

CAL POLY
SAN LUIS OBISPO



GRANTS DEVELOPMENT OFFICE
Research and Graduate Programs

ANNUAL REPORT OF EXTRAMURAL FUNDING

2010-2011



<http://www.grants.calpoly.edu/>

TABLE OF CONTENTS

EXTERNAL FUNDING FOR SPONSORED PROJECTS

<i>Introduction</i>	1
<i>Summary of Funding in 10/11 by Sponsor Type</i>	2
<i>Summary of Funding in FY 10/11 by College/Unit</i>	3
<i>Funding by College/Unit, FY 09/10 and FY 10/11</i>	4
<i>Summary of Funding in FY 10/11 by Department</i>	5
<i>Summary of Funding Requested in FY 10/11 by College/Unit</i>	6
<i>Funding Requested by College/Unit, FY 09/10 and FY 10/11</i>	7
<i>Funding Requested in FY 10/11 by Department</i>	8
<i>Funding Awarded to Centers/Institutes/Special Facilities in FY 09/10 and FY 10/11</i>	9
<i>Three-year Comparison by Funding Source</i>	10
<i>List of Grants and Contracts Awarded in FY 10/11</i>	11
<i>Faculty/Staff Participating in Sponsored Projects FY 10/11</i>	30

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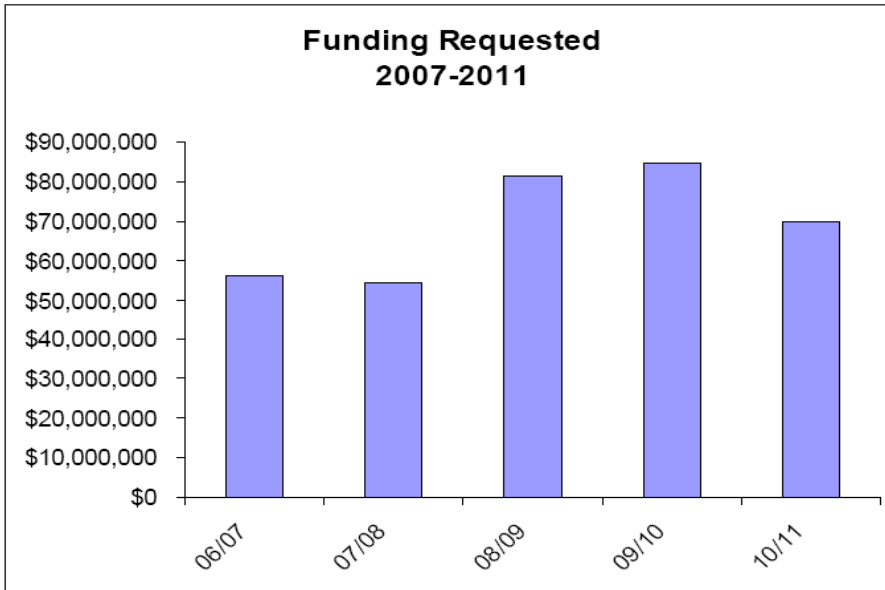
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INTRODUCTION

We are pleased to provide the annual report of all sponsored program activities for Fiscal Year 2011, covering the period from 7/1/2010 – 6/30/2011. Extramural funding for grants and contracts rebounded this fiscal year after the downturn experienced in 2009-2010. The amount of external funds awarded to the University during this period increased by over 30% from Fiscal Year 2010 with the largest growth in federal and industry funding. Funding from these sources increased by over 55% and 80% respectively,

