



2002  
Annual Report

Office of  
Research and  
Creative Activities

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

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# Foreword

We are pleased to share with you the Annual Report of the Office of Research and Creative Activities (ORCA). This report highlights the accomplishments of the faculty in sponsored research.

Far more important than these numbers are the result of this research and creativity. The expertise of the faculty is enhanced, the education for our students, in and out of the classroom is one of the best in the country. It is a tribute to the industry of the faculty and their students that such levels are reachable. We have no doubt that the trend will continue.

It is our pleasure and honor to play a small part.

Sincerely,



Gary R. Hooper  
Associate Academic Vice President for  
Research and Graduate Studies



Gary R. Reynolds  
Director  
Office of Research and Creative Activities

# Preface

This report covers January 1, 2002 to December 31, 2002.

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

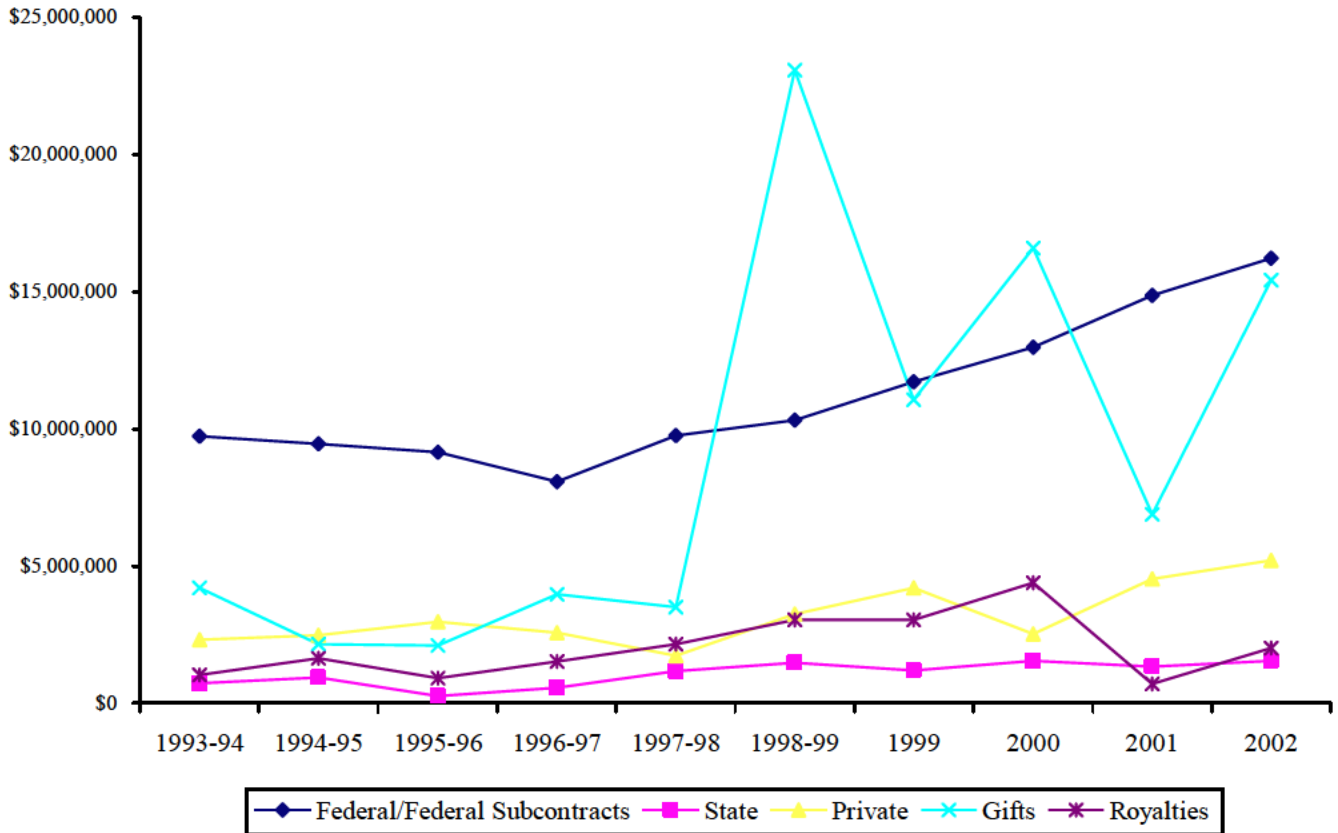
# External Research Funding

## (All sources including gifts, etc.)

Year	Grants/Contracts			Gifts	Royalties	Total	%Federal	
	Federal	Federal Subcontract	State					
1993-94	\$9,735,948	*	\$725,671	\$2,312,545	\$4,208,209	\$1,030,727	\$18,013,100	54%
1994-95	\$9,444,338	*	\$932,071	\$2,473,628	\$2,143,895	\$1,623,881	\$16,617,813	57%
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%

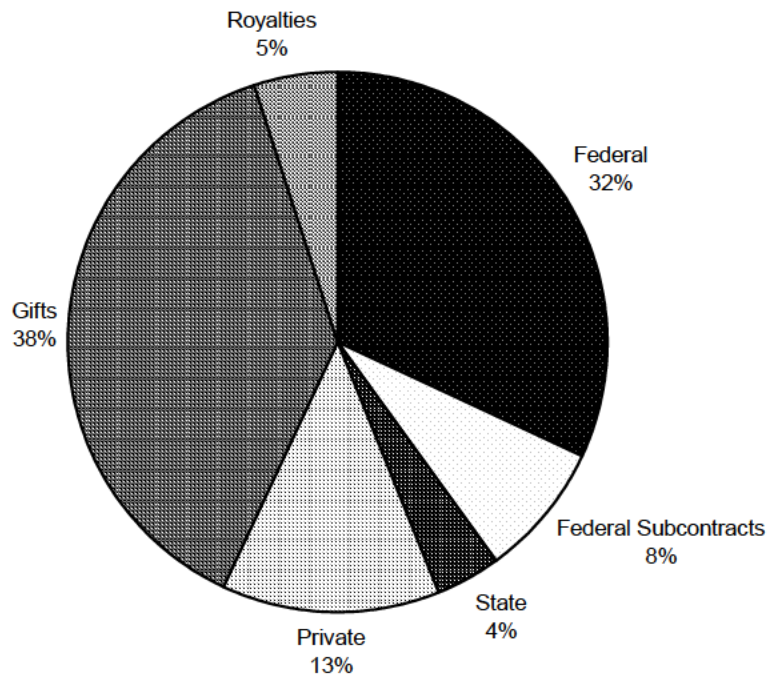
\*Specific figures for these years were not available

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



# External Funds by Source—2002

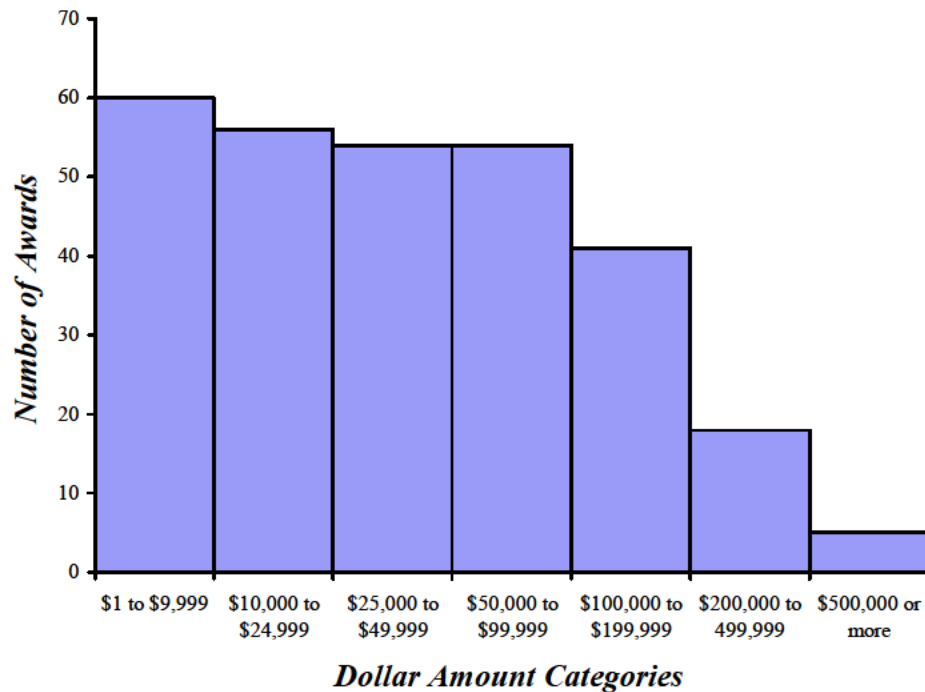
Source	Amount	% of Total
Federal	\$12,942,472	32%
Federal Subcontracts	\$3,271,259	8%
State	\$1,547,471	4%
Private	\$5,210,390	13%
Gifts	\$15,436,981	38%
Royalties	\$2,008,385	5%
<b>Total Funding</b>	<b>\$40,416,958</b>	<b>100%</b>



Federal
  Federal Subcontracts
  State
  Private
  Gifts
  Royalties

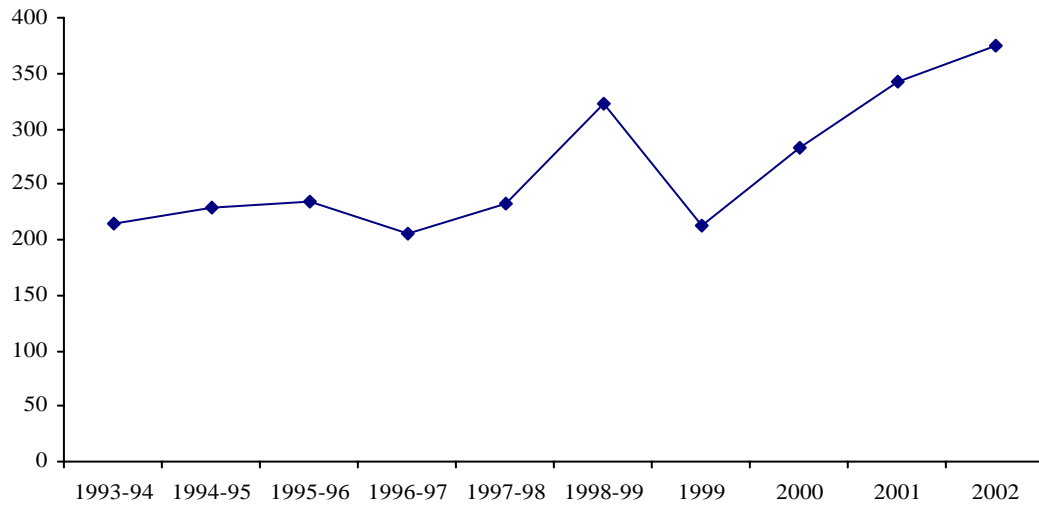
# Grant/Contract Awards by Amount—2002

Dollar Amount Categories	# of Awards	% of Total Awards by #	\$ Awarded	% of Total Awards by \$
\$1 to \$9,999	60	21%	\$272,841	1%
\$10,000 to \$24,999	56	19%	\$857,050	4%
\$25,000 to \$49,999	54	19%	\$1,791,116	8%
\$50,000 to \$99,999	54	19%	\$3,894,936	17%
\$100,000 to \$199,999	41	14%	\$5,784,362	25%
\$200,000 to \$499,999	18	6%	\$5,078,624	22%
\$500,000 or more	5	2%	\$5,292,663	23%
<b>Totals</b>	<b>288</b>	<b>100%</b>	<b>\$22,971,592</b>	<b>100%</b>

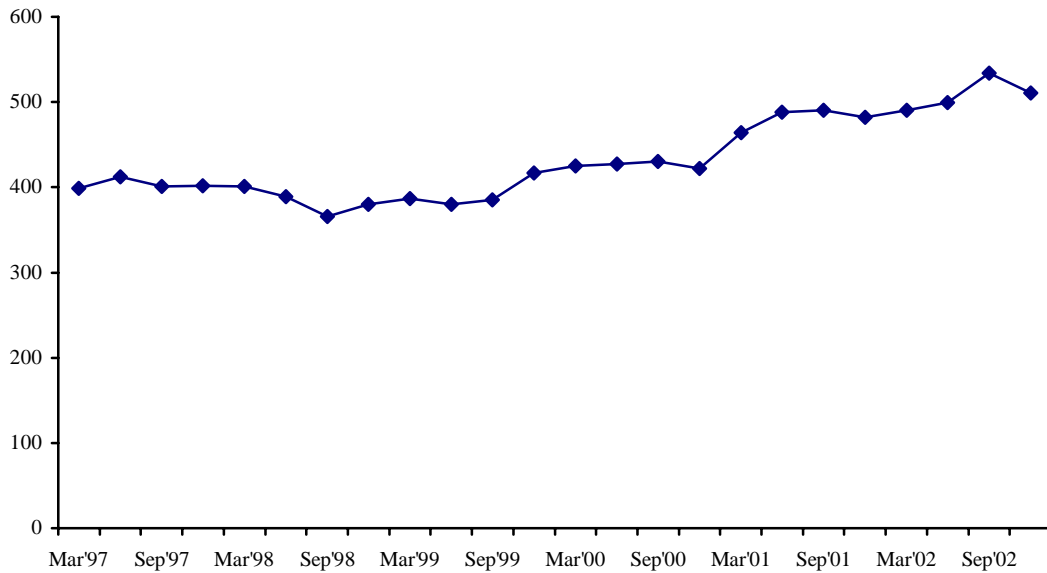




# Proposals Submitted

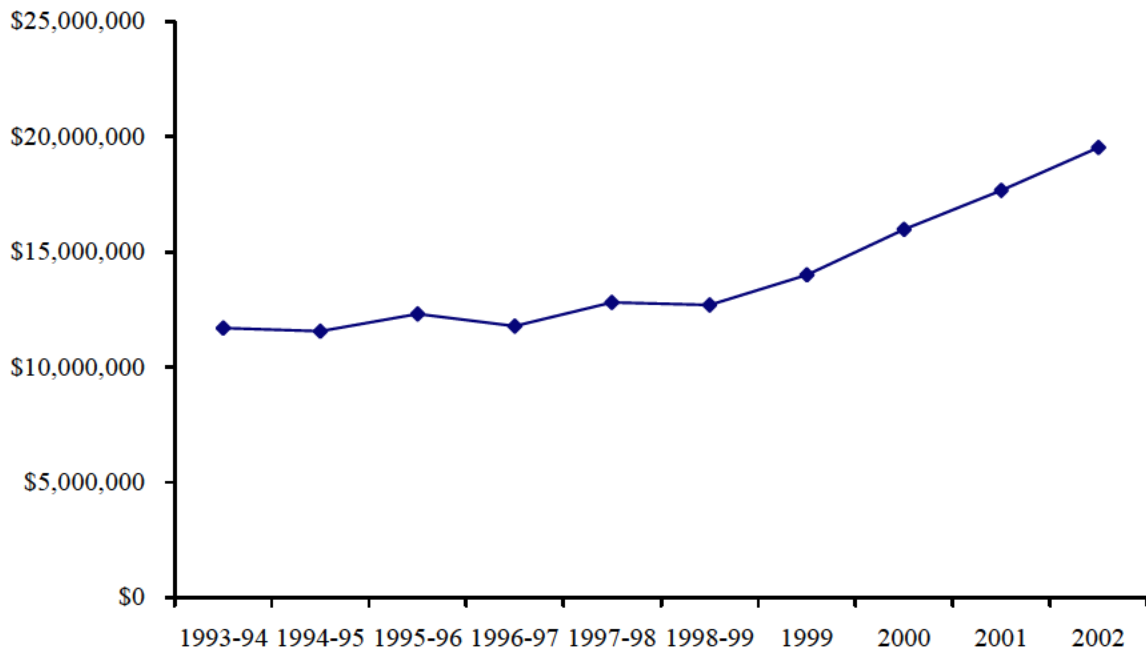


# Active Accounts



# Total Expenditures (Grants and Contracts)

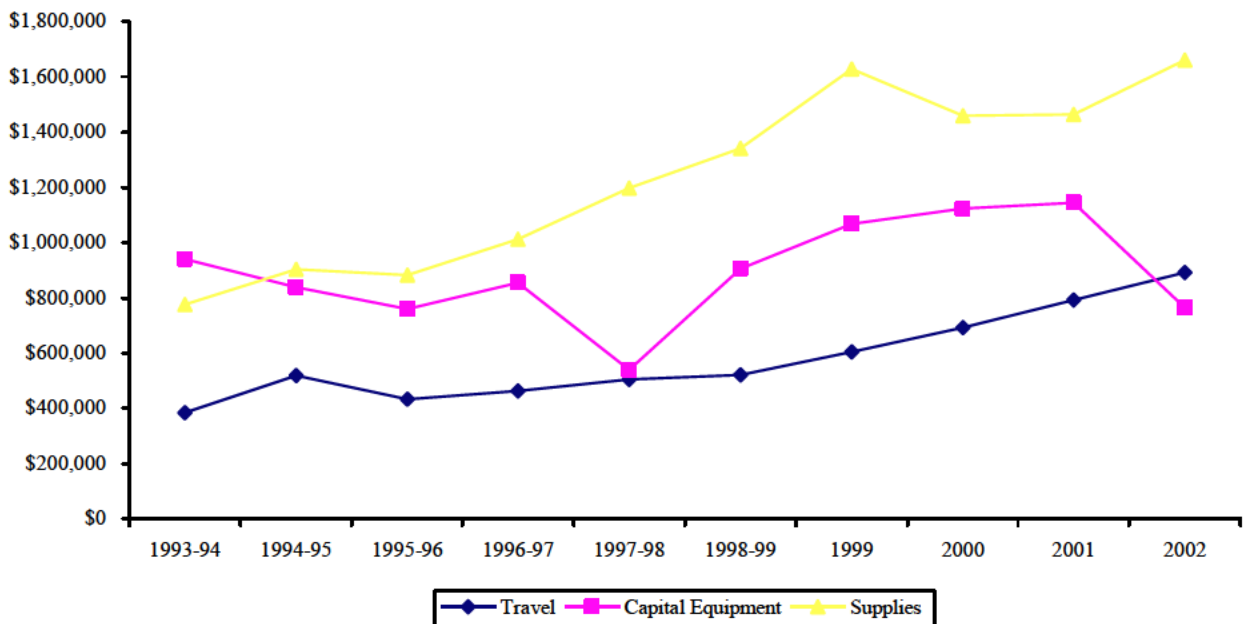
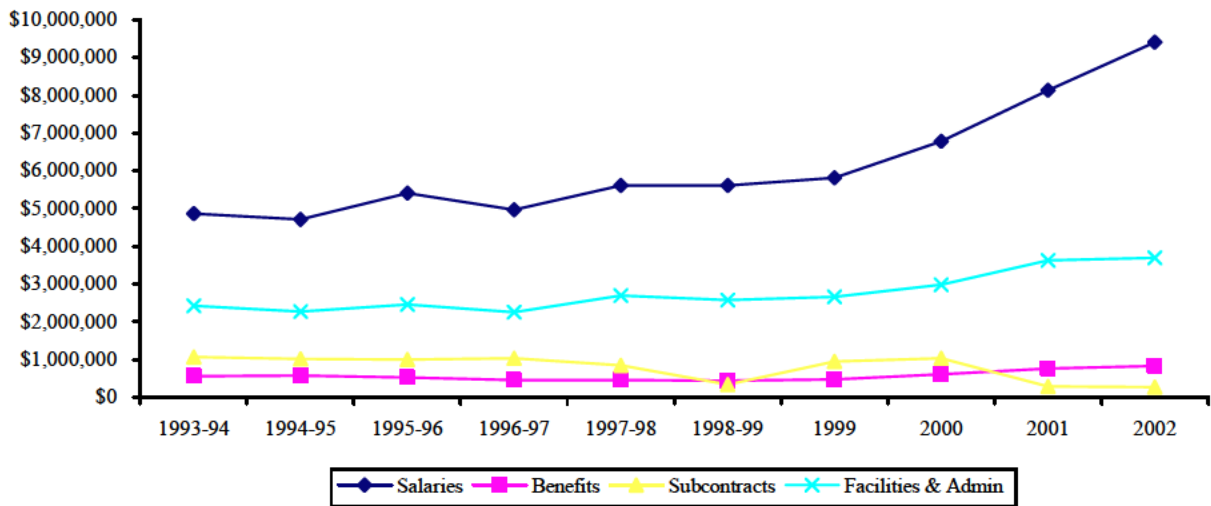
Year	Total Expenditures
1993-94	\$11,687,446
1994-95	\$11,544,199
1995-96	\$12,307,058
1996-97	\$11,779,169
1997-98	\$12,795,126
1998-99	\$12,690,389
1999	\$13,988,008
2000	\$15,966,274
2001	\$17,652,928
2002	\$19,536,264



# 2002 Research Contract/Grant Expenditures by Category

<i>Personnel Costs</i>	<i>Amount</i>
<i>Salaries &amp; Wages</i>	
Administrative Salaries	\$738,524
Faculty Salaries	974,081
Faculty—Spring/Summer	1,518,592
Faculty—Supplemental	389,474
Faculty—Visiting, Foreign, Post Docs	788,225
Part-time Faculty Salaries	163,853
Other Wages	264,330
Staff Salaries	157,255
Student Contracts	1,737,722
Student Wages	2,677,318
<b><i>Total Salaries &amp; Wages</i></b>	<b><u>2,677,318</u></b>
Fringe Benefits	\$826,904
<b><i>Total Personnel Costs</i></b>	<b><u><u>\$10,236,278</u></u></b>
<i>Other</i>	
Advertising	247
Capital Equipment	764,953
Computer Non-Capital Equipment	88,997
Computer Services	57
Conference & Symposium Costs	118,230
Consultants	411,928
Contract Services	429,249
Employee Development/Training	70,385
Equipment Repair & Maintenance	5,989
Facilities & Administration	3,960,717
Facilities Maintenance	1,949
Fellowships	3,000
Hosting, Food, Entertainment	28,526
Non-Computer Non-Capital Equipment	44,028
Postage & Mailing	15,650
Printing & Copying	26,812
Program Income	(59,501)
Purchase Discounts Earned	(115)
Rental Expense	67,679
Research Publications Costs	7,067
Software Purchases	37,760
Student Aid	350,831
Subcontracts	266,588
Supplies	1,659,863
Telecommunications	42,033
Travel	891,181
Utilities	2,882
<b><i>Total Other Expenditures</i></b>	<b><u><u>\$9,299,986</u></u></b>
<b><i>Total Research Expenditures</i></b>	<b><u><u>\$19,536,264</u></u></b>

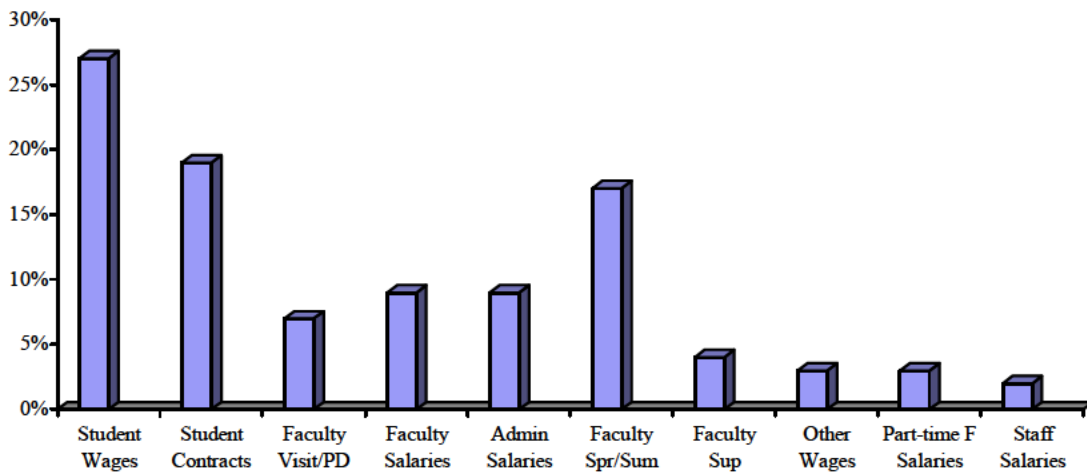
# Research Dollars Expended (Grants and Contracts Only)



