\$500,000 or more	4	1%	\$2,778,221	12%
<i>Totals</i>	313	100%	\$23,854,785	100%



Proposals Submitted

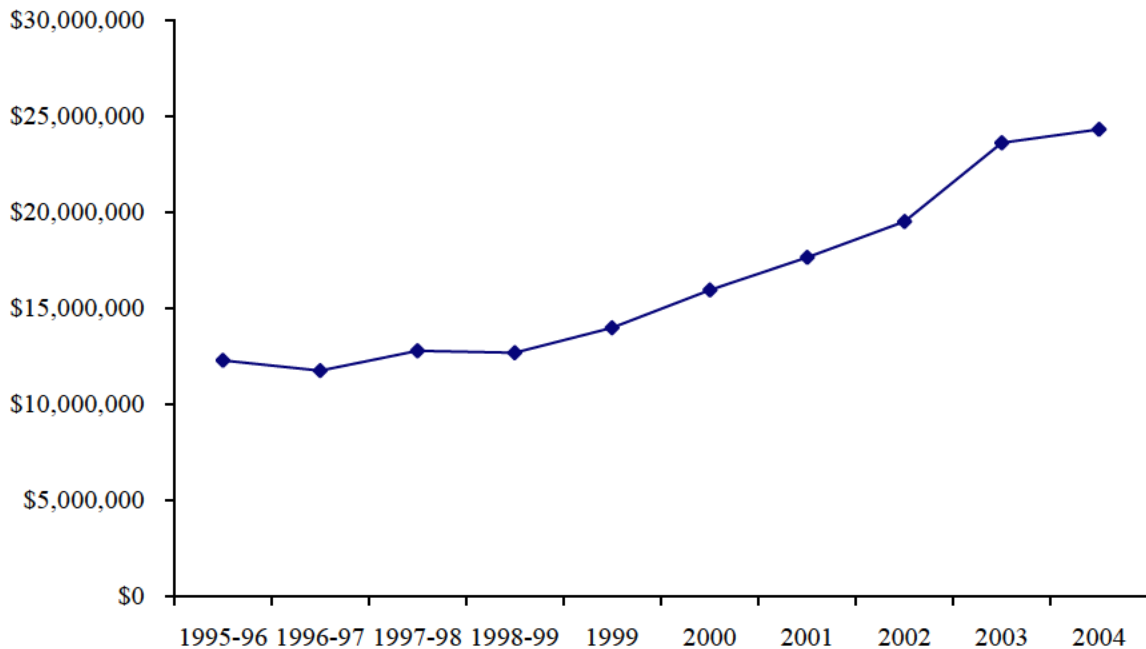


Active Accounts



Total Expenditures (Grants and Contracts)

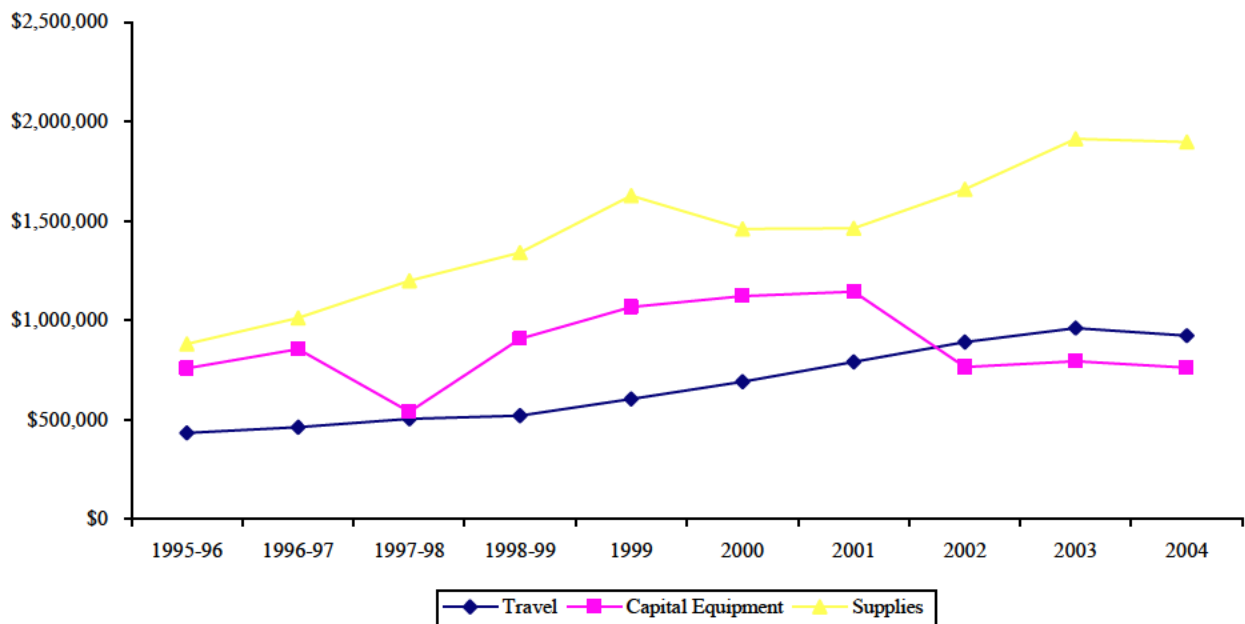
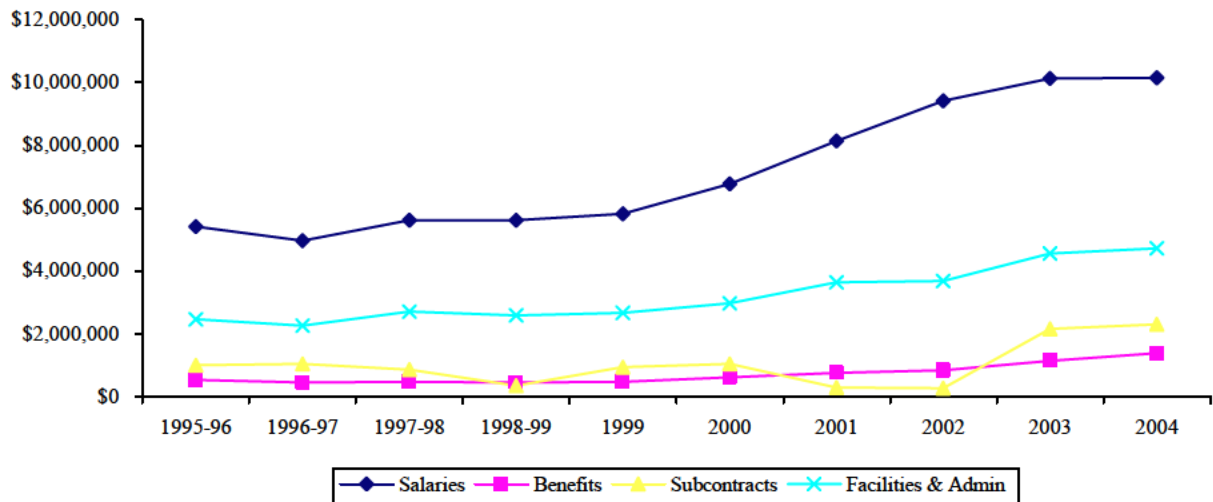
Year	Total Expenditures
1995-96	\$12,307,058
1996-97	\$11,779,169
1997-98	\$12,795,126
1998-99	\$12,690,389
1999	\$13,988,008
2000	\$15,966,274
2001	\$17,652,928
2002	\$19,536,264
2003	\$23,623,643
2004	\$24,339,292



2004 Research Contract/Grant Expenditures by Category

<i>Personnel Costs</i>	<i>Amount</i>
<i>Salaries & Wages</i>	
Administrative Salaries	757,423
Faculty Salaries	1,203,838
Faculty—Spring/Summer	1,585,152
Faculty—Supplemental	212,459
Faculty—Visiting, Foreign, Post Docs	889,429
Part-time Faculty Salaries	287,463
Other Wages	208,289
Staff Salaries	190,413
Student Contracts	2,532,399
Student Wages	2,286,745
<i>Total Salaries & Wages</i>	10,153,611
Fringe Benefits	1,376,687
<i>Total Personnel Costs</i>	11,530,298
<i>Other</i>	
Access Equipment	4,378
Access Lab Equipment	3,020
Advertising	1,164
Capital Equipment	764,097
Computer Services	134
Conference & Symposium Costs	68,169
Consultants	467,738
Contract Services	191,494
Employee Development/Training	79,548
Equipment Repair & Maintenance	26,065
Facilities & Administration	4,727,614
Facilities Maintenance	1,067
Fellowships	154,397
Hosting, Food, Entertainment	8,351
Non-Capital Furnishings	251
Non-Computer Non-Capital Equipment	127,216
Postage & Mailing	17,133
Printing & Copying	37,393
Prior Year Net Asset Addition	(63)
Program Income	(35,839)
Purchase Discounts Earned	(96)
Rental Expense	70,756
Research Publications Costs	118,120
Software Purchases	45,947
Student Aid	786,867
Subcontracts	2,308,255
Supplies	1,897,595
Telecommunications	13,701
Travel	924,473
Utilities	49
<i>Total Other Expenditures</i>	12,808,994
<i>Total Research Expenditures</i>	24,339,292

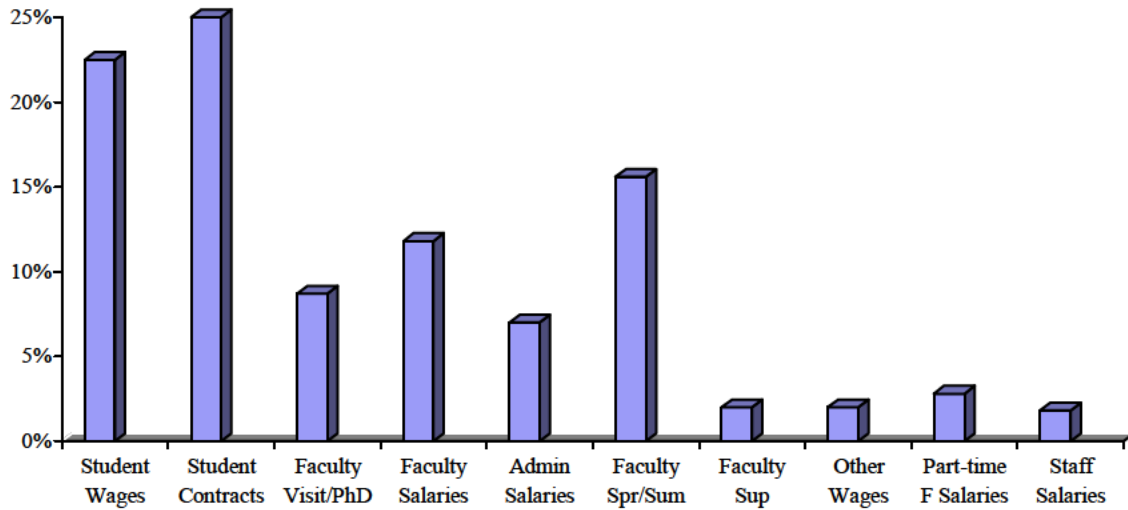
Research Dollars Expended (Grants and Contracts Only)



Salary and Wage Expenditures (Grants and Contracts Only)

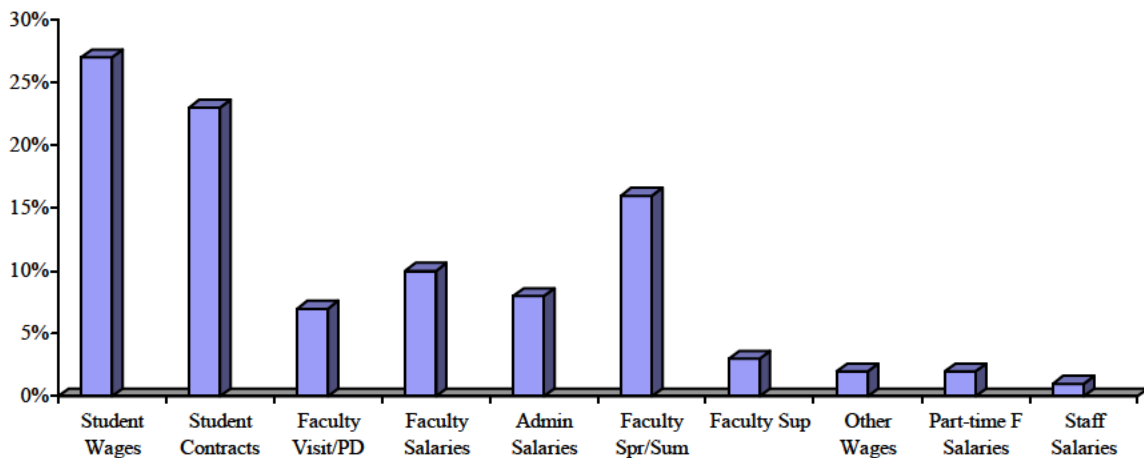
2004

Total: \$10,153,611



2003

Total: \$10,130,834

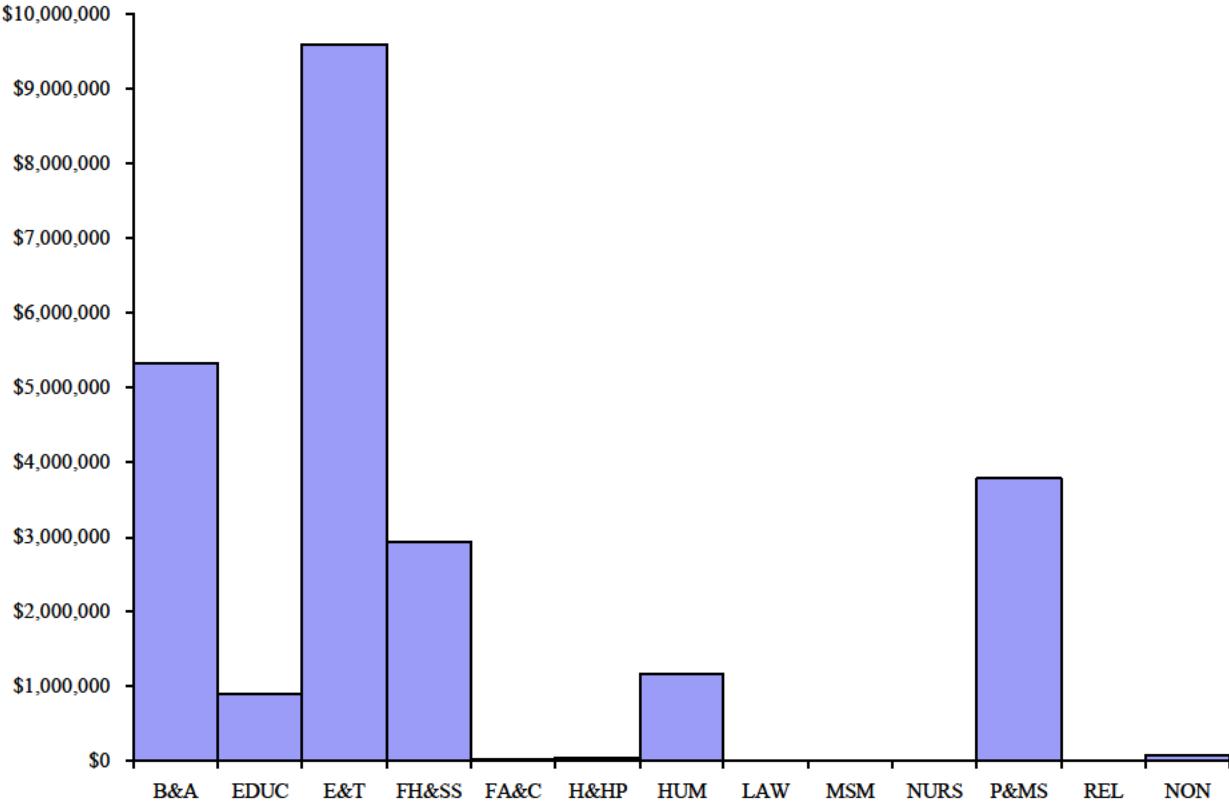




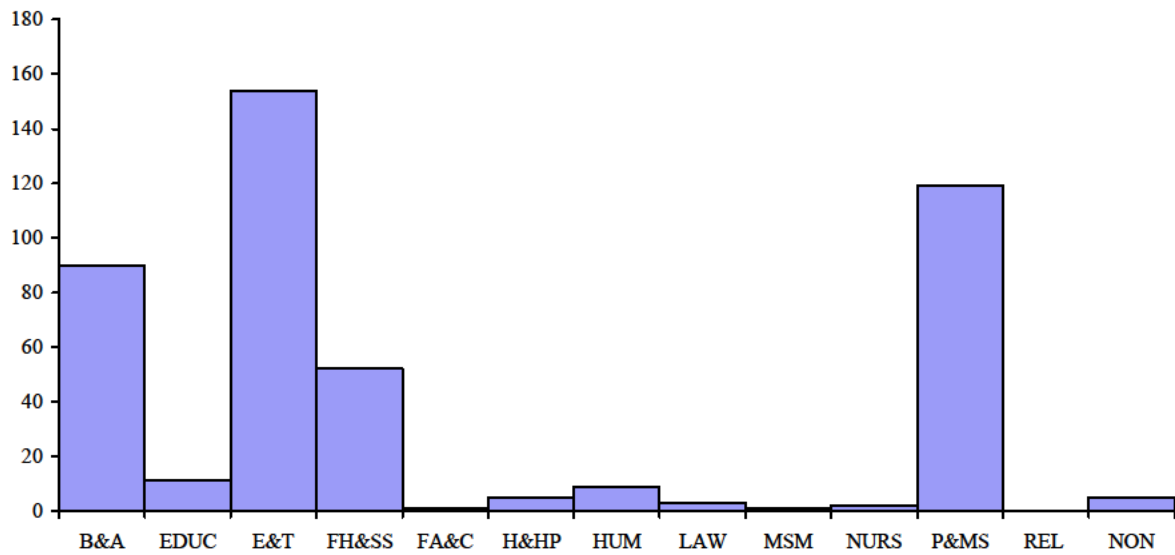
Information by College or School

Award Amount Totals 2004

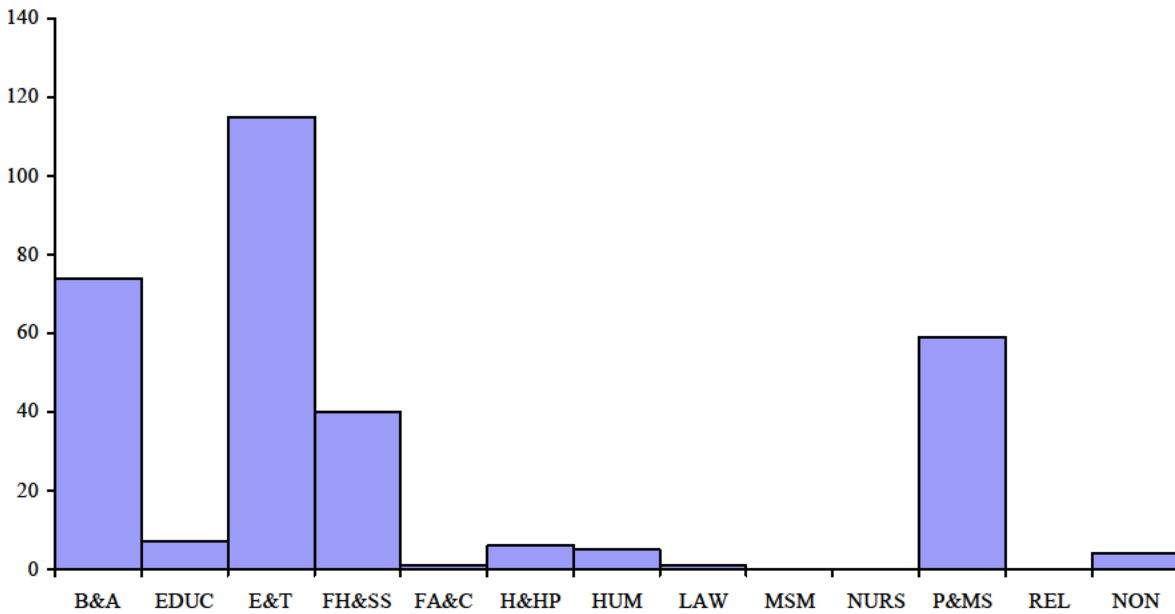
<i>College or School</i>	<i>Total</i>
Biology & Agriculture	\$5,317,650
Education	\$906,569
Engineering & Technology	\$9,592,837
Family, Home & Social Sciences	\$2,933,981
Fine Arts & Communications	\$23,680
Health & Human Performance	\$39,172
Humanities	\$1,173,480
J. Reuben Clark Law School	\$6,667
Marriot School of Management	\$0
Nursing	\$0
Physical & Mathematical Sciences	\$3,782,962
Religious Education	\$0
Non-College Units	\$77,787
<i>University Total</i>	\$23,854,785



Number of Proposals 2004



Number of Awards 2004



Research Contract/Grant Expenditures by College and Department 2004

<i>College and Department</i>	<i>Amount</i>
<u>Assoc Academic VP</u>	
Internship Programs	4,739.26
Royalties-Adm	(501.66)
Technology Transfer	30,458.84
TOTAL	34,696.44
<u>Biology & Agriculture</u>	
Integrative Biology	2,307,533.99
Microbiology-Molecular Biology	756,043.00
Monte Bean Life Science Museum	29,066.86
Nutrition-Dietetic-Food Science	259,170.68
Physiology-Developmental Biology	1,076,351.18
Plant and Animal Sciences	147,441.38
TOTAL	\$ 4,575,607.09
<u>Education</u>	
Audiology-Speech-Lang Pathology	42,798.01
Cites	186,011.68
Counseling & Special Education	8,541.64
Teacher Education	327,974.95
TOTAL	\$ 565,326.28
<u>Engineering & Technology</u>	
Chemical Engineering	1,724,123.53
Civil and Environmental Eng	2,735,062.66
College Engineering & Technology	30,000.00
Electrical and Computer Eng	2,002,409.31
Manufacturing Eng & Eng Tech	41,440.75
Mechanical Engineering	2,931,379.38
School of Technology	10,669.65
TOTAL	\$ 9,475,085.28
<u>Family Home & Social Sciences</u>	
Anthropology	62,806.59
Economics	89,272.49
Geography	7,819.00
Museum of Peoples and Cultures	144,423.29
Office of Public Archeology OPA	290,074.25
OPA Project Support	3,397.82
Political Science	877,505.40
Psychology	563,265.05

<i>College and Department</i>	<i>Amount</i>
School of Family Life	89,515.20
Smith Institute	5,919.97
Social Work	(360.00)
Sociology	9,055.22
TOTAL	\$ 2,142,694.28
<u>Health & Human Performance</u>	
Health Sciences	46,727.46
Physical Education	58,300.35
RMYL	(106,257.61)
TOTAL	(\$ 1,229.80)
<u>Humanities</u>	
Asian & Near East Languages	55,214.15
Center for Language Studies	471,705.75
French and Italian	24,164.51
Humanities Research Center	(5,340.62)
Humanities, Classic, Comp Lit	6,697.51
Linguistics	30,271.92
Spanish and Portuguese	98,493.85
TOTAL	\$ 681,207.07
<u>International Affairs Vice President</u>	
International VP	280,157.36
Kennedy International Center	769,064.98
TOTAL	\$ 1,049,222.34
<u>J. Reuben Clark Law School</u>	\$ 7,347.47
<u>Library</u>	\$ 2,541.28
<u>Marriott School of Management</u>	
Business Management	144,730.08
Marriott School of Management	323,998.29
Organiztnl leadership-Strategy	25,943.35
School of Accountancy-Info Sys	6,210.98
TOTAL	\$ 500,882.70
<u>Nursing</u>	\$ 2,561.92
<u>Physical & Math Sciences</u>	
Chemistry and Biochemistry	2,886,805.22
Computer Science	956,894.86
Earth Science Museum	(334.06)
Geology	236,883.81
Mathematics	190,804.11
Physics & Astronomy	1,031,855.58
Statistics	735.60
TOTAL	\$ 5,303,645.12
<u>Student Life Vice President</u>	(\$ 295.00)
Grand Total	\$ 24,339,292.47

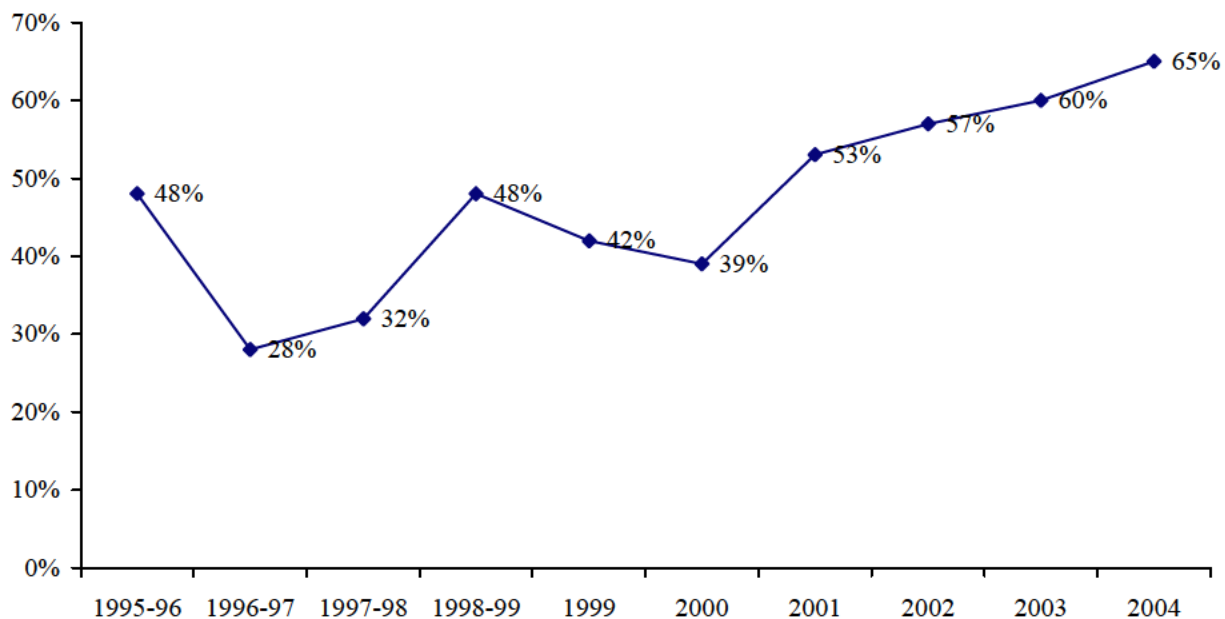


College of
Biology
& Agriculture

Summary of Sponsored Research (Grants & Contracts)

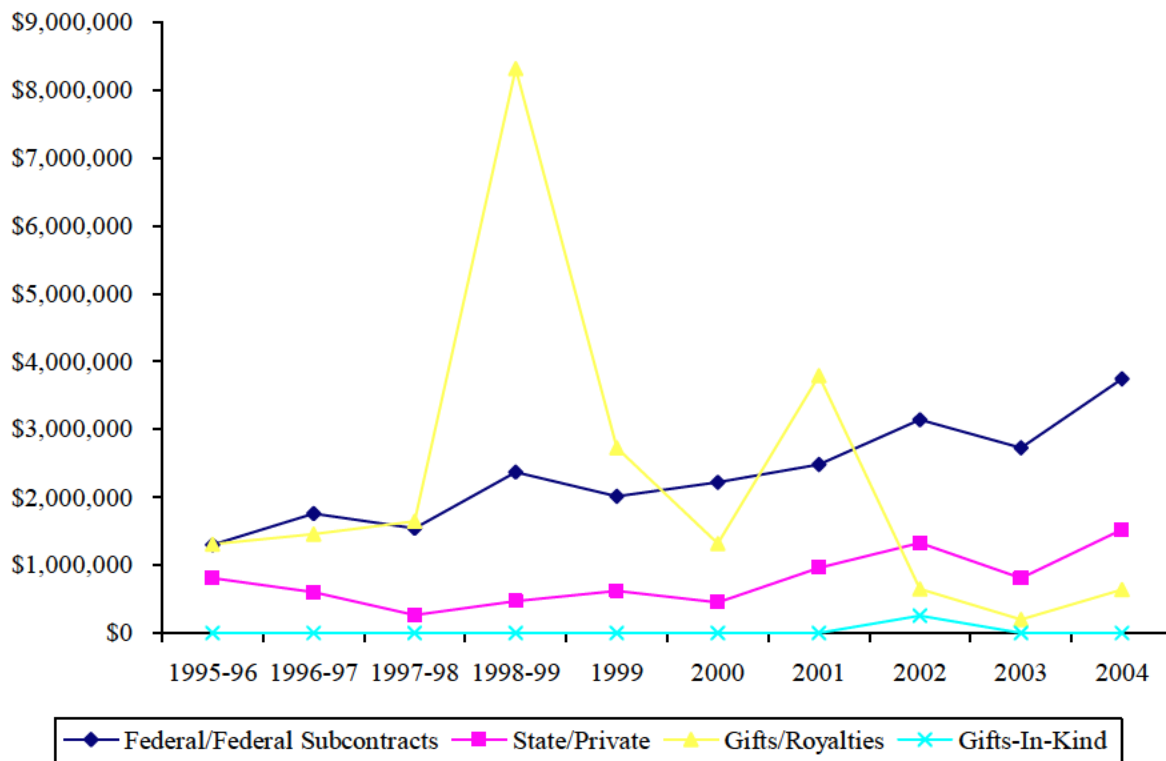
Department	# of Faculty	# of Faculty Submitting	# of Proposals Submitted	# of Awards	Dollars Awarded
Bean Museum	0	0	0	0	0
Integrative Biology	38	32	48	39	\$1,782,747
Microbiology & Molecular Biology	19	14	16	11	\$968,371
Nutrition, Dietetics & Food Science	14	2	2	11	\$621,200
Physiology & Developmental Biology	16	11	16	9	\$1,767,151
Plant & Animal Science	18	10	8	4	\$178,181
<i>TOTALS</i>	105	69	90	74	\$5,317,650

Proposal Submission Activity



External Research Funding (All Sources)