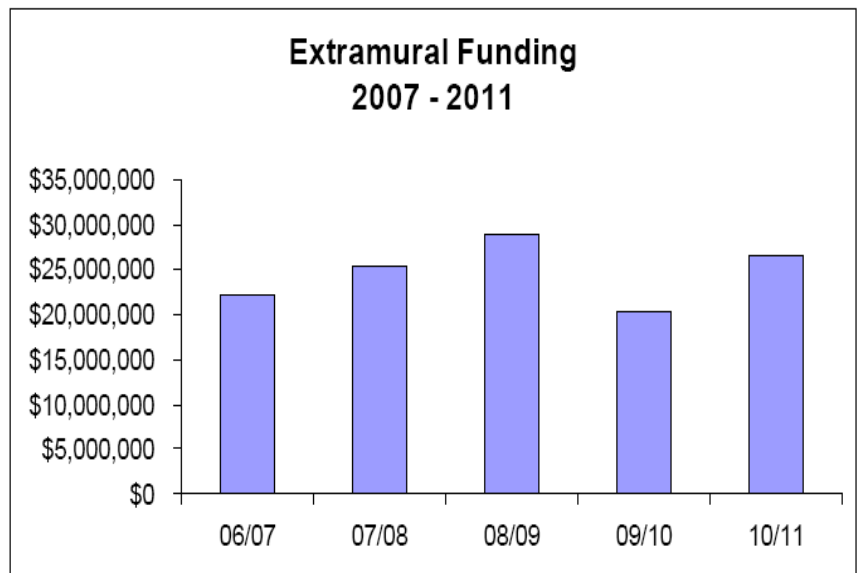
and reached historic highs. While this growth still represents 9% less funding from Cal Poly's peak year (2008-2009), it nevertheless is encouraging as more faculty are successful in capturing these very competitive funds. Cal Poly faculty received 285 separate grants totaling \$26,497,680. This represents the highest number of awards ever received by the University in a given fiscal year. During this period the Cal Poly Grants Development Office assisted 176 Cal Poly faculty and staff in the submission of 366



proposals requesting \$69,958,722 in funding. While this represents a decrease in total dollars requested compared to last fiscal year, it reflects an increase of 11% in grant applications processed.

The Grants Development Office offers workshops on getting started in the grant-writing process, including how to apply for funds and how to use the Sponsored Programs Information Network (SPIN) database tool. SPIN, available on campus to all Cal Poly faculty, facilitates identification of funding opportunities. We hope this report provides a useful overview of Cal Poly's performance in securing extramural funding for sponsored project activities, which include research, curriculum development, equipment acquisition, community service, and other professional development. Detailed reports for the past several years can also be found on the web at:

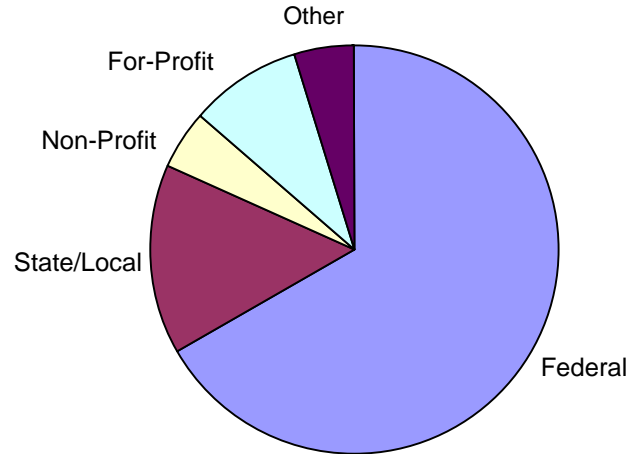
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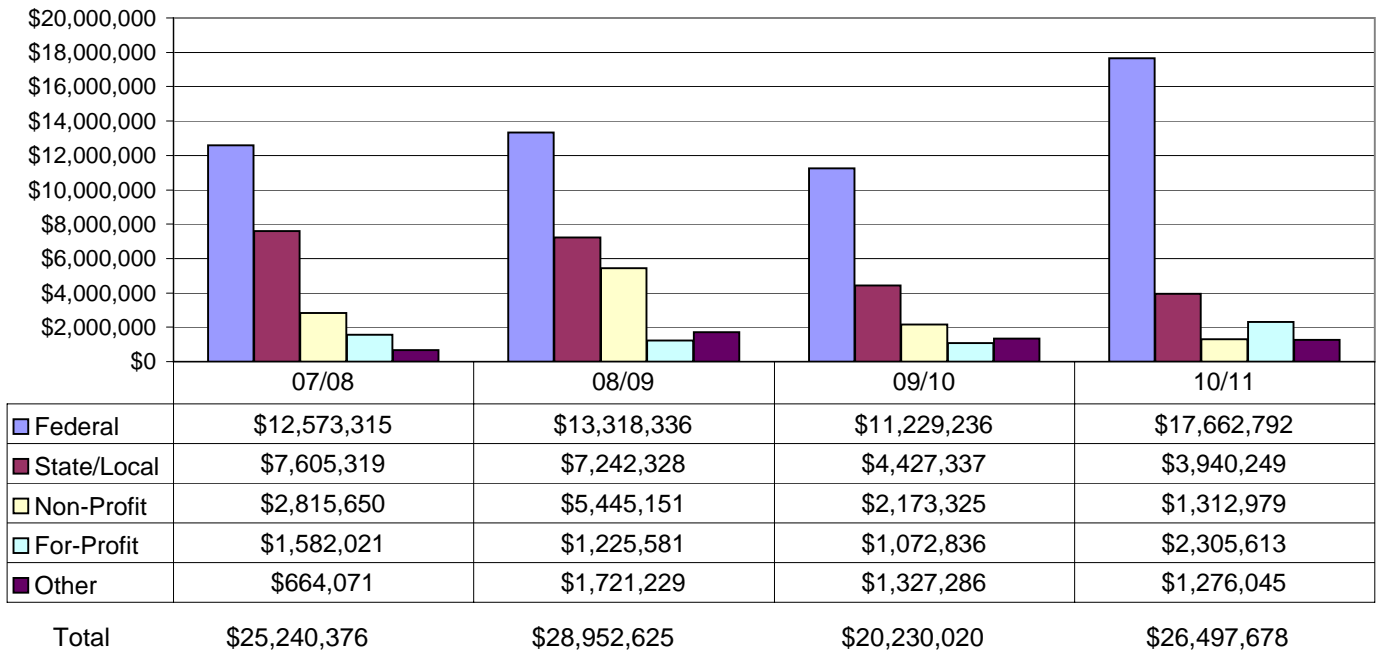
Summary of Funding in FY 10/11 by Sponsor Type

Funding by Sponsor Type - Fiscal Year 10/11

Fiscal Year 10/11		
Sponsor Type	Funding	% of Total
Federal	\$17,662,792	67%
State/Local	\$3,940,249	15%
Non-Profit	\$1,312,979	5%
For-Profit	\$2,305,613	9%
Other	\$1,276,045	5%
Total	\$26,497,678	