# Salary and Wage Expenditures (Grants and Contracts Only)

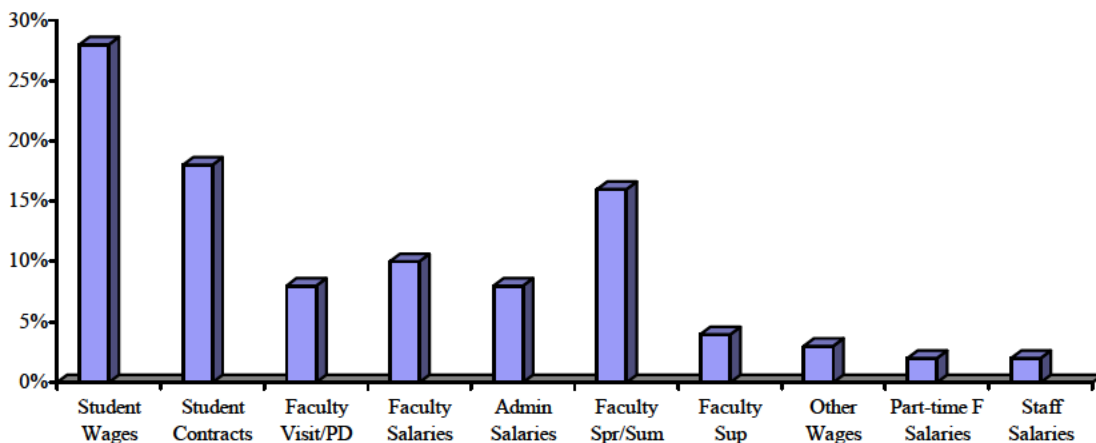
**2001**

**Total: \$8,132,441**



**2002**

**Total: \$9,409,374**

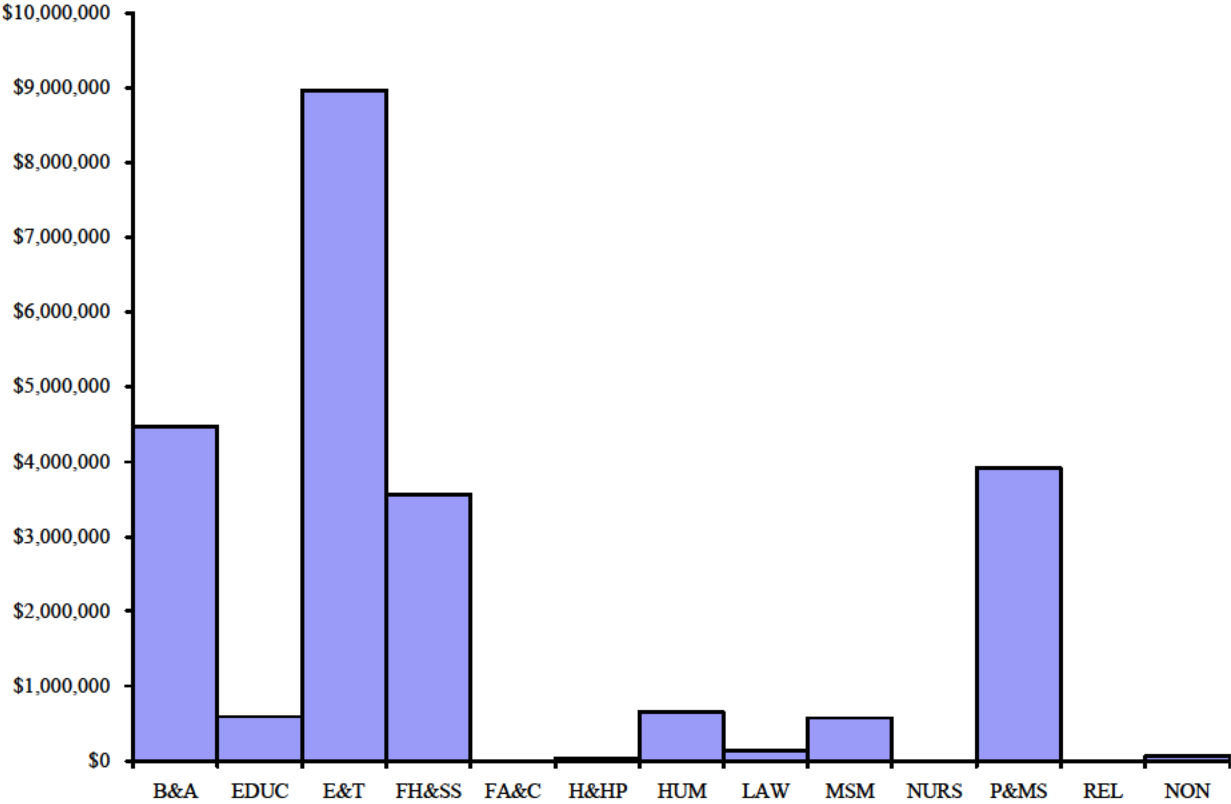




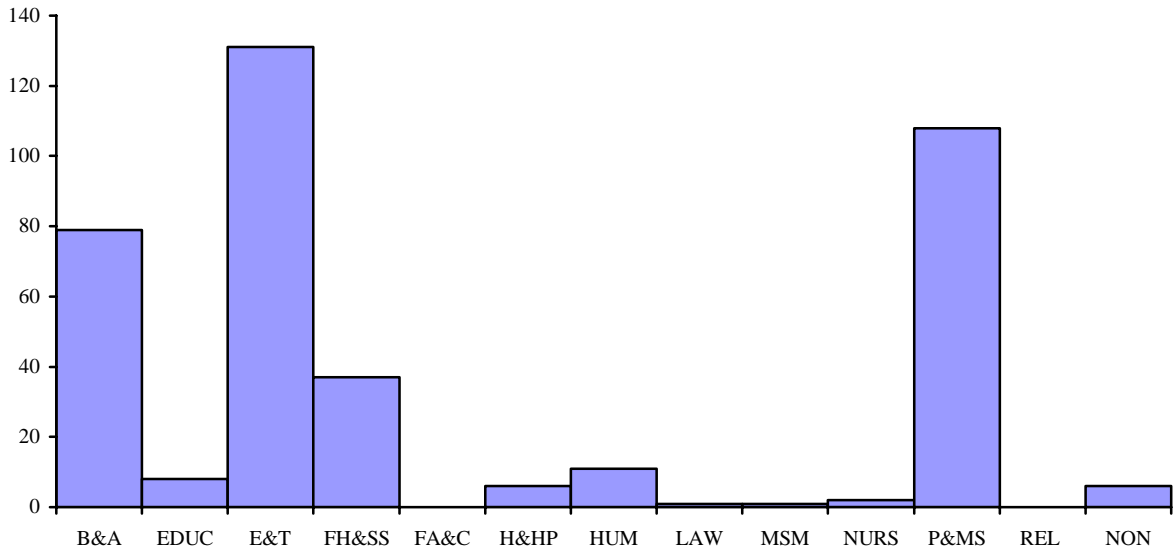
# Information by College or School

# Award Amount Totals 2002

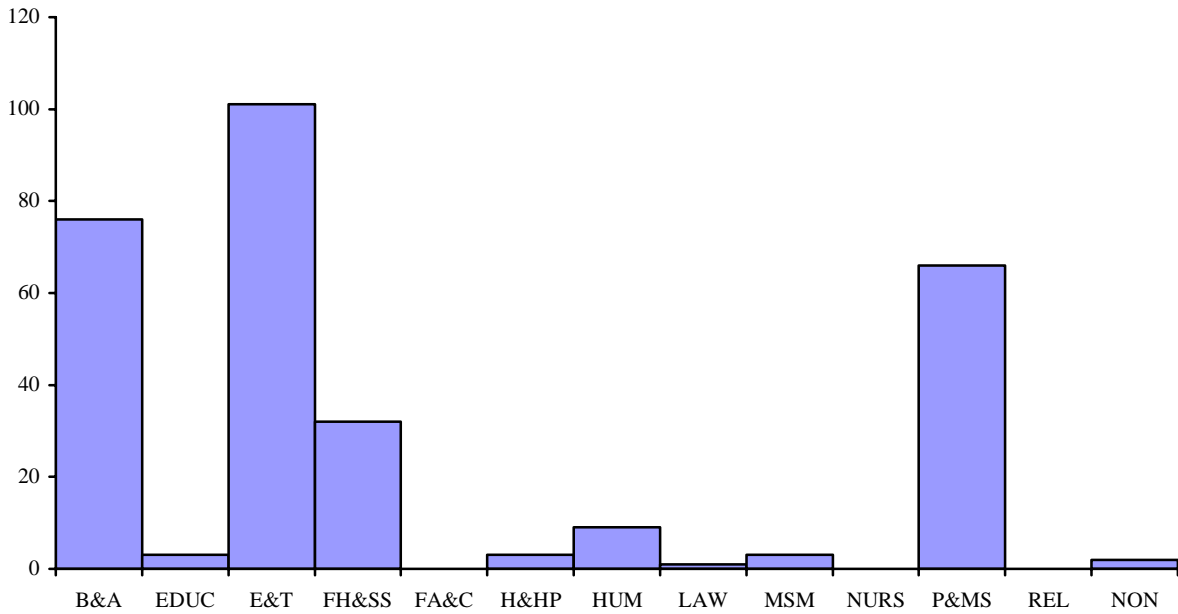
<i>College or School</i>	<i>Total</i>
Biology & Agriculture	\$4,476,861
Education	\$590,209
Engineering & Technology	\$8,976,456
Family, Home & Social Sciences	\$3,560,201
Fine Arts & Communications	\$0
Health & Human Performance	\$38,500
Humanities	\$647,400
J. Reuben Clark Law School	\$133,653
Marriot School of Management	\$570,628
Nursing	\$0
Physical & Mathematical Sciences	\$3,916,100
Religious Education	\$0
Non-College Units	\$61,600
<b><i>University Total</i></b>	<b>\$22,971,608</b>



# Number of Proposals 2002



# Number of Awards 2002





# Research Contract/Grant Expenditures by College and Department 2002

## *College and Department*

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Assoc Academic VP	Royalties-Adm	20,743.57
	Assoc Academic VP Total	\$20,743.57
Biology & Agriculture	Agronomy & Horticulture	136,899.90
	Animal Science	(358,358.76)
	Botany and Range Science	3,961,136.18
	Food Science and Nutrition	147,303.35
	Microbiology	1,365,846.85
	Monte Bean Life Science Museum	45,585.95
	Zoology	(1,996,717.34)
	Biology & Agriculture Total	\$3,301,696.13
Education	Audiology/Speech-Lang Pathology	26,525.09
	Counseling & Special Education	699.40
	Teacher Education	496,471.18
	Education Total	\$523,695.67
Engineering & Technology	ACERC	(17,982.86)
	Chemical Engineering	1,529,945.58
	Civil and Environmental Eng	1,580,080.25
	College of Engineering & Technology	15,000.00
	Electrical and Computer Eng	2,750,361.63
	Manufacturing Eng & Eng Tech	(82,570.11)
	Mechanical Engineering	1,798,378.14
	School of Technology	13,664.08
	Engineering & Technology Total	\$7,586,876.71
Family Home & Social Sciences	Anthropology	128,622.76
	Economics	3,293.59
	Museum of Peoples and Cultures	239,300.53
	Political Science	873,192.02
	Psychology	715,239.58
	Social Work	37,719.61
	Sociology	107,230.04
	Family Home & Social Sciences Total	\$2,104,598.13

*College and Department*

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Health & Human Performance	Health Sciences	67,835.19
	Physical Education	54,603.10
	RMYL	34,472.90
	HHP Total	\$156,911.19
Humanities	Asian & Near East Languages	44,173.18
	Center for Language Studies	7,491.59
	College Humanities	55,491.53
	English	169,318.50
	French and Italian	156,190.21
	Linguistics	26,140.97
	Humanities Total	\$458,805.98
Jacobsen Center for Service and Learning		\$22,680.62
J. Reuben Clark Law School		\$117,029.97
Library		(239.37)
Marriott School of Management	Marriott School of Management	229,964.45
	Organizational Leadership/Strategy	(2,307.88)
	MSM Total	\$227,656.57
Nursing		\$249.24
Physical & Math Sciences	Chemistry and Biochemistry	2,654,481.46
	Computer Science	1,399,412.15
	Earth Science Museum	1,105.05
	Geology	125,966.12
	Mathematics	184,337.28
	Physics & Astronomy	623,710.86
	Statistics	26,546.58
	Physical & Math Sciences Total	\$5,015,559.50
	<b>Grand Total</b>	<b>\$19,536,263.91</b>

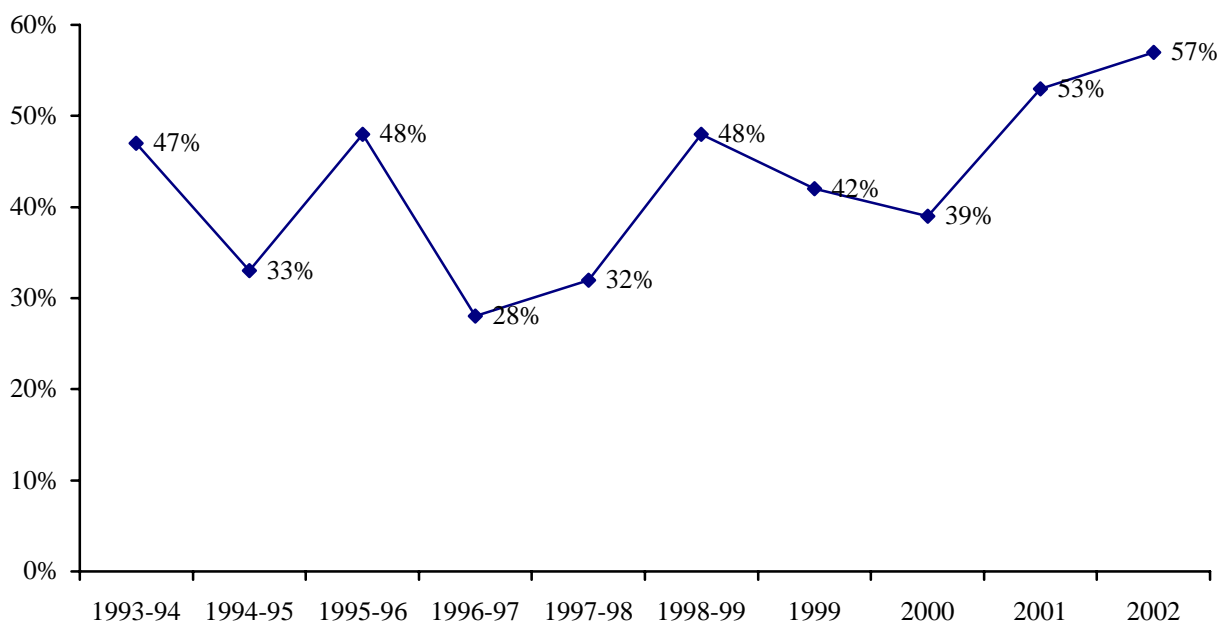


# College of Biology & Agriculture

# Summary of Sponsored Research (Grants & Contracts)

Department	# of Faculty	# of Faculty Submitting	# of Proposals Submitted	# of Awards	Dollars Awarded
Bean Museum	0	1	2	2	\$31,000
Integrative Biology	33	20	44	39	\$1,414,064
Microbiology & Molecular Biology	18	10	16	17	\$1,571,658
Nutrition, Dietetics & Food Science	8	3	5	8	\$215,410
Physiology & Developmental Biology	13	9	13	10	\$1,212,879
Plant & Animal Science	16	7	5	2	\$31,850
<b>TOTALS</b>	<b>88</b>	<b>50</b>	<b>79</b>	<b>76</b>	<b>\$4,476,861</b>

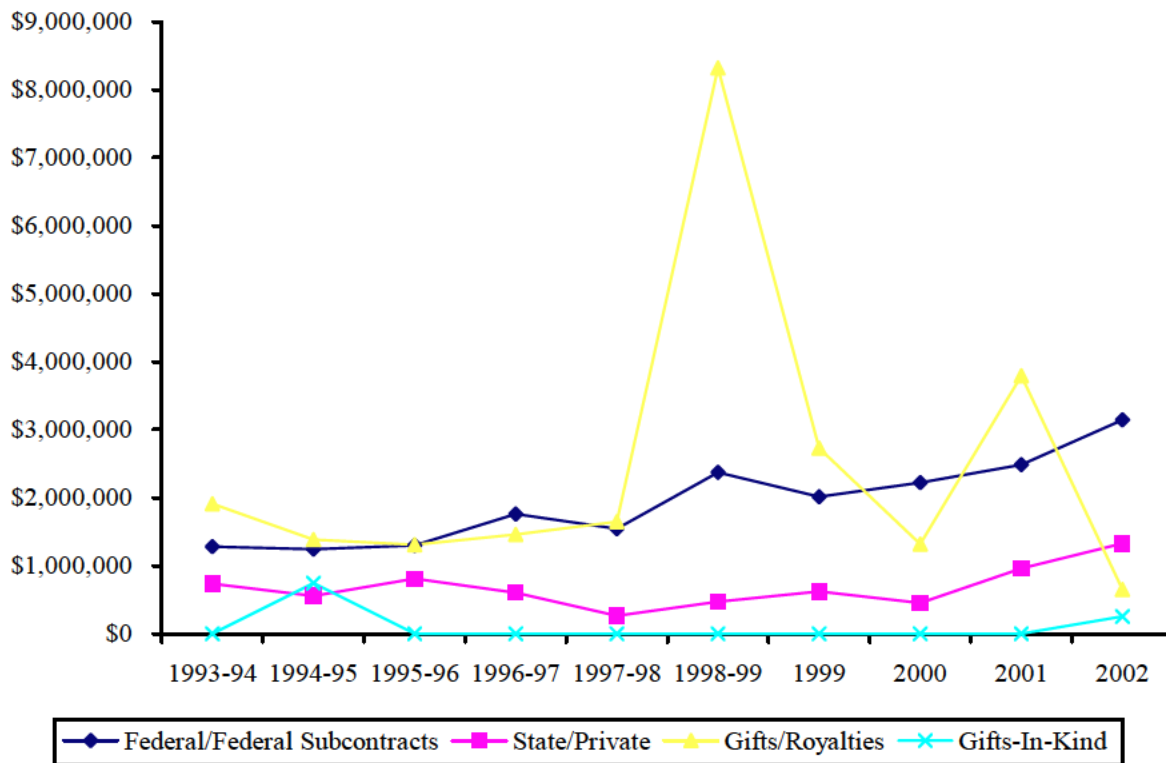
## Proposal Submission Activity



# External Research Funding (All Sources)

Year	Grants/Contracts		Gifts/Royalties	Gifts-In-Kind	Total
	Federal/Federal Subcontracts	State/Private			
1993-94	\$1,282,246	\$661,022	\$1,416,592	*	\$3,359,860
1994-95	\$1,238,398	\$559,198	\$1,387,305	\$745,536	\$3,930,437
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

\*Specific figures for these years were not available



# College of Biology and Agriculture 2002 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 Jo		Dugway P. G.	Land Condition Trend Analysis	06-01-02	06-30-03	1	\$5,068	N
Anderson, Val Jo		US Army, Dugway P.G.	Dugway ITAM	03-01-02	12-31-02	1	\$49,111	C
Anderson, Val Jo		Army Dugway P.G.	Dugway Project ITAM	03-01-02	12-31-02	1	\$143,889	N
Anderson, Val Jo		BASF Corp.	Cheatgrass Control	01-01-02	open	4	\$3,000	C
Anderson, Val Jo		US Army	Dugway ITAM Cedar Mtn. Fire Rehabilitation	03-01-02	06-30-03	1	\$81,000	C
Anderson, Val Jo		Dugway P. G.	Dugway ITAM Natural Resource Monitoring	03-01-02	06-30-03	1	\$17,676	C
Baumann, Richard		BLM	Survey of Invertebrate Species in GSENM	06-28-99	06-28-04	1	\$25,000	C
Belk, Mark		Utah DWR	Development of a Life Stage Model for June Sucker	07-01-02	06-30-03	3	\$5,650	N
Belk, Mark		Utah DWR	Effects of Density & Location on Growth of June Sucker	07-01-02	06-30-03	3	\$66,900	N
Belk, Mark		Utah DWR	Leatherside Chub Study	06-24-02	06-24-06	3	\$90,000	N
Crandall, Keith		US Forest Service	Land Snail Genetics in Ashley National Forest	06-15-02	01-01-04	1	\$10,000	N
Crandall, Keith	w/ Whiting	NSF	REU Support for Biocomplexity Hexopod Phylogenomics	01-01-02	12-31-06	1	\$4,000	C
Crandall, Keith		NSF	REU: Phylogenetics and Biogeography of Aeglidae	09-15-00	08-31-04	1	\$13,500	C
Flinders, Jerran		Utah DWR	Desert Bighorn Sheep Disturbance	04-01-02	09-30-03	3	\$31,800	N
Flinders, Jerran		Utah RM&CC	Restoration of Sage Grouse in Strawberry Valley	03-01-99	06-01-03	3	\$50,000	C
Flinders, Jerran		Utah DWR	Utah Guzzlers Habitat Usage Study	01-01-02	12-31-04	3	\$84,000	N
Hatch, Kent		Forest Service	Inventory Spotted Frog Locations in Central Nevada	07-29-02	09-30-03	1	\$27,000	N
Johnson, Leigh	w/ Rogers	NSF	Systematic Biology and Bioinformatics Research Experiences	08-01-02	07-31-03	1	\$25,000	N
McClellan, David		PhRMA Foundation	Research Starter Grants in Informatics	01-01-02	12-31-02	4	\$60,000	N
Peck, Steven	w/ Belk	Utah DWR	Development of a Life Stage Model for June Sucker	07-01-02	06-30-03	3	\$5,650	N
Peck, Steven		USDA	Modeling Movement and Dispersal of Fruit Flies in Hawaii	09-15-01	12-31-05	1	\$18,500	C
Rader, Russell		BLM (Richfield)	Assessing Integrity of Utah Wetlands	04-22-02	05-01-03	1	\$10,000	N
Rader, Russell		BLM (SLC)	Assessing Integrity of Utah Wetlands	06-01-02	09-30-03	1	\$10,000	N
Rader, Russell		UT Dept. of Natural Res.	Assessing the Ecological Integrity of Utah's Desert Wetlands	08-01-02	04-01-03	3	\$15,800	N
Rogers, Duke		NSF	Systematic Biology and Bioinformatics Research Experiences	08-01-02	07-31-03	1	\$25,000	N
Shiozawa, Dennis		US Fish & Wildlife	Colorado River Cutthroat Project	09-20-02	09-30-03	1	\$9,916	N
Shiozawa, Dennis		Wyoming Fish & Game	DNA Study of Cutthroat Trout in Wyoming	06-01-02	06-30-03	3	\$12,500	N
Shiozawa, Dennis		Gt. Basin Natl.Park	Genetic Identification of Cutthroat Trout	05-01-02	12-31-02	1	\$1,500	N
Shiozawa, Dennis		USDA Paonia N. F.	Genetic Identification of Cutthroat Trout from Paonia NF	03-14-02	10-31-03	1	\$10,030	N
Sites, Jack		NSF	Dissertation Research: Phylogenetic Relationships in Lizards	08-01-02	07-31-04	1	\$10,006	N
Sites, Jack		NSF	Phylogeny of Xantusiidae and Placement within Scleroglossa	06-01-02	05-31-05	1	\$299,997	N
Sites, Jack		NSF	REU Supplement for Molecular Phylogeography	09-01-99	08-31-03	1	\$6,000	C
St. Clair, Larry		U.S. Forest Service	Biomonitoring of Air Quality in Humbolt Toiyabe Natl. Forest	06-29-00	12-31-02	1	\$3,000	N
St. Clair, Larry		U.S. Forest Service	Biomonitoring of Air Quality in Montana	06-29-00	12-31-02	1	\$7,450	N
Weber, Darrell		NSF	US-Pakistan Workshop - November 2002	08-01-02	07-31-03	1	\$30,000	N
Welsh, Stan		BLM	Native Plant Species Within Rattle Fire Complex	10-01-02	08-31-07	1	\$7,000	N

# College of Biology and Agriculture 2002 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>
Welsh, Stan		BLM	Studies of Flora and Sensitive Plant Communities	06-13-00	12-31-02	1	\$25,000	C
White, Clayton		Utah DWR	Mountain Plovers in the Uintah Basin	05-01-96	09-30-02	3	\$15,000	C
Whiting, Michael		NSF	Dissertation Research: Phylogeny of Ephemeroptera	06-01-02	05-31-04	1	\$9,845	N
Whiting, Michael		NSF	Phylogeny of the Siphonaptera of the World	03-15-00	02-28-03	1	\$79,276	C
Whiting, Michael		NSF	REU Support for Biocomplexity Hexopod Phylogenomics	01-01-02	12-31-06	1	\$4,000	C
Whiting, Michael		NSF	REU: Phylogeny of the Siphonaptera	03-15-00	02-29-04	1	\$6,000	C
<b><i>Microbiology &amp; Molecular Biology</i></b>								
Bridgewater, Laura		SUR	Analysis of Collagen Content in RF treated tissues	01-15-02	05-31-02	4	\$5,000	N
Bridgewater, Laura		NIH	Chondrocyte-specific Transcriptional Regulation	09-01-02	08-31-03	1	\$182,500	N
Bridgewater, Laura	w/ Seegmiller	NIH	Pathogenesis of Osteoarthritis in Co12a1 Mutant Mice	08-01-02	07-31-04	1	\$73,000	N
Burton, Greg		NIH	Follicular Dendritic Cells and HIV Pathogens	06-01-02	05-31-03	1	\$280,199	C
Crandall, Keith		NSF	Dissertation Research: Opsin Evolution in Mysid Shrimp	06-01-02	05-31-04	1	\$9,800	N
Crandall, Keith		U of Alabama (DOI)	Freshwater Crayfish and Unionid Bivalves	08-15-02	03-31-04	2	\$9,730	N
Crandall, Keith		Johns Hopkins (NIH)	Molecular Epidemiology of N. Gonorrhoeae	05-01-02	04-30-07	2	\$106,259	N
Crandall, Keith		NSF	Molecular Systems Student Supplement	09-01-97	08-31-02	1	\$6,000	C
Crandall, Keith		NIH	Phylogenetics and Recombination	07-01-02	06-30-03	1	\$137,970	N
Crandall, Keith		NSF	REU Supplement: Phylogenetics and Biogeography of Aegilidae	09-15-00	08-31-04	1	\$10,000	C
Evans, Paul	w/ Shiozawa	Wyoming Fish & Game	DNA Study of Cutthroat Trout in Wyoming	06-01-02	06-30-03	3	\$12,500	N
Robison, Richard		Tetracore	A Novel rapid Diagnosis Strip for Detecting Anthrax	05-01-02	12-31-02	4	\$5,200	N
Robison, Richard		DOE	An Archive for CDC Select Agents	01-01-00	12-31-02	1	\$167,875	C
Robison, Richard		Environmental Defense Tech.	Antimicrobial-Treated Filter Materials	04-01-02	12-31-02	4	\$11,000	N
Robison, Richard		DOE	Archive for CDC Select Agents	01-01-00	12-31-02	1	\$32,125	C
Robison, Richard		Adv. Sterilization Prod.	Efficacy of the STERRAD 100S Sterilizer	05-15-02	12-31-02	4	\$18,000	N
Robison, Richard		Tetracore Inc	Identification of Diagnostic Strip for Identification of Anthrax	05-01-02	12-31-02	4	\$500	C
Woodward, Scott		Sorenson Foundation	Center for Molecular Genealogy	01-01-01	12-31-02	4	\$504,000	N
<b><i>Monte L. Bean Museum</i></b>								
Atwood, Duane		BLM	Grad. Student Thesis: Rare Plant Species in Utah	09-01-02	12-31-04	1	\$24,000	N
Atwood, Duane	w/ Welsh	BLM	Native Plant Species Within Rattle Fire Complex	10-01-02	08-31-07	1	\$7,000	N
<b><i>Nutrition, Dietetics &amp; Food Science</i></b>								
Ogden, Lynn		BAF	Consumer Preferences	11-01-90	10-31-02	4	\$12,740	C
Ogden, Lynn		BAF	Consumer Preferences	11-01-90	10-31-02	4	\$5,390	C
Ogden, Lynn		BAF	Consumer Preferences	11-01-90	10-31-02	4	\$6,600	C
Ogden, Lynn		BAF	Consumer Preferences in Foods	11-01-90	10-31-02	4	\$3,200	C
Ogden, Lynn		BAF	Consumer Taste Preferences	11-01-90	10-31-02	4	\$10,280	C
Ogden, Lynn		BAF	Consumer Taste Preferences	11-01-90	10-31-02	4	\$3,200	C
Pike, Oscar		Church Welfare Services	Quality Food Laboratories	01-01-91	12-31-02	4	\$148,000	C
Steele, Frost		Deseret Meats	Pathogen Analysis for Meat Products	03-01-01	open	4	\$26,000	C

# College of Biology and Agriculture 2002 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>Physiology &amp; Developmental Biology</i>								
Busath, David		Florida State (NIH)	Structure & Function of Gramicidin, M2 and KosA Channels	08-01-00	02-28-03	2	\$25,000	C
Busath, David		Florida State (NIH)	Structure & Function of Gramicidin, M2, & KcsA Channels	08-01-00	02-28-03	2	\$66,050	C
Judd, Alan	w/ Porter	American Heart Assn.	Effects of Material Separation on Blood Pressure Control in Rats	07-01-02	06-30-04	4	\$60,000	N
Lephart, Ed		NSF	Neuroscience Research Experiences	05-01-00	04-30-03	1	\$65,360	C
Lephart, Edwin		USDA	Neuroendocrine & Metabolic Disruption	09-01-02	08-31-05	1	\$195,000	N
Porter, James		American Heart Assn.	Effects of Material Separation on Blood Pressure Control in Rats	07-01-02	06-30-04	4	\$60,000	N
Seegmiller, Robert		NIH	Pathogenesis of Osteoarthritis in Co12a1 Mutant Mice	08-01-02	07-31-04	1	\$73,000	N
Sudweeks, Sterling		NIH	Neuronal Nicotine ACh Receptors and Alzheimer's	09-30-02	08-31-03	1	\$105,336	N
Winder, William		NIH	Physiology of Malonyl-CoA in Muscle During Exercise	09-01-02	08-31-03	1	\$276,360	C
Woodbury, Dixon		NIH	Molecular Reconstitution of Neurotransmitter Release	04-01-01	05-31-03	1	\$217,933	C
Woodbury, Dixon		NIH	Molecular Reconstruction of Neurotransmitter Release	04-01-01	03-31-02	1	\$68,840	C
<i>Plant &amp; Animal Sciences</i>								
Allen, Phil		Fed. Highway Admin.	Determined Noxious Weed Seeds in topsoil	04-04-00	09-30-03	1	\$22,500	C
Smith, Bruce		US Forest Service	Calorimetric Studies at the Grassland/Shrubland Interface	09-15-01	09-30-02	1	\$9,350	C

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

N/C: N=New; C=Combined

## Department Totals

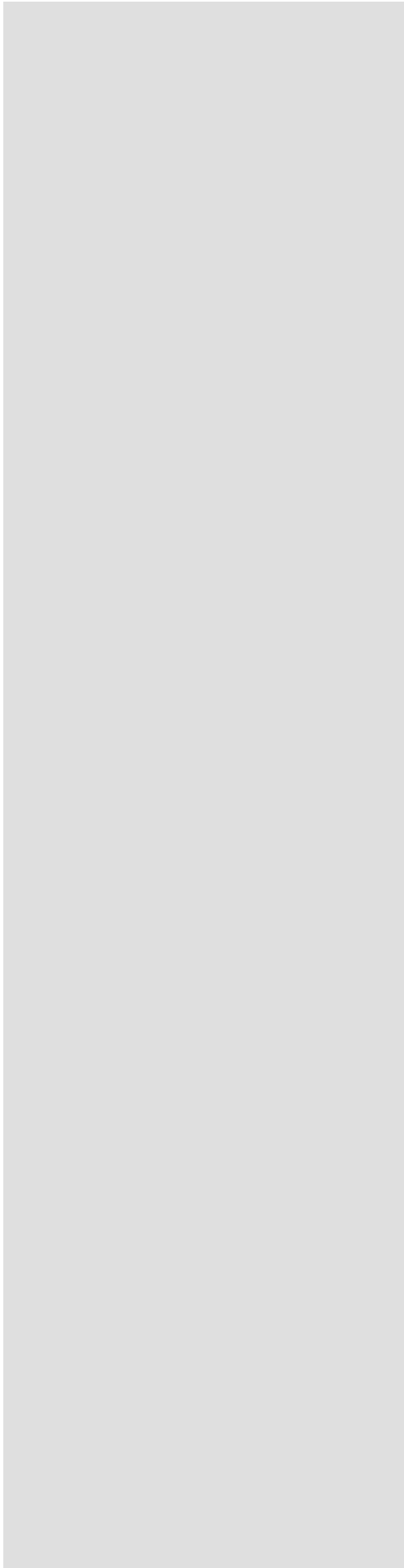
Integrative Biology	\$1,414,064
Microbiology & Molecular Biology	\$1,571,658
Nutrition, Dietetics & Food Science	\$215,410
Physiology & Developmental Biology	\$1,212,879
Plant & Animal Science	\$31,850
Bean Museum	\$31,000
<b>College Total:</b>	<b>\$4,476,861</b>