Year	Grants/Contracts		Gifts/Royalties	Gifts-In-Kind	Total
	Federal/Federal Subcontracts	State/Private			
1995-96	\$1,297,925	\$810,096	\$1,312,258	\$0	\$3,420,279
1996-97	\$1,763,717	\$600,668	\$1,456,474	\$0	\$3,820,859
1997-98	\$1,547,816	\$264,232	\$1,643,295	\$0	\$3,455,343
1998-99	\$2,370,292	\$471,857	\$8,318,486	\$0	\$11,160,635
1999	\$2,010,191	\$616,711	\$2,729,011	\$0	\$5,355,913
2000	\$2,218,777	\$447,877	\$1,318,477	\$0	\$3,985,131
2001	\$2,484,780	\$958,960	\$3,796,391	\$0	\$7,240,131
2002	\$3,144,951	\$1,331,910	\$652,762	\$255,000	\$5,384,623
2003	\$2,734,614	\$805,898	\$200,259	\$0	\$3,740,771
2004	\$3,744,218	\$1,525,364	\$638,435	\$0	\$5,908,017



College of Biology and Agriculture 2004 Awards

<u>PI</u>	<u>Co-PI</u>	<u>Sponsor</u>	<u>Title</u>	<u>Start Date</u>	<u>End Date</u>	<u>Type</u>	<u>Amount</u>	<u>N/C</u>
<i>Integrative Biology</i>								
Anderson, Val		Dugway Proving Grounds	Dugway ITAM Project	04/30/04	12/30/04	1	\$9,835	C
Anderson, Val		BASF Corp.	Cheatgrass Control Project	01/01/02	Open	4	\$2,500	C
Anderson, Val		Dugway Proving Grounds	Dugway ITAM Project	03/01/02	11/30/05	1	\$18,309	C
Anderson, Val		Dugway Proving Grounds	Dugway ITAM Project	03/01/02	11/30/05	1	\$32,550	C
Anderson, Val J		Dugway Proving Ground	Dugway ITAM Project	04/30/04	02/15/05	1	\$48,000	C
Anderson, Val Jo	w/ Roundy, Bruce	Forest Service	Strategies & Methodologies for Diversifying Crested Wheatgrass Stands	07/08/04	06/30/06	1	\$61,000	N
Anderson, Val Jo		Forest Service	Seed Collecting, Shrub Manipulation & Seed Yield	07/14/04	09/30/06	1	\$140,000	N
Anderson, Val Jo		Forest Service	Chemical & Biological Detector	06/01/03	09/30/06	1	\$50,000	C
Belk, Mark		Utah DWR	Determining Seasonal Habitat Requirements for Chub	07/01/03	06/30/06	3	\$54,500	C
Belk, Mark		Utah Dept. of Natural Resources	Repatriation of Wasatch Front Columbia Spotted Frog	07/01/03	06/30/06	3	\$35,880	C
Belk, Mark		UDWR	Growth and Survival of Young June Sucker in Utah Lake	07/01/02	04/30/06	3	\$8,012	C
Crandall, Keith		NSF	Systematics and Evolution of Barnacles REU Supplement	03/01/03	08/31/04	1	\$6,000	C
Crandall, Keith		NSF	Systematics and Evolution of Barnacles	03/01/03	08/31/05	1	\$101,090	C
Crandall, Keith	w/ Whiting, Michael	NSF	Biocomplexity: Hexapod Phylogenomics - REU Supplement	01/01/02	12/31/06	1	\$4,000	C
Crandall, Keith		NSF	Systematics and Evolution of Barnacles	03/01/03	08/31/05	1	\$20,000	C
Crandall, Keith		Johns Hopkins (NIH)	Molecular Epidemiology of N Gonorrhoeae in Balt. MD	05/01/02	02/28/05	2	\$112,730	C
Davis, James		UT DWR	Shrub Lab	07/01/92	07/01/09	1	\$50,000	C
Flinders, Jerran		Nevada Chucker Fndtn.	Wildlife Population Dynamics	02/25/04	open	4	\$4,500	N
Flinders, Jerran		Nevada Chucker Foundation	Wildlife Population Dynamics	02/25/04	open	4	\$5,000	C
Flinders, Jerran		UT RMCC	Recovery Study of Sage Grouse in Strawberry Valley	03/01/03	06/30/06	3	\$81,200	C
Flinders, Jerran		Utah DWR	Bighorn Sheep Recovery & Conservation in No. Utah	07/01/04	06/30/08	3	\$160,000	N
Flinders, Jerran		UT Dept. of Natural Resources	Factors Affecting the Pigmy Rabbit in Utah	07/01/04	06/30/05	3	\$49,896	N
Flinders, Jerran		US Forest Service	Bighorn Sheep Recovery and Conservation in No. Utah	09/21/04	09/30/06	1	\$2,500	N
Flinders, Jerran		Utah DWR	Conservation Studies of the Pygmy Rabbit	11/01/04	10/31/05	3	\$55,000	N
Flinders, Jerran		Various Private Sources	Wildlife Population Dynamics	02/25/04	Open	4	\$2,500	C
Hatch, Kent		Utah DWR	Chytrid fungus Infection Among Columbia Spotted Frogs	04/01/04	09/01/05	3	\$20,000	N
Johnson, Jerald		USU (UT DWR)	Fragmentation on Speciatin and Gene Flow in Chubs	07/01/04	6/31/05	3	\$6,000	N
Johnson, Leigh		NSF	Phylogenetic & Evolutionary Inferences in the Collomia-Navarretia Clade	01/15/04	12/31/06	1	\$302,276	N
Johnson, Leigh		NSF	Phylogenetic & Evolutionary Inferences in Collomia-Navarretia clade	01/15/04	12/31/06	1	\$6,000	C
Roundy, Bruce		Forest Service	Strategies & Methodologies for Diversifying Crested Wheatgrass Stands	07/08/04	06/30/06	1	\$61,000	N
Roundy, Bruce		BLM - Utah Office	Bulldog Fire Rehabilitation Study	08/01/04	06/01/06	1	\$10,596	N

College of Biology and Agriculture 2004 Awards

<u>PI</u>	<u>Co-PI</u>	<u>Sponsor</u>	<u>Title</u>	<u>Start Date</u>	<u>End Date</u>	<u>Type</u>	<u>Amount</u>	<u>N/C</u>
Shiozawa, Dennis		Utah DWR	Genetic Analysis of Cutthroat Trout	11/01/03	06/30/05	3	\$40,000	C
Shiozawa, Dennis	w/Lee, DJ	Agris-Schoen (USDA)	An Automated Fish Migration Pattern Monitoring System	10/20/04	10/19/06	2	\$60,068	N
Shiozawa, Dennis		Utah DWR	Genetic Analysis of Cutthroat Trout	11/01/03	06/30/05	3	\$6,600	C
Sites, Jack		NSF_REU	Phlogeny of Xantusiidae, REU Supplement	06/01/02	05/31/05	1	\$6,000	C
Sites, Jack		NSF	ATOL: The Deep Scaly Project	01/01/04	12/31/04	1	\$6,000	C
Sites, Jack		NSF	Deep Scaly Project	01/01/04	12/31/05	1	\$103,500	C
St. Clair, Larry		Forest Service	Lichen Biomonitoring	12/15/01	12/31/06	1	\$2,705	C
White, Clayton		Utah DWR	Mountain Plovers in the Uintah Basin	06/15/96	09/30/04	3	\$15,000	C
Whiting, Michael		NSF_REU	Phlogeny of the Siphonaptera, REU Supplement	03/15/00	02/28/06	1	\$6,000	C
Whiting, Michael		NSF	Biocomplexity: Hexapod Phylogenomics	01/01/02	12/31/06	1	\$12,000	C
Whiting, Michael		NSF	Biocomplexity: Hexapod Phylogenomics - REU Supplement	01/01/02	12/31/06	1	\$4,000	C
<i>Microbiology and Molecular Biology</i>								
Bridgewater, Laura		NIH	Chondrocyte-Specific Transcriptional Regulation	08/01/02	07/31/05	1	\$177,025	C
Crandall, Keith		NIH	Phylogenetics and Recombination	07/01/02	06/30/05	1	\$120,836	C
Evans, Paul	w/Shiozawa, Dennis	Utah DWR	Genetic Analysis of Cutthroat Trout	11/01/03	06/30/05	3	\$6,600	C
Jensen, James		U of U (NIH)	Antimalarian Properties of Paupuan Plants	09/25/03	04/30/04	2	\$37,000	N
Jensen, James		U of Utah (NIH)	Antimalarial Properties of Papuan Plants	09/25/03	04/30/05	2	\$37,000	C
Murray, Byron		Lipidivrotech Inc	Inactivate Target Virus Using LVT Drug Delivery Process	10/08/03	Open	4	\$500,000	C
O'Neil Kim		Celtic Biotech Inc.	Development of TK1 Sandwich Assay	02/09/04	open	4	\$20,000	N
Robison, Richard		Tetracore, Inc.	Evaluation of Dignostic Strip for I.D. of Anthrax	01/01/04	open	4	\$5,460	C
Robison, Richard		AOAC International	Validate Methods for Bacillus anthracis	04/05/04	06/15/04	2	\$11,250	N
Robison, Richard		Los Alamos Natl Lab	Microgram Samples Project	06/15/04	open	1	\$4,300	N
Robison, Richard		Dugway Proving Grounds	Microgram Samples Program	09/07/04	09/30/04	1	\$37,500	N
Robison, Richard		LANL	Microgram Samples Program	11/23/04	12/31/04	1	\$11,400	N
<i>Nutrition, Dietics and Food Science</i>								
Christensen, Merrill		NIH	Selenium, Isoflavones & Prostate Cancer Risk Reduction	04/01/04	03/31/06	1	\$225,000	N
Ogden, Lynn		BAF	Consumer Preferences	11/01/03	10/31/04	4	\$3,200	C
Ogden, Lynn		BAF	Consumer Food Preferences	11/01/03	10/30/04	4	\$6,000	C
Ogden, Lynn		BAF	Consumer Taste Preferences	11/01/03	10/31/04	4	\$24,100	C
Ogden, Lynn		LDS Welfare Services	Sensory Testing	12/30/92	Open	4	\$8,000	C
Ogden, Lynn		BAF	Consumer Taste Preferences	11/01/03	10/31/04	4	\$5,400	C
Ogden, Lynn		BAF	Consumer Taste Preferences	11/01/03	10/31/04	4	\$4,000	N
Ogden, Lynn		BAF	Consumer Taste Preferences	11/01/03	10/31/04	4	\$14,500	N

College of Biology and Agriculture 2004 Awards

<u>PI</u>	<u>Co-PI</u>	<u>Sponsor</u>	<u>Title</u>	<u>Start Date</u>	<u>End Date</u>	<u>Type</u>	<u>Amount</u>	<u>N/C</u>
Pike, Oscar		LDS Welfare Services	Quality Food Labs	01/01/05	12/30/05	4	\$155,000	C
Pike, Oscar		LDS Welfare Services	Quality Food Labs	01/01/04	12/31/04	4	\$149,500	C
Steele, Frost		Deseret Meats	Pathogen Analysis of Meat Products	03/01/01	open	4	\$26,500	C
<i>Physiology and Developmental Biology</i>								
Bell, John		Dept of Education	Improvement of Post-Secondary Education	09/01/04	08/31/07	1	\$526,695	N
Black, Hal		UT Dept. of Natural Res.	Small Mammals in the Eastern Great Basin Desert of UT	06/01/04	06/30/05	3	\$25,428	N
Busath, David		Florida State U (NIH)	Structure & Function of Gramicidin, M2 & KcsA Channels	08/01/00	02/28/05	2	\$98,479	C
Kooyman, David		Moroni Feed	Characterization of Turkey Cardiomyopathy	01/01/04	open	4	\$13,000	N
Lephart, Edwin		USDA	Central Nervous System, Aging and Behavior	12/01/04	11/30/08	1	\$492,461	N
Sudweeks, Sterling		NIH	Neuronal Nicotine Ach Receptors & Alzheimer's Disease	09/30/02	08/31/05	1	\$105,336	C
Winder, William		NIH	Physiology of Malonyl-CoA in Muscle During Exercise	05/01/92	08/31/05	1	\$205,860	C
Woodbury, Dixon		NIH	Molecular Reconstitution of Neurotransmitter Release	04/01/04	05/31/05	1	\$215,787	C
Woodbury, Dixon		NIH	Molecular Reconstruction of Neurotransmitter Release	04/01/01	05/31/05	1	\$84,105	C
<i>Plant and Animal Science</i>								
Allen, Phil		Forest Service	Developing Containers Propagation Protocols for Problem Forbs	07/07/04	06/30/06	1	\$30,000	N
Campbell, Emilie		Alpaca Research Foundation	Investigation of Genes that Control Pigmentation in Alpacas	08/17/04	08/16/06	4	\$12,088	N
Campbell, Emilie		USDA	Mapping of the "rat-tail" syndrome in cattle	03/15/04	03/14/06	1	\$71,083	N
Webb, Bruce		USGS	Soil Analysis	04/15/03	09/30/05	1	\$65,010	N

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

N/C: N=New; C=Continuing

Department Totals

Integrative Biology	\$1,782,747
Microbiology & Molecular Biology	\$968,371
Nutrition, Dietetics & Food Science	\$621,200
Physiology & Developmental Biology	\$1,767,151
Plant & Animal Science	\$178,181
Bean Museum	\$0

College Total:

\$5,317,650

Biology & Agriculture

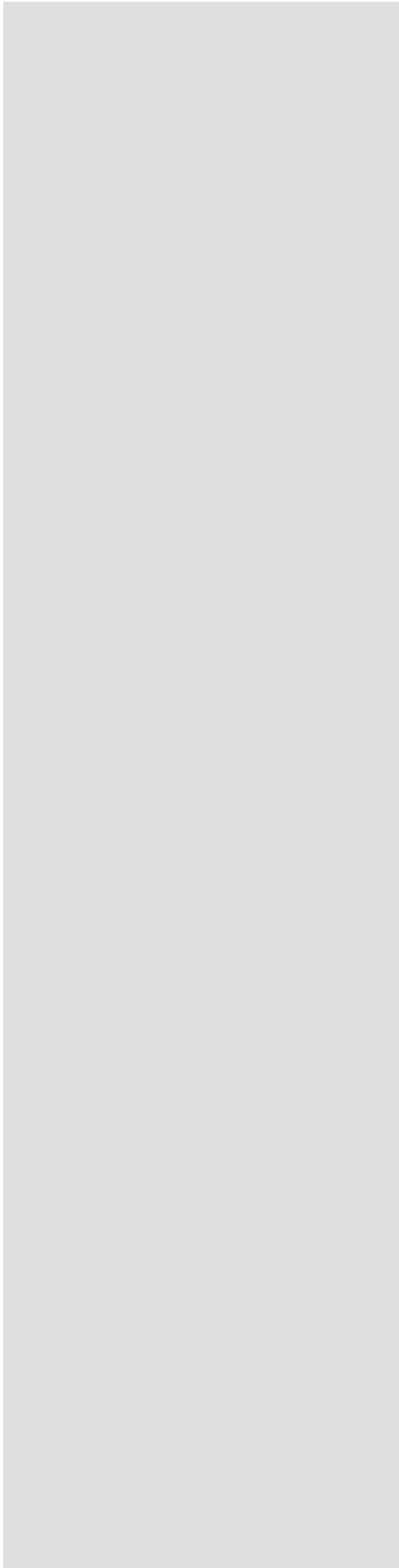
Source Breakdown of Grants and Contracts

Sponsor	Number Awarded	Total Amount
Federal		
BLM	1	\$10,596
DOE	1	\$526,695
Dugway Proving Grounds, Army	5	\$146,194
Forest Service	5	\$344,705
LANL	1	\$11,400
Los Alamos Natl Lab	1	\$4,300
NIH	7	\$1,133,949
NSF	9	\$576,866
NSF_REU	2	\$12,000
US Forest Service	1	\$2,500
USDA	2	\$563,544
USGS	1	\$65,010
UTDWR	1	\$50,000
Total	37	\$3,447,759
Subcontracts		
AOAC International	1	\$11,250
Florida State U (NIH)	1	\$98,479
Johns Hopkins (NIH)	1	\$112,730
U of U (NIH)	2	\$74,000
Total	5	\$296,459
State		
UDWR	1	\$8,012
USU (UTDWR)	1	\$6,000
UT Dept. Natural Resources	3	\$111,204
UTRMCC	1	\$81,200
Utah DWR	7	\$357,700
Total	13	\$564,116
Private		
Alpaca Research Foundation	1	\$12,088
BAF	6	\$57,200
BASF Corp.	1	\$2,500
Celtic Biotech Inc.	1	\$20,000
Deseret Meats	1	\$26,500
Lipidvirotech Inc.	1	\$500,000
LDS Welfare Services	3	\$312,500
Moroni Feed	1	\$13,000
Nevada Chucker Foundation	2	\$9,500

Biology & Agriculture

Source Breakdown of Grants and Contracts

<u>Sponsor</u>	<u>Number Awarded</u>	<u>Total Amount</u>
Tetracore Inc.	1	\$5,460
Various Private Sources	1	\$2,500
<i>Total</i>	15	\$961,248

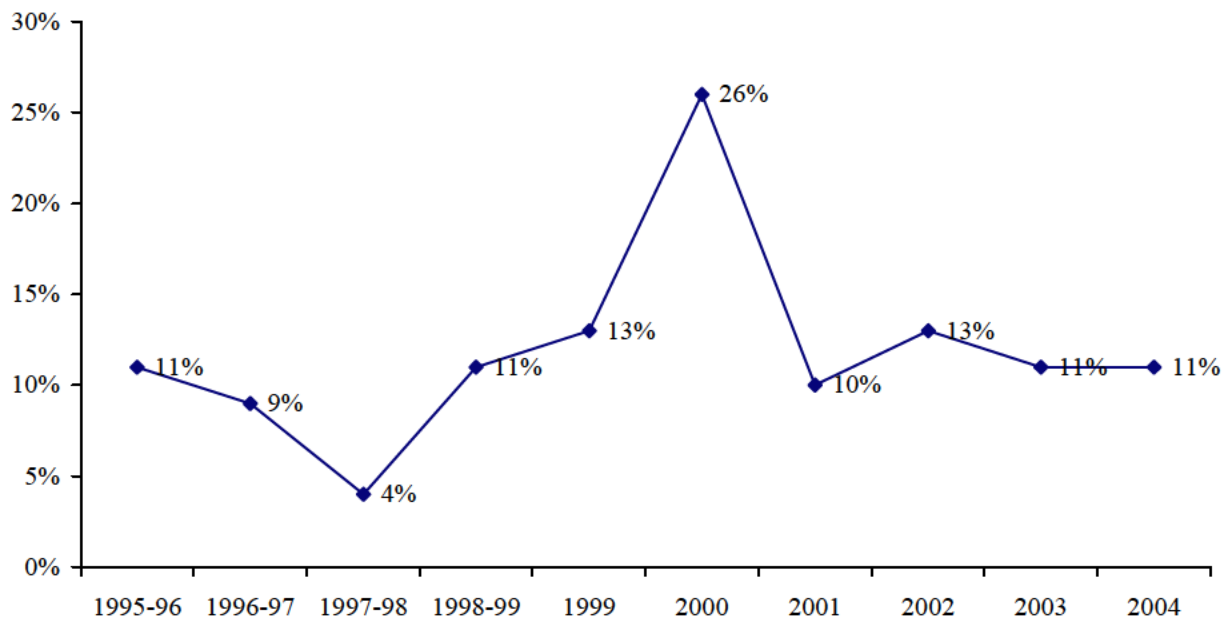


David O.
McKay
School
of Education

Summary of Sponsored Research (Grants & Contracts)

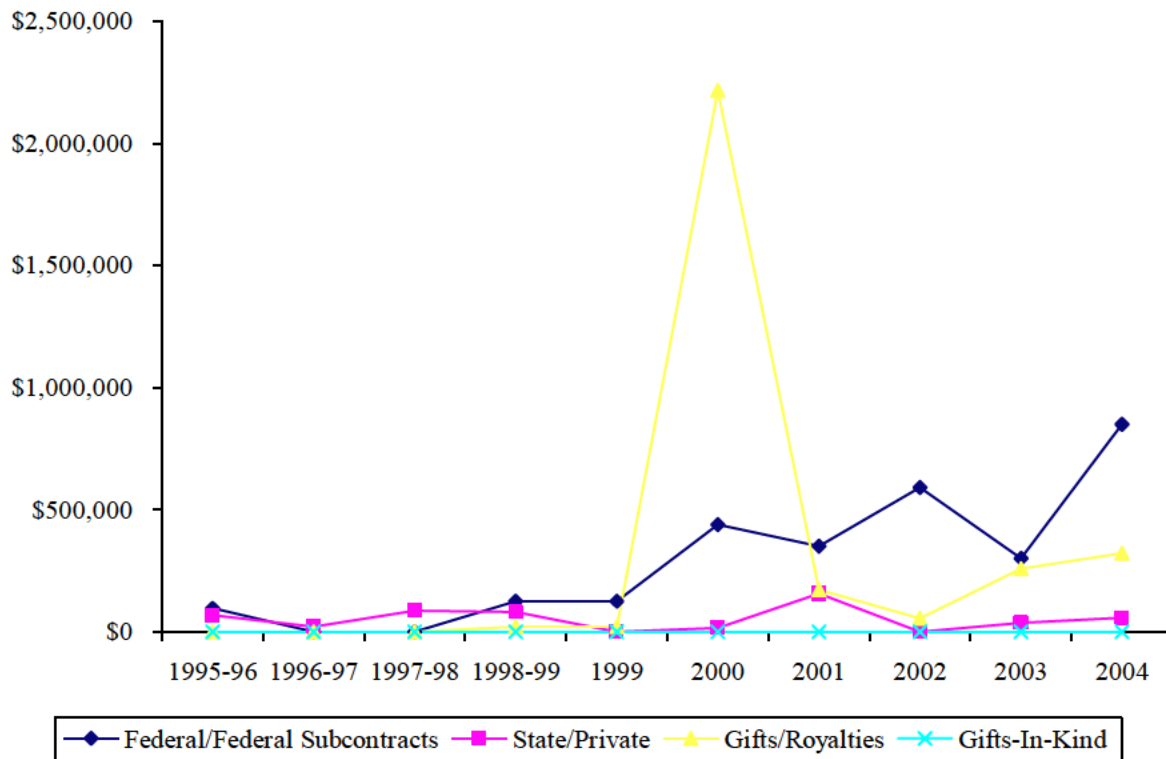
Department	# of Faculty	# of Faculty Submitting	# of Proposals Submitted	# of Awards	Dollars Awarded
Audiology & Speech Language Path	9	3	4	3	\$106,988
Cites	5	1	1	1	\$298,230
Counseling Psych & Special Educ	18	3	3	2	\$201,377
Educ Leadership & Foundations	14	2	1	0	\$0
Instructional Psych & Tech	9	0	0	0	\$0
Teacher Education	39	2	2	1	\$299,974
<i>TOTALS</i>	94	11	11	7	\$906,569

Proposal Submission Activity



External Research Funding (All Sources)

Year	Grants/Contracts		Gifts/Royalties	Gifts-In-Kind	Total
	Federal/Federal Subcontracts	State/Private			
1995-96	\$96,306	\$67,858	\$0	\$0	\$164,164
1996-97	\$0	\$20,000	\$0	\$0	\$20,000
1997-98	\$0	\$85,810	\$0	\$0	\$85,810
1998-99	\$126,400	\$81,400	\$20,000	\$0	\$227,800
1999	\$126,400	\$0	\$20,000	\$0	\$146,400
2000	\$439,960	\$14,400	\$2,217,302	\$0	\$2,671,662
2001	\$349,123	\$157,560	\$173,750	\$0	\$680,433
2002	\$590,209	\$0	\$53,618	\$0	\$643,827
2003	\$300,000	\$37,330	\$260,025	\$0	\$597,355
2004	\$848,955	\$57,614	\$322,320	\$0	\$1,228,889



David O. McKay School of Education 2004 Awards

<u>PI</u>	<u>Co-PI</u>	<u>Sponsor</u>	<u>Title</u>	<u>Start Date</u>	<u>End Date</u>	<u>Type</u>	<u>Amount</u>	<u>N/C</u>
<i>Audiology and Speech Language Pathology</i>								
Blair, Nancy		Ut St Office of Education	Part time SLP Supervisors	06/23/03	06/30/04	3	\$ 51,744	N
Blair, Nancy		Utah State Office of Education	Part-time Supv	06/07/04	08/25/05	2	\$ 51,744	N
McPherson, David		Special Olympics	Grant	06/01/04	05/31/05	2	\$ 3,500	N
<i>Center for Improvement of Teacher Education and Schooling</i>								
Young, Richard		Dept of Education	Systematic Instruction Project for Improving Literacy in Grades 4-9	08/13/04	08/12/05	1	\$ 298,230	N
<i>Counseling Psychology and Special Education</i>								
Prater, Mary Anne		Dept of Education	Preparing New Educators to Teach Students with Disabilities	08/01/04	07/31/04	1	\$ 195,507	N
Smith, Tim		TP Industrial	Multicultural Counseling Outcomes	09/01/04	08/31/05	4	\$ 5,870	N
<i>Teacher Education</i>								
Teemant, Annela		Dept of Education	Bilingual ESL Endorsement	09/01/04	08/31/05	1	\$ 299,974	C

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

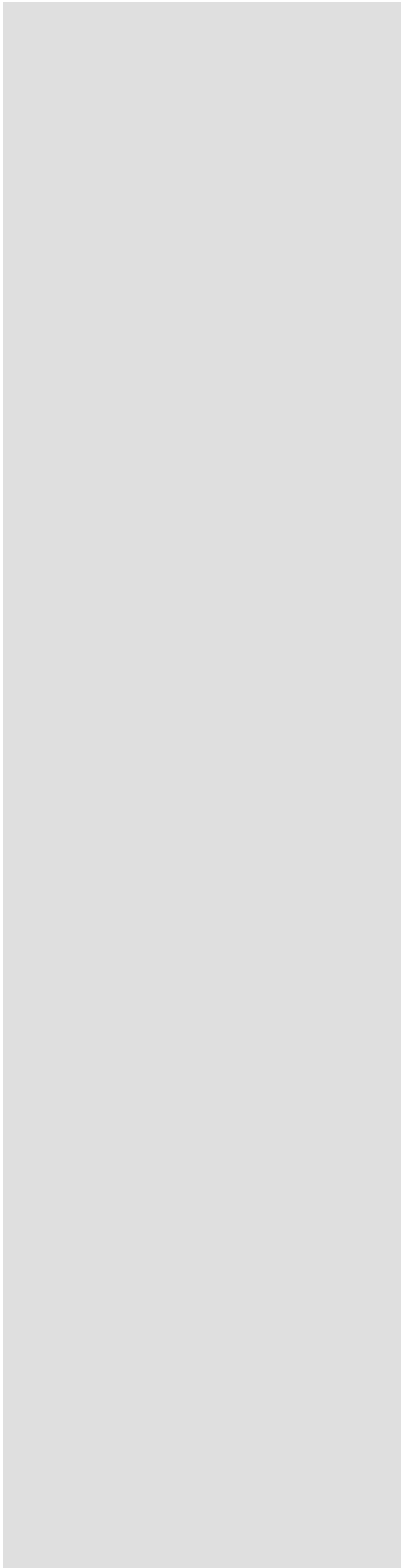
N/C: N=New; C=Continuing

Department Totals	
Audiology & Speech Language Pathology	\$106,988
Center for Improvement of Teacher Education and Schooling	\$298,230
Continuing Education	\$0
Counseling Psychology & Special Education	\$201,377
Educational Leadership & Foundations	\$0
Instructional Psychology & Technology	\$0
Teacher Education	\$299,974
<i>College Total:</i>	<u>\$906,569</u>

Education

Source Breakdown of Grants and Contracts

<u>Sponsor</u>	<u>Number Awarded</u>	<u>Total Amount</u>
Federal		
Dept of Education	3	\$793,711
<i>Total</i>	3	\$793,711
Subcontracts		
Special Olympics	1	\$3,500
Utah State Office of Education	1	\$51,744
<i>Total</i>	2	\$55,244
State		
Utah State Office of Education	1	\$51,744
<i>Total</i>	1	\$51,744
Private		
TP Industrial	1	\$5,870
<i>Total</i>	1	\$5,870

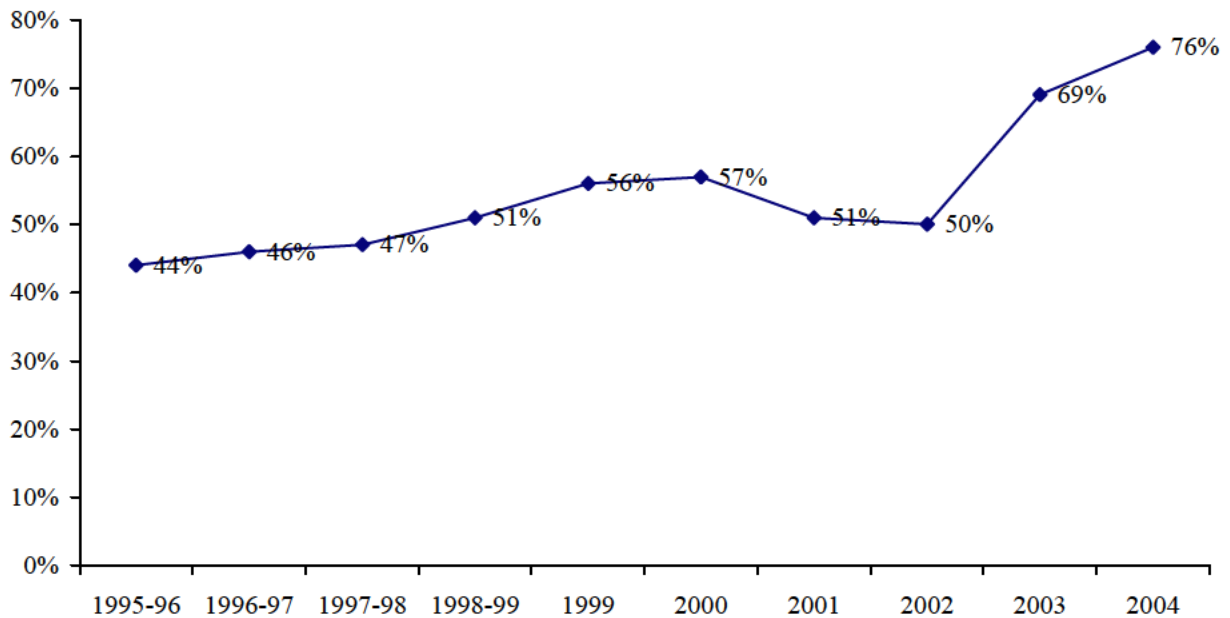


College of
Engineering
&
Technology

Summary of Sponsored Research (Grants & Contracts)