# Biology & Agriculture

## Source Breakdown of Grants and Contracts

Sponsor	Number Awarded	Total Amount
<b>Federal</b>		
BLM	6	\$108,000
DOE	2	\$200,000
Dugway Proving Grounds, Army	5	\$296,744
Fed. Highway Admin.	1	\$22,500
NIH	8	\$1,415,138
NSF	14	\$603,784
USDA	2	\$213,500
US Fish & Wildlife	1	\$9,916
US Forest Service	7	\$68,330
<b>Total</b>	46	\$2,937,912
<b>Subcontracts</b>		
Florida State (NIH)	2	\$91,050
Johns Hopkins (NIH)	1	\$106,259
U of Alabama (DOI)	1	\$9,730
<b>Total</b>	4	\$207,039
<b>State</b>		
UT Dept. of Natural Res.	1	\$15,800
UT DWR	6	\$299,000
UT RM&CC	1	\$50,000
Wyoming Fish & Game	1	\$25,000
<b>Total</b>	9	\$389,800
<b>Private</b>		
Adv. Sterilization Prod.	1	\$18,000
American Heart Assn.	1	\$120,000
BAF	6	\$41,410
BASF Corp.	1	\$3,000
Church Welfare Services	1	\$148,000
Deseret Meats	1	\$26,000
Environmental Defense Tech.	1	\$11,000
PhRMA Foundation	1	\$60,000
Sorenson Foundation	1	\$504,000
SUR-x	1	\$5,000
Tetracore Inc	2	\$5,700
<b>Total</b>	17	\$942,110

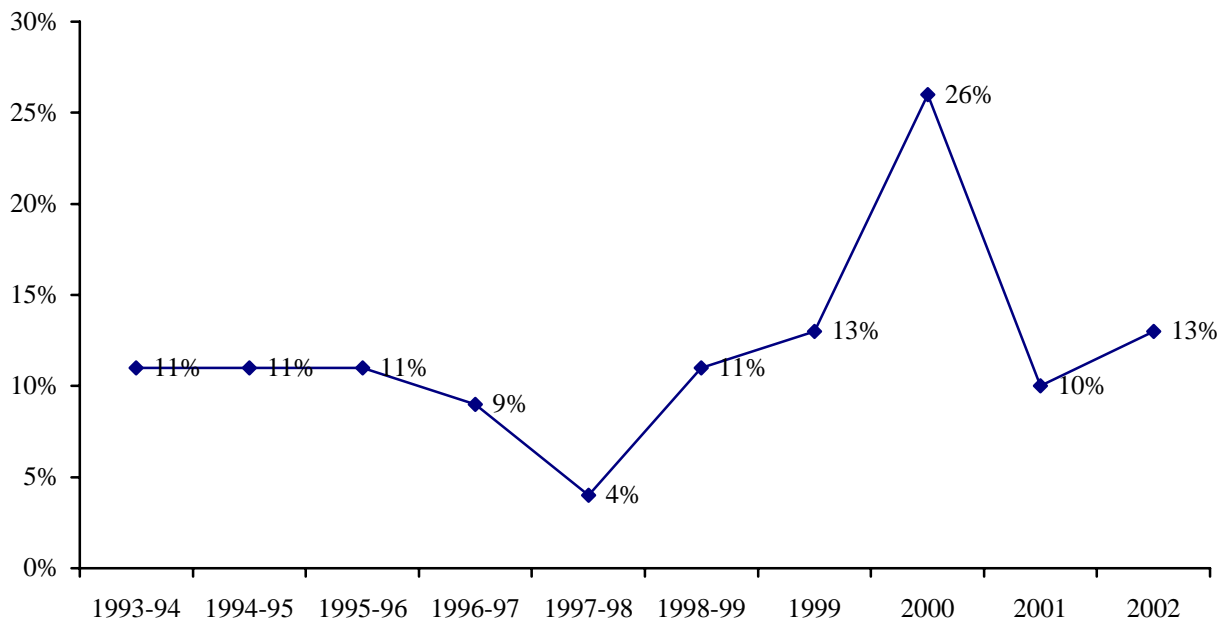


David O.  
McKay  
School  
of Education

# Summary of Sponsored Research (Grants & Contracts)

Department	# of Faculty	# of Faculty Submitting	# of Proposals Submitted	# of Awards	Dollars Awarded
Audiology & Speech Language Path	7	2	2	1	\$27,715
Continuing Education	0	1	1	0	\$0
Counseling Psych & Special Educ	15	4	3	0	\$0
Educ Leadership & Foundations	12	0	0	0	\$0
Instructional Psych & Tech	12	0	0	0	\$0
Teacher Education	32	3	2	2	\$562,494
<b>TOTALS</b>	78	10	8	3	\$590,209

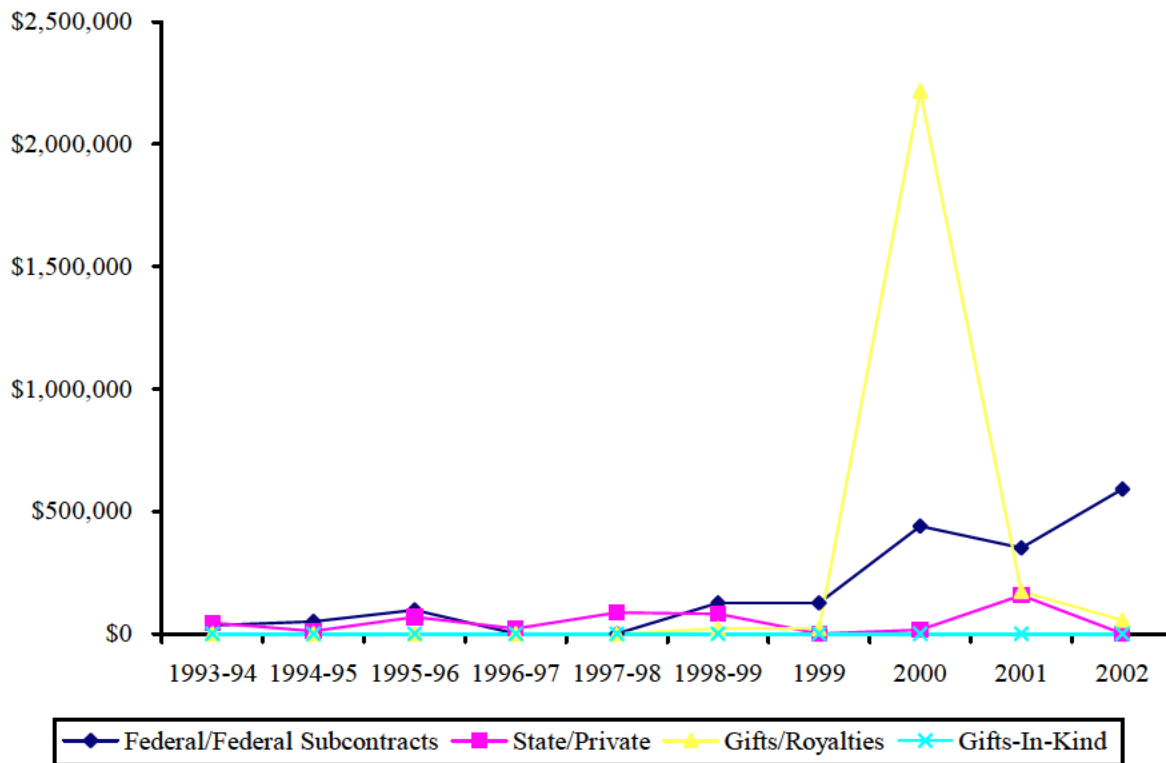
## Proposal Submission Activity



# External Research Funding (All Sources)

Year	Grants/Contracts		Gifts/Royalties	Gifts-In-Kind	Total
	Federal/Federal Subcontracts	State/Private			
1993-94	\$32,724	\$45,085	\$0	*	\$77,809
1994-95	\$49,728	\$10,397	\$0	\$0	\$60,125
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

\*Specific figures for these years were not available



# David O. McKay School of Education 2002 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 &amp; Speech Language Pathology</i>								
Culatta, Barbara		U of Rhode Island (DOE)	Project CALL	07-01-00	06-30-02	2	\$27,715	C
<i>Teacher Education</i>								
Pinnegar, Stephanie	w/ Teemant	Dept. of ED	English Language Acquisition: Natl. Professional Development	09-30-02	08-31-03	1	\$149,998	N
Teemant, Annela		Dept. of ED	English Language Acquisition: Natl. Professional Development	09-30-02	08-31-03	1	\$149,998	N
Wentworth, Nancy		Dept. of ED	Integrating Technology into the BYU Teacher Prep. Program	06-01-00	05-31-03	1	\$131,249	C
Young, Richard	w/ Wentworth	Dept. of ED	Integrating Technology into the BYU Teacher Prep. Program	06-01-00	05-31-03	1	\$131,249	C
Smith, Bruce		US Forest Service	Calorimetric Studies at the Grassland/Shrubland Interface	09-15-01	09-30-02	1	\$9,350	C

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

N/C: N=New; C=Combined

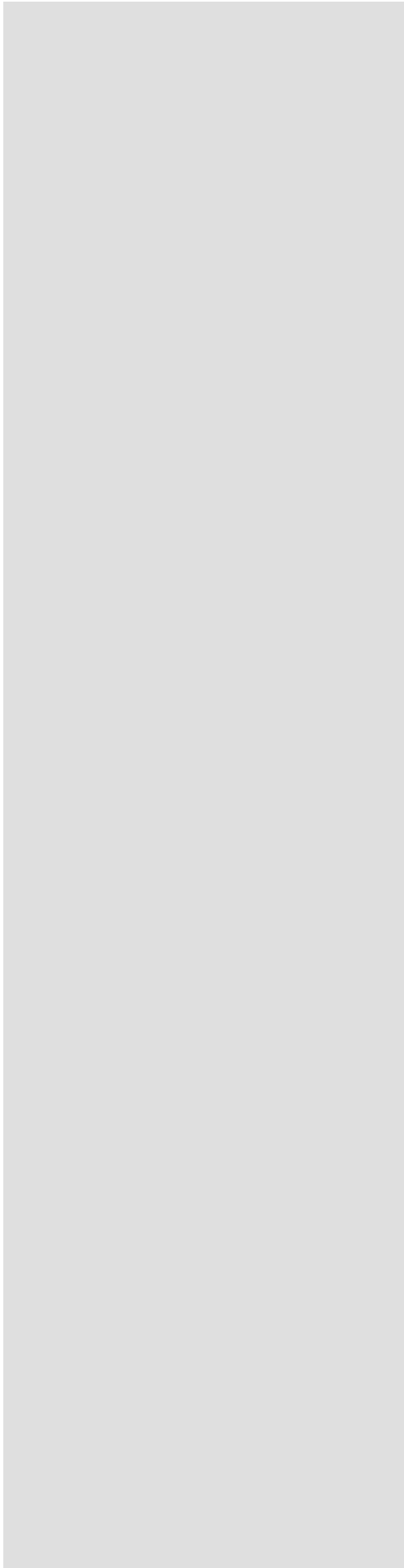
## Department Totals

Audiology & Speech Language Pathology	\$27,715
Continuing Education	\$0
Counseling Psychology & Special Education	\$0
Educational Leadership & Foundations	\$0
Instructional Psychology & Technology	\$0
Teacher Education	\$562,494
<b>College Total:</b>	<b>\$4,476,861</b>

# Education

## Source Breakdown of Grants and Contracts

Sponsor	Number Awarded	Total Amount
<b>Federal</b>		
DoED	2	\$562,494
<i>Total</i>	2	\$562,494
<b>Subcontracts</b>		
U of Rhode Island (DOE)	1	\$27,715
<i>Total</i>	1	\$27,715
<b>State</b>		
None		
<i>Total</i>		
<b>Private</b>		
None		
<i>Total</i>		

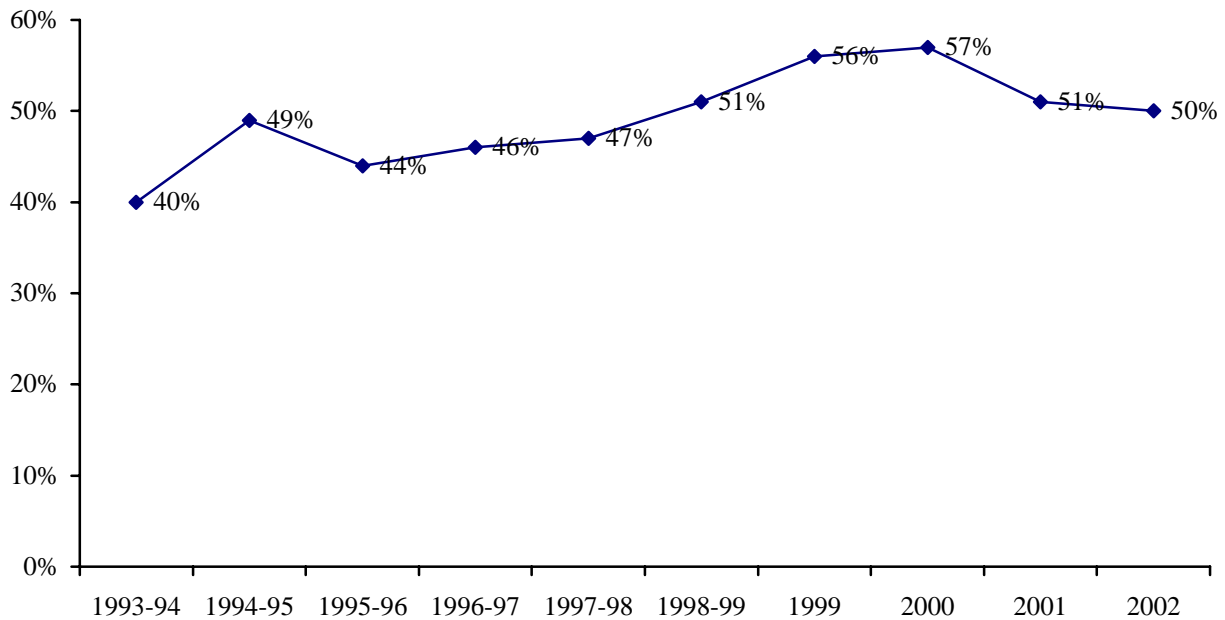


# College of Engineering & Technology

# Summary of Sponsored Research (Grants & Contracts)

Department	# of Faculty	# of Faculty Submitting	# of Proposals Submitted	# of Awards	Dollars Awarded
Chemical Engineering	13	9	29	22	\$1,617,035
Civil & Environmental Engineering	17	12	25	29	\$3,273,587
Electrical & Computer Engineering	26	16	46	29	\$2,066,581
Mechanical Engineering	24	16	84	20	\$1,989,253
School of Technology	26	0	0	1	\$30,000
<b>TOTALS</b>	106	53	131	101	\$8,976,456

## Proposal Submission Activity



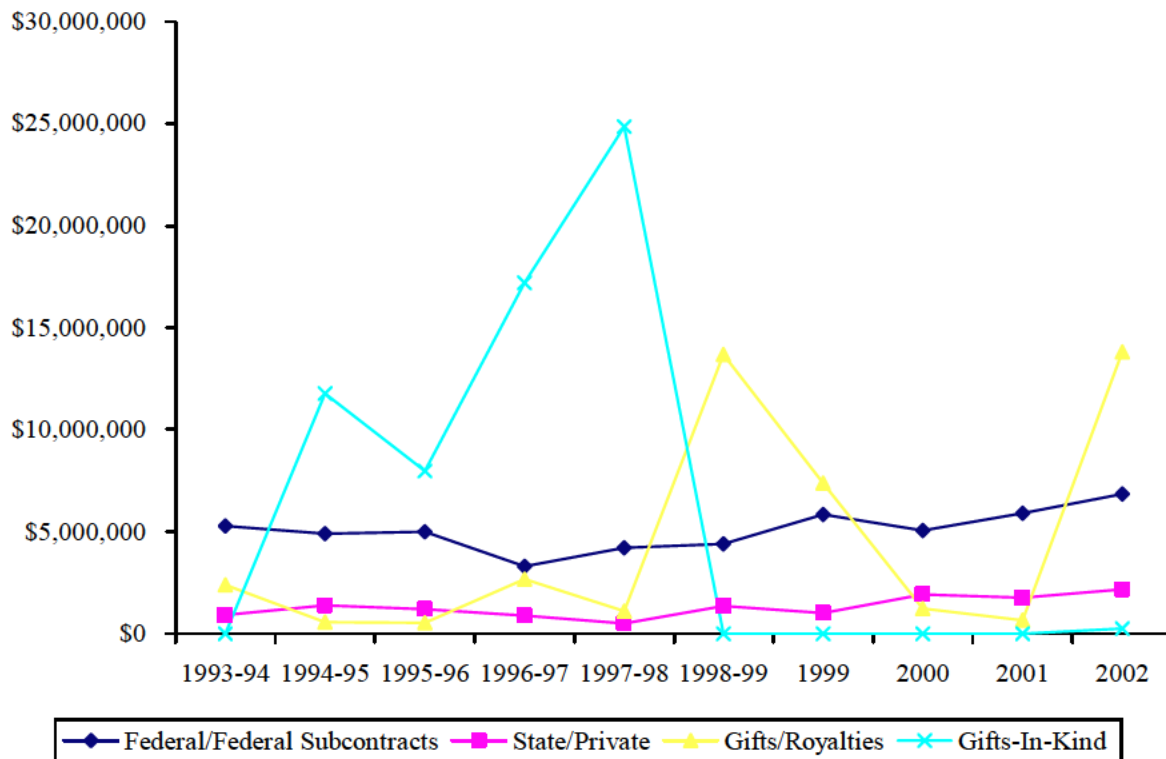


# External Research Funding (All Sources)

Year	Grants/Contracts		Gifts/Royalties	Gifts-In-Kind	Total
	Federal/Federal Subcontracts	State/Private			
1993-94	\$5,256,721	\$901,119	\$2,379,824	*	\$8,537,664
1994-95	\$4,905,794	\$1,389,324	\$564,416	\$11,753,188	\$18,612,722
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

\*Specific figures for these years were not available

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



# College of Engineering & Technology 2002 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>
<b><i>Chemical Engineering</i></b>								
Baxter, Larry		DOE	Black Liquor Combustion	01-01-01	04-30-03	1	\$55,000	C
Baxter, Larry		DOE, Idaho	Improved Recovery Boiler Performance	06-15-02	06-14-03	1	\$228,925	C
Baxter, Larry		U of Utah (DOE)	Low Temperature Black Liquor Gasification Support	09-30-02	09-30-05	2	\$25,000	N
Baxter, Larry	w/ Fletcher	US Forest Service	Fundamental Combustion Characteristics of Live Fuels	08-14-01	09-30-03	1	\$30,013	C
Baxter, Larry		DOE Idaho	Improved Recovery Boiler Performance	06-15-02	06-14-03	1	\$90,200	C
Beckstead, Merrill		ERC Inc. (Air Force)	Effects of Electrical Energy on Solid Propellant Combustion	05-30-02	12-31-02	2	\$49,764	N
Beckstead, Merrill		U of Utah (DOE)	C-SAFE	09-03-97	09-30-02	2	\$109,821	C
Beckstead, Merrill		Software & Eng. Assoc.	Fundamental Modeling of Propellant Ingredients	09-30-02	09-29-04	4	\$225,000	N
Beckstead, Merrill		Air Force	Modeling the Effects of Electrical Energy on Combustion	01-01-03	06-30-03	1	\$50,170	C
Fletcher, Thomas		Renewable Energy Corp.	Modeling of a Solar powered CO2 Converter	01-01-02	12-31-02	2	\$44,800	N
Fletcher, Thomas		US Forest Service	Fundamental Combustion Characteristics of Live Fuels	08-14-01	09-30-03	1	\$30,014	C
Harb, John		NSF	Molecular Simulations	07-01-02	06-30-03	1	\$35,000	N
Harb, John		US Nanocorp (DARPA)	Microbatteries for use in a Micropower Supply	01-01-02	12-31-02	2	\$35,000	N
Harb, John		NASA	Nanomaterials & Structures for Nano & Micropower Applications	01-15-02	01-14-05	1	\$23,434	N
Hill, Scott	w/ Fletcher	Renewable Energy Corp.	Modeling of a Solar powered CO2 Converter	01-01-02	12-31-02	2	\$44,800	N
Oscarson, John	w/ Rowley	Am. Inst. of Chem. Eng.	DIPPR Project 801: Evaluated Process Design Database	08-01-97	12-31-02	4	\$70,000	C
Oscarson, John	w/ Izatt	US Army Res. Office	Modeling and Thermodynamics of Aqueous Solutions	06-01-01	11-30-02	1	\$65,000	C
Oscarson, John	w/ Izatt	Dept. Of the Army	Modeling and Thermodynamic Study of Selected Aqueous Chemical Systems from 370 to 415 C	06-01-01	11-30-03	1	\$65,000	C
Pitt, William		U of Utah (NIH)	Acoustically Activated Micellar Drug Delivery	09-30-02	06-30-03	2	\$34,866	N
Pitt, William		Fisher Moore Inc.	Bacterial Adhesion of Fluorocarbon Coatings	06-01-02	05-31-03	4	\$36,428	N
Pitt, William		Sandia Natl. Lab	Swelling and Conductivity of Carbon Loaded Polymers	10-01-02	09-30-03	1	\$19,776	N
Rowley, Richard		Am. Inst. of Chem. Eng.	DIPPR Project 801: Evaluated Process Design Database	08-01-97	12-31-02	4	\$70,000	C
Rowley, Richard	w/ Harb	NSF	Molecular Simulations	07-01-02	06-30-03	1	\$35,000	N
Solen, Ken		U of WA (NIH)	Ultralow Protein Absorption Hemocompatible Biomaterials	07-01-01	06-30-03	2	\$15,724	C
Solen, Ken		Whittaker Fndtn.	Whittaker Foundation Fellowship	08-18-00	08-31-03	4	\$28,300	C
Tree, Dale	w/ Baxter	U of Utah (DOE)	Low Temperature Black Liquor Gasification Support	09-30-02	09-30-05	2	\$25,000	N
Wilding, Vincent	w/ Rowley	Am. Inst. of Chem. Eng.	DIPPR Project 801: Evaluated Process Design Database	08-01-97	12-31-02	4	\$70,000	C
Wilding, Vincent		Wiltec Research Co.	Thermal Conductivity Measurements	04-01-02	12-31-02	4	\$5,000	N
<b><i>Civil &amp; Environmental Engineering</i></b>								
Balling, Richard		NSF	Urban Planning	05-01-99	04-30-03	1	\$3,334	C
Downs, Wayne		INEEL	Generakl Research Support	05-31-01	open	1	\$696	C
Downs, Wayne		INEEL	General Research	05-01-01	open	2	\$3,350	C
Downs, Wayne		INEEL	General Research topics for students	05-31-01	open	4	\$4,230	C
Downs, Wayne		UT Dept of Environ. Quality	Migration of Non-Point Source Chemicals in Milford	10-26-02	10-26-06	3	\$84,900	N
Downs, Wayne		INEEL	VOC Release from Buried Drums	11-01-99	open	4	\$4,700	C

# College of Engineering & Technology 2002 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>
Fonseca, Fernando	w/ Jensen	Utah COE	Advanced Structural Composites	07-01-02	06-30-03	3	\$60,000	C
Fonseca, Fernando		UDOT	Capacity of Cantilevered Bent Haunches-Phase III	09-01-02	08-31-03	3	\$130,000	N
Jensen, David		Utah COE	Advanced Structural Composites	07-01-02	06-30-03	3	\$60,000	C
Jensen, David		PYRAMatrix Inc.	Composite Wind Turbine Tower Modeling	08-15-02	12-01-02	4	\$15,000	N
Jensen, David		ILC Dover (NASA)	Development of Lightweight Isotruss Structure	09-06-01	02-10-02	2	\$5,000	C
Jones, Norm		Army WES	Hydrosystems Modeling	06-01-97	09-30-02	1	\$83,667	C
Jones, Norm		Army WES	Hydrosystems Modeling	06-01-97	09-30-02	1	\$21,667	C
Jones, Norm		Army WES	Hydrosystems Modeling, Civilian Funding	09-01-02	10-01-03	1	\$4,400	N
Jones, Norm		Army WES	Hydrosystems Modeling, Military Funding	09-01-02	10-01-03	1	\$15,666	N
Jones, Norm		Army WES.	Hydrosystems Modeling	06-01-97	09-30-02	1	\$51,334	C
Jones, Norm		Army WES.	Hydrosystems Modeling	06-01-97	09-30-02	1	\$12,000	C
Nelson, James	w/ Jones	Army WES	Hydrosystems Modeling	06-01-97	09-30-02	1	\$83,667	C
Nelson, James	w/ Jones	Army WES	Hydrosystems Modeling	06-01-97	09-30-02	1	\$21,666	C
Nelson, James	w/ Jones	Army WES.	Hydrosystems Modeling, Civilian Funding	09-01-02	10-01-03	1	\$4,400	N
Nelson, James	w/ Jones	Army WES.	Hydrosystems Modeling, Military Funding	09-01-02	10-01-03	1	\$15,667	N
Nelson, James	w/ Jones	Army WES	Hydrosystems Modeling	06-01-97	09-30-02	1	\$51,334	C
Nelson, James	w/ Jones	Army WES	Hydrosystems Modeling	06-01-97	09-30-02	1	\$12,000	C
Nelson, James		BOR	Reservoir and River Geometry	07-23-02	09-30-03	1	\$15,000	N
Rollins, Kyle		UDOT	Analysis & Design of Pile Groups	02-01-99	12-31-02	3	\$23,823	C
Rollins, Kyle		NSF	Lateral Resistance of Deep Foundations in Sand	09-01-01	08-31-03	1	\$45,840	C
Rollins, Kyle		Natl. Academy of Sciences	Liquefaction Mitigation Using Vertical Composite Drains	09-01-02	08-31-03	1	\$75,492	N
Rollins, Kyle		UDOT	Pavement Distress for I-15 South of Nephi	07-21-00	06-30-03	3	\$3,153	C
Rollins, Kyle		NSF	RET Supplement for Full-Scale and Dynamic Lateral Pile Group Testing	08-15-01	07-31-03	1	\$20,000	C
Saito, Mitsuru		UDOT	FY2002 UTRAC Workshop	01-01-02	12-31-02	3	\$9,000	N
Saito, Mitsuru		Battelle Corp.	Transit Rider Opinion Survey on UTA PCS	09-16-02	08-01-03	4	\$13,612	N
Saito, Mitsuru	w/ Balling	NSF	Urban Planning	05-01-99	04-30-03	1	\$3,333	C
Saito, Mitsuru		Wavetronics Inc	Wicrowave Traffic Sensor Evaluation	02-04-02	04-19-02	4	\$4,500	N
Saito, Mitsuru		UDOT	Work Zone Speed Controls	06-01-02	05-30-03	3	\$40,000	N
Youd, Les		NSF	Instrumented Sites for Soil-Foundation-Structure Interaction	10-01-02	09-30-04	1	\$1,944,423	N
Youd, Les		UDOT	Monitoring Seismic Wave Propagation; I15-21st So.	05-01-02	04-30-03	3	\$121,926	N
Youd, Les		NSF	REU Supplement for Timproved Liquefaction Hazard Mapping	06-01-01	11-30-03	1	\$16,074	C
Zundel, Alan	w/ Jones	Army WES	Hydrosystems Modeling	06-01-97	09-30-02	1	\$83,666	C
Zundel, Alan	w/ Jones	Army WES	Hydrosystems Modeling	06-01-97	09-30-02	1	\$21,667	C
Zundel, Alan	w/ Jones	Army WES	Hydrosystems Modeling, Civilian Funding	09-01-02	10-01-03	1	\$4,400	N
Zundel, Alan	w/ Jones	Army WES	Hydrosystems Modeling, Military Funding	09-01-02	10-01-03	1	\$15,667	N
Zundel, Alan	w/ Jones	Army WES	Hydrosystems Modeling	06-01-97	09-30-02	1	\$51,333	C
Zundel, Alan	w/ Jones	Army WES	Hydrosystems Modeling	06-01-97	09-30-02	1	\$12,000	C
<b>Electrical &amp; Computer Engineering</b>								
Archibald, James	w/ Beard	Micron Foundation Inc.	Robotic Soccer Tournament 2002	01-25-02	12-15-02	4	\$1,500	N
Beard, Randal		ISL (AFOSR)	Real Time Trajectory Generation for Semi Automomous Flight Systems	09-01-02	07-31-03	2	\$24,979	N
Beard, Randal		Micron Foundation Inc.	Robotic Soccer Tournament 2002	01-25-02	12-15-02	4	\$1,500	N
Comer, David		Intel	Clock Extraction and Channel Filters	10-01-00	09-30-03	4	\$40,448	C

# College of Engineering & Technology 2002 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>
Comer, Donald		Intel	Clock Extraction and Channel Filters	10-01-00	09-30-03	4	\$40,448	C
Jeffs, Brian		Army	Methods for RFI Mitigation in Mine Detection	11-21-02	12-20-02	1	\$4,262	N
Jeffs, Brian	w/ Swindlehurst,	NSF	Wireless Networks with Multiple Transmit and Receive Antennas	09-01-00	08-31-03	1	\$36,134	C
Jensen, Michael		Navy - China Lake	GPS Wrap Around Antenna Study	02-01-02	09-30-02	1	\$42,826	N
Jensen, Michael	w/ Warnick	JPL	JASON 1 Altimeter	08-27-98	09-23-03	2	\$37,550	C
Jensen, Michael	w/ Long	U of Colo. (Air Force)	Low Cost Micro-SAR for UAV Operation	10-22-02	09-30-03	2	\$60,000	N
Jensen, Michael		AFOSR	Full L-S Band Telemetry System	12-15-00	12-14-02	1	\$100,000	C
Jensen, Michael	w/ Swindlehurst,	NSF	Wireless Networks with Multiple Transmit and Receive Antennas	09-01-00	08-31-03	1	\$36,134	C
Lee, DJ		BOR	Feasibility Study of Fish Recognition System	05-01-02	12-31-02	1	\$2,000	N
Long, David		JPL	Hydros Resolution Enhancement Feasibility Evaluation	11-01-02	04-13-03	2	\$12,000	N
Long, David		Oregon State (NASA)	Near Surface Wind Modeling	09-15-95	12-31-04	2	\$103,900	C
Long, David		NASA	Scatterometer Climate Record Pathfinder	05-01-00	04-30-03	1	\$54,000	C
Long, David		NASA	Scatterometer Climate Record Pathfinder	05-01-00	04-30-03	1	\$168,000	C
Long, David		OSU (NASA)	Seawinds Modeling and Monitoring	09-15-95	12-31-04	2	\$156,200	C
Long, David		NASA	Synergistic Use of TRMM and SeaWinds Data	06-15-00	11-30-02	1	\$25,000	C
Long, David		NASA	Synergistic Use of TRMM and Seawinds Data	06-15-00	11-30-02	1	\$25,000	C
Long, David		U of Colo. (Air Force)	Low Cost Micro-SAR for UAV Operation	10-22-02	09-30-03	2	\$60,000	N
Long, David		NASA	Synergistic Use of TRMM and Sea Winds	06-15-00	11-30-02	1	\$35,417	C
McLain, Tim	w/ Beard	ISL (AFOSR)	Real Time Trajectory Generation for Semi Autonomous Flight Systems	09-01-02	07-31-03	2	\$24,979	N
Nelson, Brent		USC (DARPA)	Sonar Processing and Configurable Computing	07-15-97	07-15-02	1	\$15,000	C
Oliphant, Travis		Cornell (NASA)	Astrostatistical Tools in Python	05-01-02	04-30-03	2	\$11,248	N
Petrie, Craig		Intel	Selta-Sigma Analog to Digital Converters	05-30-02	open	4	\$30,000	N
Randal Beard		DARPA	Neglect Tolerant Interaction for Multi-Robot Teams	08-01-02	7-31-003	1	\$104,044	N
Rice, Michael		Edwards AFB	ARTM	04-15-02	04-14-03	1	\$99,999	N
Rice, Michael		NASA	Performance of EFTS in the Presence of Interference	11-14-01	08-31-02	1	\$30,000	N
Rice, Michael		Edwards AFB	SHF Channel Modeling for Aeronautical Telemetry	05-01-02	04-30-03	1	\$234,022	N
Rice, Michael		JPL (NASA)	SHF Channel Modeling for Aeronautical Telemetry	11-25-02	11-24-03	2	\$50,000	N
Rice, Michael		Edwards AFB	Space Time Coding for Aeronautical Telemetry	05-01-02	04-30-03	1	\$99,920	N
Rice, Michael	w/ Swindlehurst	NSF	Wireless Networks with Multiple Transmit and Receive Antennas	09-01-00	08-31-03	1	\$36,134	C
Selfridge, Richard		KVH Industries	D-Fiber Modulator	07-31-00	09-30-02	4	\$190,253	C
Swindlehurst, Arnc		NSF	Wireless Networks with Multiple Transmit and Receive Antennas	09-01-00	08-31-03	1	\$36,134	C
Warnick, Karl		JPL	JASON 1 Altimeter	08-27-98	09-23-03	2	\$37,550	C
<b><i>Mechanical Engineering</i></b>								
Adams, Brent		ARO	Microstructure Sensitive Design	06-01-01	12-31-02	1	\$67,300	C
Adams, Brent		Carnegie Mellon (DOE)	MSREC Project	01-01-00	02-28-03	2	\$69,351	C
Adams, Brent		Army Research Office	Microstructure Design	06-01-01	12-31-02	1	\$100,000	C
Beard, Randy	w/ McLain	AFOSR	Coordinated Control of Unmanned Air Vehicles	01-01-01	09-30-03	1	\$30,221	C
Blotter, Jonathan	w/ Leishman	LDS Church	Refinement of Conference Center Acoustics	07-01-02	04-30-03	4	\$9,626	C
Blotter, Jonathan		INEEL	Two-Phase Mass Flow Measurement for Geothermal Wells	10-01-01	09-30-03	2	\$36,235	C

# College of Engineering & Technology 2002 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>
Bons, Jeffrey		Clemson (DOE)	Turbine Surface Degradation	06-01-02	05-31-03	2	\$184,998	N
Howell, Larry	w/ Magleby	Utah COE	Compliant Mechanisms	07-01-02	06-30-03	3	\$65,000	C
Howell, Larry		NSF	REU Support: Bistable Micromechanism	09-15-99	08-31-03	1	\$10,000	C
Jensen, Greg	w/ Red	Utah COE	Direct Machining and Control	07-01-02	06-30-03	3	\$70,000	N
Jensen, Greg		Pratt & Whitney	Parametric Design Tools	09-01-02	08-31-03	4	\$75,000	N
Jensen, Greg		Pratt & Whitney	Parametric Design Tools	09-01-02	08-31-03	4	\$75,000	C
Jensen, Greg		Pratt & Whitney	Parametric Tool Design	09-01-02	08-31-03	4	\$18,650	C
Magleby, Spencer		Utah COE	Compliant Mechanisms	07-01-02	06-30-03	3	\$65,000	C
McLain, Timothy		AFOSR	Coordinated Control of Unmanned Air Vehicles	01-01-01	09-30-03	1	\$30,222	C
Nelson, Tracy		Utah COE	Advanced Joining of Materials	07-01-02	06-30-03	3	\$65,000	N
Nelson, Tracy		ONR	Evaluation of PCBN Tool Materials for Friction Stir Welding	06-01-01	05-31-02	1	\$11,934	C
Nelson, Tracy		Alcoa Tech. Center	Evaluation of Tool Materials for Friction Stir Welding	08-09-02	12-31-02	4	\$29,759	N
Nelson, Tracy		Rockwell (DARPA)	Friction Stir Welding Processing	10-31-00	10-30-02	2	\$30,000	C
Nelson, Tracy		Rockwell Scientific (DARPA)	Friction Stir Welding Processing	07-26-02	09-30-03	2	\$275,076	N
Red, Ed		Utah COE	Direct Machining and Control	07-01-02	06-30-03	3	\$120,000	N
Red, Ed		DCI	DMAC R&D	01-01-02	08-31-02	4	\$78,144	N
Sorenson, Carl	w/ Nelson	ONR	Evaluation of PCBN Tool Materials for Friction Stir Welding	06-01-01	05-31-02	1	\$11,933	C
Sorenson, Carl	w/ Nelson	Utah COE	Advanced Joining of Materials	07-01-02	06-30-03	3	\$65,000	N
Sorenson, Carl	w/ Nelson	Alcoa Tech. Center	Evaluation of Tool Materials for Friction Stir Welding	08-09-02	12-31-02	4	\$29,758	N
Sorenson, Carl	w/ Nelson	Rockwell Scientific (DARPA)	Friction Stir Welding Processing	07-26-02	09-30-03	2	\$275,076	N
McLain, Timothy		DARPA	Neglect Tolerant Interaction for Multi-Robot Teams	08-01-02	7-31-003	1	\$90,970	N
<b>School of Technology</b>								
Chabries, Douglas		U of Utah (NASA)	Rocky Mountain Space Grant Fellowship Program	02-01-01	01-31-03	2	\$30,000	C

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

N/C: N=New; C=Combined

## Department Totals

Chemical Engineering	\$1,617,035
Civil & Environmental Engineering	\$3,273,587
Electrical & Computer Engineering	\$2,066,581
Mechanical Engineering	\$1,989,253
School of Technology	\$30,000

## College Total:

\$8,976,456

# Engineering & Technology

## Source Breakdown of Grants and Contracts

<u>Sponsor</u>	<u>Number Awarded</u>	<u>Total Amount</u>
<b>Federal</b>		
AFOSR	2	\$160,443
Air Force	1	\$50,170
Army	2	\$69,262
ARO	3	\$232,300
Army WES	6	\$566,201
BOR	2	\$17,000
DARPA	2	\$195,014
DOE	1	\$55,000
DOE Idaho	2	\$319,125
Edwards AFB	3	\$433,941
INEEL	1	\$696
NASA	7	\$360,851
Natl. Academy of Sciences	1	\$75,492
Navy - China Lake	1	\$42,826
NSF	8	\$2,257,540
ONR	1	\$23,867
Sandia Natl. Lab	1	\$19,776
US Forest Service	1	\$60,027
USC (DARPA)	1	\$15,000
<b>Total</b>	46	\$4,954,531
<b>Subcontracts</b>		
Carnegie Mellon (DOE)	1	\$69,351
Clemson (DOE)	1	\$184,998
Cornell (NASA)	1	\$11,248
ERC Inc. (Air Force)	1	\$49,764
ILC Dover (NASA)	1	\$5,000
INEEL	2	\$39,585
ISL (AFOSR)	1	\$49,958
JPL	3	\$137,100
OSU (NASA)	2	\$260,100
Renewable Energy Corp.	1	\$89,600
Rockwell Scientific (DARPA)	2	\$580,152
U of Colo. (Air Force)	1	\$120,000
U of Utah (DOE)	2	\$159,821
U of Utah (NASA)	1	\$30,000
U of Utah (NIH)	1	\$34,866
U of WA (NIH)	1	\$15,724
US Nanocorp (DARPA)	1	\$35,000
<b>Total</b>	23	\$1,872,267

# Engineering & Technology Source Breakdown of Grants and Contracts

<u>Sponsor</u>	<u>Number Awarded</u>	<u>Total Amount</u>
<b>State</b>		
UT COE	3	\$570,000
UT Dept. of Environmental Quality	1	\$84,900
UDOT	6	\$327,902
<i>Total</i>	10	\$982,802
 <b>Private</b>		
Alcoa Tech. Center	1	\$59,517
Am. Inst. of Chem. Eng.	1	\$210,000
Battelle Corp.	1	\$13,612
DCI	1	\$78,144
Fisher Moore Inc.	1	\$36,428
Intel	3	\$110,896
INEEL	2	\$8,930
KVH Industries	1	\$190,253
LDS Church	1	\$9,626
Micron Foundation Inc.	1	\$3,000
Pratt & Whitney	3	\$168,650
PYRAmatrix Inc.	1	\$15,000
Software & Eng. Assoc.	1	\$225,000
Wavetronics Inc	1	\$4,500
Whittaker Fndtn.	1	\$28,300
Wiltec Research Co.	1	\$5,000
<i>Total</i>	21	\$1,166,856



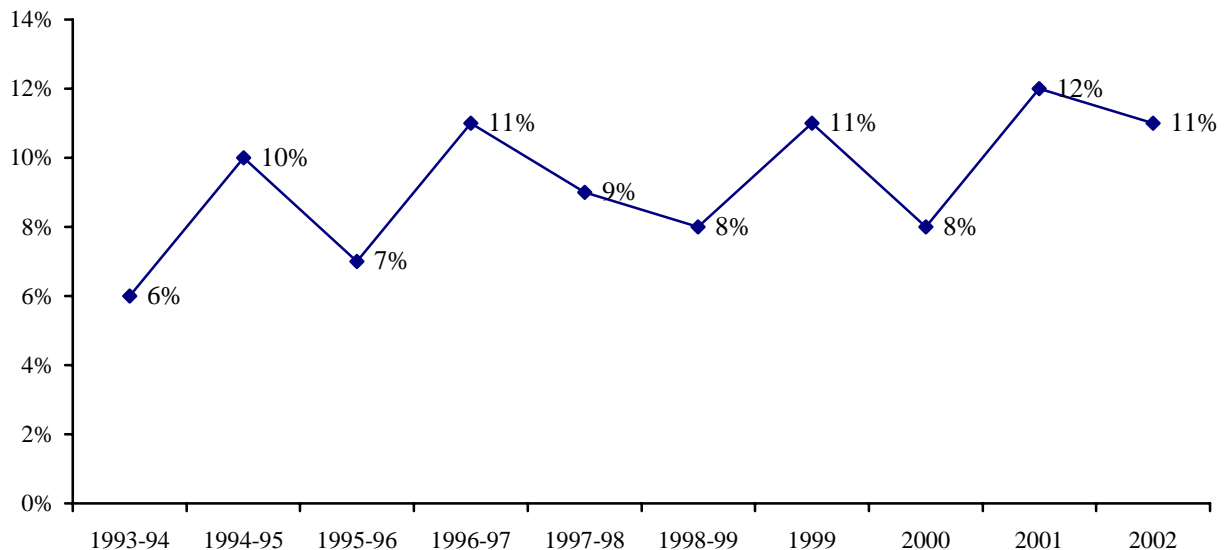
# College of Family, Home & Social Sciences



# Summary of Sponsored Research (Grants & Contracts)

Department	# of Faculty	# of Faculty Submitting	# of Proposals Submitted	# of Awards	Dollars Awarded
Anthropology	11	1	1	3	\$190,260
Economics	21	2	1	0	\$0
Family Life & Home Economics Ed.	5	0	0	0	\$0
Geography	10	4	3	1	\$3,333
History	34	0	0	0	\$0
Joseph Fielding Smith Institute	7	0	0	0	\$0
Marriage & Family Therapy	9	0	0	0	\$0
Marriage, Family & Human Dev.	26	0	0	0	\$0
Museum of Peoples & Cultures	1	1	3	2	\$25,318
Office of Public Archaeology	1	1	12	15	\$381,032
Political Science	21	4	5	3	\$2,408,375
Psychology	27	6	7	6	\$517,883
Social Work	11	1	1	1	\$26,500
Sociology	18	3	4	1	\$7,500
<b>TOTALS</b>	<b>202</b>	<b>23</b>	<b>37</b>	<b>32</b>	<b>\$3,560,201</b>

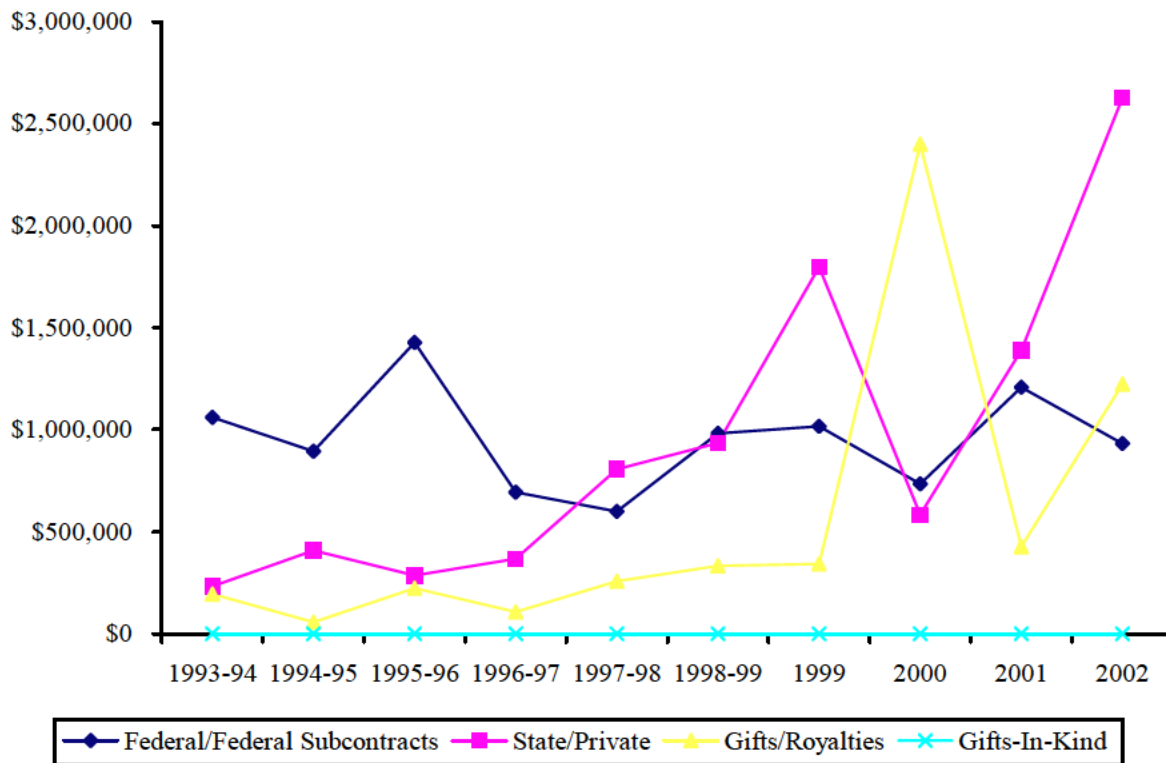
## Proposal Submission Activity



# External Research Funding (All Sources)

Year	Grants/Contracts		Gifts/Royalties	Gifts-In-Kind	Total
	Federal/Federal Subcontracts	State/Private			
1993-94	\$1,061,336	\$230,842	\$194,267	*	\$1,486,445
1994-95	\$895,446	\$406,593	\$57,772	\$0	\$1,359,811
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

\*Specific figures for these years were not available



# Family, Home & Social Sciences 2002 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>
<b><i>Anthropology</i></b>								
Hawkins, John		NSF	Cultural Change and Continuity in Nahuala	05-01-02	04-30-03	1	\$94,608	N
Hawkins, John		NSF	Culture Change and Continuity in Guatemala	05-01-02	04-30-04	1	\$90,592	C
Janetski, Joel		BLM (SLC)	Archaeological Site Analysis	10-01-01	09-30-03	1	\$5,060	C
<b><i>Geography</i></b>								
Jackson, Richard	w/ Balling	NSF	Urban Planning	05-01-99	04-30-03	1	\$3,333	C
<b><i>Museum of People &amp; Cultures</i></b>								
Allen, Marti		Utah Office of Museum Svcs.	Professional Development Grant	10-01-02	09-30-03	3	\$1,000	N
Allen, Marti		IMLS	Treatment of Collections Study	08-15-02	02-28-04	1	\$24,318	N
<b><i>Office of Public Archaeology</i></b>								
Talbot, Richard		BLM	Archaeological Inventory & Excavation in GSENM	09-25-02	07-15-04	1	\$30,000	C
Talbot, Richard		BLM	Archaeological Inventory on the GSENM	05-01-01	06-15-03	1	\$70,000	C
Talbot, Richard		PacificCorp	Beaver Canyon Inventory	09-23-02	08-31-03	4	\$4,903	N
Talbot, Richard		Utah Div. Oil, Gas, Mining	Circle Cliffs Abandoned Mines	07-29-02	12-31-02	3	\$24,662	N
Talbot, Richard		PacificCorp	Fishlake N.F. Site Mitigation	10-22-02	10-21-03	4	\$15,000	N
Talbot, Richard		BLM	GSENM Survey of Excavation 2002	05-01-02	04-30-03	1	\$70,000	N
Talbot, Richard		Merrick Young Inc.	Juab County I-15 Project	08-14-02	open	3	\$2,500	N
Talbot, Richard		Washington County	Pah-Tempe Springs History	02-25-02	open	3	\$3,517	N
Talbot, Richard		Utah Trust Lands Admin	Pheasant Creek Inventory	07-23-01	open	3	\$15,228	C
Talbot, Richard		Washington County	Quail Creek to Irving Pipeline Study	12-02-02	06-30-03	3	\$14,055	N
Talbot, Richard		UVSC	Sleeping Rainbow Ranch Project	08-05-02	12-01-02	4	\$45,937	N
Talbot, Richard		UTA TRAX	UTA - TRAX Light Rail Monitoring	06-23-00	open	3	\$20,056	C
Talbot, Richard		Utah Trust Lands Admin	Utah Trust Lands Projects	07-23-01	open	3	\$7,200	C
Talbot, Richard		Utah Div. of Oil Gas & Mining	Vernon Sheeprocks Mine Closure	10-15-02	06-30-03	3	\$28,987	N
Talbot, Richard		UT OG&M	Vernon Sheeprocks Mining Closure	10-15-02	06-30-03	3	\$28,987	C
<b><i>Political Science</i></b>								
Bowen, Donna Lee		DoED	American Overseas Research Centers	10-01-00	09-30-03	1	\$114,272	C
Magleby, David		Pew Charitable Trusts	Undisclosed and Unregulated Money in Congressional Elections	09-24-98	12-31-03	4	\$1,010,088	C
Magleby, David		Pew Chaitable Trusts	Undisclosed and Unregulated Money in Elections	09-24-98	12-31-03	4	\$1,284,000	C
<b><i>Psychology</i></b>								
Bigler, Erin		Various Sources	Neuroimaging	04-30-91	open	4	\$5,000	C
Bigler, Erin		Various Sources	Neuroimaging	04-30-91	open	4	\$10,000	C
Bigler, Erin		U of U (NIH)	Neuroimaging of Autism	09-20-02	05-31-07	2	\$79,593	C
Bigler, Erin		U of Utah (NIH)	Planning the Utah Center of Excellence	09-01-01	08-31-02	2	\$25,000	N
Manwaring, Kim		Brainchild Foundation	Instrumentation in Hydrocephalus & Tramatic Brain Injury	08-15-01	12-31-02	4	\$80,000	C
Steffensen, Scott		NIH	Neuropharmacological Substrates of Alcohol Addiction	09-13-01	07-31-03	1	\$318,290	C
<b><i>Social Work</i></b>								
Cox, Shirley		City of W. Wendover	Community Needs Assessment Survey	01-01-02	05-28-02	3	\$26,500	N

# Family, Home & Social Sciences 2002 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>Sociology</i>		NSF	REU: Woman Suffrage Successes and Failures in the US	04-01-01	03-31-03	1	\$7,500	C

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

N/C: N=New; C=Combined

## Department Totals

Anthropology	\$190,260
Economics	\$0
Family Life & Home Economics Ed.	\$0
Geography	\$3,333
History	\$0
Joseph Fielding Smith Institute	\$0
Marriage & Family Therapy	\$0
Marriage, Family & Human Dev.	\$0
Museum of Peoples & Cultures	\$25,318
Office of Public Archaeology	\$381,032
Political Science	\$2,408,375
Psychology	\$517,883
Social Work	\$26,500
Sociology	\$7,500
<b>College Total:</b>	<b>\$3,560,201</b>

# Family, Home & Social Sciences

## Source Breakdown of Grants and Contracts

Sponsor	Number Awarded	Total Amount
<b>Federal</b>		
BLM	3	\$170,000
BLM (SLC)	1	\$5,060
DoED	1	\$114,272
IMLS	1	\$24,318
NSF	4	\$196,033
NIH	1	\$318,290
<i>Total</i>	11	\$827,973
<b>Subcontracts</b>		
U of Utah (NIH)	2	\$104,593
<i>Total</i>	2	\$104,593
<b>State</b>		
City of W. Wendover	1	\$26,500
Merrick Young Inc.	1	\$2,500
Utah Div. Oil, Gas, Mining	2	\$53,649
UT OG&M	1	\$28,987
Utah Office of Museum Svcs.	1	\$1,000
UTA TRAX	1	\$20,056
Utah Trust Lands Admin	2	\$22,428
Washington County	2	\$17,572
<i>Total</i>	11	\$172,692
<b>Private</b>		
Brainchild Foundation	1	\$80,000
PacifiCorp	2	\$19,903
Pew Charitable Trusts	2	\$2,294,088
UVSC	1	\$45,937
Various Sources	2	\$15,000
<i>Total</i>	8	\$2,454,928

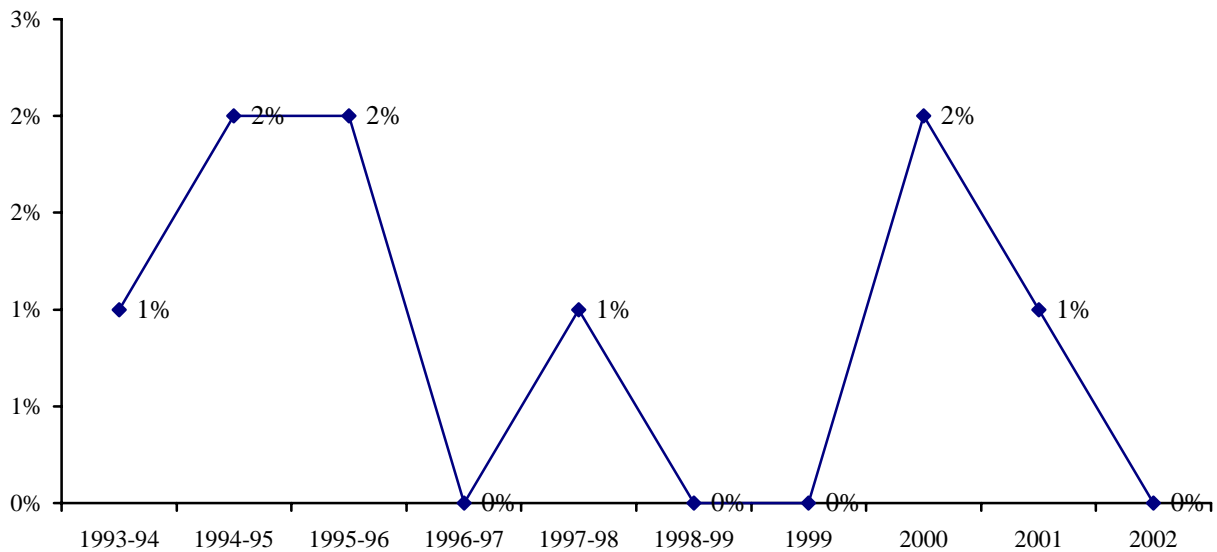


# College of Fine Arts & Communications

# Summary of Sponsored Research (Grants & Contracts)

Department	# of Faculty	# of Faculty Submitting	# of Proposals Submitted	# of Awards	Dollars Awarded
Communication	18	0	0	0	\$0
Museum of Arts	0	0	0	0	\$0
Music	48	0	0	0	\$0
Theatre & Media Arts	24	0	0	0	\$0
Visual Arts	31	0	0	0	\$0
<b>TOTALS</b>	121	0	0	0	\$0