Department	# of Faculty	# of Faculty Submitting	# of Proposals Submitted	# of Awards	Dollars Awarded
Chemical Engineering	13	14	26	23	\$1,781,871
Civil & Environmental Engineering	19	18	29	28	\$2,066,141
Electrical & Computer Engineering	28	23	55	24	\$2,285,708
Mechanical Engineering	24	27	42	39	\$3,369,891
School of Technology	30	5	2	1	\$89,226
<i>TOTALS</i>	114	87	154	115	\$9,592,837

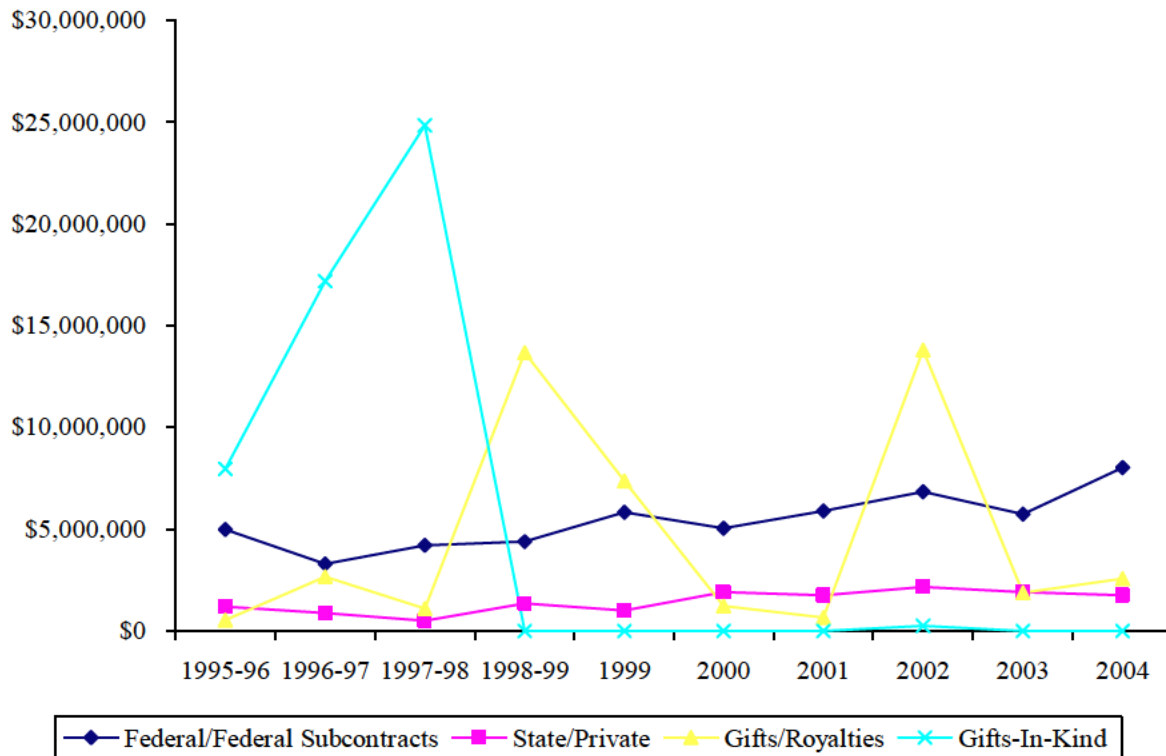
Proposal Submission Activity



External Research Funding (All Sources)

Year	Grants/Contracts		Gifts/Royalties	Gifts-In-Kind	Total
	Federal/Federal Subcontracts	State/Private			
1995-96	\$5,001,683	\$1,177,214	\$532,636	\$7,973,888	\$14,685,421
1996-97	\$3,298,777	\$882,296	\$2,669,786	\$17,197,733	\$24,048,592
1997-98	\$4,212,196	\$509,340	\$1,087,926	\$24,867,922	\$30,677,384
1998-99	\$4,400,195	\$1,334,014	\$13,687,951	\$0	\$19,422,160
1999	\$5,837,930	\$1,018,434	\$7,362,951	\$0	\$14,218,628
2000	\$5,058,375	\$1,910,470	\$1,218,057	\$0	\$8,186,902
2001	\$5,885,021	\$1,755,752	\$649,494	\$0	\$8,290,267
2002	\$6,826,798	\$2,149,658	\$13,808,841*	\$244,295	\$23,029,592
2003	\$5,731,605	\$1,909,861	\$1,876,600	\$0	\$9,518,066
2004	\$8,037,592	\$1,745,891	\$2,564,760	\$0	\$12,348,243

*Gift total does not include \$313 million PACE donation to College of Engineering and Technology



College of Engineering & Technology 2004 Awards

<u>PI</u>	<u>Co-PI</u>	<u>Sponsor</u>	<u>Title</u>	<u>Start Date</u>	<u>End Date</u>	<u>Type</u>	<u>Amount</u>	<u>N/C</u>
<i>Chemical Engineering</i>								
Bartholomew, Calvin		U of Wisconsin-Madison	Advanced Design of Cobalt Fischer-Tropsch Catalysts	09/30/03	09/29/05	2	\$84,845	C
Baxter, Larry		DOE	Improved Recovery Boiler Performance	04/15/02	06/15/05	1	\$200,000	C
Baxter, Larry		EPRI	Black Liquor Combustion	01/01/04	12/31/04	4	\$25,000	N
Baxter, Larry	w/ Fletcher, Tom	Forest Service	Fundamental Combustion Characteristics of Live Fuels	08/14/01	09/30/05	1	\$30,228	C
Baxter, Larry		U of U (DOE)	Pressurized Entrained Flow Kraft Black Liquor Gasification	09/30/04	09/29/05	2	\$33,750	N
Baxter, Larry		DOE	Improved Recovery Boiler Performance	04/15/02	06/14/06	1	\$200,000	C
Baxter, Larry		DOE	Improved Recovery Boiler Performance	04/15/02	06/14/06	1	\$100,000	C
Beckstead, Merrill		U of U (DOE)	C-SAFE	12/16/02	09/30/04	2	\$20,000	C
Beckstead, Merrill		U of Utah (DOE)	C-SAFE	12/16/02	09/30/04	2	\$47,500	C
Beckstead, Merrill		Software & Engineering Associates	Modeling of Propellant Ingredients	9-31-01	09/24/04	2	\$50,000	C
Beckstead, Merrill		US Air Force	Modeling the Effects of Energy on Solid Propellant	05/30/02	12/31/04	1	\$43,000	C
Fletcher, Thomas		Adapco	High Pressure Coal Pyrolysis	05/31/04	open	4	\$5,000	N
Fletcher, Tom		Forest Service	Fundamental Combustion Characteristics of Live Fuels	08/14/01	09/30/05	1	\$30,228	C
Fletcher, Tom		Renewable Energy Corp	Modeling of Solar Powered CO2 Converter	01/01/02	12/31/05	4	\$15,000	C
Fletcher, Tom		Sandia	Polymeric Foam Decomposition	06/01/03	08/31/05	2	\$31,324	C
Harb, John		NASA	Nanomaterials & Structures for Micropower Applications	01/15/02	01/14/05	1	\$40,000	C
Harb, John	w/ Wheeler, Dean	LBNL (DOE)	High Performance Electrodes for Li-Ion Batteries	08/23/04	08/31/05	2	\$66,711	N
Oscarson, John	w/ Rowley, Richard	DIPPR/ AIChE	Evaluated Design Database	01/01/04	12/31/04	4	\$47,500	C
Oscarson, John		Renewable Energy Corp	CO2 Separation from Gases Produced by Splitting Water	09/15/04	09/30/05	4	\$25,000	N
Oscarson, John	w/ Rowley, Richard	DIPPR/AICHE	Evaluate Process Design Database	08/01/97	12/31/04	4	\$47,500	C
Pitt, William		NIH	Controlled Drug Delivery in Colon Tumors via Ultrasound	05/01/04	04/30/05	1	\$246,000	N
Pitt, William		Fresenius Medical	Foreign Particulates and Flaws in Hollow Fibers	04/15/04	12/31/04	4	\$7,698	N
Pitt, William		Fresenius Medical	Foreign Particulates and Flaws in Hollow Fibers	05/18/04	Open	4	\$695	C
Rowley, Richard		DIPPR/ AIChE	Evaluated Design Database	01/01/04	12/31/04	4	\$47,500	C
Rowley, Richard		DIPPR/AICHE	Evaluate Process Design Database	08/01/97	12/31/04	4	\$47,500	C
Solen, Kenneth		U of Washington (NIH)	Ultralow Protein Absorption Hemocompatible Biomaterials	07/01/01	06/30/05	2	\$17,007	C
Terry, Ron	w/ Erekson, Tom	USU (NSF)	National Center for Engineering and Technology Education	09/15/04	08/30/05	2	\$79,851	N
Wheeler, Dean		LBNL (DOE)	High Performance Electrodes for Li-Ion Batteries	08/23/04	08/31/05	2	\$66,711	N
Wilding, Vincent	w/ Rowley, Richard	DIPPR/ AIChE	Evaluated Design Database	01/01/04	12/31/04	4	\$47,500	C
Wilding, Vincent	w/ Fletcher, Tom	Sandia	Polymeric Foam Decomposition	06/01/03	08/31/05	2	\$31,324	C
Wilding, Vincent	w/ Rowley, Richard	DIPPR/AICHE	Evaluate Process Design Database	08/01/97	12/31/04	4	\$47,500	C

College of Engineering & Technology 2004 Awards

<u>PI</u>	<u>Co-PI</u>	<u>Sponsor</u>	<u>Title</u>	<u>Start Date</u>	<u>End Date</u>	<u>Type</u>	<u>Amount</u>	<u>N/C</u>
<i>Civil and Environmental Engineering</i>								
Benzley, Steve		Sandia	Mesh Refinements Tasks	10/09/03	09/30/04	1	\$5,506	C
Benzley, Steven		Sandia National Labs	Mesh Refinements Tasks	10/09/03	09/30/05	2	\$149,988	C
Gerber, Travis		NSF	NEESR II: Dynamic Passive Pressure	10/01/04	09/30/07	1	\$194,218	N
Guthrie, Spencer		Portland Cement Co.	Evaluation of Cement Stabilization for Frost and Traffic	03/25/04	12/31/05	4	\$100,000	N
Guthrie, Spencer		Texas A&M	Implement Tube Suction Test in TxDOT Districts	06/20/04	08/31/04	4	\$5,000	N
Guthrie, Spencer		Holcim Inc	Evaluation of Transitional Cement - I-84	07/01/04	07/31/04	4	\$1,898	N
Guthrie, Spencer		UDOT	Preventive Deck Joint & Surface Treatment Strategies	10/01/03	02/28/05	3	\$10,000	C
Jensen, David		Airbus UK	Student Internship	08/01/04	12/31/04	4	\$4,640	N
Jones, Norm		Army WES	Hydrosystems Modeling	09/01/02	10/31/07	1	\$32,287	C
Jones, Norm		Army WES	Hydrosystems Modeling	09/01/02	10/31/07	1	\$38,667	C
Jones, Norm		Army WES	Hydrosystems Modeling	09/01/02	10/31/07	1	\$26,521	C
Jones, Norm		Army WES	Hydrosystems Modeling	09/01/02	10/31/07	1	\$7,667	C
Jones, Norman		Army WES	Hydrosystems Modeling, modification 10	09/01/02	10/31/07	1	\$25,000	C
Jones, Norman		Army WES	Hydrosystems Modeling, modification 11	09/01/02	10/31/07	1	\$76,667	C
Jones, Norman		Army WES	Development of XMDF Standard modification 6	09/01/02	10/31/07	1	\$48,153	C
Jones, Norman		Army WES	Development of XMDF Standard modification 7	09/01/02	10/31/07	1	\$36,000	C
Jones, Norman		Army WES	Hydrosystems Modeling	09/01/02	10/31/07	1	\$80,830	C
Jones, Norman		Army WES	Hydrosystems Modeling	09/01/02	10/31/07	1	\$15,767	C
Jones, Norman		Army WES	Hydrosystems Modeling	09/01/02	10/31/07	1	\$3,333	C
Jones, Norman		Army WES	Hydrosystems Modeling	09/01/02	10/31/07	1	\$9,164	C
Nelson, James	w/ Jones, Norm	Army WES	Hydrosystems Modeling, modification 10	09/01/02	10/31/07	1	\$25,000	C
Nelson, James	w/ Jones, Norm	Army WES	Hydrosystems Modeling, modification 11	09/01/02	10/31/07	1	\$76,667	C
Nelson, James	w/ Jones, Norm	Army WES	Development of XMDF Standard modification 6	09/01/02	10/31/07	1	\$48,153	C
Nelson, James	w/ Jones, Norm	Army WES	Development of XMDF Standard modification 7	09/01/02	10/31/07	1	\$12,000	C
Nelson, James	w/ Jones Norman	Army WES	Hydrosystems Modeling	09/01/02	10/31/07	1	\$80,830	C
Nelson, James	w/ Jones Norman	Army WES	Hydrosystems Modeling	09/01/02	10/31/07	1	\$15,767	C
Nelson, James	w/ Jones Norman	Army WES	Hydrosystems Modeling	09/01/02	10/31/07	1	\$3,333	C
Nelson, James	w/ Jones, Norm	Army WES	Hydrosystems Modeling	09/01/02	10/31/07	1	\$32,287	C
Nelson, James	w/ Jones, Norm	Army WES	Hydrosystems Modeling	09/01/02	10/31/07	1	\$38,667	C
Nelson, James	w/ Jones, Norm	Army WES	Hydrosystems Modeling	09/01/02	10/31/07	1	\$26,521	C
Nelson, James	w/ Jones, Norm	Army WES	Hydrosystems Modeling	09/01/02	10/31/07	1	\$7,667	C
Nelson, James	w/ Jones, Norman	Army WES	Hydrosystems Modeling	09/01/02	10/31/07	1	\$9,164	C
Nelson, James		BOR	Reservoir and River Geometry	08/12/03	04/15/05	1	\$7,000	C
Rollins, Kyle		NSF	Lateral Resistance of Deep Foundations in Sand	09/01/01	08/31/04	1	\$6,400	C
Rollins, Kyle		National Academy of Science	Liquefaction Mitigation Using Vertical Composite Drains	07/01/04	06/30/05	1	\$36,000	N
Rollins, Kyle	w/ Gerber, Travis	NSF	NEESR II: Dynamic Passive Pressure	10/01/04	09/30/07	1	\$194,218	N
Rollins, Kyle		UDOT	Evaluation of Downdrag Forces Resulting from Embankment Settling	08/01/04	02/01/06	3	\$45,327	N
Saito, Mitsuru		UDOT	Evaluating Work Zone Traveler Information Systems	09/01/03	04/30/05	3	\$67,200	N

College of Engineering & Technology 2004 Awards

<u>PI</u>	<u>Co-PI</u>	<u>Sponsor</u>	<u>Title</u>	<u>Start Date</u>	<u>End Date</u>	<u>Type</u>	<u>Amount</u>	<u>N/C</u>
Schultz, Grant		Utah DOT	Evaluation of Advanced Warning Signal Installation	07/01/04	07/01/06	3	\$30,000	N
Schultz, Grant		UDOT	Commercial Motor Vehicle Data Collection in Utah	10/01/04	03/31/06	3	\$31,805	N
Zundel, Alan	w/ Jones, Norm	Army WES	Hydrosystems Modeling, modification 10	09/01/02	10/31/07	1	\$25,000	C
Zundel, Alan	w/ Jones, Norm	Army WES	Hydrosystems Modeling, modification 11	09/01/02	10/31/07	1	\$76,667	C
Zundel, Alan	w/ Jones, Norm	Army WES	Development of XMDF Standard modification 6	09/01/02	10/31/07	1	\$48,153	C
Zundel, Alan	w/ Jones, Norm	Army WES	Development of XMDF Standard modification 7	09/01/02	10/31/07	1	\$12,000	C
Zundel, Alan	w/ Jones Norman	Army WES	Hydrosystems Modeling	09/01/02	10/31/07	1	\$80,830	C
Zundel, Alan	w/ Jones Norman	Army WES	Hydrosystems Modeling	09/01/02	10/31/07	1	\$15,767	C
Zundel, Alan	w/ Jones Norman	Army WES	Hydrosystems Modeling	09/01/02	10/31/07	1	\$3,333	C
Zundel, Alan	w/ Jones, Norm	Army WES	Hydrosystems Modeling	09/01/02	10/31/07	1	\$32,287	C
Zundel, Alan		UDOT	Oxbow Restoration at Capatal Reef National Park	05/01/04	12/31/05	3	\$24,778	N
Zundel, Alan	w/ Jones, Norm	Army WES	Hydrosystems Modeling	09/01/02	10/31/07	1	\$38,667	C
Zundel, Alan	w/ Jones, Norm	Army WES	Hydrosystems Modeling	09/01/02	10/31/07	1	\$26,521	C
Zundel, Alan	w/ Jones, Norm	Army WES	Hydrosystems Modeling	09/01/02	10/31/07	1	\$7,667	C
Zundel, Alan	w/ Jones, Norman	Army WES	Hydrosystems Modeling	09/01/02	10/31/07	1	\$9,164	C
<i>Electrical and Computer Engineering</i>								
Beard, Randal		ISL (AFOSR)	Phase II Real Time Trajectory Generation	04/15/04	04/14/06	2	\$149,900	N
Beard, Randall		JPL (NASA)	Biologically Inspired Navagation & Control of Small Unmanned Air Vehicles	03/05/04	09/30/04	2	\$33,034	N
Beard, Randy		AFRL	Navigation and Control Technologies	08/13/03	09/30/04	1	\$11,869	C
Beard, Randy	w/ McLain, Tim	AFOSR	Unmanned Air Vehicles	04/01/04	03/31/05	1	\$59,498	N
Beard, Randy	w/ McLain, Tim	Utah Centers of Excellence	Unmanned Air Vehicle Center of Excellence	07/01/04	06/30/05	3	\$55,000	N
Beard, Randy		NASA	Automated Landing of Unmanned Air Vehicles	04/01/03	03/31/06	1	\$19,674	C
Beard, Randy		Scientific Systems (NASA)	Coordinated Control of Multi-Agent Systems	01/16/04	01/17/05	2	\$24,587	N
Beard, Randy	w/ Swindlehurst, Lee	NSF	Distributed Communications & Control for Multiple Miniature Unmammned Air Vehicles	09/01/04	08/31/05	1	\$65,634	N
Hutchings, Brad	w/ Nelson, Brent	Xilinx	Pro Media Processor System Status and Verification	03/01/04	03/01/05	4	\$40,000	N
Hutchings, Brad		Sandia Natl. Lab	FBGA Development Board Analysis	01/27/03	01/31/05	1	\$36,000	C
Jeffs, Brian	w/Swindlehurst, L	NSF	Multi-antenna Networks in a Mutual Interference Environment	07/15/03	06/30/05	1	\$39,055	C
Jeffs, Brian		NSF	RFI Mitigation for Radio Astronomy w/ Emphasis on Array Feeds	09/15/04	08/31/05	1	\$66,792	N
Jensen, Michael	w/Swindlehurst, L	NSF	Multi-antenna Networks in a Mutual Interference Environment	07/15/03	06/30/05	1	\$39,055	C
Jensen, Michael		Utah Centers of Excellence	Advanced Wireless Communications Technology	07/01/04	06/30/05	3	\$36,667	N
Jensen, Michael	w/ Swindlehurst, Lee	UCSD (ARO)	Directional Routing & Schedling for Secure Mobile Networks	06/01/04	12/31/04	2	\$27,415	N
Jensen, Michael	w/ Swindlehurst, Lee	NSF	Distributed Communications & Control for Multiple Miniature Unmammned Air Vehicles	09/01/04	08/31/05	1	\$65,634	N
Jensen, Michael	w/ Jeffs, Brian	NSF	RFI Mitigation for Radio Astronomy w/ Emphasis on Array Feeds	09/15/04	08/31/05	1	\$66,792	N
Jensen, Michael		SRJ Technologies (Army)	Mobile MIMO Measurement Campaign	12/01/04	11/30/05	2	\$32,958	N
Lee, D J	w/ Beard, Randall	JPL (NASA)	Biologically Inspired Navagation & Control of Small Unmanned Air Vehicles	03/05/04	09/30/04	2	\$33,034	N

College of Engineering & Technology 2004 Awards

<u>PI</u>	<u>Co-PI</u>	<u>Sponsor</u>	<u>Title</u>	<u>Start Date</u>	<u>End Date</u>	<u>Type</u>	<u>Amount</u>	<u>N/C</u>
Lee, D J		Natl. Library of Medicine	Shape Analysis Methods for Content-based Spine X-ray Image Retrieval	09/15/04	09/14/05	1	\$76,268	N
Lee, DJ		Agris-Schoen (USDA)	An Automated Fish Migration Pattern Monitoring System	10/20/04	10/19/06	2	\$60,068	N
Long, David		JPL (NASA)	HYDROS Science Team: Atenna Studies	04/14/04	11/30/04	2	\$20,000	N
Long, David		NASA	Scatterometer Climate record Pathfinder - REASoN_CAN	04/01/04	03/31/09	1	\$115,000	N
Long, David		Oregon State (NASA)	Near Surface wind Modeling and Retrieval for SeaWinds	09/15/95	12/31/05	2	\$255,001	C
Long, David		NOAA	High Resolution Ocean Surface Wind Vectors	07/01/03	06/30/05	1	\$68,657	C
McLain, Tim	w/ Beard, Randal	ISL (AFOSR)	Phase II Real Time Trajectory Generation	04/15/04	04/14/06	2	\$149,900	N
McLain, Timothy	w/ Beard, Randy	AFRL	Navigation and Control Technologies	08/13/03	09/30/04	1	\$11,869	C
Nelson, Brent		Xilinx	Pro Media Processor System Status and Verification	03/01/04	03/01/05	4	\$40,000	N
Oliphant, Travis		Cornell (NASA)	Astrostatistical Tools in Python	05/01/02	04/30/05	2	\$11,248	C
Petrie, Craig		Intel Corp.	Power Efficient High Resolution Analog to Digital Converters	05/30/02	open	4	\$56,000	C
Rice, Michael	w/Jensen, Michael	Utah Centers of Excellence	Advanced Wireless Communications Technology	07/01/04	06/30/05	3	\$36,667	N
Rice, Michael		Edwards AFB	SHF Channel Modeling for Aeronautical Telemetry	05/01/02	04/30/05	1	\$11,070	C
Schultz, Stephen		Edwards AFB	Bragg Grating Sensors Based on D-fibers	04/07/04	04/06/05	1	\$116,274	N
Selfridge, Richard	w/ Schultz, Stephen	Edwards AFB	Bragg Grating Sensors Based on D-fibers	04/07/04	04/06/05	1	\$47,266	N
Swindlehurst, Lee		NSF	Multi-antenna Networks in a Mutual Interference Environment	07/15/03	06/30/05	1	\$39,055	C
Swindlehurst, Lee	w/Jensen, Michael	Utah Centers of Excellence	Advanced Wireless Communications Technology	07/01/04	06/30/05	3	\$36,667	N
Swindlehurst, Lee		UCSD (ARO)	Directional Routing & Schedding for Secure Mobile Networks	06/01/04	12/31/04	2	\$27,415	N
Swindlehurst, Lee		NSF	Distributed Communications & Control for Multiple Miniature Unmanned Air Vehicles	09/01/04	08/31/05	1	\$65,634	N
Warnick, Karl	w/ Jeffs, Brian	NSF	RFI Mitigation for Radio Astronomy w/ Emphasis on Array Feeds	09/15/04	08/31/05	1	\$66,792	N
Wirthlin, Michael		Los Alamos Natl. Labs	Improving FPGA Reliability	02/10/04	12/31/04	1	\$47,266	N
Wirthlin, Michael		USC (NASA)	Computer Aided Design Infrastructure for FPGA Design Hardening	06/01/03	05/14/06	2	\$25,000	C
<i>Mechanical Engineering</i>								
Adams, Brent	w/ Nelson, Tracy	ONR	High Integrity WeldmentsVia the Friction Stir Process	05/01/03	04/30/05	1	\$13,639	C
Adams, Brent		ARO	Microstructure Sensitive Design	06/01/01	10/31/04	1	\$41,667	C
Adams, Brent		Carnegie Mellon (NSF)	MSREC Project	09/01/00	08/31/05	2	\$76,458	C
Adams, Brent		Army Research Office	Microstructure Sensitive Design	07/26/04	11/25/04	1	\$34,700	N
Blotter, Jon	w/ Sommerfeldt, Scott	Axiom EduTech	Sound Quality Analysis	02/18/04	12/31/04	4	\$14,877	N
Blotter, Jonathan	w/Sommerfeldt, Scott	NSF	Development of Acoustic Energy Concepts	06/15/04	05/31/05	1	\$32,780	N
Blotter, Jonathan	w/ Leishman, Tim	Larson Davis Inc. (Sandia)	Windscreen for Unattended Acoustic Ground Sensors	05/14/04	12/20/04	2	\$14,940	N
Bons, Jeff		AFOSR	Integrated Flow Control Devices	01/01/04	12/31/05	1	\$59,126	C
Bons, Jeffrey		Clemson (DOE)	Turbine Surface Degradation	06/01/02	05/31/05	2	\$191,570	C
Bowman, Jerry		Procerus (Air Force)	Perceptor Tactical UAV Research Intitative	06/01/04	05/31/05	2	\$18,000	N

College of Engineering & Technology 2004 Awards

<u>PI</u>	<u>Co-PI</u>	<u>Sponsor</u>	<u>Title</u>	<u>Start Date</u>	<u>End Date</u>	<u>Type</u>	<u>Amount</u>	<u>N/C</u>
Howell, Larry	w/ McLain, Tim	NSF	Dynamic Modeling &Control for Microactuators & Microswitches	08/01/04	07/31/07	1	\$134,985	N
Howell, Larry	w/ Magleby, Spencer	Utah Centers of Excellence	Compliant Mechanisms	07/01/04	06/30/05	3	\$18,667	C
Howell, Larry	w/ McLain, Timothy	NSF	Integrated Piezoresistive Sensing for Compliance Mechanisms	07/01/04	06/30/07	1	\$3,000	C
Jensen, Greg		Tenneco	Muffler Design Tool	01/01/04	05/01/04	4	\$13,000	N
Jensen, Greg		Pratt & Whitney	Tasks 14 Engine loads and Dynamics Automated Modeling	01/29/04	open	4	\$14,000	N
Jensen, Greg		Pratt & Whitney	Tasks 15 Airfoil Pre and Post Processing Tools	01/29/04	open	4	\$14,000	N
Jensen, Greg		Pratt & Whitney	CANMC Concept Optimization Tool - Task 16	02/19/04	open	4	\$35,000	N
Jensen, Greg		Pratt & Whitney	Flow Path Design Tool - Task 17	02/19/04	open	4	\$196,000	N
Jensen, Greg		Pratt & Whitney	Electronic Enterprise Engineering - Task 18	02/19/04	open	4	\$75,000	N
Jensen, Greg		Pratt & Whitney	CANMC Concept Optimization Tool - Task 16	02/19/04	open	4	\$25,000	N
Jensen, Greg		Pratt & Whitney	Parametric Tool Design Task 9	02/14/03	12/31/04	4	\$5,000	C
Jensen, Greg		Pratt & Whitney	Parametric Tool Design Task 14	01/25/04	open	4	\$7,000	C
Jensen, Greg		Pratt & Whitney	Parametric Tool Design Task 15	01/29/04	open	4	\$14,000	C
Jensen, Greg		Pratt & Whitney	Parametric Tool Design Task 10	09/30/03	open	4	\$50,000	C
Jensen, Greg	w/ Red, Ed	Utah Centers of Excellence	Development of Direct Machining & Control	07/01/04	06/30/05	3	\$37,500	C
Magleby, Spencer		Utah Centers of Excellence	Compliant Mechanisms	07/01/04	06/30/05	3	\$18,667	C
Magleby, Spencer		Taylor Made Golf	ABAQUS Software	12/13/04	12/17/04	4	\$19,750	N
McLain, Tim		AFOSR	Unmanned Air Vehicles	04/01/04	03/31/05	1	\$59,498	N
McLain, Tim		NSF	Dynamic Modeling &Control for Microactuators & Microswitches	08/01/04	07/31/07	1	\$134,985	N
McLain, Tim		Utah Centers of Excellence	Unmanned Air Vehicle Center of Excellence	07/01/04	06/30/05	3	\$55,000	N
McLain, Tim		NASA	Automated Landing of Unmanned Air Vehicles	04/01/03	03/31/06	1	\$19,674	C
McLain, Tim	w/Beard, Randy	Scientific Systems (NASA)	Coordinated Control of Multi-Agent Systems	01/16/04	01/17/05	2	\$24,587	N
McLain, Tim	w/ Swindlehurst, Lee	NSF	Distributed Communications & Control for Multiple Miniature Unmanned Air Vehicles	09/01/04	08/31/05	1	\$65,634	N
McLain, Timothy		NASA	Automated Landing of Unmanned Air Vehicles	04/01/03	03/31/06	1	\$39,200	C
McLain, Timothy		NSF	Integrated Piezoresistive Sensing for Compliance Mechanisms	07/01/04	06/30/07	1	\$3,000	C
Nelson, Tracy		Rockwell Scientific	Friction Stir Welding	07/26/02	09/30/04	2	\$135,300	C
Nelson, Tracy		ONR	High Integrity WeldmentsVia the Friction Stir Process	05/01/03	04/30/05	1	\$383,842	C
Nelson, Tracy		NSF	Friction Stir Processing Cooperative Research Center	09/01/04	08/31/05	1	\$25,000	N
Nelson, Tracy		Mitsubishi	Friction Stir Processing Industry Coop Research Center	09/01/04	08/31/09	4	\$8,750	N
Nelson, Tracy		JFE Steel Corp.	Friction Stir Processing Industry Coop Research Center	09/01/04	08/31/09	4	\$8,750	N
Nelson, Tracy		Toshiba Corp.	Friction Stir Processing Industry Coop Research Center	09/01/04	08/31/09	4	\$8,750	N
Nelson, Tracy		Hitachi LTD	Friction Stir Processing Industry Coop Research Center	09/01/04	08/31/09	4	\$35,000	N
Pugh, Len		Bechtel Idaho (DOE)	Airframe Sensor Modification	07/26/04	09/01/04	2	\$9,375	N