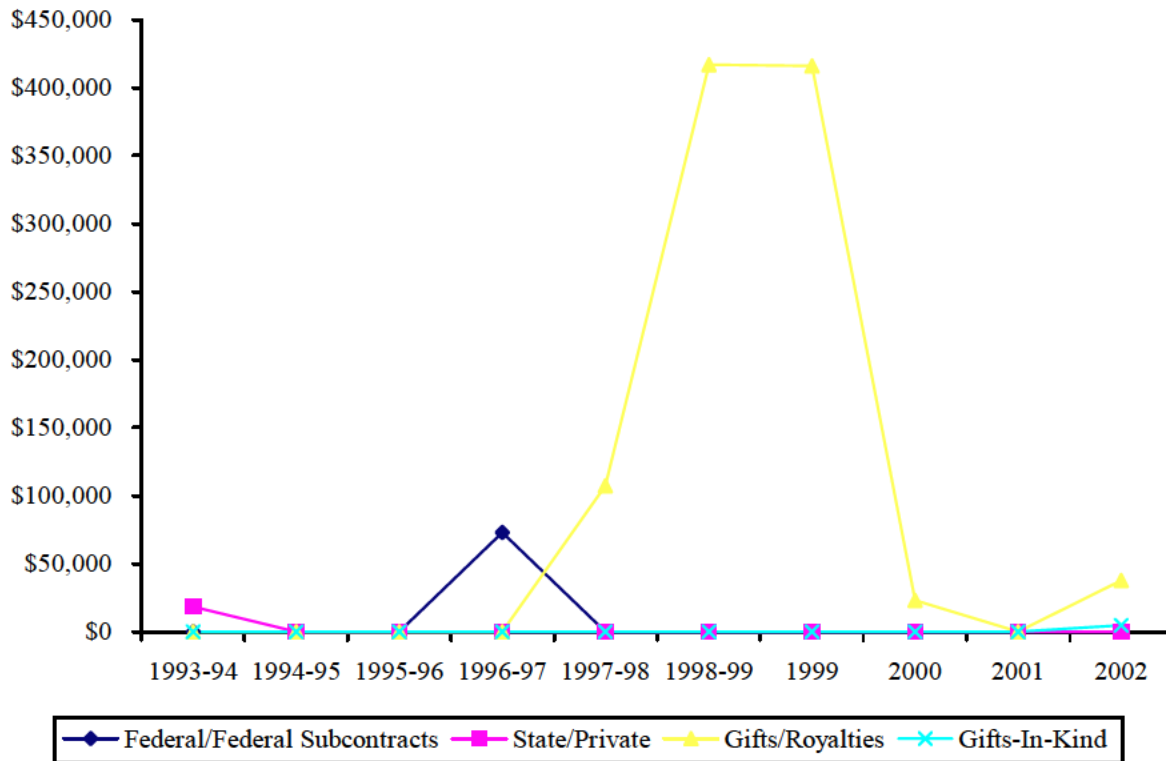
# Proposal Submission Activity



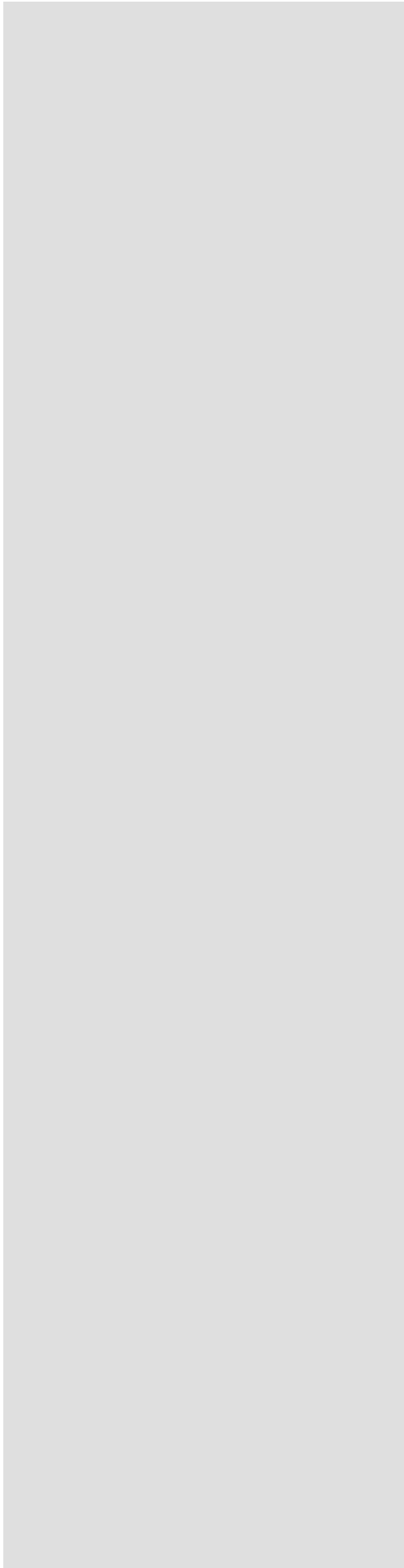
# External Research Funding (All Sources)

Year	Grants/Contracts		Gifts/Royalties	Gifts-In-Kind	Total
	Federal/Federal Subcontracts	State/Private			
1993-94	\$0	\$18,125	\$0	*	\$18,125
1994-95	\$0	\$0	\$0	\$0	\$0
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

\*Specific figures for these years were not available





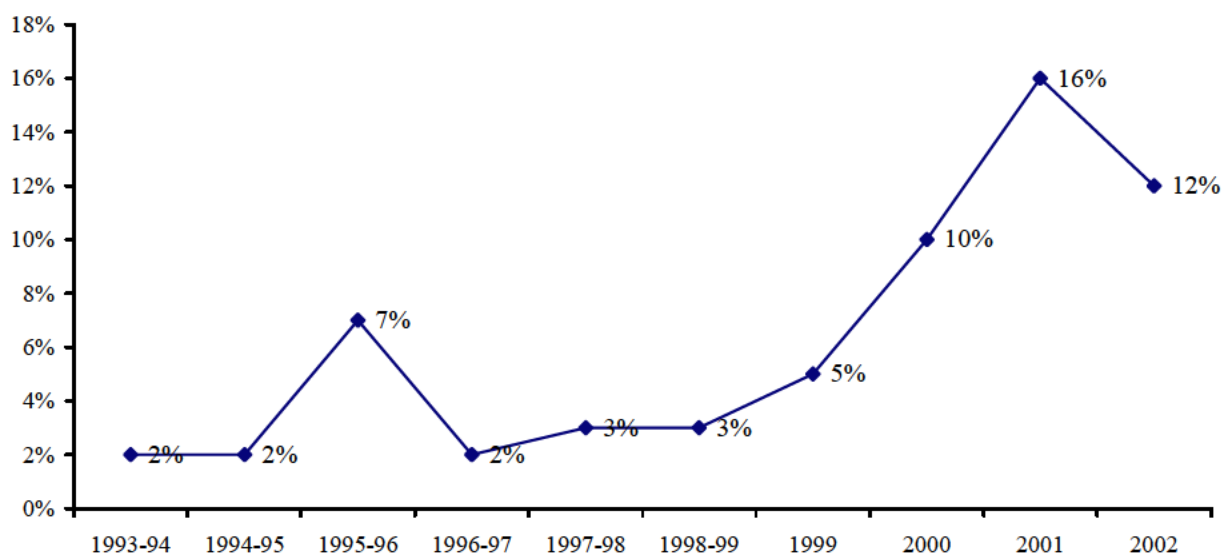


# College of Health & Human Performance

# Summary of Sponsored Research (Grants & Contracts)

Department	# of Faculty	# of Faculty Submitting	# of Proposals Submitted	# of Awards	Dollars Awarded
Dance	15	0	0	0	\$0
Health Sciences	13	2	1	0	\$0
Physical Education	27	4	2	3	\$38,500
Rec Management & Youth Ldrship	10	2	3	0	\$0
<b>TOTALS</b>	<b>65</b>	<b>8</b>	<b>6</b>	<b>0</b>	<b>\$38,500</b>

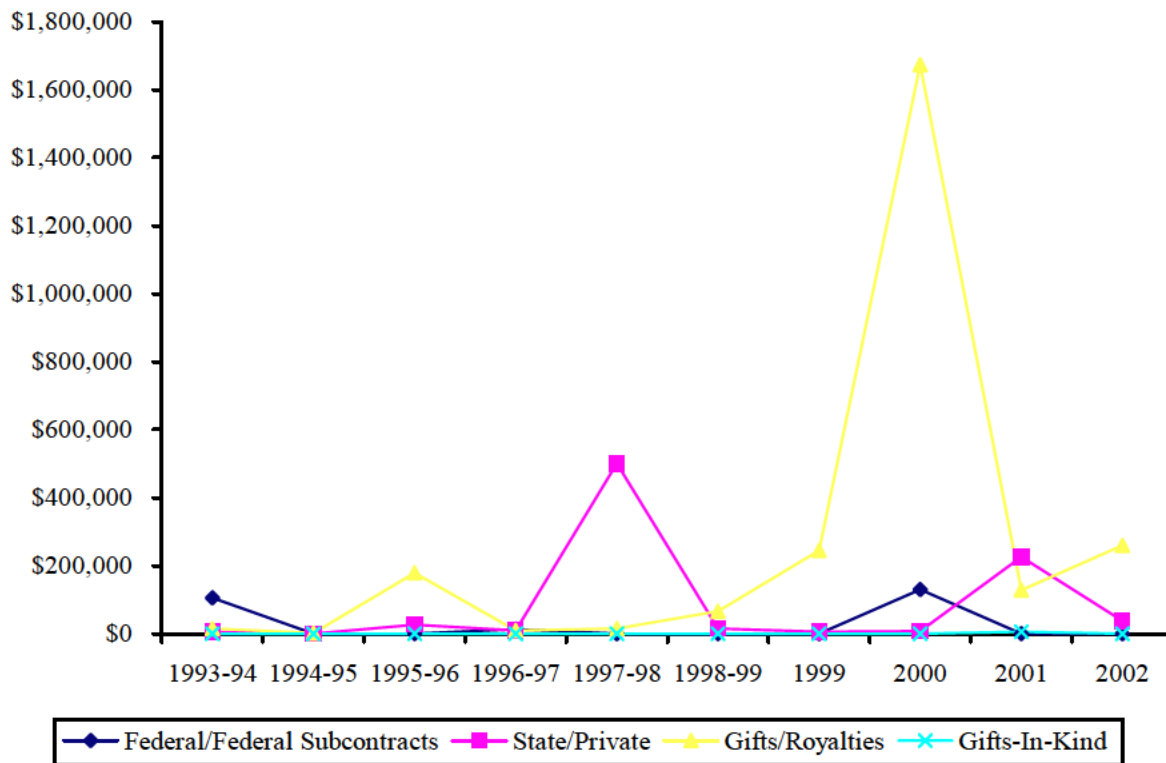
## Proposal Submission Activity



# External Research Funding (All Sources)

Year	Grants/Contracts		Gifts/Royalties	Gifts-In-Kind	Total
	Federal/Federal Subcontracts	State/Private			
1993-94	\$106,080	\$6,497	\$14,500	*	\$127,077
1994-95	\$0	\$0	\$2,300	\$0	\$2,300
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

\*Specific figures for these years were not available



# Health & Human Performance 2002 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>Physical Education</i>								
Draper, David		Procter & Gamble	Comparison of Thermancore Heatwrap, Bengay, and IcyHot	06-13-02	open	4	\$30,000	N
Hager, Ron	w/ Vehrs	Natl. School Fitness Fndtn.	Leadership in Fitness Training in Middle School P.E.	09-01-02	open	4	\$1,000	N
Padfield, Glenna	w/ Vehrs	Natl. School Fitness Fndtn.	Leadership in Fitness Training in Middle School P.E.	09-01-02	open	4	\$1,000	N
Pennington, Todd	w/ Vehrs	Natl. School Fitness Fndtn.	Leadership in Fitness Training in Middle School P.E.	09-01-02	open	4	\$1,000	N
Vehrs, Pat		Natl. School Fitness Fndtn.	Leadership in Fitness Training in Middle School P.E.	09-01-02	open	4	\$1,000	N
Vehrs, Pat		Korr Medical Tech.	Student analysis of the validity of Cardiac Coach	01-01-02	open	4	\$4,500	N

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

N/C: N=New; C=Combined

Department Totals

Dance	\$0
Health Sciences	\$0
Physical Education	\$38,500
Rec Management & Youth Ldrship	\$0

**College Total:**

\$38,500

# Health & Human Performance

## Source Breakdown of Grants and Contracts

Sponsor	Number Awarded	Total Amount
<b>Federal</b>		
None		
<i>Total</i>	<hr/>	
<b>Subcontracts</b>		
None		
<i>Total</i>	<hr/>	
<b>State</b>		
None		
<i>Total</i>	<hr/>	
<b>Private</b>		
Korr Medical Tech.	1	\$4,500
Natl. School Fitness Fndtn.	1	\$4,000
Procter & Gamble	1	\$30,000
<i>Total</i>	3	\$38,500



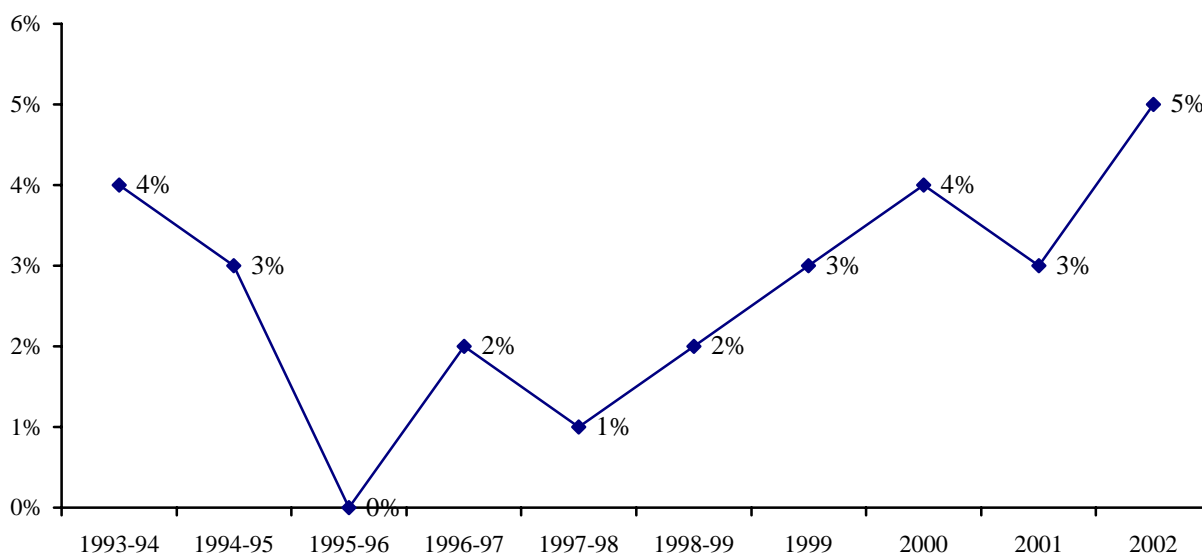
# College of Humanities

# Summary of Sponsored Research (Grants & Contracts)

Department	# of Faculty	# of Faculty Submitting	# of Proposals Submitted	# of Awards	Dollars Awarded
Asian & Near Eastern Languages	17	2	3	3	\$361,440
Center for Language Studies	0*	1	1	3	\$242,785
English	56	0	0	0	\$0
French & Italian	14	1	1	0	\$0
German & Slavic Languages	18	2	2	1	\$4,550
Hum, Classics & Comparative Lit	23	1	1	0	\$0
Humanities Research Center	1	0	0	0	\$0
Linguistics	20	2	2	2	\$38,625
Philosophy	11	1	1	0	\$0
Spanish & Portuguese	23	0	0	0	\$0
<b>TOTALS</b>	183	10	11	9	\$647,400

\*Faculty at the Center are from the Linguistics Department

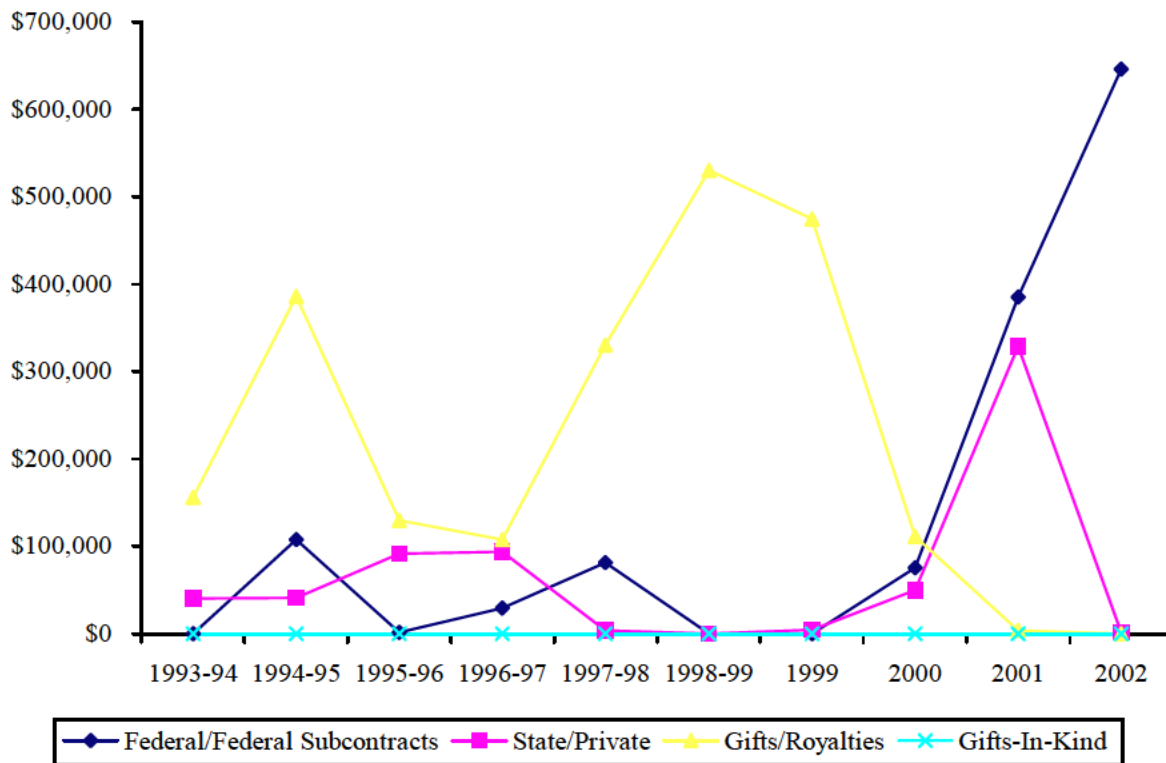
## Proposal Submission Activity



# External Research Funding (All Sources)

Year	Grants/Contracts		Gifts/Royalties	Gifts-In-Kind	Total
	Federal/Federal Subcontracts	State/Private			
1993-94	\$0	\$40,000	\$156,132	*	\$196,132
1994-95	\$107,760	\$40,742	\$385,838	\$0	\$534,340
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

\*Specific figures for these years were not available





# Humanities 2002 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 &amp; Near Eastern Languages</i>								
Belnap, Kirk		Dept. of ED	National Middle East Language Resource Center	08-15-02	08-14-03	1	\$360,000	N
Gessel, Van		LDS Church	Proofreading and Translations	06-11-97	open	4	\$1,120	C
Parkinson, Dilworth		LDS Church	Translation Project	06-11-97	open	4	\$320	C
<i>Center for Language Studies</i>								
Luthy, Mel		U of Maryland (NSEP)	National Flagship Pilot Program in Mandarin Chinese	09-16-02	12-16-02	2	\$14,600	N
Luthy, Mel		U of Maryland (NSEP)	National Flagship Program in Mandarin Chinese	10-02-02	10-31-03	2	\$185,400	C
Luthy, Melvin		US Dept. of Education	Undergraduate International Studies and Foreign Language	07-01-01	06-30-03	1	\$42,785	C
<i>German &amp; Slavic Languages</i>								
Jarvis, Donald		State Department	US Regional Scholar Exchange Program	05-01-03	06-30-03	1	\$4,550	N
<i>Linguistics</i>								
Lonsdale, Deryle	w/ Embley	NSF	Target Based Document-Independent Extraction	04-01-01	03-31-03	1	\$28,629	C
Strong-Krause, Diane		U of No. Carolina (DoED)	Literacy Action Network	01-01-03	12-31-03	2	\$9,996	N

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

N/C: N=New; C=Combined

Department Totals	
Asian & Near Eastern Languages	\$361,440
Center for Language Studies	\$242,785
English	\$0
French & Italian	\$0
German & Slavic Languages	\$4,550
Hum, Classics & Comparative Lit	\$0
Humanities Research Center	\$0
Linguistics	\$38,625
Philosophy	\$0
Spanish & Portuguese	\$0
<b>College Total:</b>	<b>\$647,400</b>

# Humanities

## Source Breakdown of Grants and Contracts

<u>Sponsor</u>	<u>Number Awarded</u>	<u>Total Amount</u>
<b>Federal</b>		
Dept. of ED	2	\$402,785
NSF	1	\$28,629
State Department	1	\$4,550
<i>Total</i>	4	\$435,964
<b>Subcontracts</b>		
U of Maryland (NSEP)	2	\$200,000
U of No. Carolina (DoED)	1	\$9,996
<i>Total</i>	3	\$209,996
<b>State</b>		
None		
<i>Total</i>		
<b>Private</b>		
LDS Church	2	\$1,440
<i>Total</i>	2	\$1,440

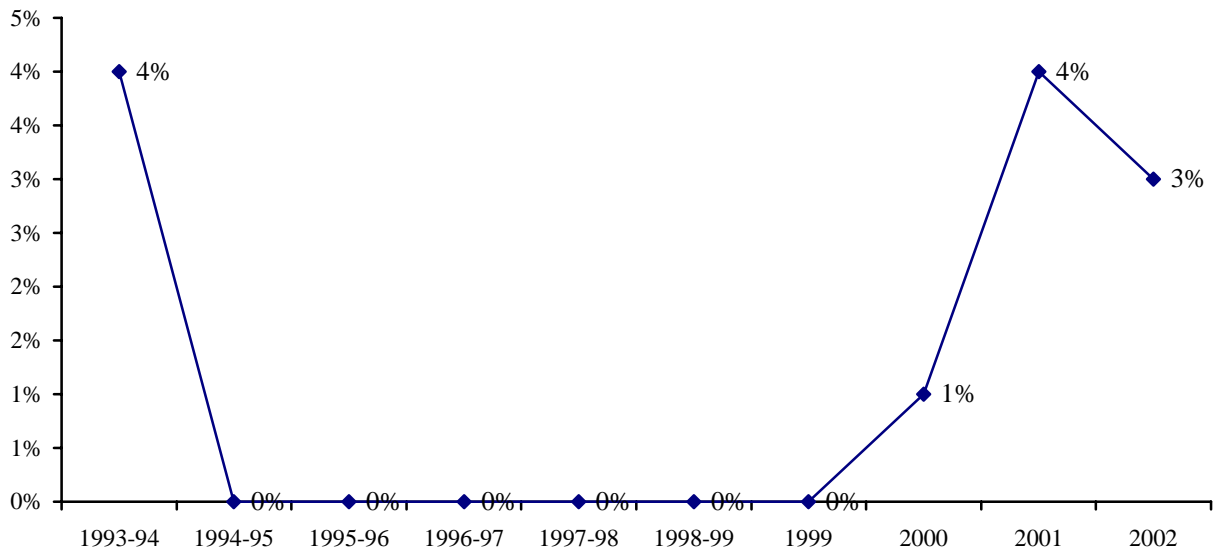


# J. Reuben Clark Law School

# Summary of Sponsored Research (Grants & Contracts)

Department	# of Faculty	# of Faculty Submitting	# of Proposals Submitted	# of Awards	Dollars Awarded
Law School	29	1	1	1	\$133,653
<i>TOTALS</i>	29	1	1	1	\$133,653

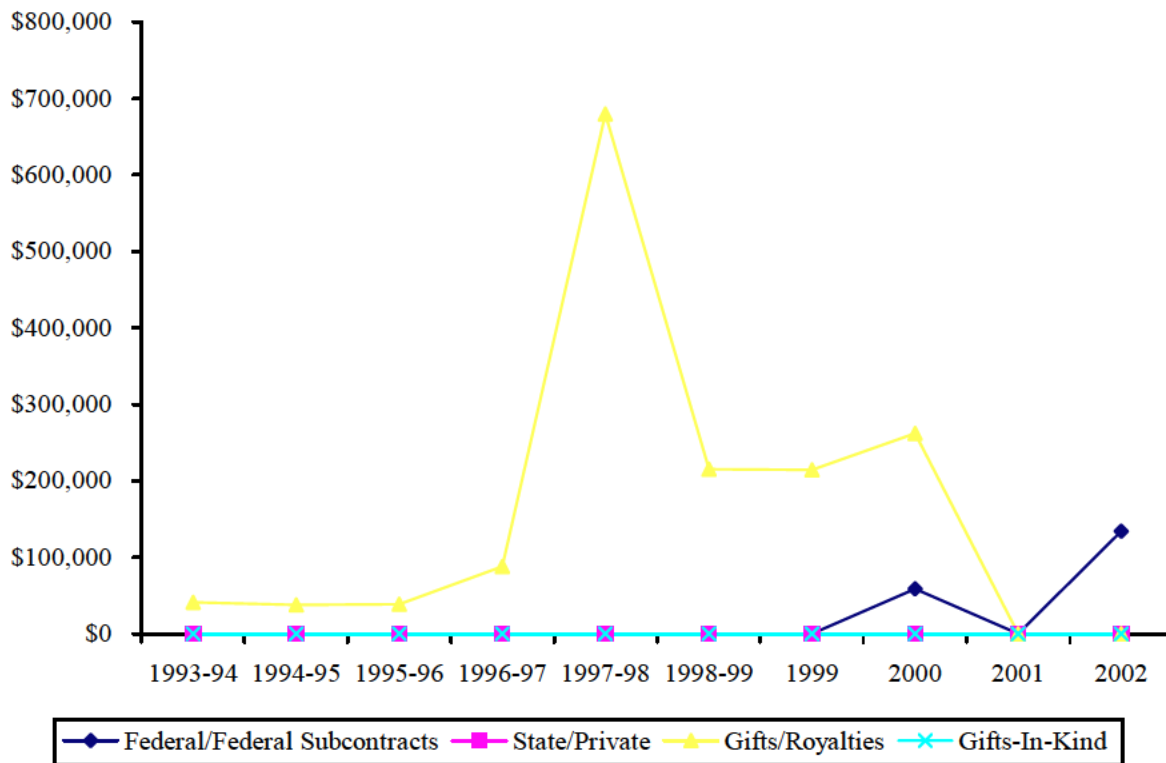
# Proposal Submission Activity



# External Research Funding (All Sources)

Year	Grants/Contracts		Gifts/Royalties	Gifts-In-Kind	Total
	Federal/Federal Subcontracts	State/Private			
1993-94	\$0	\$0	\$40,632	*	\$40,632
1994-95	\$0	\$0	\$37,793	\$0	\$37,793
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

\*Specific figures for these years were not available



# J. Reuben Clark Law School 2002 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> Durham, Cole		Library of Congress	Russian Conference on Religious Freedom	06-10-02	open	1	\$133,653	N

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

N/C: N=New; C=Combined

Department Totals  
     Law School  
*College Total:*

\$133,653
<hr/> \$133,653

# J. Reuben Clark Law School

## Source Breakdown of Grants and Contracts

Sponsor	Number Awarded	Total Amount
<b>Federal</b>		
Library of Congress	1	\$133,653
<i>Total</i>	1	\$133,653
 <b>Subcontracts</b>		
None		
<i>Total</i>		
 <b>State</b>		
None		
<i>Total</i>		
 <b>Private</b>		
None		
<i>Total</i>		



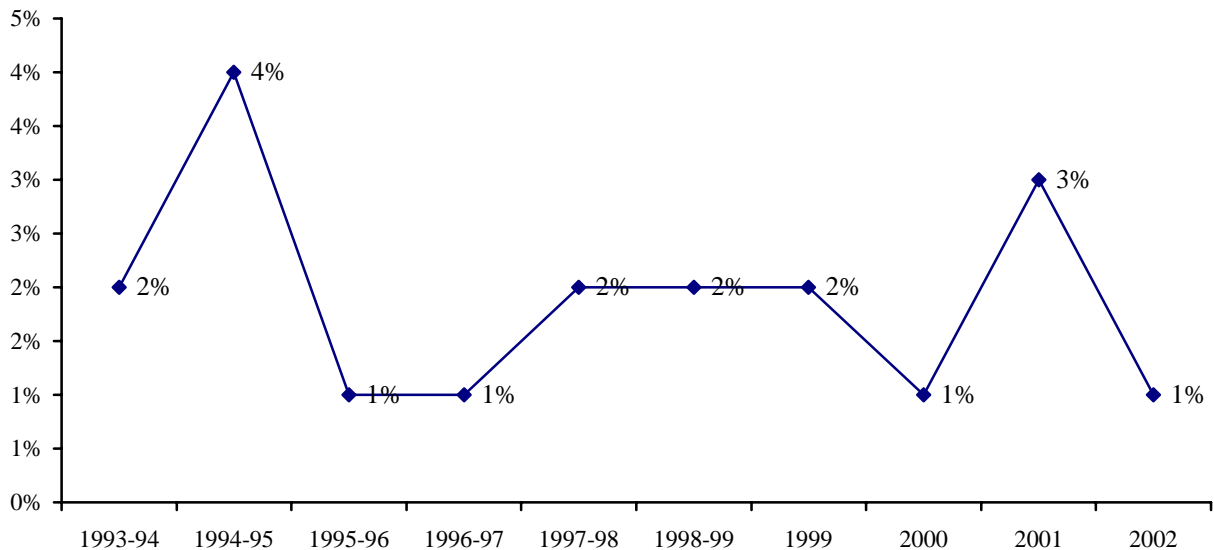
# Marriott School of Management



# Summary of Sponsored Research (Grants & Contracts)

Department	# of Faculty	# of Faculty Submitting	# of Proposals Submitted	# of Awards	Dollars Awarded
Business Management	40	1	1	2	\$542,000
Organizational Leadership & Strategy	28	0	0	0	\$0
Romney Inst of Public Management	11	0	0	0	\$0
School of Accountancy & Info Sys	45	0	0	1	\$28,628
<b>TOTALS</b>	124	1	1	3	\$570,628

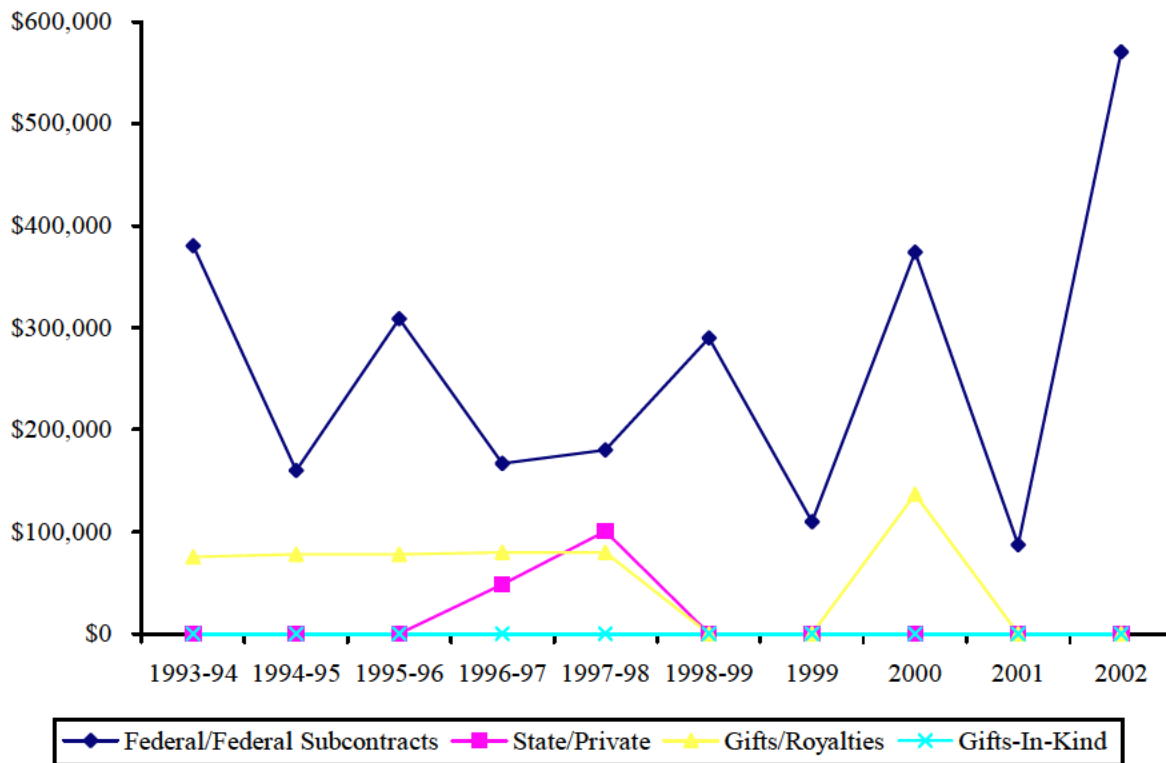
## Proposal Submission Activity



# External Research Funding (All Sources)

Year	Grants/Contracts		Gifts/Royalties	Gifts-In-Kind	Total
	Federal/Federal Subcontracts	State/Private			
1993-94	\$380,142	\$0	\$75,333	*	\$455,475
1994-95	\$159,800	\$0	\$77,825	\$0	\$237,625
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

\*Specific figures for these years were not available



# Marriott School of Management 2002 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>Business Management</i>								
Seawright, Kristie		Dept. of ED	Center for International Business Education	10-01-02	09-30-03	1	\$355,000	N
Seawright, Kristie		U of U (D of Ed)	Center for International Business Education	10-01-01	09-30-02	2	\$187,000	C
<i>School of Accountancy &amp; Information Systems</i>								
Liddle, Steven	w/ Embley	NSF	Target Based Document-Independent Extraction	04-01-01	03-31-03	1	\$28,628	C

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

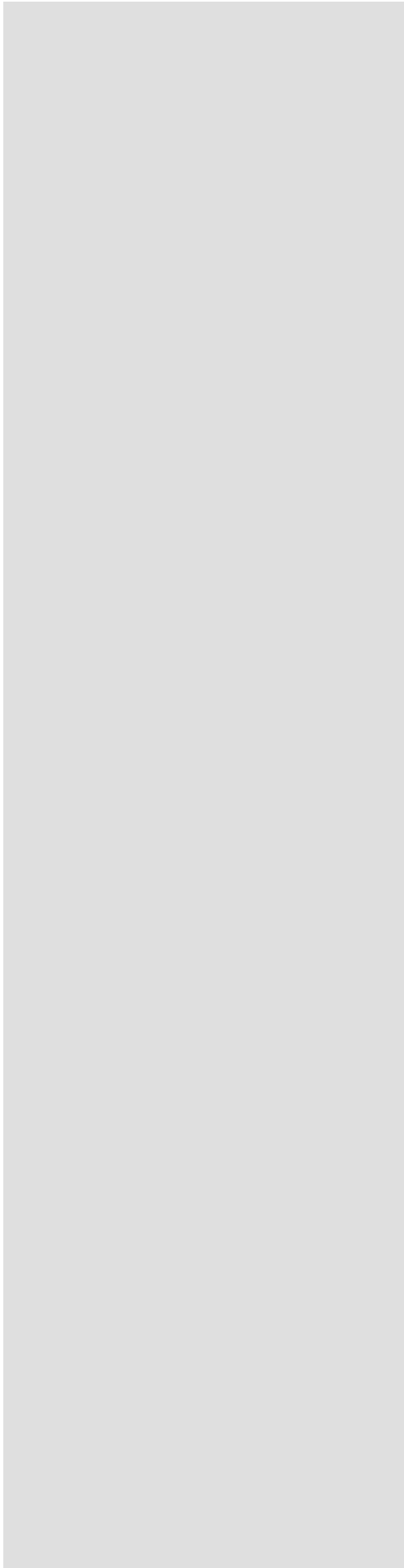
N/C: N=New; C=Combined

Department Totals	
Business Management	\$542,000
Organizational Leadership & Strategy	\$0
Romney Inst of Public Management	\$0
School of Accountancy & Info Sys	\$28,628
<b>College Total:</b>	<b>\$570,628</b>

# Marriott School of Management

## Source Breakdown of Grants and Contracts

Sponsor	Number Awarded	Total Amount
<b>Federal</b>		
Dept. of ED	1	\$355,000
NSF	1	\$28,628
<i>Total</i>	2	\$383,628
<b>Subcontracts</b>		
U of U (D of Ed)	1	\$187,000
<i>Total</i>	1	\$187,000
<b>State</b>		
None		
<i>Total</i>		
<b>Private</b>		
None		
<i>Total</i>		

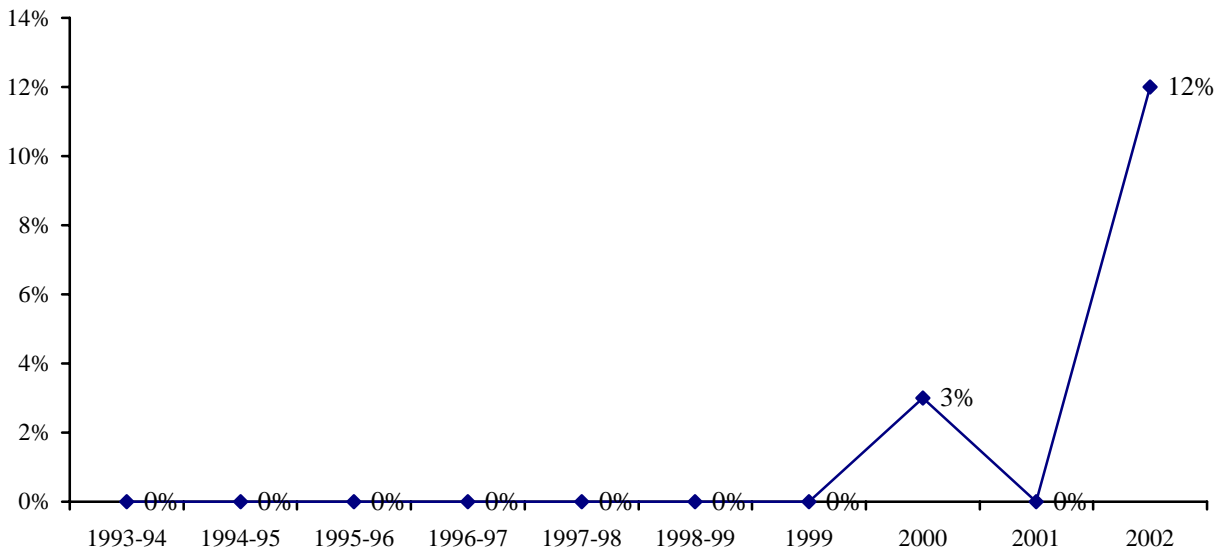


# College of Nursing

# Summary of Sponsored Research (Grants & Contracts)

Department	# of Faculty	# of Faculty Submitting	# of Proposals Submitted	# of Awards	Dollars Awarded
Nursing	33	4	2	0	\$0
<i>TOTALS</i>	33	4	2	0	\$0

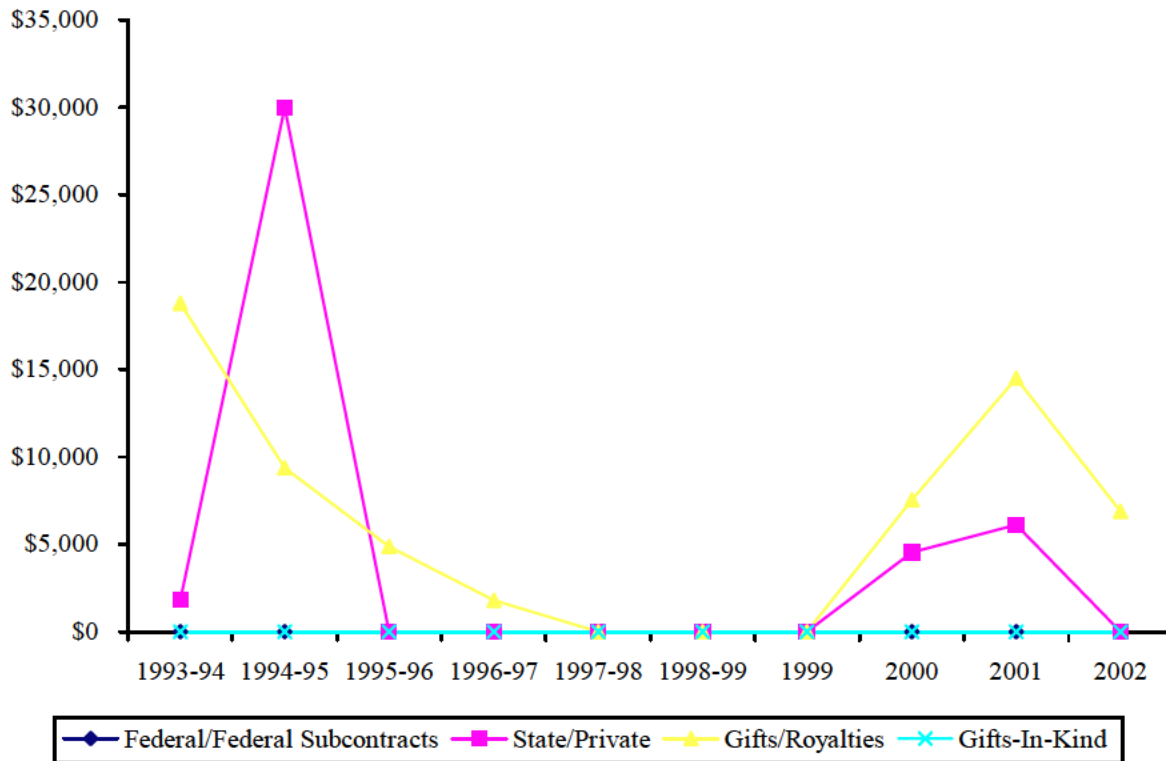
# Proposal Submission Activity

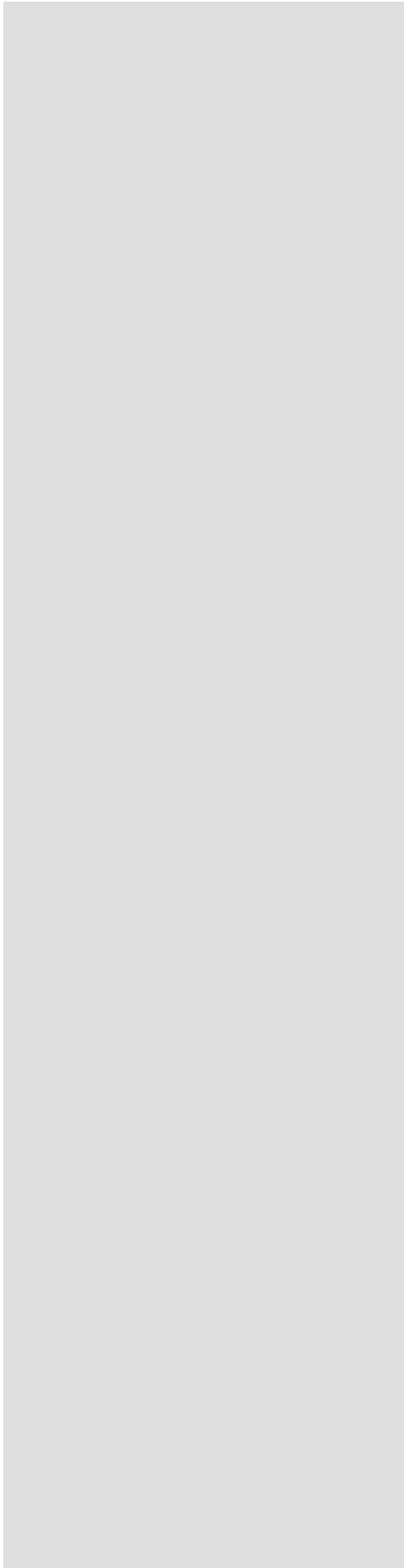


# External Research Funding (All Sources)

Year	Grants/Contracts		Gifts/Royalties	Gifts-In-Kind	Total
	Federal/Federal Subcontracts	State/Private			
1993-94	\$0	\$1,846	\$18,767	*	\$20,613
1994-95	\$0	\$30,000	\$9,377	\$0	\$39,377
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

\*Specific figures for these years were not available





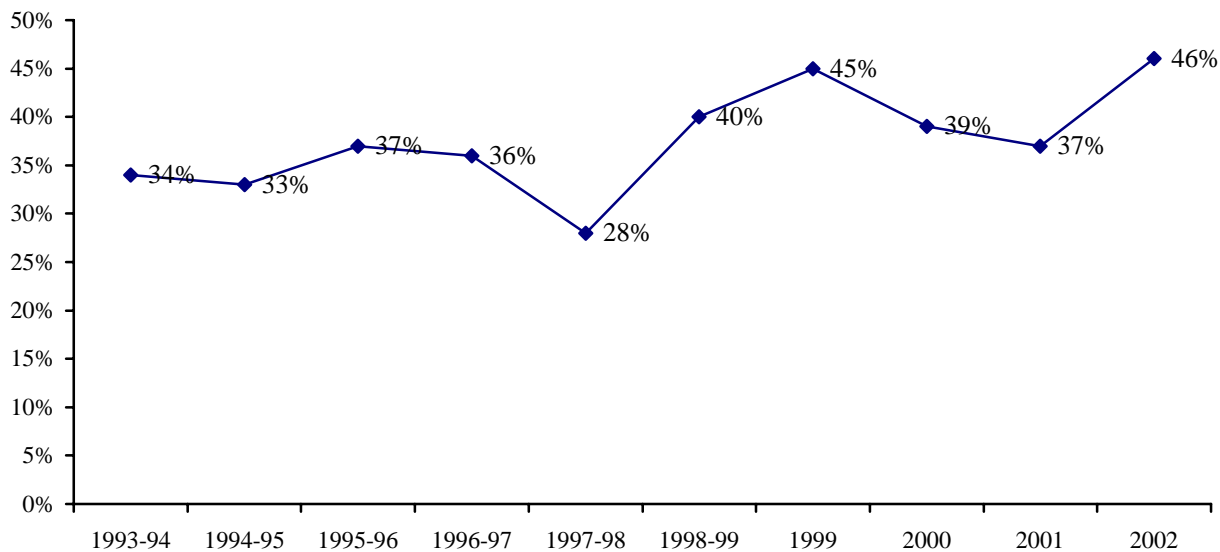
# College of Physical & Mathematical Science



# Summary of Sponsored Research (Grants & Contracts)

Department	# of Faculty	# of Faculty Submitting	# of Proposals Submitted	# of Awards	Dollars Awarded
Chemistry & Biochemistry	38	31	50	30	\$1,645,909
Computer Science	26	12	15	10	\$1,173,929
Geology	14	7	9	2	\$65,653
Mathematics	37	4	6	6	\$294,848
Mathematics Education	8	3	1	0	\$0
Physics & Astronomy	37	17	23	16	\$672,956
Statistics	15	6	7	5	\$62,805
<b>TOTALS</b>	175	80	108	68	\$3,916,100

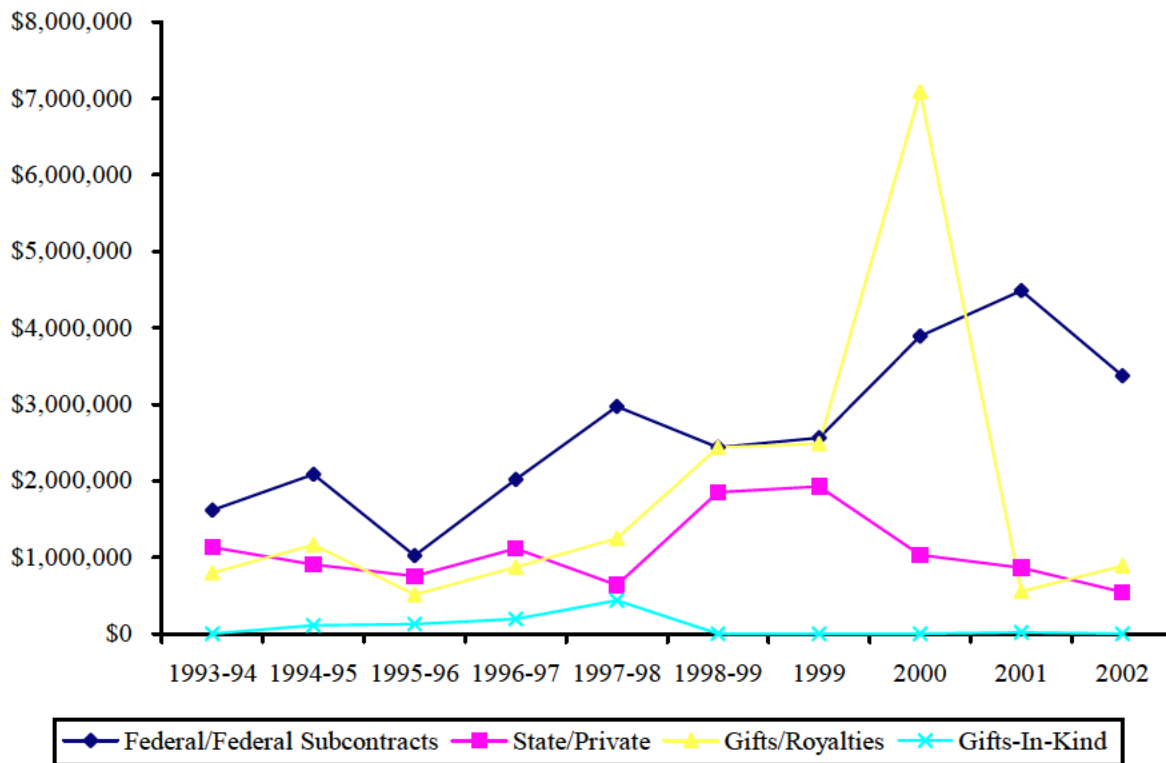
## Proposal Submission Activity



# External Research Funding (All Sources)

Year	Grants/Contracts		Gifts/Royalties	Gifts-In-Kind	Total
	Federal/Federal Subcontracts	State/Private			
1993-94	\$1,616,699	\$1,133,680	\$798,798	*	\$3,549,177
1994-95	\$2,085,112	\$899,945	\$1,164,362	\$104,920	\$4,254,339
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

\*Specific figures for these years were not available



# Physical & Mathematical Sciences 2002 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>
<b><i>Chemistry &amp; Biochemistry</i></b>								
Andrus, Merritt		NIH	Synthesis of MDR Reversing Polyenes	04-01-99	03-31-03	1	\$183,449	C
Bradshaw, Jerald		IBC	Chemical Separations	07-15-92	open	4	\$1,000	C
Eatough, Delbert		Lovelace Research	BOSS Denuder Fabrication	01-15-02	12-31-02	4	\$1,300	N
Eatough, Delbert		Recherche Scientifique	Construction of a BOSS Denuder	07-19-01	03-31-02	4	\$1,000	N
Eatough, Delbert		Brookhaven Natl. Lab	Denuder Fabrication	04-15-02	12-31-02	1	\$1,300	N
Eatough, Delbert		EPA	Measurement of SemiVolatile Particle Matter	12-20-02	09-15-04	1	\$87,677	N
Eatough, Delbert		DOE	National Energy Technology Lab Projects	10-01-00	12-31-02	1	\$25,000	C
Henderson, Doug		Rush Presbyterian	Properties of Ionic Solutions and Ionic Channels	02-27-01	open	4	\$437	C
Izatt, Reed		US Army Res. Office	Modeling and Thermodynamics of Aqueous Solutions	06-01-01	11-30-02	1	\$65,000	C
Izatt, Reed		Dept. Of the Army	Modeling and Thermodynamic Study of Selected Aqueous Chemical Systems from 370 to 415 C	06-01-01	11-30-03	1	\$65,000	C
Lamb, John		Dionex Corp.	Macrocycle Based Ion Chromotography	07-01-91	06-30-03	4	\$10,360	C
Lee, Milton		Palamar Technologies	High Throughput Chemical Analyzer	07-01-02	03-31-03	4	\$12,400	N
Savage, Paul		NIH	Development of New Lipid A Binding Agents	06-01-98	05-31-03	1	\$163,004	C
Savage, Paul		NAU (NIH)	Receptor Aggregation on the Cell Surfaces	03-15-02	02-28-03	2	\$14,982	N
Vernon, Leo		Therapro Technologies	Immunotoxins and Immunoregulators	09-01-95	open	4	\$25,000	C
Vernon, Leo		TheraPro Tech.	Immunotoxins and Immunoregulators	09-01-95	open	4	\$26,000	C
Vernon, Leo		Therapro Technologies	Immunotoxins and Immunoregulators	09-01-95	open	4	\$25,000	C
Vernon, Leo		Therapro Technologies	Immunotoxins and Immunoregulators	09-01-95	open	4	\$50,000	C
Vernon, Leo		Therapro Tech.	Immunotoxins and Immunoregulators	09-01-95	open	4	\$22,000	C
Vernon, Leo		Therapro Tech.	Immunotoxins and Immunoregulators	09-01-95	open	4	\$10,000	C
Vernon, Leo		TheraPro Technologies	Immunotoxins and Immunoregulators	09-01-95	open	4	\$3,000	C
Veron, Leo		Therapro Technologies	Immunotoxins and Immunoregulators	09-01-95	open	4	\$7,000	C
Watt, Gary	w/ Harb	NASA	Nanomaterials & Structures for Nano & Micropower Applications	01-15-02	01-14-05	1	\$23,433	N
Willardson, Barry		NIH	NCRR Shared Instrument Grant	05-01-02	04-30-03	1	\$245,940	N
Willardson, Barry		NSF	Regulation of the Cytosolic Chaperonin Complex	04-01-02	03-31-04	1	\$202,759	N
Willardson, Barry		NIH	Regulation of Visual Signal Transduction by Photosducin	05-03-99	04-30-04	1	\$179,697	C
Woodfield, Brian		DOE Oakridge Ntl. Lab	Low Temperature Heat Capacity Measurements	07-03-02	12-01-02	1	\$20,000	N
Woodfield, Brian		Dept. of ED	Simulations of Instructional Chemistry Labs	10-01-00	09-30-03	1	\$74,962	N
Woolley, Adam		Army	DNA Template Patterning and Fabrication of Nannowires	09-01-02	10-31-03	1	\$40,000	N
Woolley, Adam		Dept. Of the Army	Patterning and Fabrication of Conductive Nannowires	09-01-02	10-31-03	1	\$59,209	C
<b><i>Computer Science</i></b>								
Campbell, Doug	w/ Embley	NSF	Target Based Document-Independent Extraction	04-01-01	03-31-03	1	\$28,628	C
Clement, Mark		AT&T	QoS Traffic Analysis	12-01-99	12-31-03	4	\$47,500	C
Clement, Mark	w/ Whiting	NSF	REU Support for Biocomplexity Hexopod Phylogenomics	01-01-02	12-31-06	1	\$4,000	C
Olsen, Dan Jr.		DARPA	Neglect Tolerant Interaction for Multi-Robot Teams	08-01-02	7-31-003	1	\$121,367	N
Embley, David		NSF	Target Based Document-Independent Extraction	04-01-01	03-31-03	1	\$28,629	C