College of Engineering & Technology 2004 Awards

<u>PI</u>	<u>Co-PI</u>	<u>Sponsor</u>	<u>Title</u>	<u>Start Date</u>	<u>End Date</u>	<u>Type</u>	<u>Amount</u>	<u>N/C</u>
Pugh, Len		SPAWAR	Study for Ocean Bottom Attachments	02/05/04	09/01/04	1	\$18,000	N
Red, Ed		Utah Centers of Excellence	Development of Direct Machining & Control	07/01/04	06/30/05	3	\$37,500	C
Sorensen, Carl	w/ Nelson, Tracy	ONR	High Integrity WeldmentsVia the Friction Stir Process	05/01/03	04/30/05	1	\$383,842	C
Sorensen, Carl	w/ Nelson, Tracy	NSF	Friction Stir Processing Cooperative Research Center	09/01/04	08/31/05	1	\$25,000	N
Sorenson, Carl	w/ Nelson, Tracy	Rockwell Scientific	Friction Stir Welding	07/26/02	09/30/04	2	\$135,300	C
Thomson, Scott		Tri-Mast International	Analysis and Development of a Throat Microphone	11/08/04	08/31/05	4	\$9,175	N
Todd, Robert		Merit Medical Systems	Rotator Assembly, Failure Analysis	09/15/03	09/30/04	1	\$13,639	C
Todd, Robert	w/ Magleby, Spencer	Utah Centers of Excellence	Compliant Mechanisms	07/01/04	06/30/05	3	\$18,667	C
Todd, Robert		Merit Medical Inc.	Rotator Assembly, Failure analysis	01/01/04	12/31/04	4	\$2,500	N
Tree, Dale	w/ Baxter, Larry	U of U (DOE)	Pressurized Entrained Flow Kraft Black Liquor Gasification	09/30/04	09/29/05	2	\$33,750	N
Webb, Brent		Forest Service	Radiation Modeling for Wildfires	08/08/03	12/30/06	1	\$114,010	N
Webb, Brent	w/ Nelson, Tracy	ONR	High Integrity WeldmentsVia the Friction Stir Process	05/01/03	04/30/05	1	\$383,842	C
School of Technology								
Lunt, Barry	w/ Pugh, Len	Bechtel Idaho (DOE)	Airframe Sensor Modification	07/26/04	09/01/04	2	\$9,375	N
Erekson, Thomas		USU (NSF)	National Center for Engineering and Technology Education	09/15/04	08/30/05	2	\$79,851	N

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

N/C: N=New; C=Continuing

Department Totals

Chemical Engineering	\$1,781,871
Civil & Environmental Engineering	\$2,066,141
Electrical & Computer Engineering	\$2,285,708
Mechanical Engineering	\$3,369,891
School of Technology	\$89,226

College Total:

\$9,592,837

Engineering & Technology

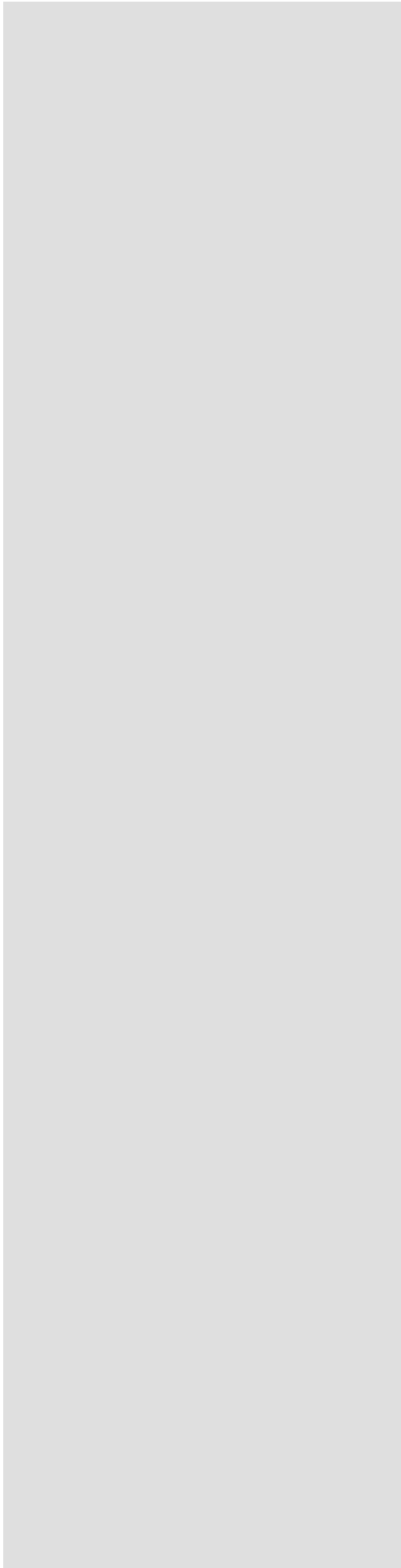
Source Breakdown of Grants and Contracts

<u>Sponsor</u>	<u>Number Awarded</u>	<u>Total Amount</u>
Federal		
AFOSR	2	\$178,121
AFRL	1	\$123,737
Army Research Office	1	\$34,700
Army WES	12	\$1,128,163
ARO	1	\$41,667
BOR	1	\$7,000
DOE	3	\$500,000
Edwards AFB	2	\$127,344
Forest Service	2	\$174,466
Los Alamos Natl. Lab	1	\$94,532
Merit Medical Systems	1	\$27,277
NASA	4	\$313,548
National Academy of Science	1	\$36,000
Natl. Library of Medicine	1	\$76,268
NIH	1	\$246,000
NOAA	1	\$68,657
NSF	8	\$1,303,879
ONR	1	\$1,151,526
Sandia	2	\$41,506
SPAWAR	1	\$18,000
US Air Force	1	\$43,000
Total	48	\$5,735,391
Subcontracts		
Agris-Schoen (USDA)	1	\$120,135
Bechtel ID (DOE)	1	\$18,750
Carnegie Mellon (NSF)	1	\$76,458
Clemson (DOE)	1	\$191,570
Cornell (NASA)	1	\$11,248
ISL (AFOSR)	1	\$299,799
JPL (NASA)	2	\$86,068
LBNL (DOE)	1	\$133,421
Oregon State (NASA)	1	\$255,001
Procerus (Air Force)	1	\$18,000
Rockwell Scientific	1	\$270,599
Sandia Natl. Lab	2	\$212,636
Scientific Systems (NASA)	1	\$49,174
Software & Engineering Associates	1	\$50,000
SRJ Technologies (Army)	1	\$32,958
U of Utah (DOE)	3	\$135,000

Engineering & Technology

Source Breakdown of Grants and Contracts

Sponsor	Number Awarded	Total Amount
U of Washington (NIH)	1	\$17,007
U of Wisc.-Madison	1	\$84,845
UCSD (ARO)	1	\$54,830
USC (NASA)	1	\$25,000
USU (NSF)	1	\$159,702
Total	25	\$2,302,201
State		
UDOT	6	\$209,110
Utah Centers of Excellence	4	\$351,000
Total	10	\$560,110
Private		
Adapco	1	\$5,000
Airbus UK	1	\$4,640
DIPPR/AICHe	2	\$285,000
EPRI	1	\$25,000
Fresenius Medical	2	\$8,393
Hitachi LTD	1	\$35,000
Holcim Inc.	1	\$1,898
Intel Corp.	1	\$56,000
JFE Steel Corp.	1	\$8,750
Merit Medical Inc.	1	\$2,500
Mitsubishi	1	\$8,750
Portland Cement Co.	1	\$100,000
Pratt & Whitney	10	\$435,000
Renewable Energy Corp.	2	\$65,000
Taylor Made Golf	1	\$19,750
Tenneco	1	\$13,000
Texas A&M	1	\$5,000
Toshiba Corp.	1	\$8,750
Tri-Mast International	1	\$18,350
Xilinx	1	\$80,000
Total	32	\$1,185,781

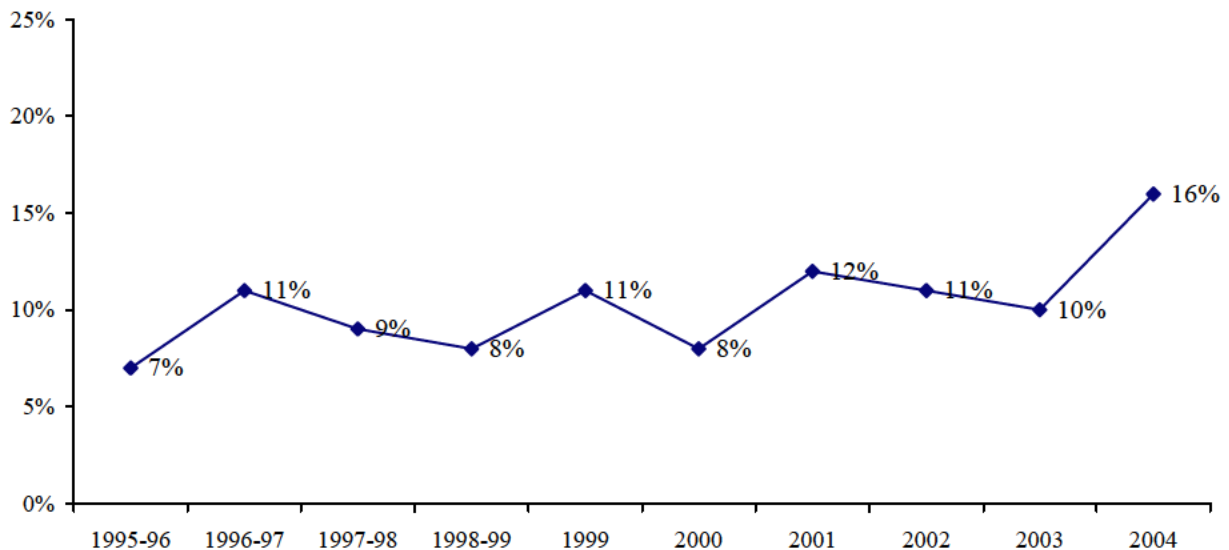


College of
Family,
Home &
Social
Sciences

Summary of Sponsored Research (Grants & Contracts)

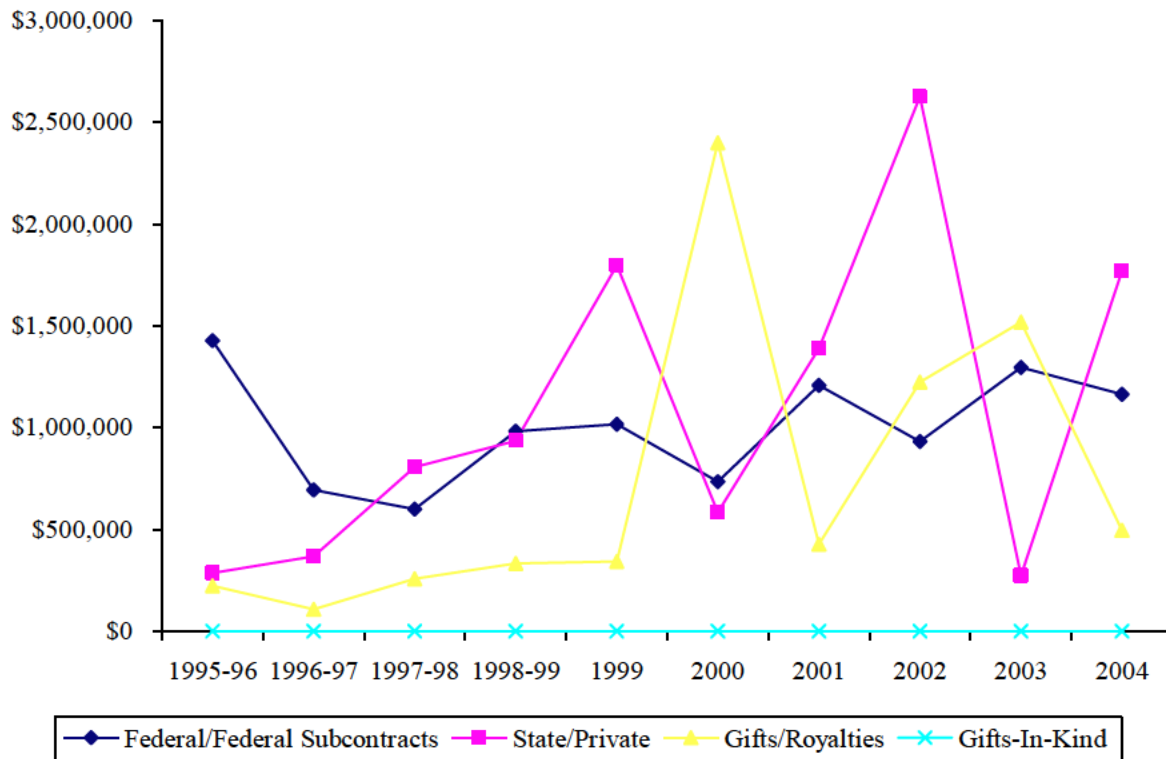
Department	# of Faculty	# of Faculty Submitting	# of Proposals Submitted	# of Awards	Dollars Awarded
Anthropology	13	2	1	0	\$105,000
Child & Family Studies Laboratories	3	3	1	0	\$0
Economics	23	2	1	1	\$15,000
Geography	11	5	7	1	17,661
History	36	1	1	1	\$90,964
Joseph Fielding Smith Institute	6	2	1	1	\$119,558
Museum of Peoples & Cultures	4	1	5	1	\$4,000
Office of Public Archaeology	3	1	9	16	\$395,842
Political Science	30	11	10	8	\$1,413,216
Psychology	32	9	13	8	\$612,966
School of Family Life	39	1	2	2	\$126,868
Social Work	12	0	0	0	\$0
Sociology	21	1	1	1	\$32,906
Women's Research Institute	3	0	0	0	\$0
<i>TOTALS</i>	236	39	52	40	\$2,933,981

Proposal Submission Activity



External Research Funding (All Sources)

Year	Grants/Contracts		Gifts/Royalties	Gifts-In-Kind	Total
	Federal/Federal Subcontracts	State/Private			
1995-96	\$1,429,036	\$285,116	\$222,337	\$0	\$1,936,489
1996-97	\$694,627	\$367,881	\$105,455	\$0	\$1,167,963
1997-98	\$599,999	\$806,018	\$257,953	\$0	\$1,663,970
1998-99	\$982,698	\$935,497	\$331,166	\$0	\$2,249,361
1999	\$1,016,236	\$1,797,394	\$340,803	\$0	\$3,154,433
2000	\$733,017	\$582,613	\$2,400,367	\$0	\$3,715,997
2001	\$1,206,835	\$1,390,664	\$472,945	\$0	\$3,070,444
2002	\$932,566	\$2,627,620	\$1,224,696	\$0	\$4,784,882
2003	\$1,296,291	\$271,593	\$1,520,336	\$0	\$3,088,220
2004	\$1,164,878	\$1,769,103	\$497,025	\$0	\$3,431,006



Family, Home & Social Sciences 2004 Awards

<u>PI</u>	<u>Co-PI</u>	<u>Sponsor</u>	<u>Title</u>	<u>Start Date</u>	<u>End Date</u>	<u>Type</u>	<u>Amount</u>	<u>N/C</u>
<i>Anthropology</i>								
Hawkins, John		NSF_REU	Culture Change and Continuity in Nahuala	04/01/04	03/31/05	1	\$105,000	N
<i>Economics</i>								
Ransom, Michael		TIAA-CREFF	Pensions and Variation in Retirement	01/01/04	open	4	\$15,000	N
<i>Geography</i>								
Hardin, Perry		Montana State University-CIPM	Invasive Plant Detection....	07/01/04	06/30/05	3	\$17,661	N
<i>History</i>								
Grandstaff, Mark		Air War College	Associate Professor Assignment	07/01/03	06/30/04	1	\$90,964	N
<i>Joseph Fielding Smith Institute</i>								
Underwood, Grant	Richard Bushman	NEH	Joseph Smith and the Beginnings of Mormonism	10/01/04	09/30/05	1	\$119,558	N
<i>Museum of Peoples and Cultures</i>								
Marti Allen		USDI	Curation Fees	07/01/04	06/30/05	1	\$4,000	N
<i>Office of Public Archeology</i>								
Allen, Marti		UT ST Off of Museum Services	UMOS Celebrate Exhibition	07/01/04	06/30/05	3	\$6,000	N
Talbot, Richard		UT DOGM	Mammoth	10/08/04	03/31/05	3	\$24,610	N
Talbot, Richard		UT DOGM	Gold Hill	10/15/04	05/31/05	3	\$45,085	N
Talbot, Richard		PacifiCorp	Sigurd	11/01/03	03/15/04	4	\$29,500	N
Talbot, Richard		PacifiCorp	Circleville Excavations	08/01/03	08/27/04	4	\$25,000	N
Talbot, Richard		PacifiCorp	San Rafael	03/23/04	06/01/04	4	\$45,000	N
Talbot, Richard		Qwest Communications	Qwest State Rte II Survey	03/29/04	08/31/04	4	\$6,500	N
Talbot, Richard		St. George City	Cottonwood Springs Pipeline	02/09/04	06/30/04	3	\$9,900	N
Talbot, Richard		PacifiCorp	Sigurd, Emery Glen Canyon Powerlines	04/12/04	06/30/04	4	\$108,000	N
Talbot, Richard		UTA-Trax	Wasatch Front Regional Council/UTA-Trax	03/25/04	07/25/04	3	\$5,000	N
Talbot, Richard		Garkane Power	Garkane Boulder to Henryville Powerline	05/26/04	12/31/04	3	\$25,000	N
Talbot, Richard		Washington County	WCWCD Inventory	06/07/04	06/30/04	3	\$6,000	N
Talbot, Richard		Snow Canyon Parkway	Inventory	06/04/04	08/30/04	4	\$1,000	C
Talbot, Richard		Creamer & Noble Engrs	Provo City Airport	06/22/04	06/30/05	4	\$17,400	N
Talbot, Richard		State of Utah	Cherry Creek	05/04/04	07/30/04	3	24,847	N
Talbot, Richard		Earth Touch	Joes Valley	09/13/04	05/31/05	4	\$17,000	N
<i>Political Science</i>								
Hudson, Valerie		NSF	Computational Methods for the Analysis of Political Event Data	02/01/05	09/30/06	1	\$126,033	N
Jacoby, Wade		DoED	Western Europe NRC and FLAS	08/15/03	08/14/05	1	\$230,000	C
Jacoby, Wade		Dept of Ed	FLAS	08/15/04	08/14/05	1	\$168,000	N
Magleby, David		Pew Foundation	Campaign money and the quality of communications	01/01/04	12/31/05	4	\$600,000	C
Magleby, David		Schumann Center	Impact of Air & Ground War on Voters	03/01/04	03/31/05	4	\$110,000	N
Magleby, David		Joyce Foundation	Financing the 2004 Election	07/30/04	08/31/05	4	\$30,000	N
Magleby, David		Smith Richardson Foundation	The Impact of Air and Ground War Campaigns on Voters	09/01/04	08/30/05	4	\$50,000	N
Nielson, Daniel		NSF	Analyzing Development Financing	02/01/05	01/31/08	1	\$99,183	N
<i>Psychology</i>								
Bigler, Erin		Univ of Utah	Neuroimaging of Autism	06/01/04	05/31/05	1	57,166	C
Bigler, Erin		Various	Neuroimaging	09/02/04	08/31/05	4	\$3,500	C
Carpenter, Bruce		UT Dept of Corrections	Foersnsic mental Health	07/01/02	06/30/04	3	\$36,600	N

Family, Home & Social Sciences 2004 Awards

<u>PI</u>	<u>Co-PI</u>	<u>Sponsor</u>	<u>Title</u>	<u>Start Date</u>	<u>End Date</u>	<u>Type</u>	<u>Amount</u>	<u>N/C</u>
Carpenter, Bruce		UT Dept of Corrections	Sex Offender Treatment	07/01/02	06/30/04	3	\$59,300	N
Carpenter, Bruce		UT Dept of Corrections	Sex Offender Treatment Program	10/01/04	09/30/06	3	\$118,000	N
Carpenter, Bruce		UT Dept of Corrections	Mental Health Evaluations	10/01/04	09/30/06	3	\$73,200	N
Hedges, Dawson		USDA	Central Nervous System, Aging and Behavior	12/01/04	11/30/08	1		N
Hopkins, Ramona		Univ of Pittsburgh	Prolonged Outcomes after Nitric Oxide	12/01/03	11/30/04	2	\$5,200	N
Steffan, Patrick		American Heart Assn.	Cultural Change and Cardiovascular Disease Risk...	07/01/04	06/30/05	4	260,000	N
School of Family Life								
Hawkins, Alan		DHHS	Research Analyst	08/18/03	06/18/04	1	\$105,312	N
Hawkins, Alan		NCFR	Healthy Marriage Resource Center	09/01/04	08/31/09	2	\$21,556	C
Sociology								
Heaton, Tim	w/ Hawkins, Alan	NCFR	Healthy Marriage Resource Center	09/01/04	08/31/09	2	\$21,556	C
Ward, Carol		Chief Dull Knife College	TCUP Evaluation	09/25/04	08/31/05	2	\$11,350	C

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

N/C: N=New; C=Continuing

Department Totals

Anthropology	\$105,000
Economics	\$15,000
Geography	\$17,661
History	\$90,964
Joseph Fielding Smith Institute	\$119,558
Marriage & Family Therapy	\$0
Marriage, Family & Human Dev.	\$0
Museum of Peoples & Cultures	\$4,000
Office of Public Archaeology	\$395,842
Political Science	\$1,413,216
Psychology	\$612,966
School of Family Life	\$126,868
Social Work	\$0
Sociology	\$32,906
College Total:	\$2,933,981

Family, Home & Social Sciences

Source Breakdown of Grants and Contracts

Sponsor	Number Awarded	Total Amount
Federal		
Air Wave College	1	\$90,964
Dept of Education	2	\$398,000
DHHS	1	\$105,312
NEH	1	\$119,558
NSF	2	\$225,216
NSF_REU	1	\$105,000
U of U	1	\$57,166
USDI	1	\$4,000
Total	10	\$1,105,216
Subcontracts		
Chief Dull Knife College	1	\$11,350
NCFR	1	\$43,112
Univ. of Pittsburgh	1	\$5,200
Total	3	\$59,662
State		
Garkane Power	1	\$25,000
Montana State University-CIPM	1	\$17,661
St. George City	1	\$9,900
State of Utah	1	\$24,847
UT Dept. of Corrections	4	\$287,100
UT DOGM	2	\$69,695
UT ST Off of Museum Services	1	\$6,000
UTA-Trax	1	\$5,000
Washington County	1	\$6,000
Total	13	\$451,203
Private		
American Heart Association	1	\$260,000
Creamer & Noble	1	\$17,400
Earth Touch	1	\$17,400
Joyce Foundation	1	\$30,000
PacifiCorp	4	\$207,500
Pew Foundation	1	\$600,000
Qwest Communications	1	\$6,500
Schumann Center	1	\$110,000
Smith Richardson Foundation	1	\$50,000
Snow Canyon Parkway Inventory	1	\$1,000

TIAA-CREFF	1	\$15,000
Various Sources	1	\$3,500
<i>Total</i>	15	\$1,317,900

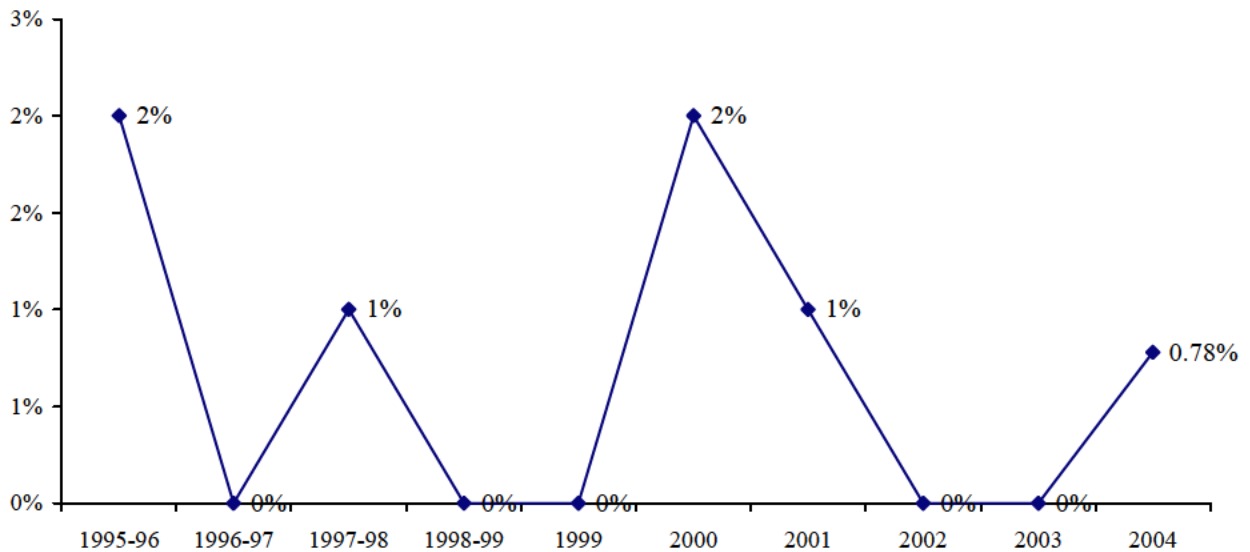


College of Fine
Arts &
Communications

Summary of Sponsored Research (Grants & Contracts)

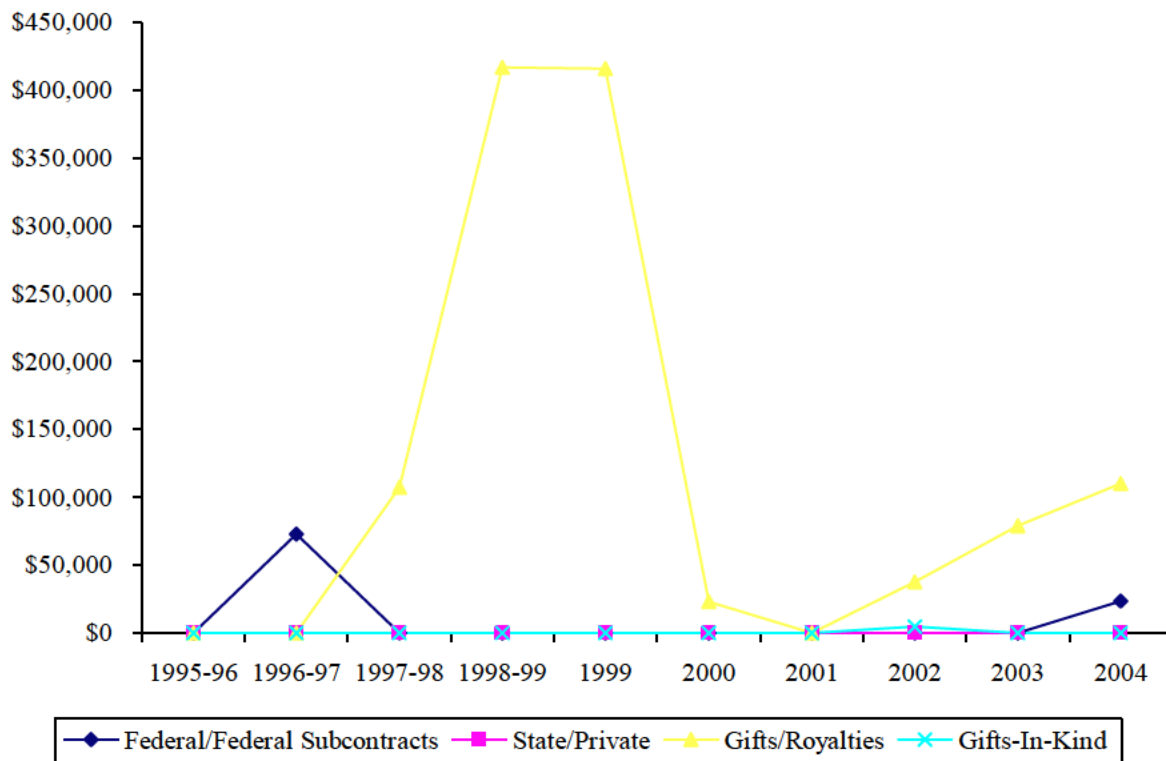
Department	# of Faculty	# of Faculty Submitting	# of Proposals Submitted	# of Awards	Dollars Awarded
Communication	24	0	0	1	\$23,680
Museum of Art	0	0	0	0	\$0
Music	50	1	1	0	\$0
Theatre & Media Arts	22	0	0	0	\$0
Visual Arts	32	0	0	0	\$0
<i>TOTALS</i>	128	1	1	1	\$23,680

Proposal Submission Activity



External Research Funding (All Sources)

Year	Grants/Contracts		Gifts/Royalties	Gifts-In-Kind	Total
	Federal/Federal Subcontracts	State/Private			
1995-96	\$0	\$0	\$0	\$0	\$0
1996-97	\$73,000	\$0	\$0	\$0	\$73,000
1997-98	\$0	\$0	\$107,111	\$0	\$107,111
1998-99	\$0	\$0	\$417,146	\$0	\$417,146
1999	\$0	\$0	\$416,146	\$0	\$416,146
2000	\$0	\$0	\$22,900	\$0	\$22,900
2001	\$0	\$0	\$0	\$0	\$0
2002	\$0	\$0	\$37,716	\$4,700	\$42,416
2003	\$0	\$0	\$78,926	\$0	\$78,926
2004	\$23,680	\$0	\$110,023	\$0	\$133,703