# Physical & Mathematical Sciences 2002 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>
Goodrich, Michael		DARPA	Neglect Tolerant Interaction for Multi-Robot Teams	08-01-02	7-31-03	1	\$265,705	N
Goodrich, Michael		DARPA	Neglect Tolerant Interaction for Multi-Robot Teams	08-01-02	07-31-03	1	\$60,414	C
Goodrich, Michael		DARPA	Neglect tolerant Interaction for Multi-Robot Teams	08-01-02	07-01-03	1	\$7,500	C
Jones, Michael		Intel	Design Technology for Protocols	05-14-02	open	4	\$10,000	N
Ng, Dennis	w/ Embley	NSF	Target Based Document-Independent Extraction	04-01-01	03-31-03	1	\$28,628	C
Seamons, Kent		SPAWAR	Trust Negotiations for Dynamic Coalitions	03-21-01	03-20-04	2	\$475,000	C
Sederberg, Thomas		UC Davis (NSF)	Surface Intersection Algorithms & Trimmed Surface Representations	05-01-02	04-30-04	2	\$49,058	N
Snell, Quin	w/ Clement	AT&T	QoS Traffic Analysis	12-01-99	12-31-03	4	\$47,500	C
<b>Geology</b>								
Bickmore, Barry		NSF	The Earth Science Storybook Project	10-01-02	09-30-03	1	\$19,959	N
Bothell, Tim	w/ Bickmore	NSF	The Earth Science Storybook Project	10-01-02	09-30-03	1	\$19,959	N
Christiansen, Eric	w/ Bickmore	NSF	The Earth Science Storybook Project	10-01-02	09-30-03	1	\$19,958	N
Mayo, Alan		Utah DWR	Source Groundwater Recharge to the Midway Hatchery	04-15-99	09-30-02	3	\$5,777	C
<b>Mathematics</b>								
Baker, Roger		NSF	Kloosterman Sums, Fourier Coefficients and Number Theory	08-01-00	07-31-03	1	\$24,834	C
Bates, Peter		NSF	Infinite Dimensional Dynamical Systems	06-01-02	05-31-03	1	\$27,250	N
Cannon, James		NSF	Asymptotic Properties of 3-manifolds	07-15-01	06-30-03	1	\$35,012	C
Lu, Kenning		NSF	America's Workshop on Non-Linear Dynamics	06-15-02	05-31-03	1	\$9,500	N
Lu, Kenning		NSF	Infinite Dimensional Dynamical Systems	06-01-02	05-31-03	1	\$27,250	N
Pollington, Andrew		NSF	Intergovernmental Personnel Assignment	09-03-02	09-02-03	1	\$151,002	N
Wright, David		Inst. For Adv. Studies	Outreach Group for Secondary Math Teachers	01-01-02	12-31-03	4	\$20,000	N
<b>Physics &amp; Astronomy</b>								
Allred, David		ASU (NSF)	A Polarimeter for EUV Multiplayer Reflectors	06-01-02	05-31-03	2	\$756	C
Bergeson, Scott		NSF	Highly Excited, Ultra Cold Atoms	06-01-00	08-31-03	1	\$121,869	C
Bergeson, Scott		NIST	Surfing The Physics Lab	05-01-02	09-01-02	1	\$13,244	N
Blotter, Jonathan	w/ Leishmann	LDS Church	Conference Center Audio System upgrade	07-01-02	11-30-02	4	\$20,037	N
Davis, Robert		Cornell (NSF)	Nanoscale Systems in Information Systems	09-01-01	08-31-03	2	\$30,000	C
Davis, Robert	w/ Harb	NASA	Nanomaterials & Structures for Nano & Micropower Applications	01-15-02	01-14-05	1	\$23,433	N
Davis, Robert		Cornell (NSF)	Nanoscale Systems in Information Technologies	09-01-01	08-31-06	2	\$30,000	N
Durfee, Dalin		Research Corp	Optical Clock, Measurement of the Drift	11-18-02	11-17-03	4	\$35,000	N
Hintz, Eric		Astropysical Research Fndtn.	Research on the 16" David Derrick Telescope	01-01-02	12-31-02	4	\$1,909	N
Hirschmann, Eric		NSF	Modelling Gravitational Collapse	07-01-02	06-30-04	1	\$50,000	N
Leishman, Timothy		LDS Church	Refinement of Conference Center Acoustics	07-01-02	04-30-03	4	\$9,626	C
Leishman, Timothy		LDS Church	Conference Center Audio System upgrade	07-01-02	11-30-02	4	\$20,037	N
Lewis, James		U of U (DOE)	C-SAFE, Fireball Project Construction of Laser System Producing Short Light Pulses	09-01-01	12-15-02	2	\$30,092	C
Peatross, Justin		ASU (NSF)	Experiments with High Harmonic Generation	08-26-02	08-25-03	2	\$756	N
Peatross, Justin		NSF	Experiments with High Harmonic Generation	07-01-00	06-30-03	1	\$60,210	C

# Physical & Mathematical Sciences 2002 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 Inc.	Active Noise Control in Earth Moving Equipment	07-23-01	12-31-02	4	\$99,788	C
Sommerfeldt, Scott	w/ Leishman	LDS Church	Conference Center Audio System upgrade	07-01-02	11-30-02	4	\$20,037	N
Sommerfeldt, Scott	w/ Leishman	LDS Church	Refinement of Conference Center Acoustics	07-01-02	04-30-03	4	\$9,625	C
Turley, Steven		NSF	Physics Research Experiences	05-01-00	08-31-03	1	\$96,537	C
<b>Statistics</b>								
Christensen, William		U of Wisconsin (EPA)	Characterization of Emission & Human Exposure from Motor Vehicles	07-01-02	03-31-03	2	\$13,343	N
Fellingham, Gil		Utah Labor Commission	Assessing OxiContin	09-24-02	open	3	\$4,800	N
Fellingham, Gil	w/ Vehrs	Natl. School Fitness Fndtn.	Leadership in Fitness Training in Middle School P.E.	09-01-02	open	4	\$1,000	N
Reese, Chris		Los Alamos (DOE)	Integrated Approach to Heirarchical Modeling	02-04-02	09-30-02	2	\$18,662	N
Whiting, David	w/ Rogers	NSF	Systematic Biology and Bioinformatics Research Experiences	08-01-02	07-31-03	1	\$25,000	N

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

N/C: N=New; C=Combined

## Department Totals

Chemistry & Biochemistry	\$1,645,909
Computer Science	\$1,173,929
Geology	\$65,653
Mathematics	\$294,848
Mathematics Education	\$0
Physics & Astronomy	\$672,956
Statistics	\$62,805
<b>College Total:</b>	<b>\$3,916,100</b>

# Physical & Mathematical Sciences

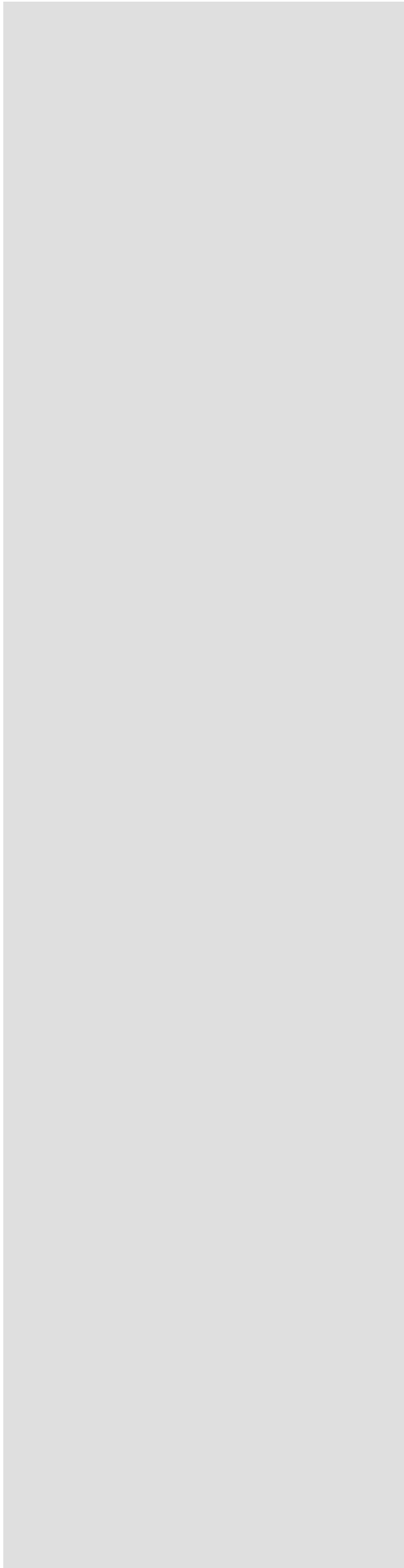
## Source Breakdown of Grants and Contracts

<b>Sponsor</b>	<b>Number Awarded</b>	<b>Total Amount</b>
<b>Federal</b>		
Army	3	\$164,209
Brookhaven Natl. Lab	1	\$1,300
DARPA	4	\$454,986
Dept. of ED	1	\$74,962
DOE	1	\$25,000
DOE Oakridge Natl. Lab	1	\$20,000
EPA	1	\$87,677
NASA	1	\$46,866
NIH	4	\$772,090
NIST	1	\$13,244
NSF	14	\$980,984
US Army Res. Office	1	\$65,000
<b>Total</b>	<b>33</b>	<b>\$2,706,318</b>
<b>Subcontracts</b>		
ASU (NSF)	2	\$1,512
Cornell (NSF)	2	\$60,000
Los Alamos (DOE)	1	\$18,662
NAU (NIH)	1	\$14,982
SPAWAR	1	\$475,000
UC Davis (NSF)	1	\$49,058
U of U (DOE)	1	\$30,092
U of Wisconsin (EPA)	1	\$13,343
<b>Total</b>	<b>10</b>	<b>\$662,649</b>
<b>State</b>		
Utah DWR	1	\$5,777
Utah Labor Commission	1	\$4,800
<b>Total</b>	<b>2</b>	<b>\$10,577</b>

# Physical & Mathematical Sciences

## Source Breakdown of Grants and Contracts

Sponsor	Number Awarded	Total Amount
<b>Private</b>		
Astrophysical Research Fndtn.	1	\$1,909
AT&T	1	\$95,000
Caterpillar Inc.	1	\$99,788
Dionex Corp.	1	\$10,360
IBC	1	\$1,000
Inst. For Adv. Studies	1	\$20,000
Intel	1	\$10,000
LDS Church	2	\$79,362
Lovelace Research	1	\$1,300
Natl. School Fitness Fndtn.	1	\$1,000
Palamar Technologies	1	\$12,400
Recherche Scientifique	1	\$1,000
Research Corp	1	\$35,000
Rush Presbyterian	1	\$437
Therapro Technologies	8	\$168,000
<b>Total</b>	23	\$536,556



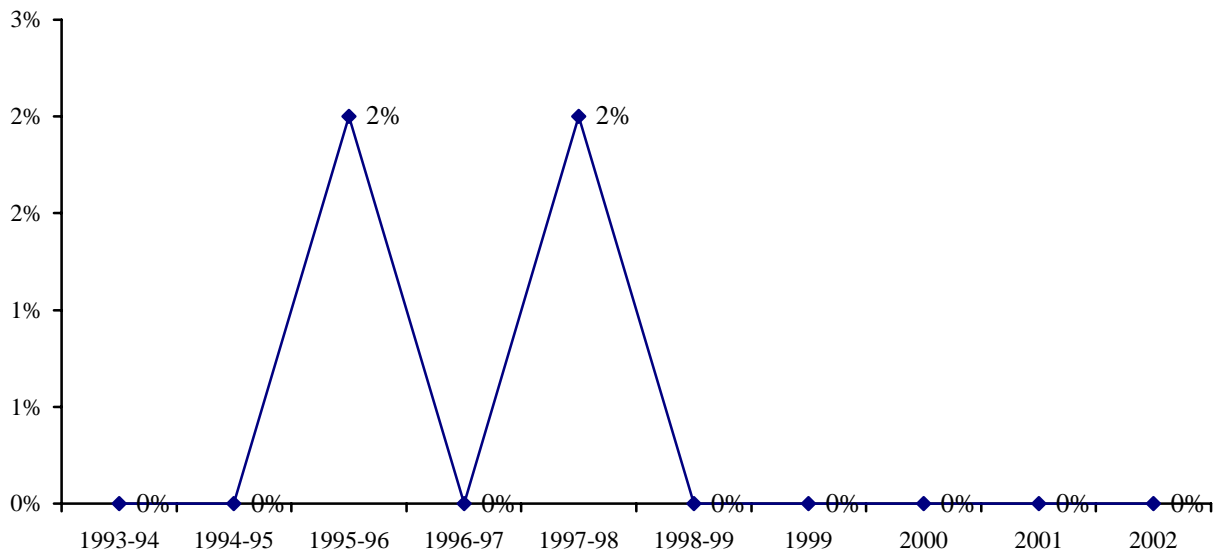
# College of Religious Education



# Summary of Sponsored Research (Grants & Contracts)

Department	# of Faculty	# of Faculty Submitting	# of Proposals Submitted	# of Awards	Dollars Awarded
Ancient Scripture	33	0	0	0	\$0
Church History & Doctrine	37	0	0	0	\$0
<i>TOTALS</i>	70	0	0	0	\$0

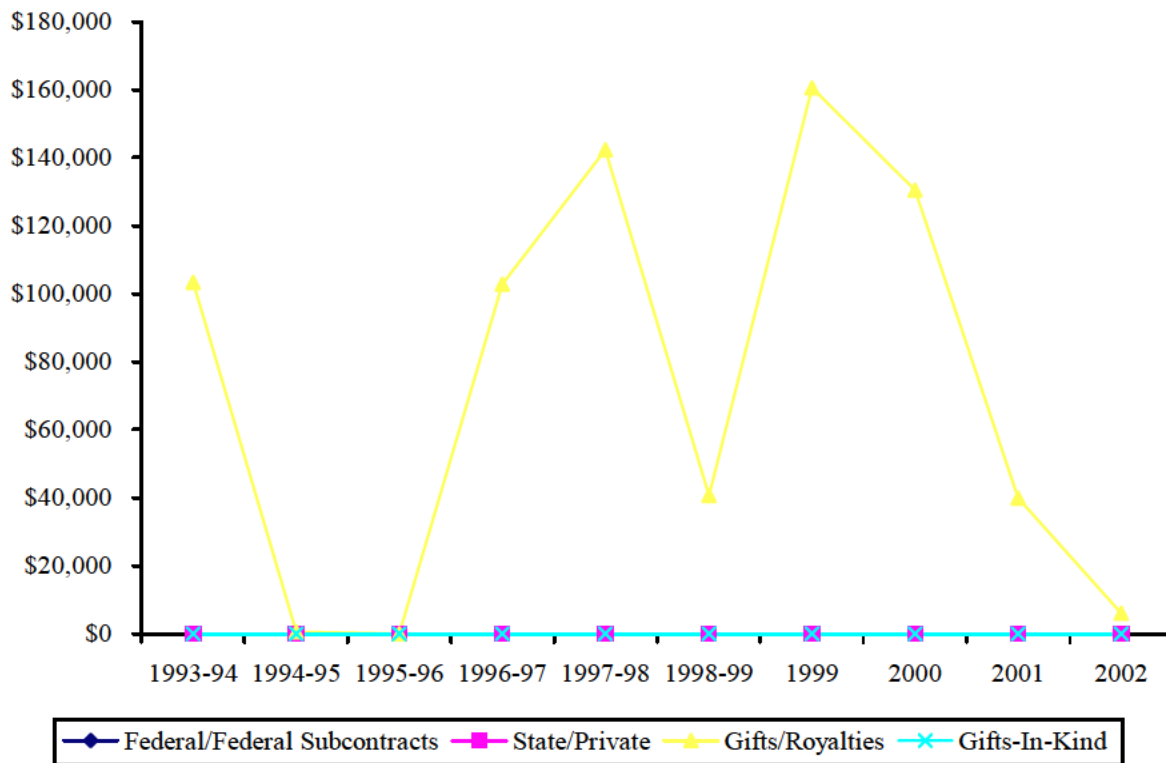
# Proposal Submission Activity



# External Research Funding (All Sources)

Year	Grants/Contracts		Gifts/Royalties	Gifts-In-Kind	Total
	Federal/Federal Subcontracts	State/Private			
1993-94	\$0	\$0	\$103,359	*	\$103,359
1994-95	\$0	\$0	\$567	\$0	\$567
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

\*Specific figures for these years were not available



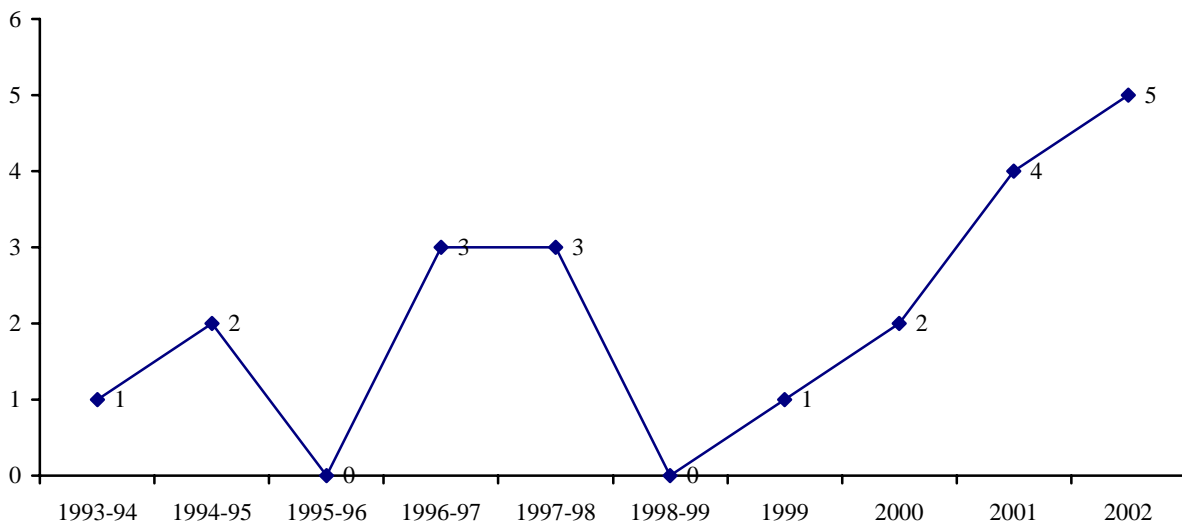


# Non-College Units

# Summary of Sponsored Research (Grants & Contracts)

Department	# of Proposals Submitted	# of Awards	Dollars Awarded
Academic VP Student Life	0	0	\$0
Admissions & Records	0	0	\$0
Center for Instructional Design	0	0	\$0
Church Educational System	0	0	\$0
Faculty Center	1	0	\$0
General Education & Honors	0	0	\$0
Harold B. Lee Library	1	0	\$0
Information Technology Services	0	0	\$0
Jacobsen Center	2	1	\$29,600
Media Services	0	0	\$0
Technology Transfer	0	1	\$32,000
University Accessibility Center	1	0	\$0
University Computing Services	0	0	\$0
<b>TOTALS</b>	<b>5</b>	<b>2</b>	<b>\$61,600</b>

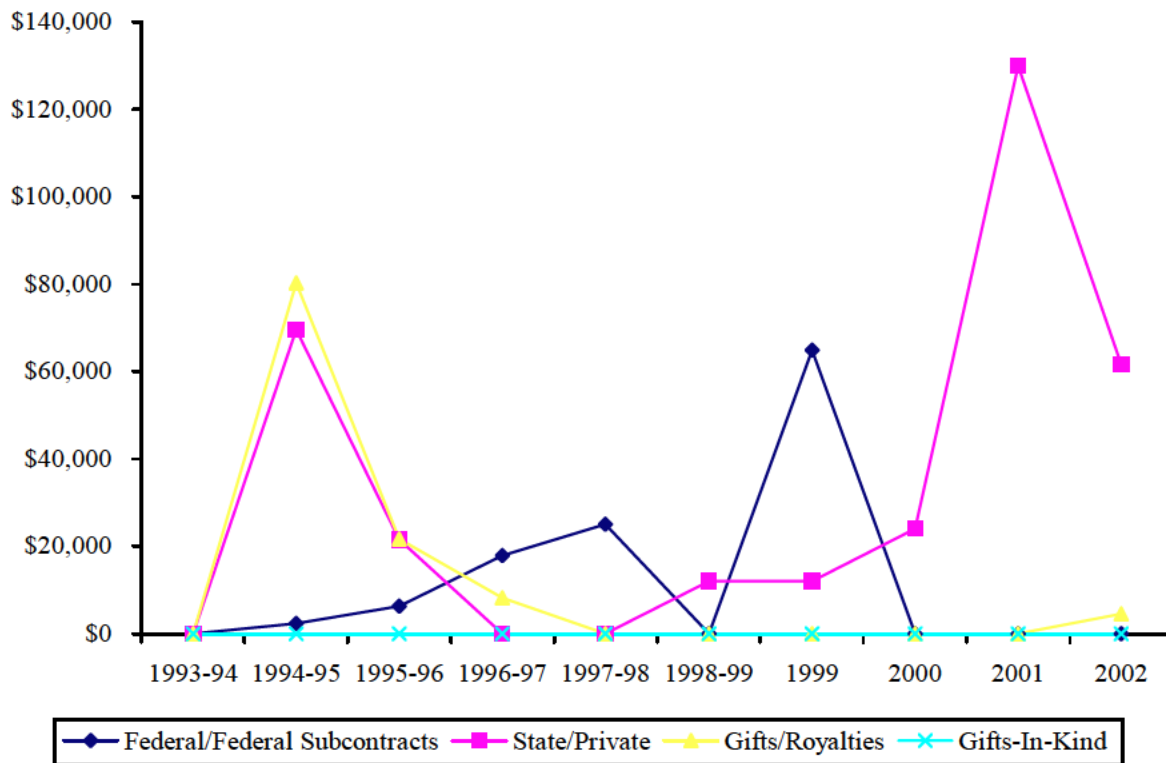
## Proposals Submitted



# External Research Funding (All Sources)

Year	Grants/Contracts		Gifts/Royalties	Gifts-In-Kind	Total
	Federal/Federal Subcontracts	State/Private			
1993-94	\$0	\$0	\$0	*	\$0
1994-95	\$2,300	\$69,500	\$80,221	\$0	\$152,021
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

\*Specific figures for these years were not available



# Non-College Units 2002 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>Jacobsen Center</i>								
Backman, James		UT Commission on Volunteers	Americorps Fellowships	10-01-02	09-30-03	3	\$29,600	C
<i>Technology Transfer</i>								
Astle, Lynn		UT State COE	Market Consultants for COE Centers	07-01-02	06-30-03	3	\$32,000	C

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

N/C: N=New; C=Combined

## Department Totals

Academic VP Student Life	\$0
Admissions & Records	\$0
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	\$29,600
Media Services	\$0
Technology Transfer	\$32,000
University Accessibility Center	\$0
University Computing Services	\$0
<b><i>College Total:</i></b>	<b>\$61,600</b>

# Non-College Units

## Source Breakdown of Grants and Contracts

<u>Sponsor</u>	<u>Number Awarded</u>	<u>Total Amount</u>
<b>Federal</b>		
None		
<i>Total</i>	<hr/>	
<b>Subcontracts</b>		
None		
<i>Total</i>	<hr/>	
<b>State</b>		
UT Commission on Volunteers	1	\$29,600
UT State COE	1	\$32,000
<i>Total</i>	2	\$61,600
<b>Private</b>		
None		
<i>Total</i>	<hr/>	



# 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.<sup>1</sup> The Office of Research and Creative Activities specifically supports three university committees and provides other certifications as needed. The following pages contain a record of official actions taken by these committees during the January 2002 through December 2002 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 2002 membership and activities are on subsequent pages.

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

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

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

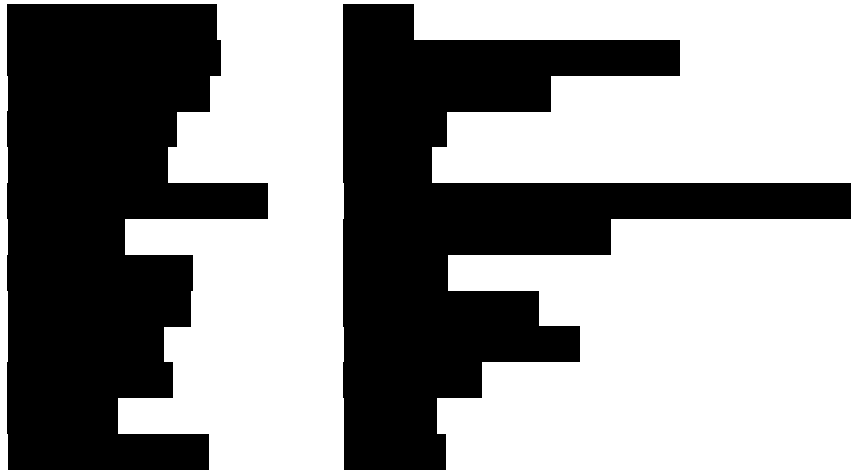
**The Institutional BioSafety Committee (IBC)** supervises the use of recombinant DNA and other biological safety and hazard issues at BYU. Such use might involve constructing and handling DNA molecules in organisms. The Institutional BioSafety Committee must review all proposed experiments and approve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

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

# The Institutional Review Board (IRB)

Research involving human subjects requires approval of the university's IRB committee. This committee works closely with departmental or college communities and administrators and is composed of the following individuals:



The actions of the IRB committee for 2002 are summarized by the following table.

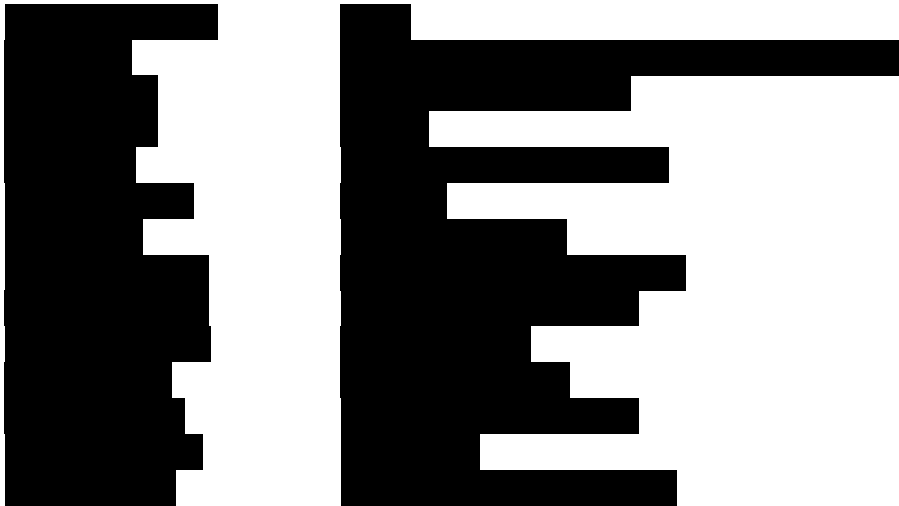
## IRB Protocol Activity 2002

College	Expedited	Full Board	Exempt	Pending	Approved	Withdrawn, Denied or On Hold	Continuing Projects
[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]



# The Institutional Animal Care & Use Committee (IACUC)

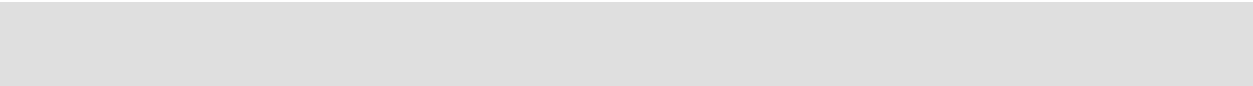
The IACUC is a required university committee that oversees animal care and use, whether in research or instructional programs. This committee is composed of the following individuals:



The actions of the IACUC committee for 2002 are summarized by the following table.

**IACUC Protocol Activity 2002**

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 two new projects reviewed and fourteen annual reviews done by the BioSafety Committee during the 2002 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>
2002	Michael Bush
2001	Richard L. Rowley
2000	David Magleby
1999	Jack W. Sites, Jr.

## *Intellectual Properties*

<i>Year</i>	<i>Recipient</i>
2002	David Jensen
2001	Steve A. Fleming Larry L. Howell Paul B. Savage
2000	Ed Red Sandra Mangum
1999	Douglas M. Chabries Richard Christiansen Ron Simpson

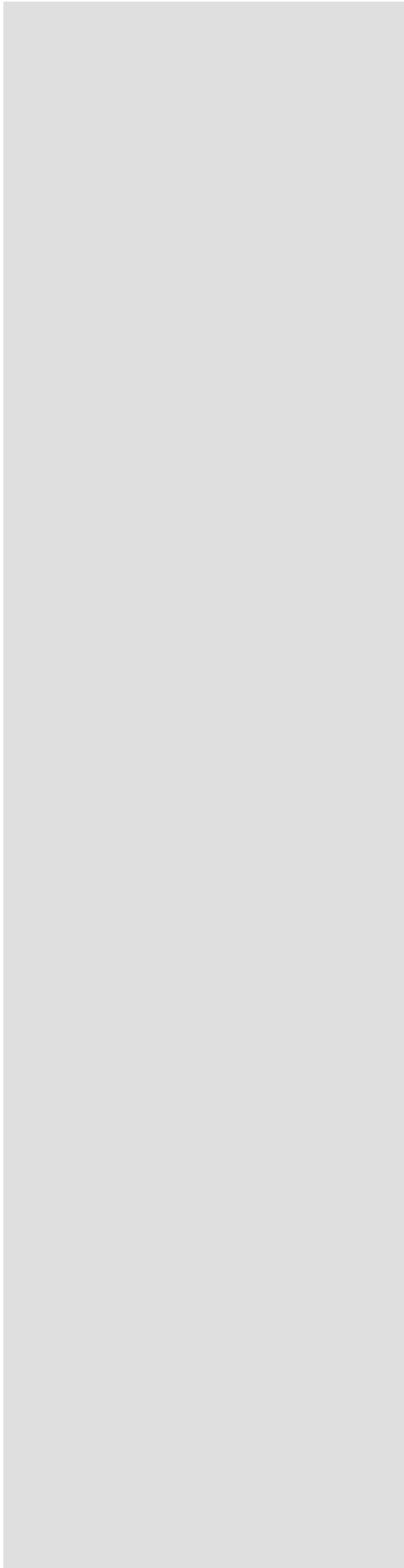
# 2002 Environments for Mentoring Grant Recipients

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.