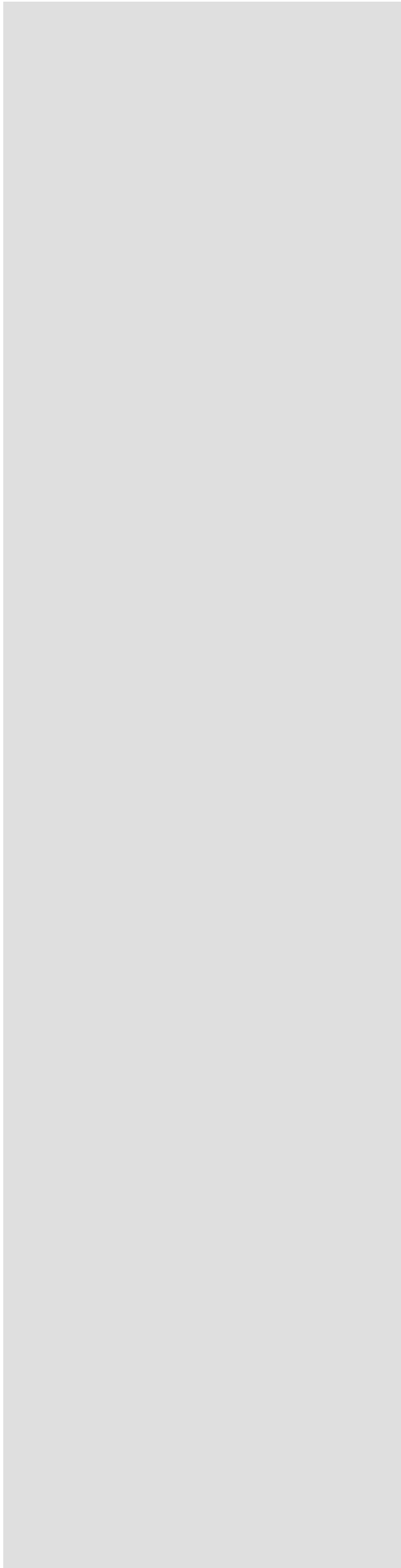
Fine Arts and Communications 2004 Awards

PI	Co-PI	Sponsor	Title	Start Date	End Date	Type	Amount	N/C
<i>Communications</i>								
Wilson, Laurie		Utah Commission on Volunteers	Americorps	07/01/04	06/30/05	2	\$7,893	N

Type: 1=Federal; 2=Federal Subcontract; 3=State; 4=Private N/C: N=New; C=Continuing

Fine Arts and Communications Source Breakdown of Grants and Contracts

<u>Sponsor</u>	<u>Number Awarded</u>	<u>Total Amount</u>
Federal		
None		
<i>Total</i>	<hr/>	
Subcontracts		
Utah Commission on Volunteers	1	\$23,680
<i>Total</i>	1	\$23,680
State		
None		
<i>Total</i>	<hr/>	
Private		
None		
<i>Total</i>	<hr/>	

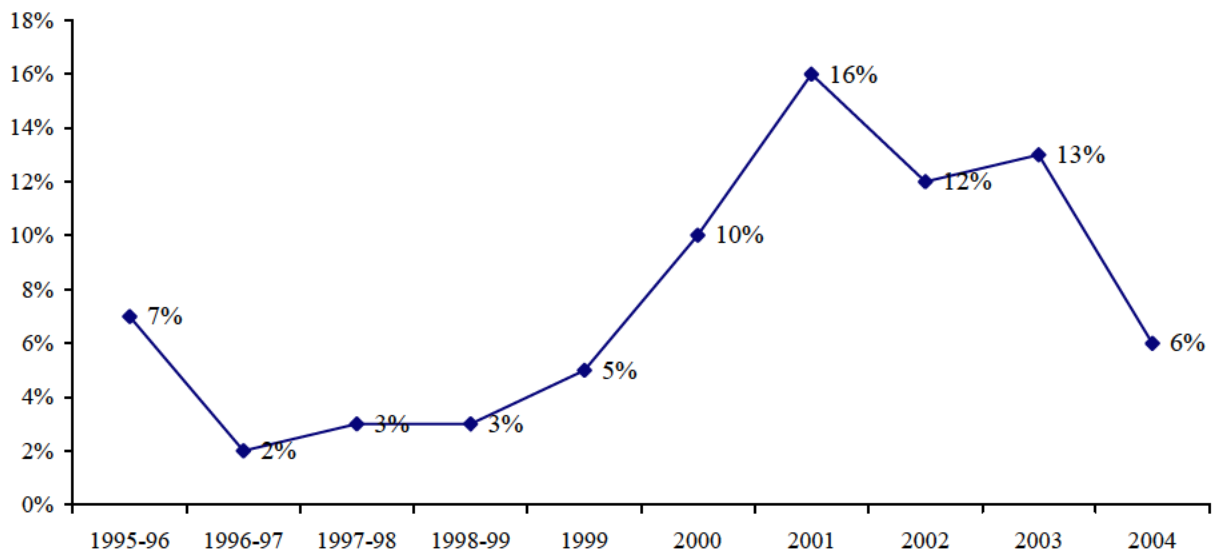


College
of Health &
Human
Performance

Summary of Sponsored Research (Grants & Contracts)

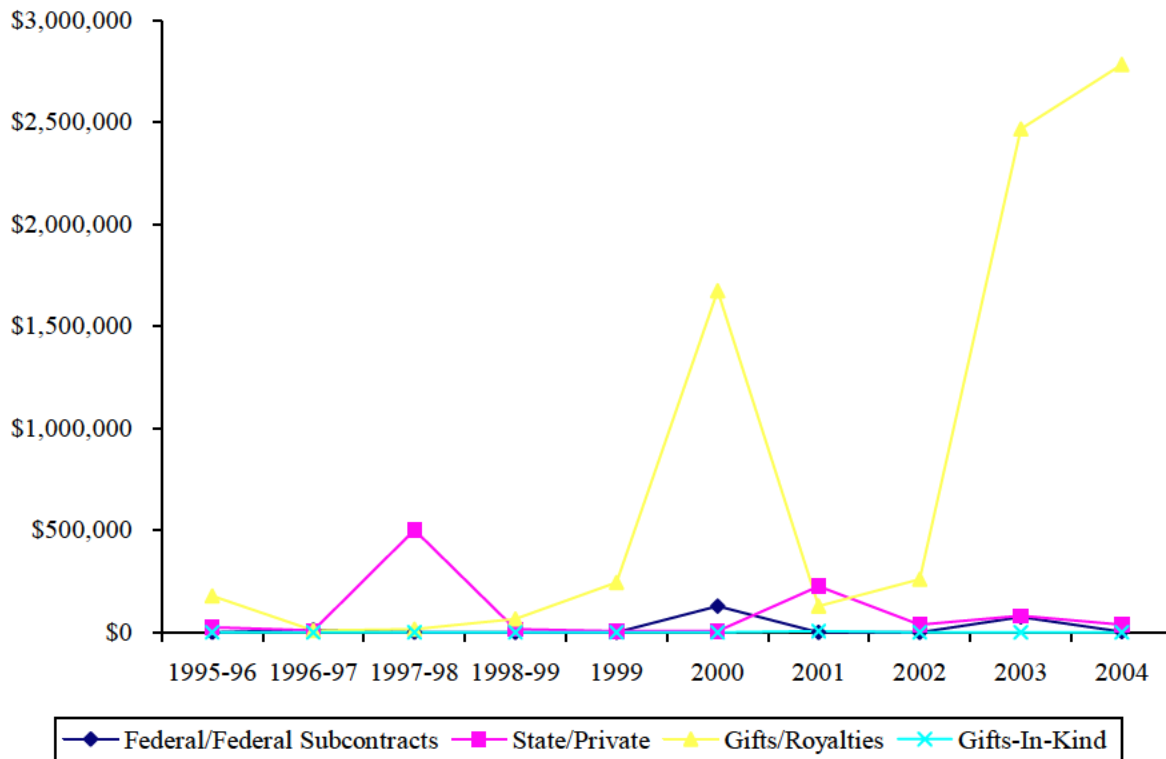
Department	# of Faculty	# of Faculty Submitting	# of Proposals Submitted	# of Awards	Dollars Awarded
Dance	16	0	0	0	\$0
Health Sciences	14	0	0	2	\$6,372
Exercise Sciences	29	4	5	4	\$32,800
Rec Management & Youth Ldrship	13	0	0	0	\$0
<i>TOTALS</i>	72	4	5	6	\$39,172

Proposal Submission Activity



External Research Funding (All Sources)

Year	Grants/Contracts		Gifts/Royalties	Gifts-In-Kind	Total
	Federal/Federal Subcontracts	State/Private			
1995-96	\$0	\$25,530	\$179,362	\$0	\$204,892
1996-97	\$12,925	\$10,000	\$9,900	\$0	\$32,825
1997-98	\$0	\$500,800	\$15,375	\$0	\$516,175
1998-99	\$0	\$15,000	\$66,000	\$0	\$81,000
1999	\$0	\$5,000	\$244,000	\$0	\$249,000
2000	\$130,223	\$6,750	\$1,674,743	\$0	\$1,811,716
2001	\$0	\$226,014	\$127,800	\$6,000	\$359,814
2002	\$0	\$38,500	\$260,295	\$0	\$298,795
2003	\$74,113	\$82,245	\$2,469,825	\$0	\$2,626,183
2004	\$2,322	\$36,850	\$2,788,169	\$0	\$2,827,341



Health & Human Performance 2004 Awards

<u>PI</u>	<u>Co-PI</u>	<u>Sponsor</u>	<u>Title</u>	<u>Start Date</u>	<u>End Date</u>	<u>Type</u>	<u>Amount</u>	<u>N/C</u>
<i>Health Sciences</i>								
Lindsay, Gordon		SLCC	USSAP Safety Promotion	06/01/02	05/31/04	2	\$2,322	N
Merrill, Ray		Thrasher Research Fund	DMBA Research	04/01/04	12/31/04	4	\$4,050	N
<i>Exercise Science</i>								
Draper, David		Procter & Gamble	Knee Joint measurements	07/26/04	06/30/05	4	\$30,000	C
Hunter, Iain		US Track & Field	Private Donations	06/10/04	open	4	\$1,500	C
Hunter, Iain		Private Donations	Hammer Throw Analysis	10/26/04	10/25/04	4	\$1,000	C
Knight, Kenneth		Natl. Athletic Trainers Assn.	NATA Education Journal	05/21/04	open	4	\$300	N

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

N/C: N=New; C=Continuing

Department Totals	
Dance	\$0
Health Sciences	\$6,372
Exercise Science	\$32,800
Rec Management & Youth Ldrship	\$0
College Total:	\$39,172

Health & Human Performance

Source Breakdown of Grants and Contracts

<u>Sponsor</u>	<u>Number Awarded</u>	<u>Total Amount</u>
Federal		
None		
<i>Total</i>	<hr/>	
Subcontracts		
SLCC	1	\$2,322
<i>Total</i>	1	\$2,322
State		
None		
<i>Total</i>	<hr/>	
Private		
National Athletic Trainers Association	1	\$300
Private Donations	1	\$1,000
Proctor & Gamble	1	\$30,000
Thrasher Research Fund	1	\$4,050
U.S. Track and Field	1	\$1,500
<i>Total</i>	5	\$36,850



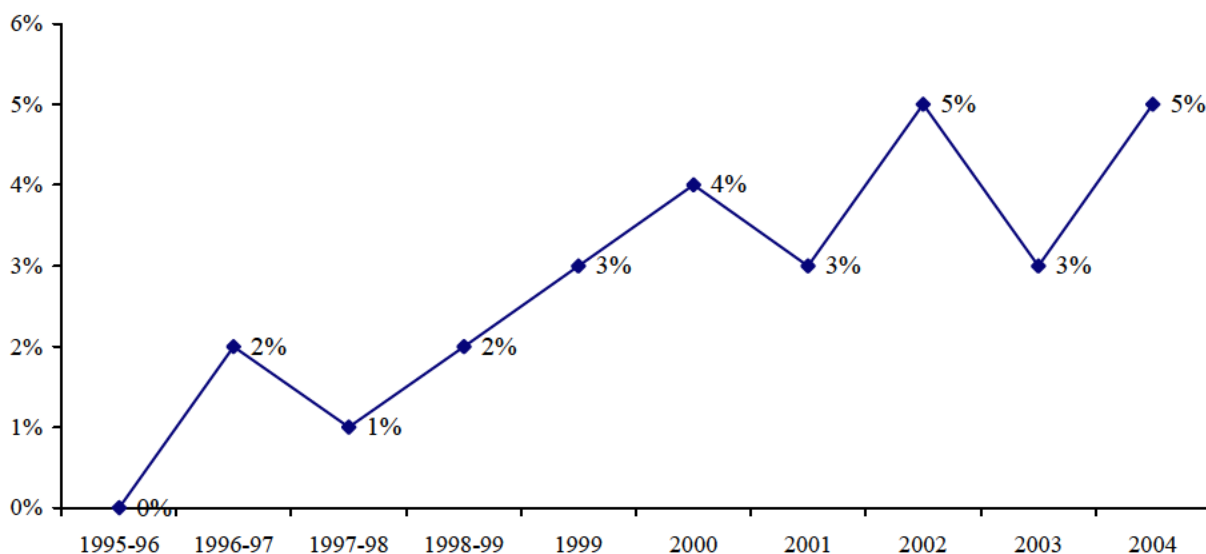
College
of
Humanities

Summary of Sponsored Research (Grants & Contracts)

Department	# of Faculty	# of Faculty Submitting	# of Proposals Submitted	# of Awards	Dollars Awarded
Asian & Near Eastern Languages	20	1	2	1	\$551,727
Center for Language Studies	1	1*	1	2	\$352,954
English	68	1	1	0	\$0
French & Italian	14	1	1	1	\$18,800
German & Slavic Languages	22	0	0	0	\$0
Hum, Classics & Comparative Lit	25	1	1	0	\$0
Humanities Research Center	3	0	0	0	\$0
Linguistics	21	5	3	1	\$250,000
Philosophy	13	0	0	0	\$0
Spanish & Portuguese	28	0	0	0	\$0
<i>TOTALS</i>	215	10	9	5	\$1,173,480

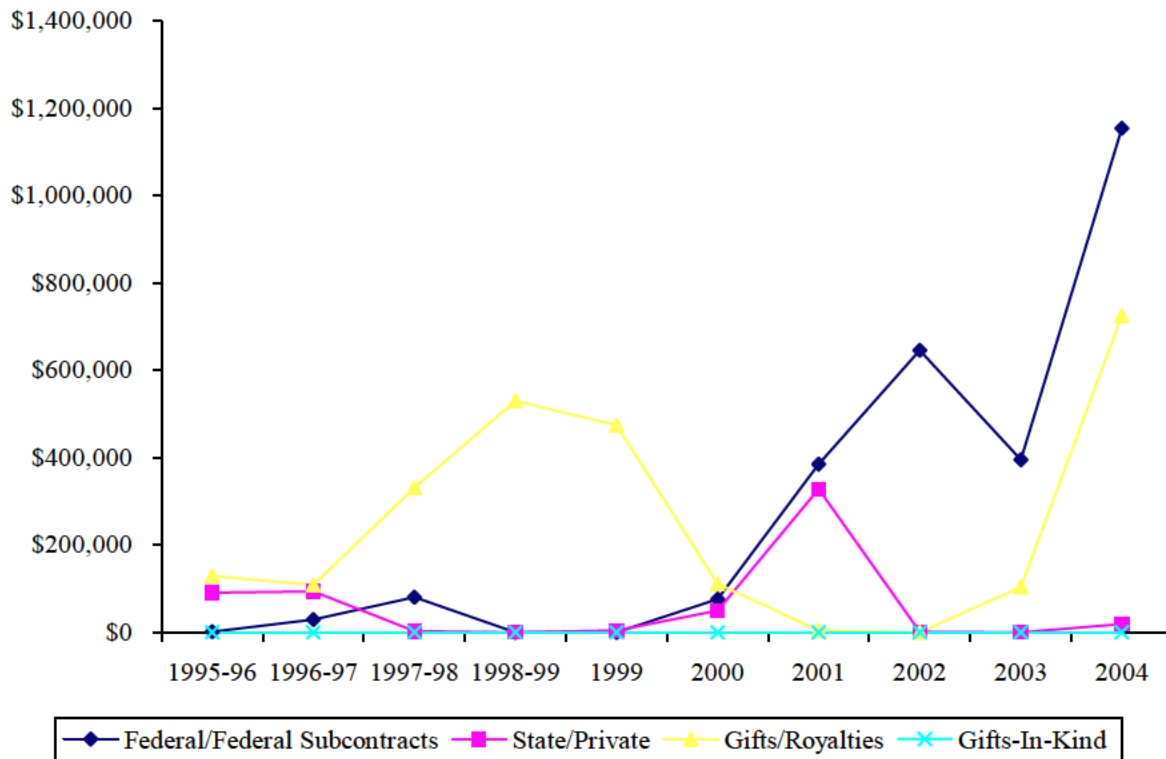
*Faculty at the Center are from the Linguistics Department

Proposal Submission Activity



External Research Funding (All Sources)

Year	Grants/Contracts		Gifts/Royalties	Gifts-In-Kind	Total
	Federal/Federal Subcontracts	State/Private			
1995-96	\$1,788	\$91,228	\$129,483	\$0	\$222,499
1996-97	\$29,578	\$93,620	\$107,801	\$0	\$230,999
1997-98	\$81,027	\$3,613	\$330,361	\$0	\$415,001
1998-99	\$0	\$0	\$530,182	\$0	\$530,182
1999	\$0	\$4,438	\$474,383	\$0	\$478,821
2000	\$75,574	\$50,000	\$111,400	\$0	\$236,974
2001	\$385,376	\$328,672	\$4,000	\$0	\$718,048
2002	\$645,960	\$1,440	\$0	\$0	\$647,400
2003	\$395,633	\$0	\$103,784	\$0	\$499,417
2004	\$1,154,680	\$18,800	\$725,181	\$0	\$1,898,661



Humanities 2004 Awards

<u>PI</u>	<u>Co-PI</u>	<u>Sponsor</u>	<u>Title</u>	<u>Start Date</u>	<u>End Date</u>	<u>Type</u>	<u>Amount</u>	<u>N/C</u>
<i>Asian and Near Eastern Languages</i>								
Belnap, Kirk		US Dept of Education	NMELRC	08/15/04	08/14/05	1	350,000	C
Bourgerie, Dana	w/ Luthy, Melvin	University of Maryland (NSEP)	Chinese Flagship Program	09/01/03	08/31/05	2	\$201,727	C
<i>Center for Language Studies</i>								
Luthy, Melvin		University of Maryland (NSEP)	Chinese Flagship Program	09/01/03	08/31/05	2	\$201,727	C
Luthy, Melvin J.		Univ of Maryland	Ntl Flagship Program	09/01/03	08/31/04	2	\$151,227	C
<i>French and Italian</i>								
Bush, Michael		Houghton-Mifflin	Development of Language Interface	01/23/04	open	4	\$18,800	N
<i>Linguistics</i>								
Davies, Mark		NEH	Create Online Portugese Texts	07/01/04	06/30/06	1	\$250,000	N

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

N/C: N=New; C=Continuing

Department Totals

Asian & Near Eastern Languages	\$551,727
Center for Language Studies	\$352,954
English	\$0
French & Italian	\$18,800
German & Slavic Languages	\$0
Hum, Classics & Comparative Lit	\$0
Humanities Research Center	\$0
Linguistics	\$250,000
Philosophy	\$0
Spanish & Portuguese	\$0
College Total:	\$1,173,480

Humanities

Source Breakdown of Grants and Contracts

<u>Sponsor</u>	<u>Number Awarded</u>	<u>Total Amount</u>
Federal		
Dept of Education	1	\$350,000
NEH	1	\$250,000
<i>Total</i>	2	\$600,000
Subcontracts		
Univ of Maryland	1	\$403,453
Univ of Maryland (NSEP)	1	\$151,227
<i>Total</i>	2	\$554,680
State		
None		
<i>Total</i>		
Private		
Houghton-Mifflin	1	\$18,800
<i>Total</i>	1	\$18,800

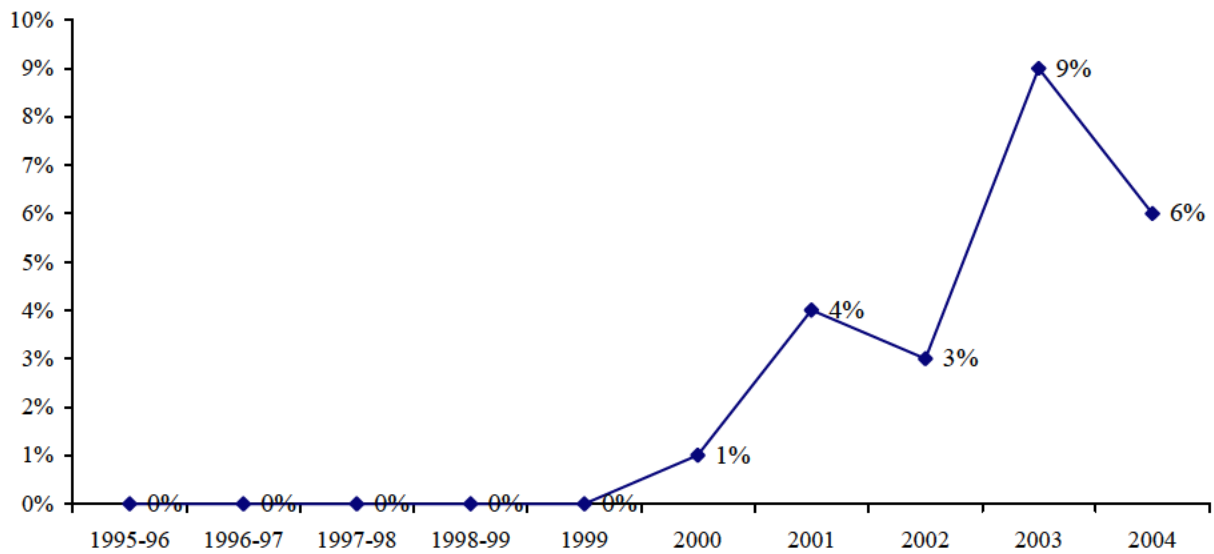


J. Reuben
Clark Law
School

Summary of Sponsored Research (Grants & Contracts)

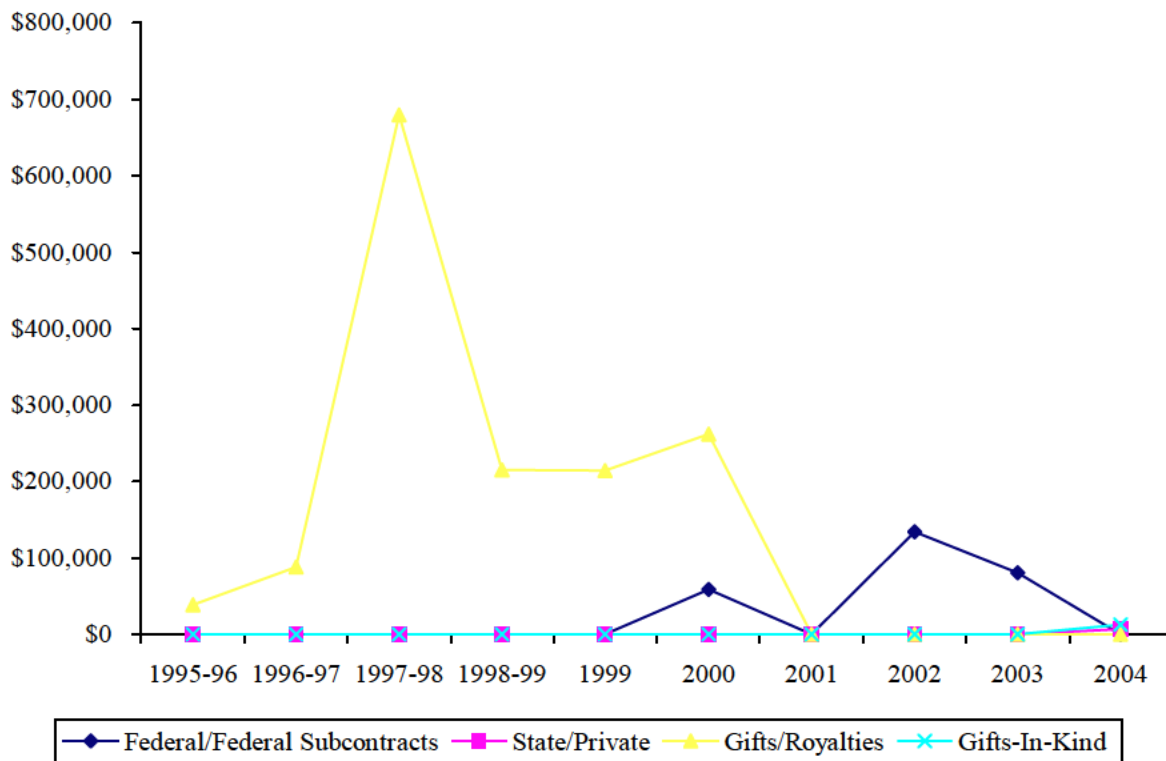
Department	# of Faculty	# of Faculty Submitting	# of Proposals Submitted	# of Awards	Dollars Awarded
Law School	36	2	3	1	\$6,667
<i>TOTALS</i>	36	2	3	1	\$6,667

Proposal Submission Activity



External Research Funding (All Sources)

Year	Grants/Contracts		Gifts/Royalties	Gifts-In-Kind	Total
	Federal/Federal Subcontracts	State/Private			
1995-96	\$0	\$0	\$38,465	\$0	\$38,465
1996-97	\$0	\$0	\$88,076	\$0	\$88,076
1997-98	\$0	\$0	\$679,707	\$0	\$679,707
1998-99	\$0	\$0	\$214,962	\$0	\$214,062
1999	\$0	\$0	\$214,244	\$0	\$214,244
2000	\$58,650	\$0	\$261,856	\$0	\$320,506
2001	\$0	\$0	\$0	\$0	\$0
2002	\$133,653	\$0	\$0	\$0	\$0
2003	\$80,453	\$0	\$0	\$0	\$80,453
2004	\$0	\$6,667	\$0	\$12,500	\$19,167



J. Reuben Clark Law School 2004 Awards

<u>PI</u>	<u>Co-PI</u>	<u>Sponsor</u>	<u>Title</u>	<u>Start Date</u>	<u>End Date</u>	<u>Type</u>	<u>Amount</u>	<u>N/C</u>
<i>Law School</i>								
Layne, Benjamin		State of Utah	ACAS Collection Analysis, Desert States Law Lib Consortium	04/01/04	09/15/05	3	\$3,334	N
Lundberg, Constance	w/ Layne, Benjamin	State of Utah	ACAS Collection Analysis, Desert States Law Lib Consortium	04/01/04	09/15/05	3	\$3,334	N

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

N/C: N=New; C=Continuing

Department Totals
Law School

College Total:

\$6,667

\$6,667

J. Reuben Clark Law School

Source Breakdown of Grants and Contracts

Sponsor	Number Awarded	Total Amount
Federal		
None		
<i>Total</i>	<hr/>	
Subcontracts		
None		
<i>Total</i>	<hr/>	
State		
State of Utah	1	\$6,667
<i>Total</i>	1	\$6,667
Private		
None		
<i>Total</i>	<hr/>	

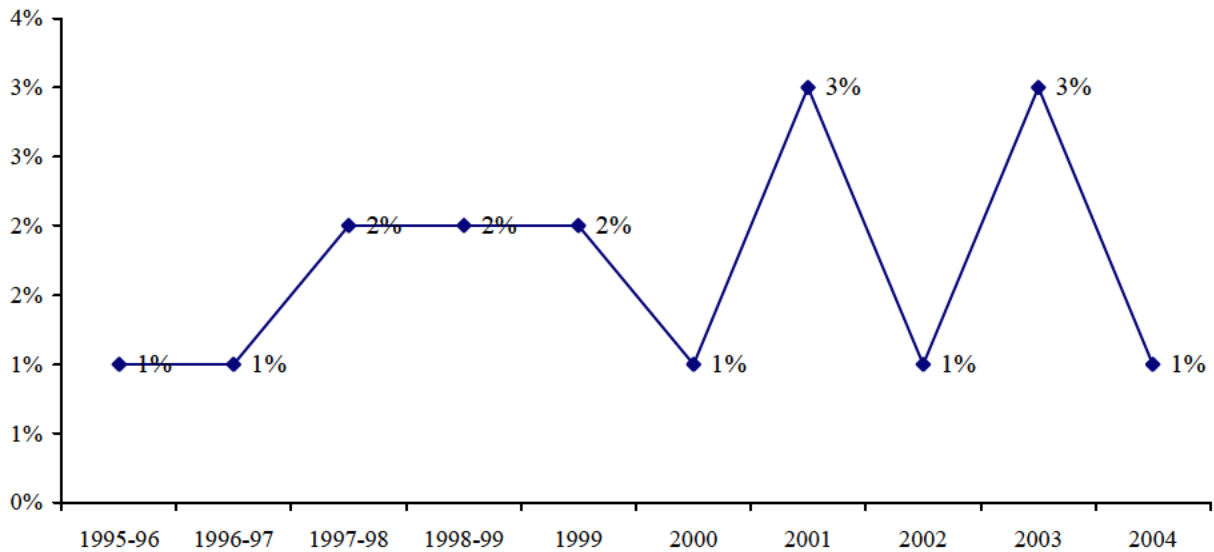


Marriott
School of
Management

Summary of Sponsored Research (Grants & Contracts)