Recipient	Title	Dept	College
Stevens, Mikel	Quinoa Genetic Improvement	P&A	B&A
McClellan, David	Evolutionary Genetics--A Research Proposal for Mentoring BYU Undergraduate Students	IB	B&A
Burton, Gregory	Mentored Environment in HIV Pathogenesis: HIV Cloning and Sequencing	M&MB	B&A
McCleary, William	Genetic Studies on the Pho Regulon of E. Coli	M&MB	B&A
Woodbury, Dixon	Molecular Reconstruction of Neurotransmitter Release	P&DB	B&A
Crandall, Keith	Hierarchically Mentored Research in Molecular Systematics and Bioinformatics	IB	B&A
Whiting, Michael	Phylogeny of Insects--A Request for Renewal	IB	B&A
Christensen, Merrill	Selenium Chemoprevention in a Rat Model of Prostate Cancer Development of a Marker Assisted Selection Program for Spontaneous Cardiomyopathy (Round Heart Syndrome) in Turkeys	ND&FS	B&A
Kooyman, David	Undergraduate Research Experience in Neuroscience	P&DB	B&A
Lephart, Edwin	Invasive Plant Species: Developing Testing Procedures and Quantifying Seed Viability	P&AS	B&A
Allen, Phil	Mentoring Undergraduates in Carbon Isotope and Phytolith Research: Evidence of Ancient Agriculture in the Maya Lowlands of Mesoamerica	P&AS	B&A
Terry, Richard	A Model of Cooperative Transitions	M&MB	B&A
Harker, Alan	The Molecular Diversity of Mycobacterium Ulcerans and the Establishment of an In Vitro Model for Beruli User	M&MB	B&A
Robison, Rich	Contextualized Approach to Language and Literacy Instruction	A&SLP	EDUC
Culatta, Barbara	The Study of Second Language Literacy Development	TED	EDUC
Teemant, Annela	Water Resource Modeling with Visiting Scholars From China	CEEN	E&T
Jones, Norm	Mentoring of Civil and Environmental Engineering Students Through Collaboration with Engineers in Arab States for Water Resources Engineering	CEEN	E&T
Nelson, Jim	Molecular Simulations	CHEME	E&T
Rowley, Richard	Electro-osmotic Flow and Heat Transfer	MECHE	E&T
Maynes, Dan	Family Relationships and Children's Well-Being Project	SOC	FH&SS
Forste, Renata	The Parowan Valley Archaeological Project: A Collections-Based Student Mentoring Program	ANTHRO	FH&SS
Janetski, Joel	Environmental Change on the Slopes of Kilimanjaro: Faculty/Student Research Collaboration in the Lab and Field	GEOG	FH&SS
Jackson, Mark	Culture Change and Continuity in San Marcos and San Pedro Sacatepequez Guatemala	ANTHRO	FH&SS
Hawkins, John	The Middletown Research Program as a Mentoring Enrichment	SOC	FH&SS
Chadwick, Bruce			

Recipient	Title	Dept	College
Slife, Brent	Facilitating Critical Thinking Skills in Psychology	PSYCH	FH&SS
Smith, Christian	BYU Chamber Winds	MUSC	FA&C
Wardle, Marian	Walk in Beauty: "Hozho" and Navajo Basketry	MOA	FA&C
McKinlay, Douglas	Creating and Producing Television Commercials in a Mentored Environment	COMM	FA&C
Pulfer, Adrian	Manifestations of Inspiration	VA	FA&C
Brinkerhoff, Val	Photography and Historical Research, Mayan Temple Complexes, Guatemala	VA	FA&C
Day, David	Mentoring Environment for Music Research and Librarianship	HBLL	HBLL
Widmer, Mark	Creation of an Online Index to Musical Performances	RM&YL	H&HP
Pratt, Dale	Effect of Parallel vs. Joint Activities on Marital Strength	S&P	HUM
Lonsdale, Deryl	Spanish Golden-Age Theater Performance Lab	LING	HUM
Stott, Michelle	The BYU Soar Project		HUM
Bush, Michael	Sophie: A Digital Library of Early German Language Women's Writing		HUM
Durham, W. Cole	Research and Development of Online Learning Methods for Swahili	CLS	HUM
Backman, James A.	BYU International Center for Law and Religion Studies Research Associates	LAW	LAW
Black, Ervin	Mediation Lab & Training Project	LAW	LAW
Lookinland, Sandra	Assessing the Informativeness of Pro Forma Earnings	SOA&IS	MSM
	Patient Care Delivery Models in a Managed Care Environment		NURS
	Mentoring Students with Human Patient Simulator (HPS) Research--	NURS	NURS
	Critical Thinking Disposition and Skill of Undergraduate Nursing Students		
Ravert, Patricia			
Davis, Robert	Nanoscale Electrical and Optical Materials	P&A	P&MS
Durfee, Dallin	Laser Physics Mentoring Environment	P&A	P&MS
Sevy, Eric	Laser and Computational Studies of Chemical Reaction Dynamics and Collisional Relaxation Phenomina	CHMBIO	P&MS
Harrison, Roger	Learning and Discovering by Doing Laboratory Research in Chemistry	CHMBIO	P&MS
Hintz, Eric	Teaching Astronomy Undergraduates Research Under the Stars	P&A	P&MS
Watt, Gerald	Collaborative Biochemistry Mentoring of Undergraduate Students	CHMBIO	P&MS
Wright, Dennis	Voices of War: The Experiences of LDS Veterans	CH&D	REL
Top, Brent	The Journey from Teenager to Young Adult: The High School Experiences of Latter-day Saint Youth	CH&D	REL





# Student Recognition

# 2002 Undergraduate Scholarship Recipients

This group is selected by a process resembling the faculty pursuit of external research funding. Students prepare proposals and select faculty mentors. A group of faculty and administrators carefully evaluate all proposals and select those deemed outstanding. The awards, \$1,000 scholarships, are given in January and a report on the work is due in December of the same year. These reports are tabulated as The Journal of Undergraduate Research and Creative Activities, which is published on the Internet under ORCA's homepage: <http://orca.byu.edu>.

<b>Department</b>	<b>Recipient</b>	<b>Faculty Mentor</b>
Agronomy & Horticulture	Jennifer Waters	Mikel R. Stevens
Agronomy & Horticulture	Theron Baker	Eric Jellen
Asian & Near Eastern Languages	Sarah McDonald	James Toronto
Asian & Near Eastern Languages	Joshua Gubler	Robert Belnap
Asian & Near Eastern Languages	Richard Torgerson	David Honey
Asian & Near Eastern Languages	Laura Ostler	James Toronto
Asian & Near Eastern Languages	John Isom	Gary Williams
Asian & Near Eastern Languages	Mindy Anderson	Stephen Ricks
Ancient Scriptures	Jared Miller	Victor Ludlow
Ancient Scriptures	Chris Coltrin	Kent Brown
Anthropology	Corinda Kelly	John Clark
Anthropology	Jennifer Taylor	Joel Janetski
Anthropology	Paul Stavast	Marti Lu Allen
Anthropology	Lisa Booher	Julie Hartley
Audiology & Speech Language Pathology	Janet Crapo	Barbara Culatta
Audiology & Speech Language Pathology	Jennifer George	Martin Fujiki
Audiology & Speech Language Pathology	Janet Crapo	Barbara Culatta
Audiology & Speech Language Pathology	Jennifer George	Martin Fujiki
Biochemistry	Patrick Brandt	Steven W. Graves
Botany & Range Science	Taina Matheson	Leigh Johnson
Business Management	Natalia Virlan	Gary McKinnon
Business Management	Kendall Hulet	Scott Sampson
Business Management	Aaron Brough	Kristie Seawright
Chemical Engineering	Nathan Cluff	Calvin Bartholomew
Chemical Engineering	Aaron Nackos	Calvin Bartholomew
Chemistry	Melissa Draper	Adam Woolley
Chemistry	Kyrsten Crawford	Gerald Watt
Chemistry	Stephanie Boyd	Paul Savage
Chemistry	Timothy Winter	Paul Savage
Chemistry	Joshua Price	Earl Woolley
Chemistry	Katie Jensen	Paul Savage
Chemistry	Scott Fredrickson	Paul Savage
Chemistry	Sarah Marsing	Barry Willardson
Chemistry	Arlo McGinn	John Lamb

Chemistry	Bryan McRae	Earl Woolley
Chemistry	Kevin Walker	David Dearden
Chemistry	Jared Davis	Steven Graves
Chemistry	Sarah Morgan	John Lamb
Chemistry	Nathan Evanson	Dan Simmons
	Jonathan Osorio-	
Chemistry	McKenna	Steven Graves
Church History	Devin Caywood	Bruce Van Orden
Church History	Lindsay Payne	Dennis Wright
Civil & Environmental Engineering	James Halgren	Wayne Downs
Civil & Environmental Engineering	John Hema	Fernando Fonseca
Civil & Environmental Engineering	Kenneth Crowther	Larry Baxter
Communications	Marin Turley	Steven Thomsen
Communications	Allison Carland	Steven Thomsen
Communications	Chad Hill	Joann Valenti
Communications	Jonathan Wardle	Paul Pratte
Computer Science	Nancy Owens	Todd Peterson
Computer Science	Samuel Payne	Bryan Morse
Computer Science	Gordon Finnigan	Thomas Sederberg
Computer Science	Brandon Lloyd	Parris Egbert
Computer Science	James Carroll	Todd Peterson
Computer Science	Troy Walker	David Embley
Computer Science	Robert Franklin	Robert Burton
Counseling Psychology & Special Ed	Todd Dunn	Tim Smith
Counseling Psychology & Special Ed	Todd Dunn	Tim Smith
Dance	Rhonda Rooker	Raymond Robinson
Dance	Thayer Jonutz	Rebecca Phillips
Electrical & Computer Engineering	Devin Pratt	Michael Wirthlin
Electrical & Computer Engineering	Brent Kenney	Michael Rice
Electrical & Computer Engineering	David Thayer	Travil Oliphant
Electrical & Computer Engineering	Todd Harris	Travis Oliphont
Electrical & Computer Engineering	Joseph Weidman	Travis Oliphont
Economics	Kevin Mumford	Arden Pope
Economics	Aaron Howard	Bret Mackay
Economics	Robert Turley	James McDonald
Economics	Michael Gould	David Spencer
Educational Leadership & Foundations	Andy Jones	MacLeans GeoJaja
Educational Leadership & Foundations	Qing Xia	Karen Hyer
Educational Leadership & Foundations	Dustin Stucki	Julie Hite
Educational Leadership & Foundations	Emily Robertson	Vance Randall
Educational Leadership & Foundations	Parker Fillmore	MacLeans GeoJaja
Educational Leadership & Foundations	Steven Stancliff	MacLeans GeoJaja
Educational Leadership & Foundations	Haley Wiggins	Legrand Richards
Educational Leadership & Foundations	Andy Jones	MacLeans GeoJaja
Educational Leadership & Foundations	Qing Xia	Karen Hyer
Educational Leadership & Foundations	Dustin Stucki	Julie Hite
Educational Leadership & Foundations	Emily Robertson	Vance Randall
Educational Leadership & Foundations	Parker Fillmore	MacLeans GeoJaja

Educational Leadership & Foundations	Steven Stancliff	MacLeans GeoJaja
Educational Leadership & Foundations	Haley Wiggins	Legrand Richards
English	Todd Condie	John Bennion
English	David Stankiewicz	William Eggington
English	Brian Henderson	Jacquelinme Thursby
English	Elisa Clements	Gideon Burton
English	Sally Giles	Trenton Hickman
English	Xochitl Anson	Trenton Hickman
English	Heather Kirby	Doris Dant
English	Leanna Kowallis	Steven Walker
English	Lewis Jones	Keith Lawrence
Food Science & Nutrition	Aimee Taylor	Merrill J. Christensen
French & Italian	Mark Ellis	Marc Olivier
French & Italian	John McCorquindale	Daryl Lee
French & Italian	Raelene Kochel	Daryl Lee
French & Italian	Amelia Kacher	Michael Bush
Germanic & Slavic Languages	Fabian Fulda	Randall Lund
Germanic & Slavic Languages	Geoffrey Griffard	Raisa Solovyova
Germanic & Slavic Languages	Spencer Scoville	Walter Whipple
Germanic & Slavic Languages	Samuel Lindsey	Robert McFarland
Germanic & Slavic Languages	Elizabeth McFarland	Michelle Stott
Germanic & Slavic Languages	Jill Wright	Donald Jarvis
Germanic & Slavic Languages	William Badger	Walter Whipple
Germanic & Slavic Languages	Megan Morris	Robert McFarland
Germanic & Slavic Languages	Justin Peacock	Robert McFarland
Germanic & Slavic Languages	Amanda Bingham	Cindy Brewer
Geography	Lisette Borchert	Richard Jackson
Geography	Matthew Whitton	Chad Emmett
Geography	Michele Richardson	Samuel Otterstrom
Geography	Daniel Reeves	Samuel Otterstrom
Geology	Rachel Henderson	Alan Mayo
History	Nathaniel Bascom	Ignacio Garcia
History	Timothy Merrill	Brian Cannon
History	Lori Rasmussen	Mary Stovall Richards
History	Emily Wilbur	Kathryn Daynes
History	Lindsay Larson	Susan Rugh
History	Michael Packer	Mary Stovall Richards
History	Thomas Pearson	Douglas Tobler
History	Neil Hibbert	George Ryskamp
History	Christopher Bush	Rodney Bohac
History	Jacob Olmstead	Ignacio Garcia
History	Bethany Durham	Blair Holmes
Health Sciences	Charis Thatcher	Lynley Rowan
Health Sciences	L. Daniel Holsinger	Gordon Lindsay
Health Sciences	Joshua Schrohowsky	Gordon Lindsay
Humanities, Classics, & Comparative Lit.	Peter Rich	Devin Asay
Humanities, Classics, & Comparative Lit.	Rex Nielson	George Handley
Humanities, Classics, & Comparative Lit.	Iantha Haight	Norbert Duckwitz

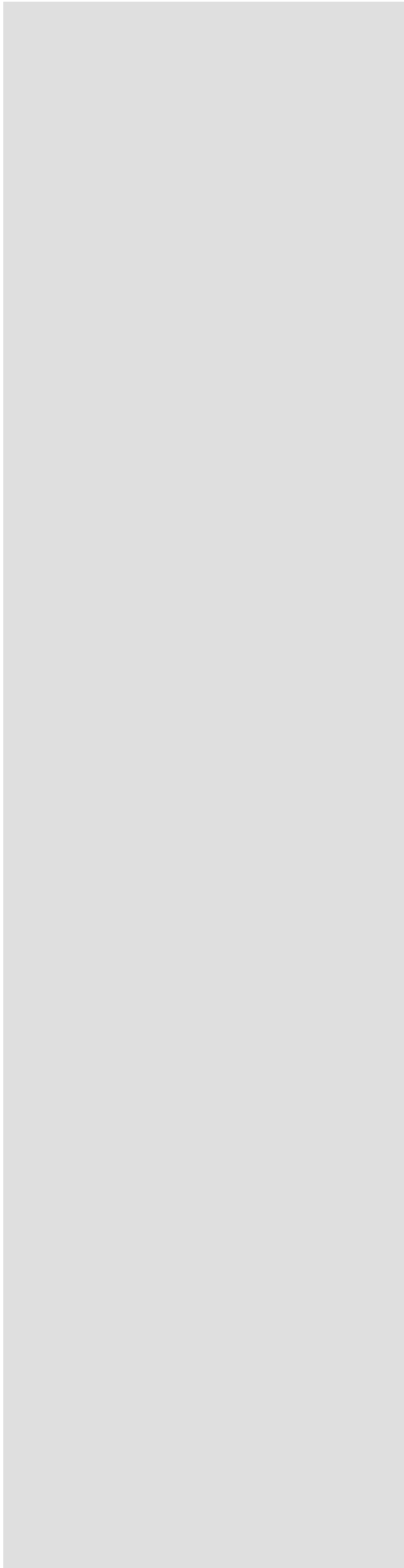
Library	Marilyn Becraft	David Day
Library	Angela Baer	David Day
Library	John Scharf	David Day
Library	Kimberly Isom	David Day
Linguistics	Ellen Lund	David Bowie
Linguistics	Deryl Hatch	Deryle Lonsdale
Linguistics	David Smith	Bill Eggington
Linguistics	Andrew Everett	Deryle Lonsdale
Linguistics	Jonathan Dehdari	Deryle Lonsdale
Linguistics	Rebecca Rees	Deryle Lonsdale
Linguistics	Addrienne Landes	David Bowie
Linguistics	Aric Bills	Daryl Hague
Linguistics	John Jorgensen	Cynthia Hallen
Mathematics Education	Vonn Christenson	Blake Peterson
Mathematics Education	Janel Wilson	Jacueline T. Voyles
Mechanical Engineering	David Barker	Matthew R. Jones
Mechanical Engineering	Benjamin Hansen	Brent Adams
Mechanical Engineering	Joseph Tenney	Daniel Maynes
Mechanical Engineering	Paul Nelson	Jerry Bowman
Mechanical Engineering	Jared Jensen	Paul Eastman
Mechanical Engineering	Kevin Schwendiman	Tracy Nelson
Marriage, Family & Human Development	Angela Butler	David Nelson
Marriage, Family & Human Development	Lisa Campbell	Larry Nelson
Marriage, Family & Human Development	Elizabeth Bullough	Jason Carroll
Marriage, Family & Human Development	Stephanie Williamson	Larry Nelson
Marriage, Family & Human Development	Sarah Richins	Thomas Holman
Marriage, Family & Human Development	Emily Allyn	Chris Porter
Microbiology	Jonathan Dukes	Ron W. Leavitt
Microbiology	Andrew Edmondson	Brent L. Nielsen
Microbiology	Eryn Barber	Gregorgy Burton
Microbiology	Corey Speers	Kim O'Neill
Microbiology	Daniel Willis	Gregorgy Burton
Microbiology	Trever Burgon	Gregorgy Burton
Microbiology	Jesse Rowley	Gregorgy Burton
Microbiology	Jeremy McBride	Kim O'Neill
Microbiology	Benjamin Kartchner	Richard Robison
Microbiology	Janet Hart	Kim O'Neill
Microbiology	Jon Ahlstrom	Kim O'Neill
Microbiology	Christie Michaud	Byron Murray
School of Music	Nathan Bowen	Murray Boren
School of Music	Benjamin Sabey	Michael Hicks
School of Music	Marilyn Nielson	Murray Boren
School of Music	Rebeca Peterson	Murray Boren
School of Music	Bret Pimentel	Raymond Smith
School of Music	Darrell Brown	Gordon Jessop
Neuroscience/Psychology	Benjamin Ringger	Donovan Fleming
Nursing	Katie Johnson	Barbara Mandleco
Nursing	Amanda Willford	Renea Beckstrand

Nursing	Amy Jacobs	Mary Tiedeman
Nursing	Melanie Droubay	Roseanne Schwartz
Organizational Leadership & Strategy	Scott Dutcher	William Bakes
Physics & Astronomy	Benjamin Bellville	Justin Peatross
Physics & Astronomy	Brigham Frandsen	Bret Hess
Physics & Astronomy	Fabian Walker	Steven Turley
Physics & Astronomy	Jed Whittaker	Robert Davis
Physics & Astronomy	Andrew Ludlow	Scott Bergeson
Physics & Astronomy	Donald M. Cannon	Ross Spencer
Physics & Astronomy	Brent Kimball	Larry Knight
Physical Education	Richard Huffaker	Allen Parcell
Physical Education	Kurt Niepraschk	Allen Parcell
Physical Education	Jared Tucker	Larry Tucker
Physical Education	Steven Bernards	Ken Knight
Philosophy	Ryan Christensen	Daniel Graham
Political Science	Ryan Scoville	Ray Christensen
Political Science	Joseph Mitchell	Ray Christensen
Political Science	Marcus Ryan	David Bohn
Political Science	Christopher O'Keefe	Daniel Nielsen
Political Science	Matt Thorne	Valerie Hudson
Psychology	Elizabeth Richardson	Gary Burlingame
Psychology	Spencer Smith	Hal Miller
Psychology	James Pack	Scott Stephensen
Psychology	Brandon Jones	Julianne Holt Lunstad
Psychology	Jennifer Penn	Donovan Fleming
Psychology	Craig Shepherd	Harold Miller
Psychology	Adam Bergeson	Ramona Hopkins
Psychology	Michael Larson	Ramona Hopkins
Psychology	Shelby Ferrin	Gary Burlingame
Psychology	John Dayton	Donovan Fleming
Psychology	Karstin Slade	Michael Lambert
Psychology	Treona Bateman	Gary Burlingame
Psychology	Ryan Curtis	Matthew Spackman
Psychology	Jeremy Bartz	Matthew Spackman
Recreational Management & Youth Leadership	Jennifer Harris	Ramon Zabriskie
Spanish & Portuguese	Jason Moyes	Christopher Lund
Spanish & Portuguese	Jonathan Whiting	Orlando Alba
Spanish & Portuguese	Joshua Whitlock	David Laraway
Spanish & Portuguese	James Krause	Ted Lyon
Spanish & Portuguese	Caroline Raynor	Doug Weatherford
Spanish & Portuguese	Susan Stewart	Thomas Lyon
Spanish & Portuguese	Eric Ehlers	Dale J. Pratt
School of Accountancy & Information Systems	Benjamin Titera	Earl Stice
School of Accountancy & Information Systems	Chad Albrecht	Steve Albrecht
School of Accountancy & Information	Chad Larson	Theodore Christensen

Systems		
School of Accountancy & Information Systems	Michael Woods	Conan Albrecht
School of Accountancy & Information Systems	Seth Sunderland	Ted Christensen
School of Accountancy & Information Systems	Eldar Maksymov	Earl Stice
School of Accountancy & Information Systems	Terry Jackson	Ted Christensen
Sociology	Dallan Flake	Renata Forste
Sociology	Benjamin Gibbs	Stephen Bahr
Sociology	Jared Lyle	Mikaela Dufur
Sociology	Carl Smith	Lynn England
Sociology	Tina Gregory	Renata Forste
Sociology	Oertel Sparks	Carol Ward
Sociology	Shawna Cluff	Mikaela Dufur
Sociology	Curtis Child	Mikaela Dufur
Statistics	Benjamin Saville	Lara Wolfson
Statistics	Alane Izu	David Whiting
School of Technology	Craig Hardcastle	Richard Helps
School of Technology	Ryan Jensen	Brent Adams
School of Technology	James Hales	Brent Adams
School of Technology	Jamison Titera	Brent Adams
School of Technology	Curtis Nielson	C R. Helps
School of Technology	Nathaniel Hanson	Richard Fry
Theatre & Media Arts	Randy Astle	Darl Larsen
Theatre & Media Arts	Christian Vuissa	Stan Ferguson
Theatre & Media Arts	Jason Yancey	Rodger Sorensen
Theatre & Media Arts	Emily Lewis	Dean Duncan
Theatre & Media Arts	Amy Jensen	Megan Jones
Theatre & Media Arts	Stacey Snider	Thomas Russell
Theatre & Media Arts	Janae Judd	Mary Farahnakian
Theatre & Media Arts	Kynan Griffin	Tom Russell
Visual Arts	Collin Bradford	Peter Everett
Visual Arts	Angela Swanson	Mark Magleby
Visual Arts	David Amott	Martha Peacock
Visual Arts	Todd Chilton	Gary Barton
Visual Arts	Gerald III Hansen	Mark Johnson
Visual Arts	Seth Smoot	John Telford
Visual Arts	Karrie Warnick	Martha Peacock
Visual Arts	Krisanne Hastings	Martha Peacock
Visual Arts	Trenton Reynolds	Bruce Smith
Visual Arts	Philipp Malzl	Martha Peacock
Visual Arts	Laura Lund	Von Allen
Visual Arts	Abraham Kimball	Cynthia Finlayson
Visual Arts	Will Mahoney	Brian Christensen
Visual Arts	Kirsten Kakadelas	Martha Peacock
Visual Arts	Jessica Weiss	Heather Jensen

Visual Arts	Isaac Howard	Gary Barton
Visual Arts	Ontario Britton	Cynthia Finlayson
Visual Arts	Michael Kelly	Mark Magleby
Visual Arts	Merrilee Liddiard	Kelly Loosli
Visual Arts	Janelle Wride	Peter Everett
Visual Arts	John Gordon	Linda Sullivan
Visual Arts	Paul Nielson	Joseph Ostraff
Women's Research Institute	Jennifer Vigil	Bonnie Baliff-Spanvill
Zoology	Blake Simmons	Dixon J. Woodbury
Zoology	Steve Woolley	David McClellan
Zoology	Aaron Madsen	Keith Crandall
Zoology	Mark Merkley	Russ Rader
Zoology	Steven Smith	Laura Bridgewater
Zoology	Jennetta Watson	Gary Booth
Zoology	Eric Freeman	Laura Bridgewater
Zoology	R. Brigham Dastrup	Jack W. Sites
Zoology	Ashley Nelson	Keith Crandall
Zoology	James Robertson	Michael F. Whiting
Zoology	Dennis Craig Seager	Allan M Judd
Zoology	Jeffrey Stevens	David Busath
Zoology	Dean Leavitt	David McClellan
Zoology	Christopher Meinhart	Laura Bridgewater
Zoology	Heather Phillips	Richard Tolman
Zoology	Alisha Facer	Laura Bridgewater





# Appendix 1

# The Office of Research & Creative Activities

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

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

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

## Personnel:

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Title	Personnel
Director:	Gary R. Reynolds
Associate Director:	Melvin J. Carr
Research Administrator:	Nancy A. Davis
Office Manager/Secretary:	Skylar Rencher
Part-time Secretaries:	Amy Buell, Jennifer Ishihara, Heather Ray

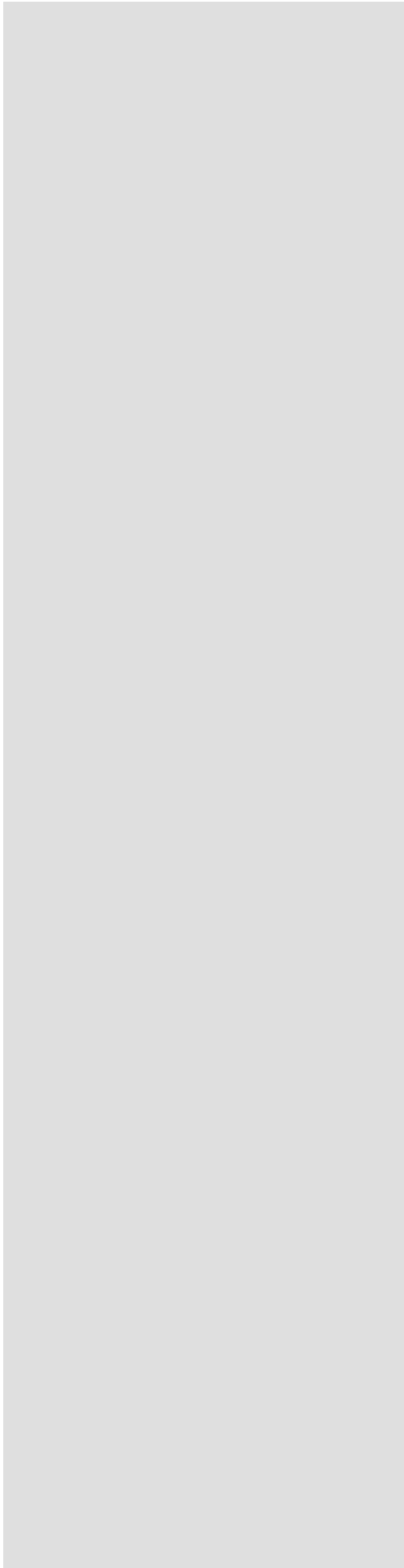
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## Office Functions:

- 1) Policy Review and Development
  - ◆ Monitor research accounts in conjunction with Financial Services to assure compliance with contract requirements, government regulations, and BYU policy.
  - ◆ Review and update BYU policies relative to research.
- 2) Opportunity and Expertise Matching
  - ◆ Represent the university's research program to other research organizations, funding agencies, and other universities.
  - ◆ Match-making (requests for proposals and faculty).
  - ◆ Monitor requests for proposals and deadlines.
  - ◆ Disseminate information on funding opportunities to faculty.

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

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



# Appendix 2

# Compliance Obligations (As Per Federal Statute or Regulation)

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

## *Regulatory Framework*

- Office of Management and Budget

  - Circular No. A-21

  - Circular No. A-110

  - Circular No. A-133

- Federal Acquisition Regulations

- 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