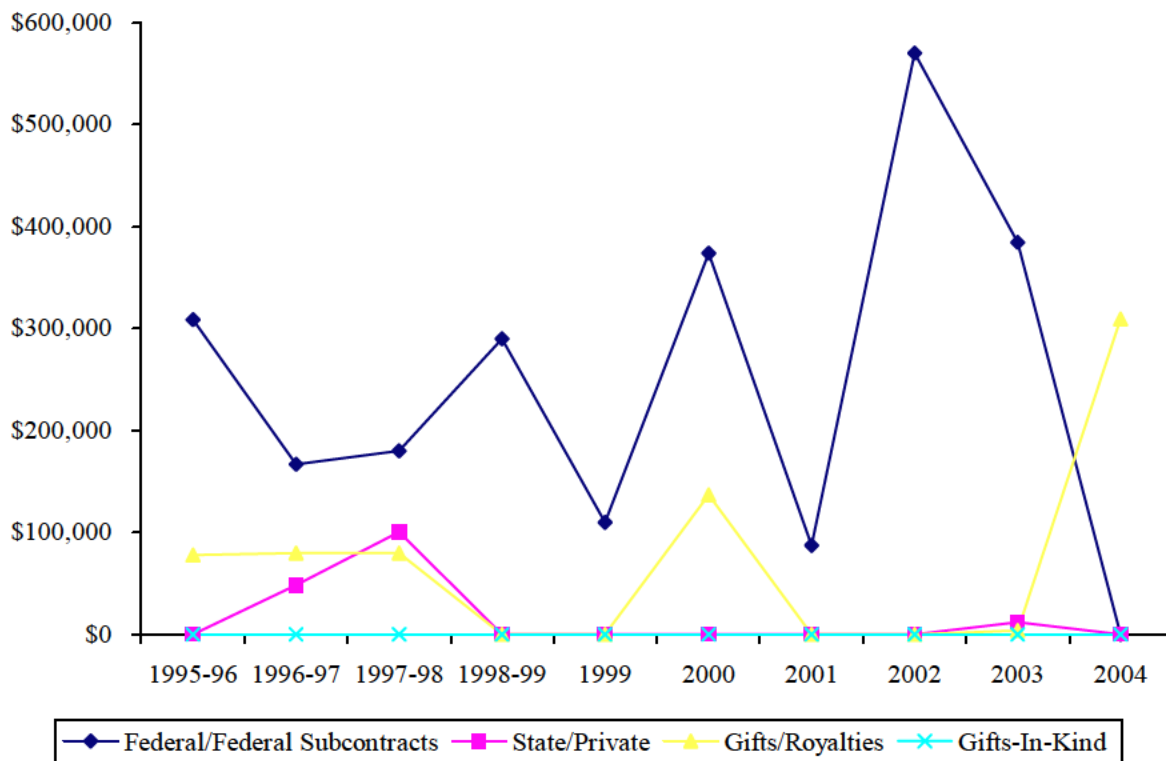
Department	# of Faculty	# of Faculty Submitting	# of Proposals Submitted	# of Awards	Dollars Awarded
Business Management	42	1	1	0	\$0
Organizational Leadership & Strategy	28	0	0	0	\$0
Romney Inst of Public Management	11	0	0	0	\$0
School of Accountancy & Info Sys	40	0	0	0	\$0
<i>TOTALS</i>	121	1	1	0	\$0

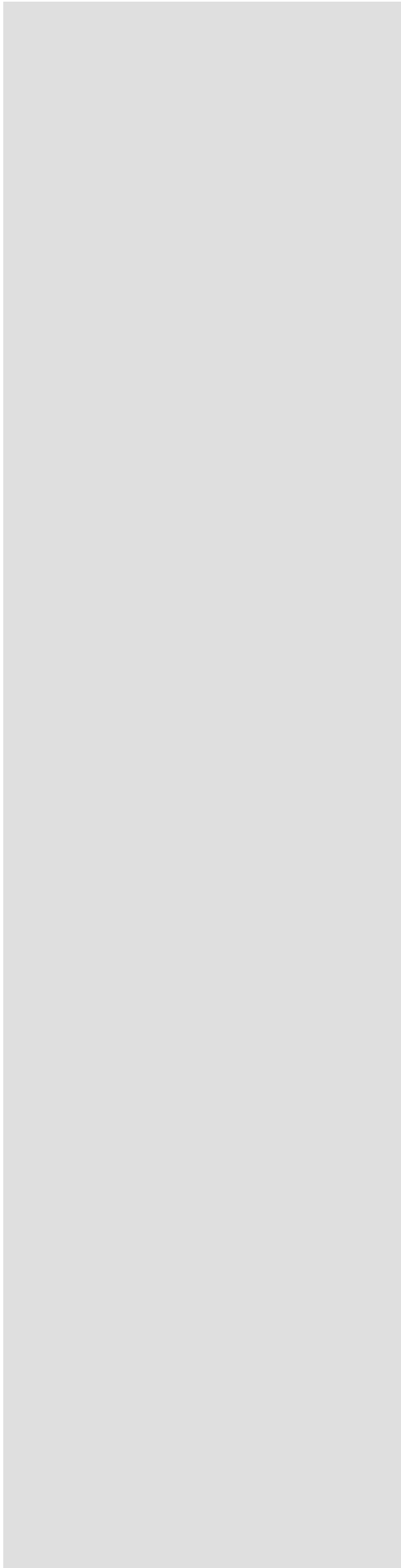
Proposal Submission Activity



External Research Funding (All Sources)

Year	Grants/Contracts		Gifts/Royalties	Gifts-In-Kind	Total
	Federal/Federal Subcontracts	State/Private			
1995-96	\$308,761	\$0	\$78,000	\$0	\$386,761
1996-97	\$167,000	\$48,510	\$80,000	\$0	\$295,150
1997-98	\$180,000	\$100,108	\$80,000	\$0	\$360,108
1998-99	\$289,890	\$0	\$0	\$0	\$289,890
1999	\$109,890	\$0	\$0	\$0	\$109,890
2000	\$374,000	\$0	\$137,000	\$0	\$511,000
2001	\$87,124	\$0	\$0	\$0	\$87,124
2002	\$570,628	\$0	\$0	\$0	\$570,628
2003	\$384,700	\$11,850	\$3,927	\$0	\$400,477
2004	\$0	\$0	\$309,536	\$0	\$309,536



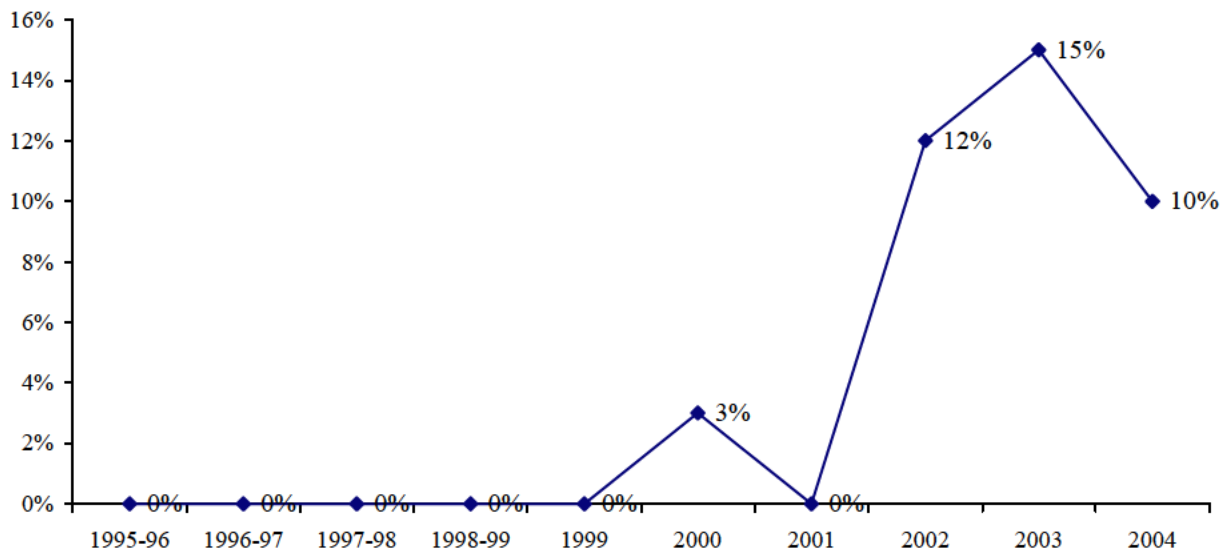


College
of
Nursing

Summary of Sponsored Research (Grants & Contracts)

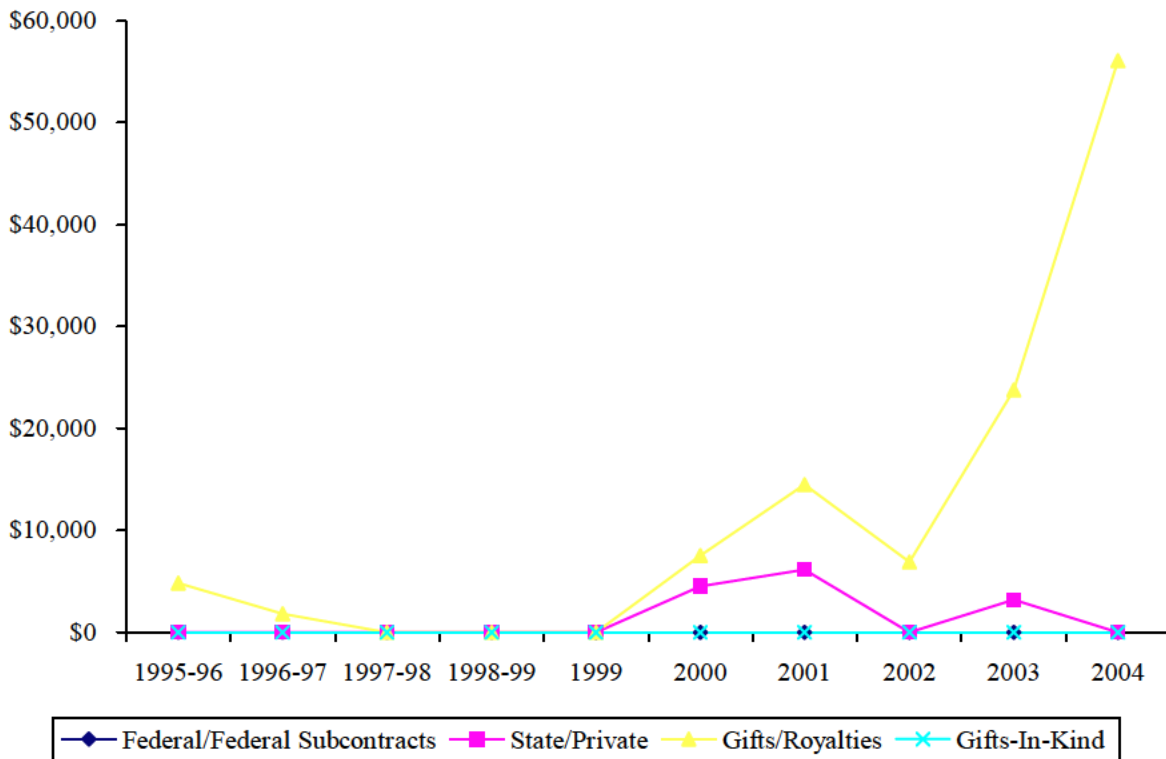
Department	# of Faculty	# of Faculty Submitting	# of Proposals Submitted	# of Awards	Dollars Awarded
Nursing	40	4	2	0	\$0
<i>TOTALS</i>	40	4	2	0	\$0

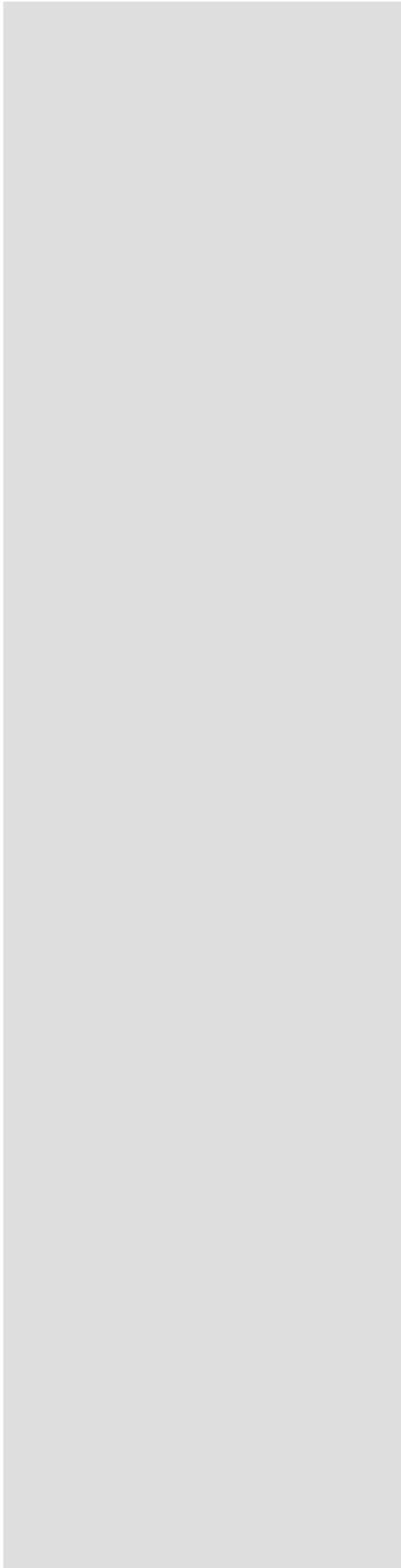
Proposal Submission Activity



External Research Funding (All Sources)

Year	Grants/Contracts		Gifts/Royalties	Gifts-In-Kind	Total
	Federal/Federal Subcontracts	State/Private			
1995-96	\$0	\$0	\$4,862	\$0	\$38,465
1996-97	\$0	\$0	\$1,793	\$0	\$1,793
1997-98	\$0	\$0	\$0	\$0	\$0
1998-99	\$0	\$0	\$0	\$0	\$0
1999	\$0	\$0	\$0	\$0	\$0
2000	\$0	\$4,550	\$7,550	\$0	\$12,100
2001	\$0	\$6,129	\$14,480	\$0	\$20,609
2002	\$0	\$0	\$6,900	\$0	\$0
2003	\$0	\$3,200	\$23,789	\$0	\$26,989
2004	\$0	\$0	\$56,091	\$0	\$56,091



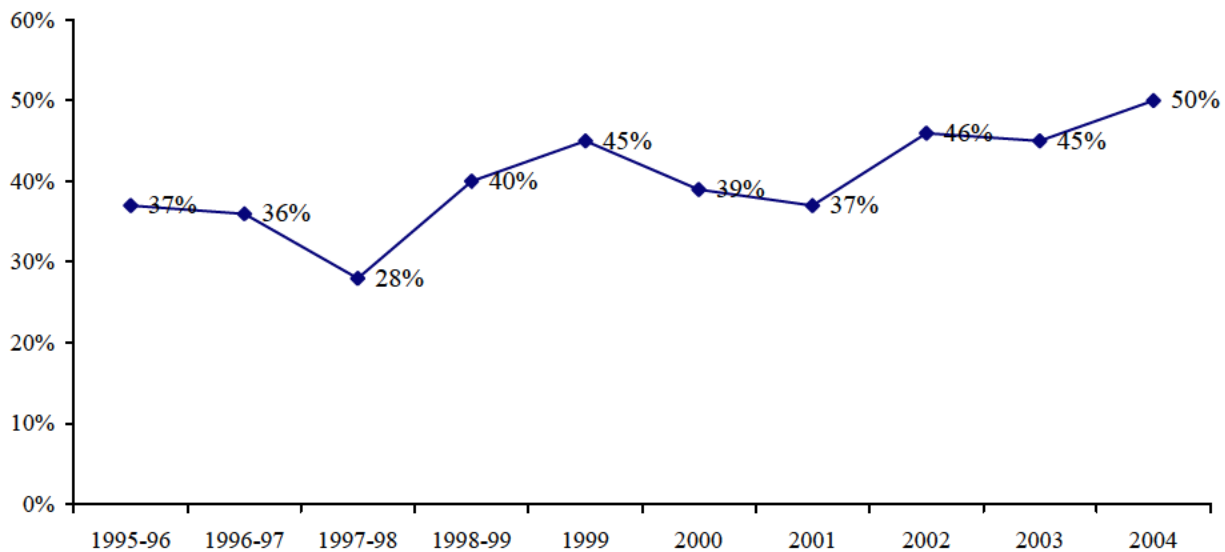


College
of Physical
&
Mathematical
Science

Summary of Sponsored Research (Grants & Contracts)

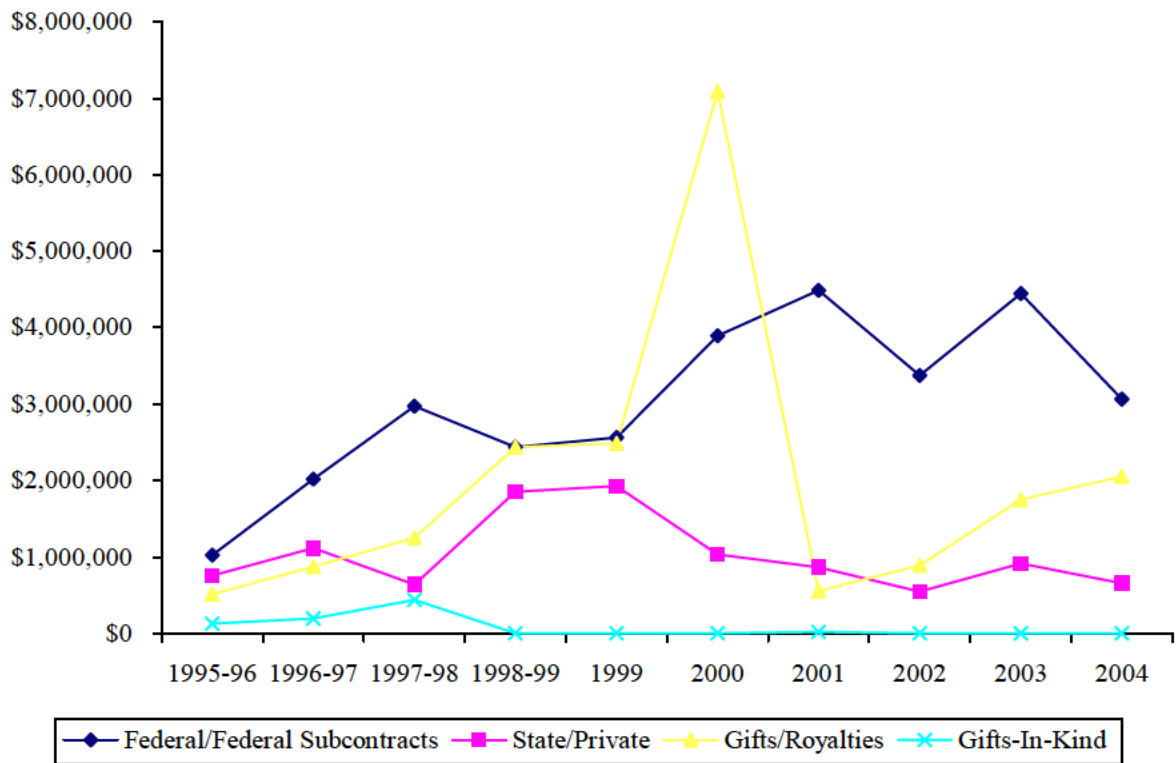
Department	# of Faculty	# of Faculty Submitting	# of Proposals Submitted	# of Awards	Dollars Awarded
Chemistry & Biochemistry	36	35	49	30	\$2,141,000
Computer Science	25	18	18	3	\$600,139
Geology	14	9	7	3	\$63,156
Mathematics	33	9	9	3	\$80,269
Mathematics Education	10	5	2	0	\$0
Physics & Astronomy	34	18	27	19	\$698,712
Statistics	13	6	7	1	\$199,686
<i>TOTALS</i>	165	83	119	59	\$3,782,962

Proposal Submission Activity



External Research Funding (All Sources)

Year	Grants/Contracts		Gifts/Royalties	Gifts-In-Kind	Total
	Federal/Federal Subcontracts	State/Private			
1995-96	\$1,018,903	\$751,121	\$509,525	\$127,370	\$2,406,919
1996-97	\$2,017,813	\$1,109,950	\$867,684	\$193,500	\$4,188,947
1997-98	\$2,973,964	\$638,996	\$1,245,267	\$433,559	\$5,291,786
1998-99	\$2,436,351	\$1,853,248	\$2,438,223	\$0	\$6,727,822
1999	\$2,561,770	\$1,928,464	\$2,488,283	\$0	\$6,928,517
2000	\$3,892,327	\$1,032,159	\$7,085,643	\$0	\$12,010,129
2001	\$4,485,814	\$865,015	\$549,373	\$15,000	\$5,915,202
2002	\$3,368,967	\$547,133	\$886,015	\$0	\$4,802,115
2003	\$4,447,192	\$915,462	\$1,747,809	\$0	\$7,110,463
2004	\$3,065,799	\$653,585	\$2,048,484	\$0	\$5,767,868



Physical & Mathematical Sciences 2004 Awards

<u>PI</u>	<u>Co-PI</u>	<u>Sponsor</u>	<u>Title</u>	<u>Start Date</u>	<u>End Date</u>	<u>Type</u>	<u>Amount</u>	<u>N/C</u>
<i>Chemistry and Biochemistry</i>								
Andrus, Merrit		ACS/PRF	Catalytic Asymmetric Glycolate Transformations	08/01/04	08/31/06	4	\$80,000	N
Castle, Steven		NIH	New Methods for the Synthesis of Unusual Peptides	04/01/04	03/31/05	1	\$225,000	N
Eatough, Delbert		New York University	Sample Collection	04/15/04	07/31/04	4	\$2,500	N
Eatough, Delbert		NSF	Semi-continuous Monitoring and the Source Apportionment of PM2.5 Mass and Its Components	06/15/04	05/31/06	1	\$136,608	N
Eatough, Delbert		UC Berkeley	Equipment	11/15/04	02/28/05	3	\$500	N
Farnsworth, Paul		DOE	Ion Sampling and Transport ...	11/01/04	10/31/05	1	\$125,000	C
Harrison, Roger		WAESO	Synthesis and Characterization of Molecular Recognition Cages	05/15/04	05/14/05	2	\$630	N
Izatt, Reed	w/ Oscarson, John	Renewable Energy Corp	CO2 Separation from Gases Produced by Splitting Water	09/15/04	09/30/05	4	\$25,000	N
Lamb, John		Dionex	Perchlorate Project	07/01/04	06/30/05	4	\$5,000	C
Lamb, John		Dionex	Macrocycle	07/01/03	06/30/04	4	\$7,174	N
Lee, Milton		NIH	Electromobility Focusing for Separation of Proteins	02/01/04	01/31/05	1	\$368,939	C
Lee, Milton		Palmar Technologies	Chemical and Biological Agent Detector	05/08/03	05/07/05	3	\$16,113	C
Lee, Milton		Palmar Technologies	High Throughput Chemical Analyzer	07/01/02	05/07/05	3	\$15,386	C
Lee, Milton	w/Eatough, Delbert	NSF	Semi-continuous Monitoring and the Source Apportionment of PM2.5 Mass and Its Components	06/15/04	05/31/06	1	\$136,608	N
Lee, Milton		Palmar	High Throughput Chemical...	03/04/04	open	4	\$9,305	C
Lee, Milton		Dugway, US Army	Chemical & Biological Agent Detector	09/17/03	09/16/05	1	\$48,564	C
Lee, Milton		Palmar Tech.	Chemical & Biological Agent Detector	05/08/03	05/07/05	1	\$16,113	C
Lee, Milton		Palmar Tech.	High throughput Chemical Analyzer	07/01/02	03/31/05	4	\$11,404	C
Lee, Milton		Dugway Proving Grounds	Chemical and Biological Agent Detector	10/01/04	09/30/05	1	\$30,390	N
Lee, Milton		Palmar	Chemical & Biological Detector	05/08/03	05/07/05	1	\$207,904	C
Lee, Milton		Palmar	High Throughput Chemical Analyzer	07/01/02	03/31/05	4	\$11,512	C
Lee, Milton		Palmar Technologies	High Throughput Chemical Analyzer Support	03/01/04	open	4	\$195,000	N
Peatross, Justin		WAESO	Measuring Absolute Energy of Laser Generated High Order Harmonics.	05/15/04	05/14/05	2	\$756	C
Robins, Morris		Univ of Kansas	AdoHcy Hydrolase	02/01/03	1-31-05	2	\$44,880	C
Savage, Paul		Emory Univ (NIH)	Clas II tetramer Subcontract	08/13/04	03/20/05	2	\$45,000	N
Savage, Paul		Osmotics Corp.	Fee from Osmotics		open	4	\$22,500	N
Savage, Paul		NAU (NIH)	Receptor Aggregation on the Cell Surface	03/15/02	02/28/05	2	\$14,892	C
Thulin, Craig		U of U (NIH)	Proteomic Prediction of Preterm Birth	04/01/03	03/31/04	2	\$82,947	N
Thulin, Craig		NIH (UofU)	Proteomic Prediction of Birth	04/01/04	03/31/05	1	\$101,283	C
Vollmer-Snarr, Heidi		Ntl Kidney Foundation	Development of a Targeted & Triggered Drug Delivery System for Kidney Cancer Therapy.	09/01/04	08/31/06	4	\$15,000	N
Watt, Gerald	w/ Harb, John	NASA	Nanomaterials & Structures for Micropower Applications	01/15/02	01/14/05	1	\$40,000	C
Watt, Gerald		NIA	Development of a Quantum Computing Model	12/24/03	12/31/04	1	\$48,211	N
Woolley, Adam		Dept of the Army	DNA Templated	09/01/02	08/31/05		\$50,882	N
<i>Computer Science</i>								
Clement, Mark	w/ Whiting, Michael	NSF	Biocomplexity: Hexapod Phylogenomics - REU Supplement	01/01/02	12/31/06	1	\$4,000	C

Physical & Mathematical Sciences 2004 Awards

<u>PI</u>	<u>Co-PI</u>	<u>Sponsor</u>	<u>Title</u>	<u>Start Date</u>	<u>End Date</u>	<u>Type</u>	<u>Amount</u>	<u>N/C</u>
Seamons, Kent		NSF	Automated Trust Negotiations in Open Systems	09/01/03	08/31/05	1	\$459,025	C
Seamons, Kent		UC Irvine (NSF)	Flexible Access Control Systems....	10/01/03	09/30/05	2	\$82,093	N
Sederberg, Thomas		UC Davis (NSF)	Advanced Topological Methods for Surface Intersection Algorithms	05/01/02	04/30/05	2	\$51,021	C
Snell, Quinn	w/ Whiting, Michael	NSF	Biocomplexity: Hexapod Phylogenomics - REU Supplement	01/01/02	12/31/06	1	\$4,000	C
<i>Geology</i>								
Kowallis, Bart		USGS	Mapping of Donkey Flat	06/01/04	05/31/05	1	\$12,000	N
Mayo, Alan		UT ST Natural Resources	Midway Fish Hatchery	02/10/04	12/31/04	3	\$11,000	N
McBride, John		Univ Illinois (DOE)	Assesment of Geological Carbon Sequestration	10/01/03	09/30/05	2	\$40,156	C
<i>Mathematics</i>								
Dorff, Michael		NSF	REU	04/01/05	03/31/06	####	\$52,722	N
Li, Xian-Jin		Natl Security Agency	Spectral Theory of Automorphic Functions	06/20/03	06/20/05	1	\$15,006	C
Pollington, Andrew		NSF	Intergovernmental Personnel Assignment	09/03/02	09/02/04	1	\$12,541	C
<i>Physics and Astronomy</i>								
Allred, David		Lockheed Martin Astronautics	CVD Si-Ge for Thermoelectric Elements	08/26/04	11/30/04	4	\$39,999	N
Bergeson, Scott		NSF	Highly Excited Ultra-cold Atoms	05/07/04	08/31/04	1	\$10,000	C
Bergeson, Scott		NSF	High Excited, Ultra Cold Atoms	06/06/04	08/31/05	1	\$95,891	C
Davis, Robert	w/ Harb, John	NASA	Nanomaterials & Structures for Micropower Applications	01/15/02	01/14/05	1	\$40,000	C
Davis, Robert		Cornell (NSF)	Center for Nanoscale Systems	09/01/01	08/31/05	2	\$30,000	C
Hintz, Eric		Fund For Astrophysical Research	Upgrade for Apogee CCD Camera	03/08/04	03/07/05	4	\$2,500	N
Leishman, Tim		SoundTube Entertainment	Development of Cost Effective Directional Loudspeakers	01/05/04	12/31/04	4	\$33,480	N
Leishman, Timothy	w/ Sommerfeldt, Scott	Axiom EduTech	Sound Quality Analysis	02/18/04	12/31/04	4	\$14,877	N
Leishman, Timothy	w/ Sommerfeldt, S	NSF	Development of Acoustic Energy Concepts	06/15/04	05/31/05	1	\$32,780	N
Leishman, Timothy		Larson Davis Inc. (Sandia)	Windscreen for Unattended Acoustic Ground Sensors	05/14/04	12/20/04	2	\$7,470	N
Leishman, Timothy	w/Thomson, Scott	Tri-Mast International	Analysis and Development of a Throat Microphone	11/08/04	08/31/05	4	\$9,175	N
Leishman, Timothy		Spectrum Engineers	Sound Absorption Measurement	11/08/04	12/08/04	4	\$831	N
Lewis, James		NIST	Theoretical Investigation...	09/01/04	07/01/07	1	\$65,280	N
Lewis, James		UofU -DOE	Measurement of semivolatile Particulate Matter.	01/16/02	12/31/04	1	\$25,000	C
Peatross, Justin		NSF	Laser High Order Harmonic Generation	05/07/04	06/30/05	1	\$10,000	C
Sommerfeldt, Scott		Caterpillar	Active Noise Control...	07/23/01	12/31/04	4	\$97,188	C
Sommerfeldt, Scott		Axiom EduTech	Sound Quality Analysis	02/18/04	12/31/04	4	\$14,877	N
Sommerfeldt, Scott		NSF	Development of Acoustic Energy Concepts	06/15/04	05/31/05	1	\$32,780	N
Sommerfeldt, Scott	w/ Leishman, Tim	Larson Davis Inc. (Sandia)	Windscreen for Unattended Acoustic Ground Sensors	05/14/04	12/20/04	2	\$7,470	N

Physical & Mathematical Sciences 2004 Awards

<u>PI</u>	<u>Co-PI</u>	<u>Sponsor</u>	<u>Title</u>	<u>Start Date</u>	<u>End Date</u>	<u>Type</u>	<u>Amount</u>	<u>N/C</u>
Sommerfeldt, Scott		Caterpillar	Activated Noise Control in Earth-Moving Equipment....	07/31/01	12/31/04	4	\$22,812	N
Sommerfeldt, Scott		Credence Systems Corp.	PO 55891	12/17/04	06/06/05	4	\$9,750	N
Turley, Steve		NSF	REU-PHY-0301061	04/23/04	04/30/05	1	\$71,552	N
VanFleet, Richard		UCF (NSF)	NER:Small well-ordered intermetallic magnetic nanoparticles	07/21/04		2	\$4,500	N
Warnick, Sean		Sandia (DOE)	Pattern Recurrence Algorithms	11/23/04	09/30/05	2	\$20,500	N
Statistics								
Christensen, William		EPA	Addressing Temporal Correlation Incomplete Source Profile Information	12/01/04	11/30/07	1	\$29,539	N
Christensen, William	w/Eatough, Delbert	NSF	Semi-continuous Monitoring and the Source Apportionment of PM2.5 Mass and Its Components	06/15/04	05/31/06	1	\$136,608	N
Reese, Shane	w/ Christensen, William	EPA	Addressing Temporal Correlation Incomplete Source Profile Information	12/01/04	11/30/07	1	\$29,539	N
Whiting, David	w/ Whiting, Michael	NSF	Biocomplexity: Hexapod Phylogenomics - REU Supplement	01/01/02	12/31/06	1	\$4,000	C

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

N/C: N=New; C=Continuing

Department Totals	
Chemistry & Biochemistry	\$2,141,000
Computer Science	\$600,139
Geology	\$63,156
Mathematics	\$80,269
Mathematics Education	\$0
Physics & Astronomy	\$698,712
Statistics	\$199,686
College Total:	\$3,782,962

Physical & Mathematical Sciences

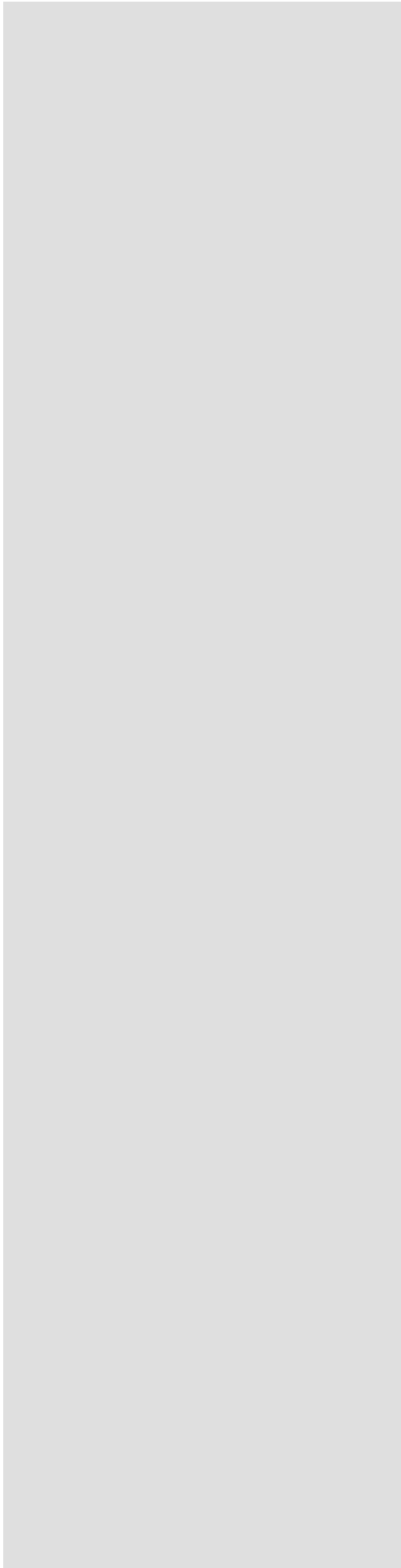
Source Breakdown of Grants and Contracts

Sponsor	Number Awarded	Total Amount
Federal		
Dept of the Army	1	\$50,882
DOE	1	\$125,000
Dugway Proving Grounds	1	\$30,390
Dugway, US Army	1	\$48,564
EPA	1	\$59,078
NIA	1	\$48,211
Natl. Security Agency	1	\$15,006
NIH	2	\$593,939
NIH (U of U)	1	\$101,283
NIST	1	\$65,280
NSF	9	\$1,219,894
Palmar	2	\$224,017
U of U- DOE	1	\$25,000
USGS	1	\$12,000
Total	24	\$2,618,544
Subcontracts		
Cornell (NSF)	1	\$30,000
Emory University (NIH)	1	\$45,000
Larson Davis Inc (Sandia)	1	\$29,880
NAU (NIH)	1	\$14,892
Sandia (DOE)	1	\$20,500
U of U (NIH)	1	\$82,947
UC Davis (NSF)	1	\$51,021
UC Irvine (NSF)	1	\$82,093
UCF (NSF)	1	\$4,500
Univ of Illinois	1	\$40,156
Univ of Kansas	1	\$44,880
WAESO	2	\$1,386
Total	13	\$447,255
State		
Palmar	2	\$31,499
UC Berkeley	1	\$500
Utah State Natural Resources	1	\$11,000
Total	4	\$42,999

Physical & Mathematical Sciences

Source Breakdown of Grants and Contracts

Sponsor	Number Awarded	Total Amount
Private		
ACS/PRF	1	\$80,000
Axiom EduTech	1	\$44,631
Caterpillar Inc.	2	\$120,000
Credence Systeme Corporation	1	\$9,750
Dionex Corp	1	\$12,174
Fund for Astrophysical Research	1	\$2,500
Lockheed Martin Astronautics	1	\$39,999
NY University	1	\$2,500
National Kidney Foundation	1	\$15,000
Osmotics Corporation	1	\$22,500
Palmar	4	\$227,221
Sound Tube Entertainment	1	\$33,480
Spectrum Engineers	1	\$831
Total	17	\$610,586

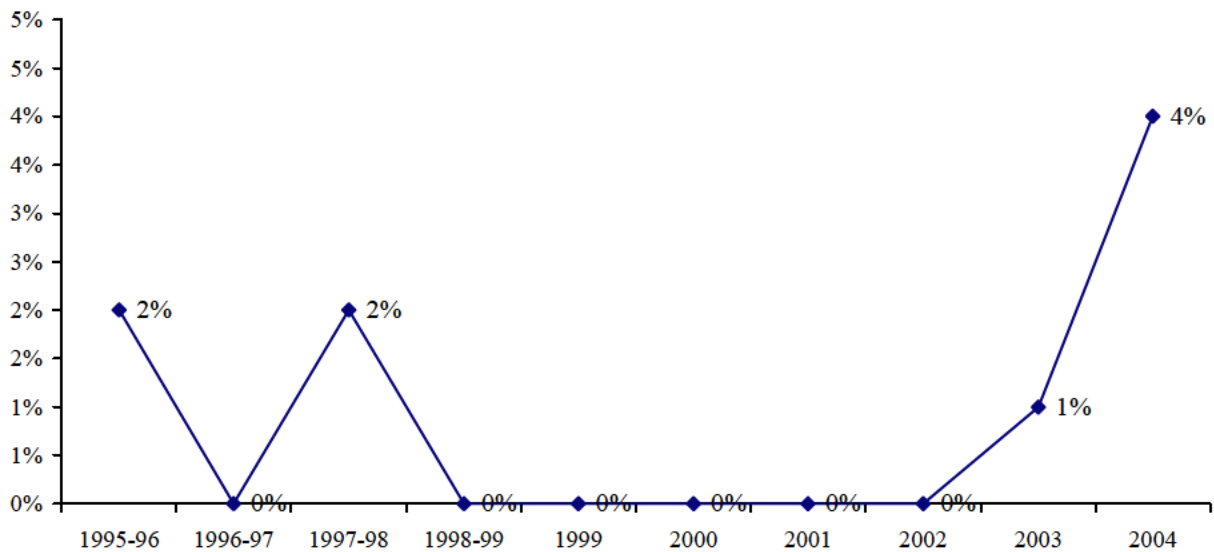


College of Religious Education

Summary of Sponsored Research (Grants & Contracts)

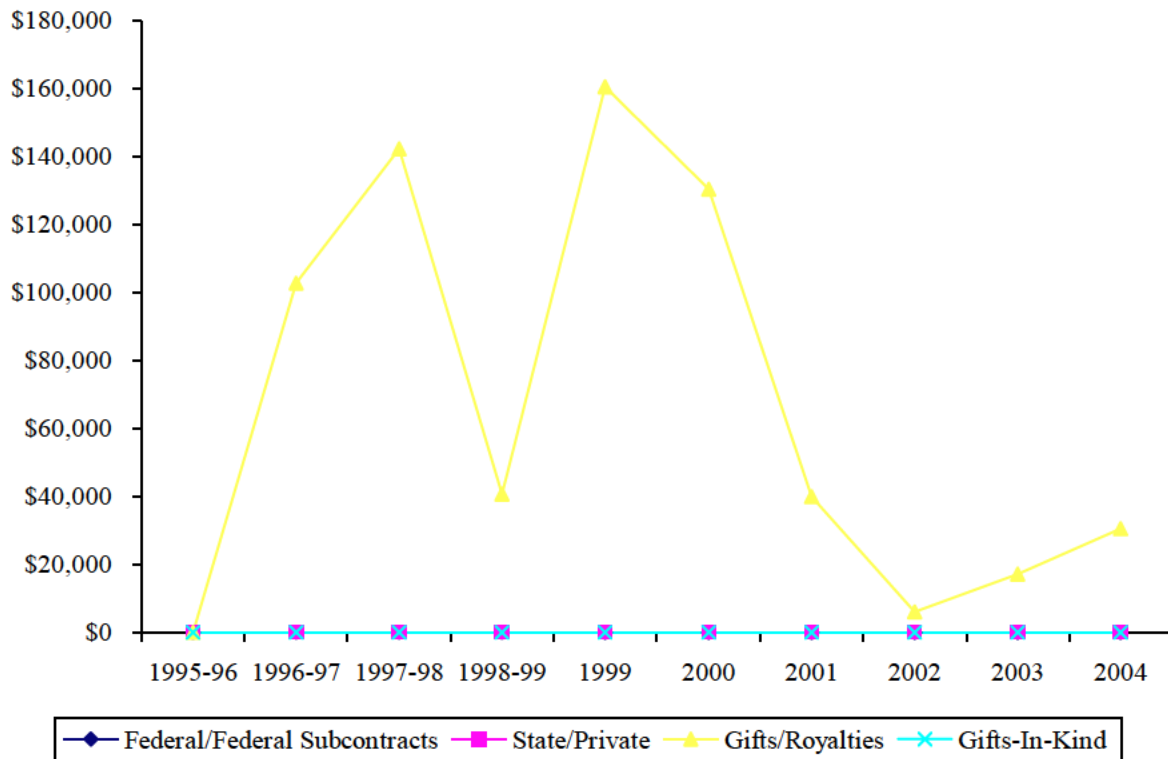
Department	# of Faculty	# of Faculty Submitting	# of Proposals Submitted	# of Awards	Dollars Awarded
Ancient Scripture	8	1	0	0	\$0
Church History & Doctrine	16	0	0	0	\$0
<i>TOTALS</i>	24	1	0	0	\$0

Proposal Submission Activity



External Research Funding (All Sources)

Year	Grants/Contracts		Gifts/Royalties	Gifts-In-Kind	Total
	Federal/Federal Subcontracts	State/Private			
1995-96	\$0	\$0	\$0	\$0	\$0
1996-97	\$0	\$0	\$102,726	\$0	\$102,726
1997-98	\$0	\$0	\$142,371	\$0	\$142,371
1998-99	\$0	\$0	\$40,690	\$0	\$40,690
1999	\$0	\$0	\$160,672	\$0	\$160,672
2000	\$0	\$0	\$130,507	\$0	\$130,507
2001	\$0	\$0	\$40,000	\$0	\$40,000
2002	\$0	\$0	\$6,000	\$0	\$6,000
2003	\$0	\$0	\$17,126	\$0	\$17,126
2004	\$0	\$0	\$30,552	\$0	\$30,552



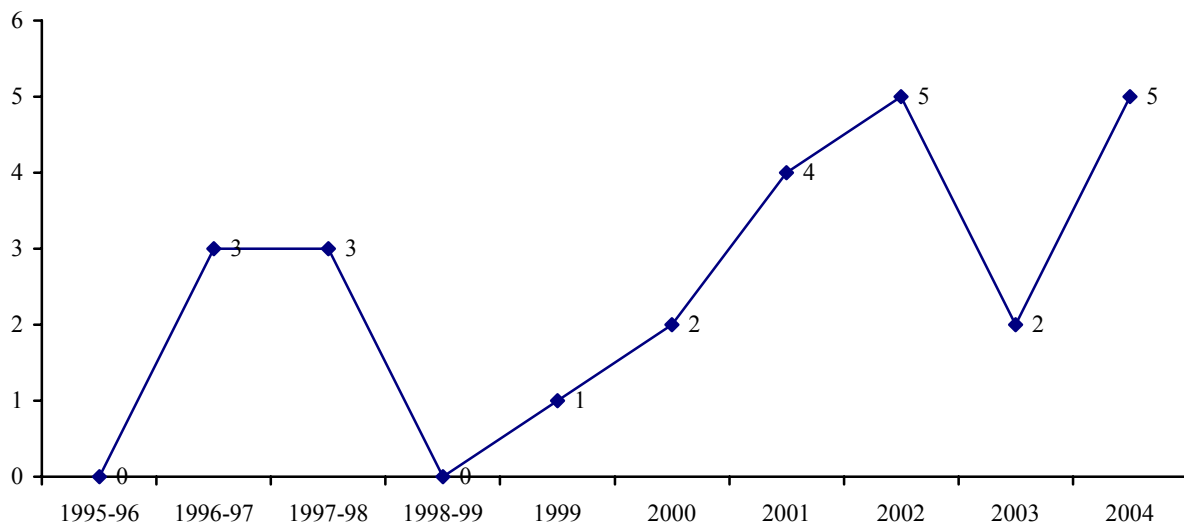


Non-College Units

Summary of Sponsored Research (Grants & Contracts)

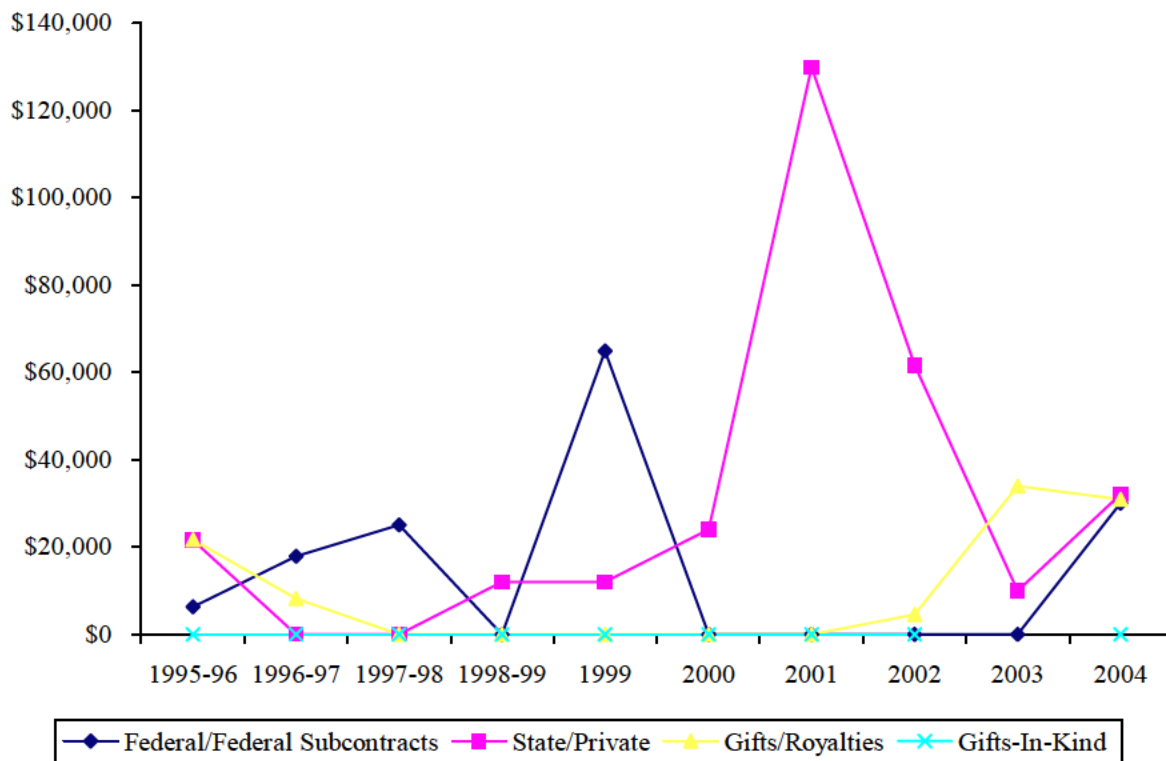
Department	# of Proposals Submitted	# of Awards	Dollars Awarded
Academic Internship	2	2	\$15,786
Admissions & Records	0	0	\$0
Associate Academic Vice President	2	2	\$62,000
Center for Instructional Design	0	0	\$0
Church Educational System	0	0	\$0
Faculty Center	0	0	\$0
General Education & Honors	0	0	\$0
Harold B. Lee Library	0	0	\$0
Information Technology Services	0	0	\$0
Jacobsen Center	0	0	\$0
Media Services	0	0	\$0
Technology Transfer	1	0	\$0
University Accessibility Center	0	0	\$0
University Computing Services	0	0	\$0
TOTALS	5	4	\$77,787

Proposals Submitted



External Research Funding (All Sources)

Year	Grants/Contracts		Gifts/Royalties	Gifts-In-Kind	Total
	Federal/Federal Subcontracts	State/Private			
1995-96	\$6,214	\$21,500	\$21,706	\$0	\$49,420
1996-97	\$17,871	\$0	\$8,257	\$0	\$26,128
1997-98	\$25,000	\$0	\$0	\$0	\$25,000
1998-99	\$0	\$12,000	\$0	\$0	\$12,000
1999	\$64,875	\$12,000	\$0	\$0	\$76,875
2000	\$0	\$24,000	\$0	\$0	\$24,000
2001	\$0	\$129,916	\$0	\$0	\$129,916
2002	\$0	\$61,600	\$4,528	\$0	\$66,128
2003	\$327,250	\$10,000	\$33,973	\$0	\$371,223
2004	\$30,000	\$32,000	\$30,969	\$0	\$92,969



Non-College Units 2004 Awards

<u>PI</u>	<u>Co-PI</u>	<u>Sponsor</u>	<u>Title</u>	<u>Start Date</u>	<u>End Date</u>	<u>Type</u>	<u>Amount</u>	<u>N/C</u>
<i>Associate Academic Vice President</i>								
Astle, Lynn		Utah State COE	Market Consultants for COE Centers	07/01/04	06/30/05	3	\$32,000	C
Maddox, Matt		NSF	NSF Fellowships	09/01/04	08/30/05	1	\$30,000	N
<i>Academic Internship</i>								
Chamberlain, Adrienne	w/Wilson, Laurie	Utah Commission on Volunteers	Americorps	07/01/04	06/30/05	2	\$7,893	N
Gettys, Alicia	w/Wilson, Laurie	Utah Commission on Volunteers	Americorps	07/01/04	06/30/05	2	\$7,893	N

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

N/C: N=New; C=Continuing

Department Totals

Academic Internship	\$15,786
Admissions & Records	\$0
Associate Academic Vice President	\$62,000
Center for Instructional Design	\$0
Church Educational System	\$0
Faculty Center	\$0
General Education & Honors	\$0
Harold B. Lee Library	\$0
Information Technology Services	\$0
Jacobsen Center	\$0
Media Services	\$0
Technology Transfer	\$0
University Accessibility Center	\$0
University Computing Services	\$0
College Total:	\$77,787

Non-College Units Source Breakdown of Grants and Contracts

Sponsor	Number Awarded	Total Amount
Federal		
NSF	1	\$30,000
<i>Total</i>	1	\$30,000
 Subcontracts		
None		
<i>Total</i>		
 State		
Utah State COE	1	\$32,000
<i>Total</i>	1	\$32,000
 Private		
<i>Total</i>		



Administrative Support of Compliance Committees & Regulations

Compliance and Certification

There are a number of federal, state, and university regulations which are intended to ensure the safety and well being of those associated with research and creative activities at academic institutions.¹ The Office of Research and Creative Activities specifically supports three university committees and provides other certifications as needed. The following pages contain a record of official actions taken by these committees during the January 2003 through December 2003 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 2003 membership and activities are on subsequent pages.

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

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

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

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

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

The Institutional 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:



The action of the IACUC committee for 2004 are summarized by the following table.

IACUC Protocol Activity 2004

College	New Approvals	Continuing	Pending
[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:



There were five new projects reviewed and twenty-two annual reviews done by the BioSafety Committee during the 2004 year.



Faculty Recognition

Faculty Recognition

Each year the Office of Research and Creative Activities honors one or more faculty who have furthered the progress of research at BYU. Their accomplishments may be in development of their own sponsored research projects or in service to others in support of research.

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

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

ORCA

<i>Year</i>	<i>Recipient</i>
2004	David G. Long
2003	Gary Hooper
2002	Michael Bush
2001	Richard L. Rowley

Intellectual Properties

<i>Year</i>	<i>Recipient</i>
2004	Tracy Nelson Carl Sorensen
2003	Norm Jones James Nelson Alan Zundel
2002	David Jensen
2001	Steve A. Fleming Larry L. Howell Paul B. Savage

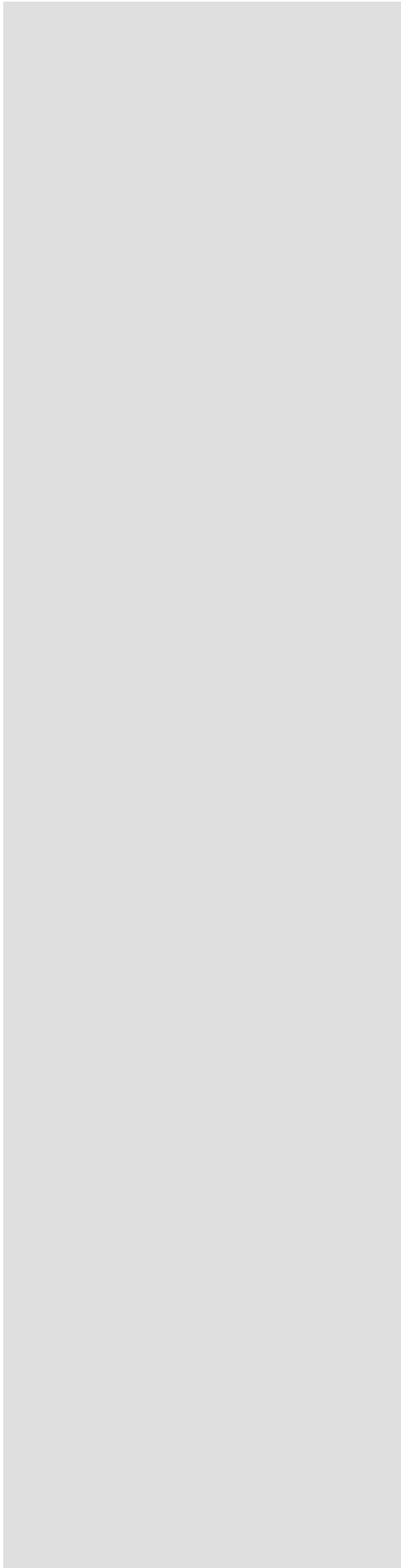
2004 Environments for Mentoring Grant Recipients

The grant proposals are first reviewed at the department and college levels. Following those reviews, a group of faculty representing various disciplines across campus give 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>Title</u>	<u>Dept</u>	<u>College</u>
Richard W Baumann	Publishing Intern--Western North American Naturalist	IB	B&A
Keith Alan Crandall	Hierarchically Mentored Research in Molecular Systematics and Bioinformatics	IB	B&A
Kent Allen Hatch	Use of stable isotopes in ecological research on invertebrates and birds. The continued study of the behavior, movement and wintertime ecology of spotted frogs.	IB	B&A
Leigh A Johnson	Plant systematics at the species level: research mentoring for undergraduate students.	IB	B&A
David A McClellan	Design, development, testing, and implementation: Holistic bioinformatics mentoring in a loosely hierarchical team environment	IB	B&A
Steven L Peck	Tardigrade	IB	B&A
Russell Ben Rader	Developing a New Technique to Classify Watersheds	IB	B&A
Jack W Sites	Evolutionary Genetics of Reptiles - Mentoring BYU Undergraduate Students (renewal)	IB	B&A
Michael F Whiting	A Hierarchical Mentorship Experience in the Phylogeny of Insects	IB	B&A
Donald P Breakwell	Community Analysis As An Indicator of Microbial Genetic and Metabolic Islands in the Great Salt Lake	M&MB	B&A
Alan R Harker	Environmental Gradients and Microbial Biodiversity in the Great Salt Lake	M&MB	B&A
Byron Kerr Murray	Mentoring in the pathogenesis of human disease	M&MB	B&A
Kim L O'Neill	A Novel Approach to Assessing the Metastatic Potential of Cancer Cells	M&MB	B&A
Richard A Robison	The Pathogenesis and Genetics of Mycobacterium ulcerans, the Etiologic Agent of Buruli Ulcer	M&MB	B&A
Merrill J Christensen	Mechanisms of Se modification of NF-kappaB activation in prostate cancer cells	ND&FS	B&A
Robert T Davidson	Energy Balance and Body Composition Simulator	ND&FS	B&A
Phil S Allen	Simplified Soil Fertility Testing for Use in Developing Countries	P&AS	B&A
Craig Eliot Coleman	Molecular Biology and Genetics of Chenopodium quinoa	P&AS	B&A
Peter J Maughan	The Quinoa Genetic Resources Project: Identification of genetic factors controlling biochemical components in quinoa seeds	P&AS	B&A
Mikel Ross Stevens	Mentoring Students Utilizing Cutting-Edge Diversity Array Technology (DArT) to Study the Quinoa Genome	P&AS	B&A
Richard Ellis Terry	The Application of Geographic Information Technologies and Soil Science Methods to the Search for Ancient Maya Agricultural Fields	P&AS	B&A
David Busath	Analysis of Influenza A M2 Protein Structure and Function	P&DB	B&A
Allan M Judd	Hypothalamic -Pituitary-Adrenal Axis: Regulation by Bacterial and Viral Products and Role In Development of Blood Pressure Regulation	P&DB	B&A
David Lee Kooyman	Develop Sequence Characterized Amplified Regions (SCARs) for Spontaneous Cardiomyopathy (Round Heart Syndrome) in Turkeys	P&DB	B&A
Michael Robert Stark	Wnt signaling in vertebrate embryogenesis: stem cell maintenance vs. cellular differentiation	P&DB	B&A
William W Winder	Targeting of AMP-activated Protein Kinase for treatment of Type 2 Diabetes	P&DB	B&A
Dixon John Woodbury	Molecular Reconstitution Of Neurotransmitter Release	P&DB	B&A
Barbara Culatta	Systematic and Engaging Early Literacy Instruction	A&SLP	EDUC
Christopher D Dromey	Correlations between lip shapes and tongue contact patterns	A&SLP	EDUC
Stephanie Allen	Creating a Mentoring Environment to Develop An Interpretation Training Program for Church Interpreters	IP&T	EDUC
Dillon K Inouye	Restoring the Ethical Foundations of Instructional Design and Technology	IP&T	EDUC

Kendra Maria Hall	Building the Basics of Comprehension Instruction in the Early Childhood Classroom	TED	EDUC
Stefinee E Pinnegar	Utilizing Mentored Environments to Develop and Study Problem-Based Learning	TED	EDUC
Annela Teemant	Evaluating Learning Outcomes in a Teacher Development Program	TED	EDUC
William S Guthrie	Chemical Stabilization of Frost Susceptible Soils for Pavement Construction	CEEN	E&T
Everett James Nelson	Watershed Modeling Collaboration in Central Mexico	CEEN	E&T
Kyle Rollins	Earthquake Response of Deep Foundations	CEEN	E&T
James K Archibald	A Satisficing Multi-Agent Approach to Air Traffic Control	ECEN	E&T
Aaron R Hawkins	Undergraduate Micro-fabrication Mentoring Environment	ECEN	E&T
Jeffrey P Bons	Gas Turbine Basic Research Center	MECHE	E&T
R Brent Adams	Mentored 3D animation	TECH	E&T
J Robert Walz	Wheelchairs to Peru	COMM	FA&C
Arden J. Hopkin	Brazilian Art Song Project	MUSC	FA&C
Mary Farahnakian	Preservation and Electronic Cataloging of BYU Historic Clothing Collection	TMA	FA&C
George D Nelson	The Creation of a Documentary History of Youth Theatre in the USA	TMA	FA&C
Val W Brinkerhoff	'Sacred Places & Symbols: Europe'	VA	FA&C
Marian Wardle	Thoroughly Modern: the ¿New Women¿ Art Students of Robert Henri	MOA	FA&C
Joel C Janetski	Public Archaeology in Escalante, Utah	ANTHRO	FH&SS
Richard H Jackson	Land Use Planning to Preserve Wetlands in the Shanghai, China Metropolitan Area	GEOG	FH&SS
Scott Cooper	Great Power Currency Zones and foreign Policy Outcome	POLISCI	FH&SS
Gary C Bryner	Historical Dictionary of Environmentalism	POLISCI	FH&SS
Richard Dana Davis	Candidate Use of the Internet for Voter Mobilization	POLISCI	FH&SS
Julianne Holt-Lunstad	The Impact of the Quality of our Social Relationships on Health	PSYCH	FH&SS
Scott Steffensen	Neuropsychology Lab Rotations	PSYCH	FH&SS
Randal D Day	Re-Entry of Incarcerated Fathers into Family Life in the United Kingdom	SFL	FH&SS
Ross A Flom	Neural bases of multisensory perception in adults and infants	SFL	FH&SS
Mikaela J Dufur	Studying the Reporting Definitions and Antecedents of School Dropout: A Partnership with the Provo School District	SOC	FH&SS
Tim Braley Heaton	Couple Decision Making, Nutrition, and Children's Health in Latin America	SOC	FH&SS
Mark LeRoy Grover	The LDS Church in Brazil	HBLL	HBLL
Rebecca W Phillips	Developing Dance Artists: Mentoring Students Through the Choreographic Process and Performance of Extrovertical for the American College Dance Festival	DANCE	H&HP
Raymond Delbert Robinson	Dance, Philosophy, and Film	DANCE	H&HP
Kirk A Dearden	Improving Nutrition, Saving Lives: Understanding the Nutrition Transition in Asia	HSCI	H&HP
Iain Hunter	Technique Analysis of Elite Track and Field Steeplechasers	EXSC	H&HP
Pat Roy Vehrs	Efficacy of The LIFT America Strength Training Program in US Public Schools	EXSC	H&HP
Mark Alan Widmer	The effects of challenging outdoor recreation on academic efficacy and family strength among disadvantaged youth and families	RM&YL	H&HP
Mark Arlenn Peterson	Korean grammatical affixes	A&NEL	HUM
Matthew Farr Wickman	Aesthetic Geometry: Dynamics of Non-Linear Space in Eighteenth-Century Lyric Poetry	ENG	HUM
Scott M Sprenger	A Complete Bibliography of Works on Eug•ne Ionesco	F&I	HUM
Anca Sprenger	Mircea Eliade Pr	F&I	HUM
Michelle Stott James	Sophie: A Digital Library and Resource Center for Early German-Speaking Women;s Works 1740- 1923	G&SL	HUM
Wendy Baker	Utah English Project	LING	HUM
Charles Ray Graham	Speech Technology and Language Pedigogy Project	LING	HUM
Lynn E Henrichsen	International Teaching English to Speakers of Other Languages Internship/Service Learning Volunteer Program	LING	HUM
Dale Joseph Pratt	Spanish Golden Age Theater and K-12 Outreach	S&P	HUM
W Cole Durham	BYU International Center for Law and Religion Studies Summer Research Fellows	LAW	LAW
Douglas L Dean	Feedback Mechanisms for Online Communities	SOA&IS	MSM
Paul Benjamin Lowry	IS Ph.D. prep research environment	SOA&IS	MSM
Kristie K Seawright	Developing Constructs of Entrepreneurial Success in the Informal Economy	BUSM	MSM
Michael Joseph Swenson	New Capital Investments Business Plan	BUSM	MSM
Stephen W Gibson	International Social Entrepreneurship Venture: The Mayan Tree	CFE	MSM

Barbara L Mandleco	Mentoring Student Research Teams in the Family Adaptation to Disability and Chronic Conditions Project	NURS	NURS
Sheri P Palmer	Mentoring for Nurse Leadership at the Bedside	NURS	NURS
Merritt Brooks Andrus	Catalytic, Asymmetric Synthesis of Biologically Active Compounds	CHMBIO	P&MS
Gregory F Burton	Mentoring environment in HIV pathogenesis: HIV cloning and sequencing	CHMBIO	P&MS
Steven L Castle	The synthesis of beta-hydroxy amino acids via novel chiral catalysts	CHMBIO	P&MS
Milton L Lee	Membrane Development for Electromobility Focusing	CHMBIO	P&MS
Paul Bennett Savage	Bioorganic Chemistry Research	CHMBIO	P&MS
Heidi Rebecca Vollmer-Snarr	Explorations in Retinoid Chemistry	CHMBIO	P&MS
Barry M Willardson	Role of Phosducins in G protein Signaling	CHMBIO	P&MS
Adam T Woolley	Undergraduate Mentoring in Miniaturizing Chemical Analysis Systems	CHMBIO	P&MS
Michael A Goodrich	UAV Enabled Rural Search and Rescue	CS	P&MS
Eric G Mercer	Software Model Checking using GDB	CS	P&MS
Brooks Bradley Britt	The Cretaceous-Tertiary boundary in Utah.	GEOL	P&MS
Scott Alan Glasgow	Macroscopic Energy Allocation, Transport and Thermodynamics of Dispersive/Dissipative Dielectrics, and Dispersive System Identification/Reduction	MATH	P&MS
Denise M Halverson	Undergraduate Research in Geometric Measure Theory	MATH	P&MS
Robert Clinton Davis	Nanoscale Electrical and Optical Materials Mentoring	P&A	P&MS
Dallin S Durfee	Laser Cooling and Atom Interferometry Research Team Mentoring Environment	P&A	P&MS
Joseph Ward Moody	Remote Astronomical Observations of Variable Objects at Lytle Ranch	P&A	P&MS
Justin Bruce Peatross	High-Intensity Laser Physics	P&A	P&MS
Richard R Vanfleet	High Resolution Transmission Electron Microscopy mentoring environment	P&A	P&MS
Howard B Christensen	Archiving Exit Poll Data Sets	STAT	P&MS
Keith J Wilson	From Keystone to Cobblestone: Tracing the Changing Status of the Book of Mormon in the RLDS Church	AS	REL
Richard Edmond Bennett	In the Year of Our Lord, 1820	CH&D	REL
Roger Minert	German Immigrants in American Church Records	CH&D	REL
Dennis Albert Wright	The Common School of Kirtland, Ohio 1831-1838	CH&D	REL



Student Recognition

2004 Undergraduate Scholarship 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 \$1,500 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>).

Department

Accountancy and Information Systems
 Accountancy and Information Systems
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 Ancient Scripture
 Ancient Scripture
 Anthropology
 Anthropology
 Anthropology
 Anthropology
 Anthropology
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 Anthropology
 Anthropology
 Asian and Near Eastern Languages
 Asian and Near Eastern Languages
 Asian and Near Eastern Languages
 Asian and Near Eastern Languages
 Asian and Near Eastern Languages
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 Asian and Near Eastern Languages
 Audiology and Speech-Language Pathology
 Business Management
 Center for Language Studies
 Chemical Engineering
 Chemical Engineering
 Chemical Engineering
 Chemical Engineering
 Chemical Engineering
 Chemical Engineering
 Chemical Engineering
 Chemistry & Biochemistry

Recipient

Shannon Detling
 David Olsen
 Gregory Packer
 Kevin Rasmussen
 David Wood
 William Hamblin
 Tyson Yost
 Samantha Bonser
 John Edvalson
 Douglas Farr
 Tyler Gibb
 Jacob Hickman
 Janet Perkins
 HollyRaymond
 Cynthia Young
 Randy Braegger
 Paul Cheesman
 Joseph Donaldson
 David Duerden
 Anna Kearl
 David Nielsen
 Rachel Seely
 Melanie Javid
 Ryan Walker
 Laura Knight
 Bradley Bundy
 Michael Choi
 Eric Halpenny
 Gregory Hatch
 Cody Nelson
 Benjamin Ohran
 Taylor Turner
 Sean Brady

Faculty Mentor

Fielding Burton
 Conan Albrecht
 Theodore Christensen
 Theodore Christensen
 Douglas Prawitt
 David Seely
 Thomas Wayment
 Marti Allen
 Julie Hartley
 Julie Hartley
 William Olsen
 Edwin Andrus
 William Olsen
 David Johnson
 Marti Allen
 Masakazu Watabe
 Stephen Ricks
 George Perkins
 Robert Belnap
 Bruce Grant
 Mark Peterson
 Stephen Ricks
 Martin Fujiki
 Kristie Seawright
 Michael Bush
 Larry Baxter
 Larry Baxter
 Larry Baxter
 Larry Baxter
 Calvin Bartholomew
 Larry Baxter
 William Pitt
 Paul Savage

Chemistry & Biochemistry	Blair Brown	Earl Woolley
Chemistry & Biochemistry	Eric Burgon	Gregory Burton
Chemistry & Biochemistry	Scott Burt	Randall Shirts
Chemistry & Biochemistry	D Joshua Cameron	Heidi Vollmer-Snarr
Chemistry & Biochemistry	Chadwell, Matthew O	Paul Savage
Chemistry & Biochemistry	Christopher Cherry	Gregory Burton
Chemistry & Biochemistry	Sierra Dabell	Heidi Vollmer-Snarr
Chemistry & Biochemistry	Marcus Donaldson	Juliana Boerio-Goates
Chemistry & Biochemistry	Ryan Earp	Steven Graves
Chemistry & Biochemistry	Benjamin Farnsworth	Gregory Burton
Chemistry & Biochemistry	Craig Gurney	Simmons, Daniel L
Chemistry & Biochemistry	Joseph Hill	Burton, Gregory F
Chemistry & Biochemistry	Gayathri Iyer	Matthew Linford
Chemistry & Biochemistry	Aaron Johnson	Randall Shirts
Chemistry & Biochemistry	Carl Jones	Matt Peterson
Chemistry & Biochemistry	Aaron Lewis	Gregory Burton
Chemistry & Biochemistry	David Michaelis	Paul Savage
Chemistry & Biochemistry	Thomas Orsak	Paul Savage
Chemistry & Biochemistry	Alexander Parent	Steven Fleming
Chemistry & Biochemistry	Quinn Peterson	John Lamb
Chemistry & Biochemistry	Stephen Petty	Marvin Kuchar
Chemistry & Biochemistry	McKenzie Pew	Heidi Vollmer-Snarr
Chemistry & Biochemistry	Tiffany Sabin	Barry Willardson
Chemistry & Biochemistry	Katharina Schneiber	John Lamb
Chemistry & Biochemistry	Martin Sheridan	John Lamb
Chemistry & Biochemistry	Matthew Sparks	Heidi Vollmer-Snarr
Chemistry & Biochemistry	Jeffrey Stephens	Merritt Andrus
Chemistry & Biochemistry	Jeffrey Swallow	Heidi Vollmer-Snarr
Chemistry & Biochemistry	Jedediah Walker	John Lamb
Church History and Doctrine	Gilbert Bradshaw	Fred Woods
Church History and Doctrine	Christopher Gibson	Dennis Wright
Church History and Doctrine	Derek Mock	Craig Manscill
Church History and Doctrine	Byron Peacock	Richard Holzapfel
Civil and Environmental Engineering	Brandon Blankenagel	William Guthrie
Civil and Environmental Engineering	Tyler Evans	David Jensen
Civil and Environmental Engineering	Ana Paz	Everett Nelson
Civil and Environmental Engineering	Keith Woffinden	William Guthrie
Communications	Marie Davies	Dean Paynter
Communications	Walter Gong	Bradley Rawlins
Communications	David Hansen	Daniel Stout
Communications	Christopher Layton	Daniel Stout
Communications	Rachel Sego	Kenneth Plowman
Communications	Michael Westover	Quint Randle
Communications	Marissa Widdison	Joey Campbell
Computer Science	Richard Carlson	Kent Seamons
Computer Science	Joshua Gustafson	Robert Burton
Computer Science	Steven Hulet	Sean Warnick
Computer Science	Matthew Maxwell	Kenneth Rodham
Computer Science	Nathaniel Powell	Quinn Snell
Computer Science	Neha Rungta	Eric Mercer

Computer Science	Thorbergur Sigurjonsson	Sean Warnick
Computer Science	Qing Xia	Bryan Morse
Counseling Psychology and Special Education	Denise Albino	Timothy Smith
Counseling Psychology and Special Education	Brenda Dean	Timothy Smith
Counseling Psychology and Special Education	Jared Durtschi	Timothy Smith
Counseling Psychology and Special Education	Suzanne Floyd	Timothy Smith
Counseling Psychology and Special Education	Christopher Silva	Timothy smith
Counseling Psychology and Special Education	Momoko Yamashita	Timothy Smith
Dance	Elizabeth Ellsworth	Susanne Davis
Dance	Jeffrey Jacobs	Caroline Prohosky
Dance	Bryce Shelley	Susanne Davis
Economics	Scott Murdock	Mark Jensen
Economics	Richard Snow	Kerk Phillips
Economics	Theron Toler	Farrell Jensen
Educational Leadership and Foundations	Brandon Dean	MacLeans Geo-JaJa
Educational Leadership and Foundations	Angelica Hagman	Donald Holsinger
Educational Leadership and Foundations	Brent Little	A Legrand Richards
Educational Leadership and Foundations	Jacquelyn Skinner	Julie Hite
Electrical and Computer Engineering	Jordan Anderson	Doran Wilde
Electrical and Computer Engineering	Donald Conkey	Aaron Hawkins
Electrical and Computer Engineering	Benjamin Green	Aaron Hawkins
Electrical and Computer Engineering	Justin Henrie	Aaron Hawkins
Electrical and Computer Engineering	Joshua Kvavle	Aaron Hawkins
Electrical and Computer Engineering	Ghassan Sanber	Aaron Hawkins
Electrical and Computer Engineering	Jason Tanner	Craig Petrie
English	Landon Cowan	Dennis Cutchins
English	Greg Erikson	Matthew Wickman
English	James Gilchrist	Glen Cooper
English	Benjamin Johnson	John Talbot
English	Brittany Jones	Gideon Burton
English	Kristy Money	Zina Petersen
English	Thomas Robinson	Edward Cutler
English	Roland Webb	Trenton Hickman
English	Kara Wheeler	Jill Rudy
Exercise Sciences	Kimberly Leavitt	David Kaiser
Exercise Sciences	Brady Whetten	Kenneth Knight
French and Italian	Lacie Parker	Cinzia Noble
French and Italian	Anna Siebach	Jesse Hurlbut
French and Italian	Joel Washburn	Cinzia Noble
Geography	Stephen Alfandre	Richard Jackson
Geography	David Gray	Richard Jackson
Geography	Brian Latta	Matthew Bekker
Geography	Joseph Leavitt	Chad Emmett
Geology	Brent Greenhalgh	Brooks Britt
Geology	Elizabeth Hunter	Alan Mayo
Geology	Samuel Sorber	Thomas Morris
Germanic and Slavic Languages	Melanie Antuna	Robert McFarland
Germanic and Slavic Languages	Sarah Kemeny	Brewer, Cindy P
Germanic and Slavic Languages	Paul Kraczek	James Lyon
Germanic and Slavic Languages	Spencer Montague	Robert McFarland

Germanic and Slavic Languages	Benjamin Peters	Donald Jarvis
Germanic and Slavic Languages	Shane Peterson	James Lyon
Germanic and Slavic Languages	Marat Tukhfatullin	Donald Jarvis
Germanic and Slavic Languages	Ty Turley	Raisa Solovyova
Germanic and Slavic Languages	Brooke Wright	Robert McFarland
Health Science	Jordan Ash	Randy Page
Health Science	Robert Beck	Ray Merrill
Health Science	Katherine Craven	Steven Hawks
Health Science	Staci Garner	Susan Hill
Health Science	Julie Hurt	Kirk Dearden
Health Science	Julianne Stoddard	Ray Merrill
History	Benjamin Johnson	Donald Harreld
History	Jonathan King	Kendall Brown
Humanities, Classics, and Comparative Literature	Julie Frederick	Roger Macfarlane
Humanities, Classics, and Comparative Literature	Nicholas Frederick	Roger Macfarlane
Humanities, Classics, and Comparative Literature	Rachelle Woodbury	Kerry Soper
Instructional Psychology and Technology	Elizabeth Miller	Dillon Inouye
Instructional Psychology and Technology	Mark Oshida	John Okiishi
Integrative Biology	Adam Allred	David McClellan
Integrative Biology	Todd Anderson	Charles Nelson
Integrative Biology	Lance Bastian	Dennis Shiozawa
Integrative Biology	Andre Bennin	Keith Crandall
Integrative Biology	Seth Bybee	Michael Whiting
Integrative Biology	Matthew Carpenter	Keith Crandall
Integrative Biology	Jacob Condon	Mark Belk
Integrative Biology	David Coons	Gary Booth
Integrative Biology	Morgan Crawford	Kent Hatch
Integrative Biology	John Edwards	Keith Crandall
Integrative Biology	James Finlay	Keith Crandall
Integrative Biology	Bethany Fredline	Keith Crandall
Integrative Biology	Christopher Funk	Duke Rogers
Integrative Biology	Yessy Gonzalez	Kent Hatch
Integrative Biology	Raymond Grams	David McClellan
Integrative Biology	Michael Gravett	Kent Hatch
Integrative Biology	Jeremy Joyal	Gary Booth
Integrative Biology	Emily Keller	Keith Crandall
Integrative Biology	Randy Larsen	Jerran Flinders
Integrative Biology	Halim Marrujo	Keith Crandall
Integrative Biology	Mark Nelson	Charles Nelson
Integrative Biology	Jonathan Osborne	Michael Whiting
Integrative Biology	Cynthia Penaflor Diaz	Keith Crandall
Integrative Biology	Mark Peterson	Kent Hatch
Integrative Biology	Ryan Peterson	Keith Crandall
Integrative Biology	James Riordan	Rex Cates
Integrative Biology	Heather Shull	Keith Crandall
Integrative Biology	Cameron Turner	Jack Sites
Integrative Biology	Heather Vernon	David McClellan
Integrative Biology	Steven Woolley	Keith Crandall
Library	Julia Sharp	David Day
Library	John Spilker	David Day

Library	Rachel Wood	David Day
Linguistics and English Language	Melinda Hardman	Charles Graham
Linguistics and English Language	Ryan Huish	Doris Dant
Linguistics and English Language	Malina Nielson	Cynthia Hallen
Linguistics and English Language	Stanley Thayne	Cynthia Hallen
Linguistics and English Language	Camille Van Katwyk	Deryle Lonsdale
Mathematics Education	Joseph Curtis	Robert Speiser
Mathematics Education	Kourtney Peters	Robert Speiser
Mathematics	Adam Rich	Michael Dorff
Mathematics	Jared Whitehead	Michael Dorff
Mechanical Engineering	Brook Bentley	Jeffrey Bons
Mechanical Engineering	Jared Crosby	Jeffrey Bons
Mechanical Engineering	David Olson	Jeffrey Bons
Mechanical Engineering	John Pettitt	Jeffrey Bons
Mechanical Engineering	Robert Rands	Brent Webb
Mechanical Engineering	Daniel Reimann	Jeffrey Bons
Micro and Molecular Biology	Douglas Adolphson	Byron Adams
Micro and Molecular Biology	Eric Ashford	James Jensen
Micro and Molecular Biology	Meredith Bergin	Kim O'Neill
Micro and Molecular Biology	TJ Bliss	Byron Adams
Micro and Molecular Biology	John Chaston	Byron Adams
Micro and Molecular Biology	Adler Dillman	Byron Adams
Micro and Molecular Biology	Daniel Fuja	Kim O'Neill
Micro and Molecular Biology	Anne Gill	William McCleary
Micro and Molecular Biology	Levi Hilton	Byron Adams
Micro and Molecular Biology	Jaehae Hwang	James Jensen
Micro and Molecular Biology	Jason Kinyon	Kim O'Neill
Micro and Molecular Biology	Nyall London Jr	Kim O'Neill
Micro and Molecular Biology	Derek Mitchell	Donald Breakwell
Micro and Molecular Biology	Clinton Morgan	Donald Breakwell
Micro and Molecular Biology	Paul Price	William McCleary
Micro and Molecular Biology	John Singer	Richard Robison
Micro and Molecular Biology	Mark Taylor	William McCleary
Micro and Molecular Biology	Whitney Wheeler	James Jensen
Micro and Molecular Biology	Kyle Winkler	Byron Adams
Music	Carolyn Dehdari	E Harrison Powley
Music	Stephen Fairbanks	Andrew Dabczynski
Music	Caroline Maxwell	Anny Bigelow
Music	Bryson Mortensen	Steven Ricks
Music	Morgan Quigley	Steven Ricks
Nursing	Zaruhi Amoros	Lynn Callister
Nursing	Meredith Burt	Catherine Coverston
Nursing	Karen Duke	Lynn Callister
Nursing	Dustin Griner	Catherine Coverston
Nursing	Aimee Latta	Barbara Mandleco
Nursing	Sveta Tolmachova	Lynn Callister
Nursing	Jaclyn Wood	Barbara Mandleco
Nutrition, Dietetics and Food Science	Jonathan Rowe	Frost Steele
Organizational Leadership and Strategy	Kevin Gamett	Randy Johnson
Organizational Leadership and Strategy	Lee Lewis	Kristen DeTienne

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Plant and Animal Sciences
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Political Science
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Robert Squire
Christopher Thompson
Thomas Butler
Eric Christensen
Michael Clemens
Andrew Davis
Christopher Erickson
Brett Guisti
Marsh, Richard Moyle
Jason Neff
Brian Neyenhuis
David Nutter
Rebecca Olson
Nathan Powers
Richard Sandberg
Micah Shepherd
Kaylee Sill
Michael Sprinkle
Miriam Stevens
Mark Transtrum
Jeffrey Watkins
Richard Watkins
John Wilcox
Deborah Adams
Jared Bailey
Jacob Brinkerhoff
Sergio Cervantes
Joseph Davidson
Matthew D'Haenens
Luke Gessel
Andrew Miner
Jeffrey Moffat
Mario Pinoli
Eric Richardson
Paul Rogers
Melissa Schmidt
Jeffrey Smith
Joseph Walch
Mary Zarkou
Nathan Coles
Rachel Johnston
Carmen Lopez
Tiago Maffei
Paul Nelson
Christian Ricks
Clifford Blair
Mark Champoux
Katherine Chipman
Collins Clark
David Hansen

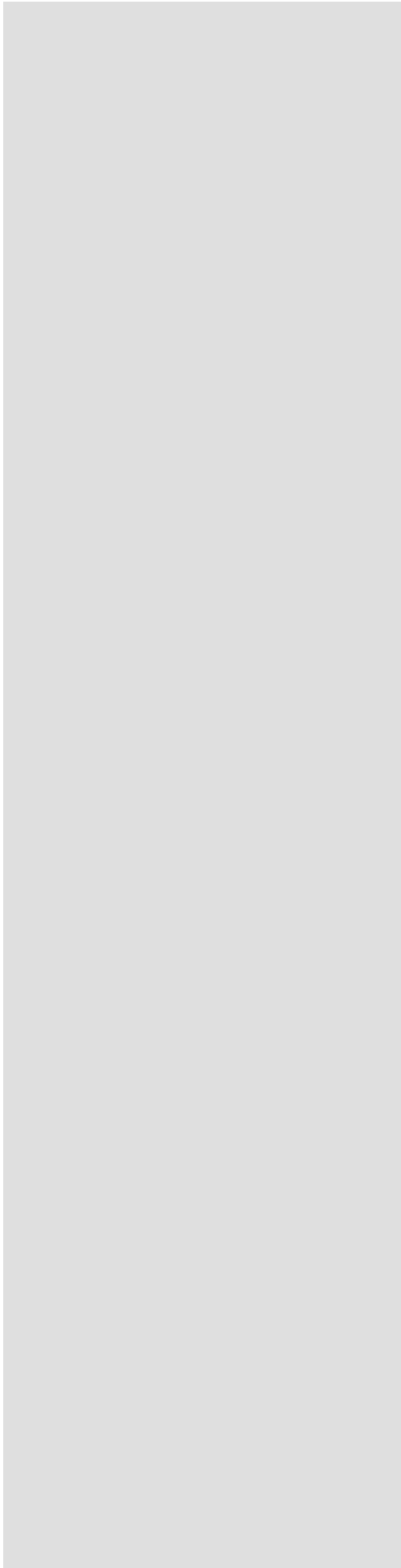
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Warner Woodworth
William Evenson
Justin Peatross
Robert Davis
Eric Hintz
Dallin Durfee
Branton Campbell
James Lewis
Richard Vanfleet
Dallin Durfee
Timothy Leishman
Dallin Durfee
Justin Peatross
David Allred
Timothy Leishman
Robert Davis
Robert Davis
Clark Christensen
Jean-Francois VanHuele
Branton Campbell
Timothy Leishman
Robert Davis
Dixon Woodbury
Bruce Woolley
Roy Silcox
Judd, Allan M
Bruce Woolley
David Busath
Robert Seegmiller
Allan Judd
David Busath
David Busath
Dixon Woodbury
David Kooyman
Jeffrey Barrow
Robert Seegmiller
Dixon Woodbury
Bruce Woolley
Craig Coleman
Craig Coleman
Richard Terry
Craig Coleman
Peter Maughan
Craig Coleman
Daniel Damron
Matthew Holland
Eric Hyer
Earl Fry
Kirk Hawkins

Political Science	Benjamin Hertzberg	Matthew Holland
Political Science	Jared Ide	Richard Davis
Political Science	Camille Jackson	Wade Jacoby
Political Science	Cindy Otis	Wade Jacoby
Political Science	Peter Sturgeon	Daniel Nielson
Political Science	Deborah Wells	Kendall Stiles
Political Science	Seth Whitaker	Byron Daynes
Psychology	Adam Bevan	Scott Steffensen
Psychology	Brian Bingham	Scott Steffensen
Psychology	Seth Gunderson	Scott Steffensen
Psychology	Adam Howard	Julianne Holt-Lunstad
Psychology	Daniel Hyde	Mark Allen
Psychology	Jeffrey Lee	Gary Burlingame
Psychology	Dalin Pulsipher	Ramona Hopkins
Psychology	Angel Saavedra	Matthew Spackman
Psychology	Lara Schwicht	Gary Burlingame
Psychology	Jared Smith	Gary Burlingame
Psychology	Jeffrey Sparenborg	Scott Steffensen
School of Family Life	Rachel Loser	Edward Hill
School of Family Life	Kimberly Perkins	Shirley Klein
School of Family Life	Leah Schreiner	Shirley Klein
School of Family Life	Matthew Thorpe	Randal Day
School of Social Work	Gerald Cochran	Jini Roby
School of Technology	Bradley Anderson	Stephen Renshaw
School of Technology	Janell Armstrong	Stephen Renshaw
School of Technology	Michael Coleman	Stephen Renshaw
School of Technology	Benjamin Evanko	Kip Christensen
School of Technology	Tyler Monson	Stephen Renshaw
School of Technology	Naomi Nuttall	Jared Berrett
School of Technology	Bryce Ott	Stephen Renshaw
School of Technology	Benjamin Tanner	Stephen Renshaw
School of Technology	Timothy Tucker	Jeffrey Campbell
Sociology	Scott Albrecht	Ralph Brown
Sociology	Amanda Barden	J Lynn England
Sociology	Sarah Bonilla	Kimberlee Holland
Sociology	Lindsay Doles	Marie Cornwall
Sociology	Brock O'Neil	Marie Cornwall
Sociology	Lauren Smith	Bruce Chadwick
Sociology	Maren Trowbridge	Marie Cornwall
Spanish and Portuguese	Emilie Dunn	Douglas Weatherford
Spanish and Portuguese	Aaron Eggleston	Christopher Lund
Spanish and Portuguese	Angela Weech	J Halvor Clegg
Spanish and Portuguese	David Wiseman	Douglas Weatherford
Statistics	Geraldine Madariaga	Shane Reese
Statistics	Michael Stout	Scott Grimshaw
Teacher Education	Michelle McClellan	Kendra Hall
Teacher Education	Tamara Morrill	Merrell Hansen
Teacher Education	Erin Robinson	Merrell Hansen
Teacher Education	Jennifer Wright	Timothy Morrison
Theater Media Arts	Meredith Bak	Dean Duncan

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Drew Barlow
Michelle Clawson
Sylvia Loehndorf
Elizabeth Moss
Robert Nyland
Lucy O'Reilly
Michael Ormond
Anthony Petersen
Keri Rainock
Wilhelm Richter
Joshua Romney
Jana Schurig
Collin Bradford
Ryan Browning
Kesseli Carmichael
Christopher Coy
Daniel Everett
Jethro Gillespie
Kristin Glaus
Becky Grover
Chelsea Hertford
Elizabeth Hiatt
Rebecca Jacobson
Eva Jorgensen
Michael Kemp
Karie Lasson
Erin Linthorst
Allan Ludwig
Sally McDonald
Emily Miller
Trilea Minson
Courtney Peacock
Mary Pratt
Chelsy Smith
Manju Varghese
Andrew Von Harten
Matthew Walker
Molly Williams

Dean Duncan
Eric Samuelson
Eric Samuelson
George Nelson
April Chabries
Megan Jones
Thomas Russell
Thomas Russell
Kelly Loosli
Darl Larsen
Eric Samuelson
Dean Duncan
Peter Everett
Cynthia Finlayson
Paul Adams
Linda Sullivan
John Telford
Joseph Ostraff
Joseph Ostraff
John Telford
Bruce Smith
Peter Everett
Howard Fullmer
Heather Jensen
Val Brinkerhoff
Donna Beattie
Heather Jensen
Peter Everett
Cynthia Finlayson
Heather Jensen
Richard Hull
Martha Peacock
Richard Hull
Bryon Draper
Joseph Ostraff
Val Brinkerhoff
Bryon Draper
William Whitaker



Appendix 1

The Office of Research & Creative Activities

Purpose. The office exists to support students, staff, faculty, and the BYU administration in their efforts to encourage and support research, creative activities, and other expressions of academic scholarship.

Functional Organization. The office is organized to provide service to organized research and creative activities and to provide supportive leadership to such policy matters as appropriate. The office is under the direction of the Associate Academic Vice President for Research and Graduate Studies. The staff consists of a Directory, an Associate Director, a Research Administrator, and office staff.

The office has a close relationship with the Technology Transfer Office and the Creative Works Office for coordination of certain pre-award contacts, with the Accounting Office for post-award grant and contract accounting, and with the Faculty Personnel Office for payment of research compensation.

Personnel.

Title	Personnel
Director:	Gary R. Reynolds
Associate Director:	Melvin J. Carr
Research Administrator:	Nancy A. Davis
Research Administrator:	Matthew D. Maddox
Office Manager/Secretary:	Christiane Crosby
Part-time Secretaries:	Laurie Petty, Jennifer Jackson, Heather Lambson, Jeanette Merrill, Alfreda Tsai

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 Statue or Regulation)

The following pages list those areas where formal compliance to federal statues 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

- Defense Federal Acquisition Regulations

- 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)
- Agency Specific Requirements
 - Certificate of Technical Data Conformity
 - Certification of Accuracy of Indirect Costs
 - Student Unrest
 - NEA Clause on Obscenity