Funding by Sponsor Type 07/08 to 10/11

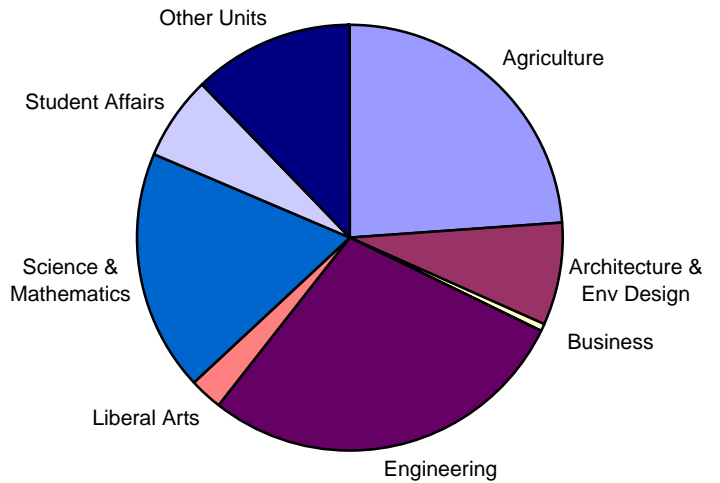


Summary of Funding in FY 10/11 by College/Unit

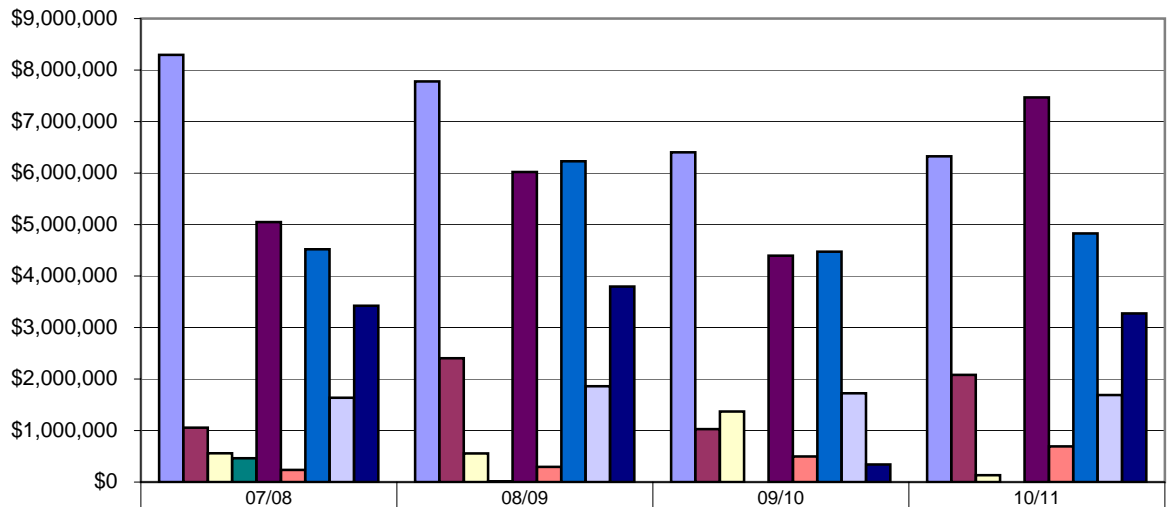
Fiscal Year 10/11

College	Funding
Agriculture	\$6,326,618
Architecture & Env Design	\$2,082,889
Business	\$132,499
Engineering	\$7,468,526
Liberal Arts	\$694,091
Science & Mathematics	\$4,828,605
Student Affairs	\$1,691,524
Other Units	\$3,272,926
Total	\$26,497,678

Funding by College/Unit - Fiscal Year 10/11



Funding by College/Unit 07/08 to 10/11



College/Unit	07/08	08/09	09/10	10/11
Agriculture	\$8,295,627	\$7,777,808	\$6,401,753	\$6,326,618
Architecture & Env Design	\$1,056,940	\$2,405,982	\$1,027,931	\$2,082,889
Business	\$560,553	\$554,841	\$1,371,036	\$132,499
Education *	\$461,724	\$14,940	N.A.	N.A.
Engineering	\$5,047,089	\$6,019,752	\$4,394,881	\$7,468,526
Liberal Arts	\$237,552	\$295,396	\$496,144	\$694,091
Science & Mathematics	\$4,519,648	\$6,227,577	\$4,472,384	\$4,828,605
Student Affairs	\$1,637,947	\$1,860,108	\$1,723,914	\$1,691,524
Other Units	\$3,423,296	\$3,796,221	\$341,977	\$3,272,926
Total	\$25,240,376	\$28,952,625	\$20,230,020	\$26,497,678

* College of Education was redesignated as the School of Education and incorporated into College of Science and Mathematics in 09/10.

Funding by College/Unit Fiscal Years 09/10 and 10/11

AWARDS

	7/1/09 - 6/30/10				7/1/10 - 6/30/11				
	# Faculty	% of Total	# Awards	Award \$	# Faculty	% of Total	# Awards	Award \$	Per Capita \$
Agriculture	44	47.31%	85	\$6,401,753	44	51.76%	103	\$6,326,618	\$74,431
Architecture & Env Design	8	11.59%	15	\$1,027,931	15	22.73%	22	\$2,082,889	\$31,559
Business	6	10.53%	11	\$1,371,036	4	7.02%	8	\$132,499	\$2,325
Engineering	29	23.58%	49	\$4,394,881	28	23.33%	56	\$7,468,526	\$62,238
Liberal Arts	7	4.29%	12	\$496,144	10	6.37%	18	\$694,091	\$4,421
Library	0	0.00%	0	\$0	0	0.00%	0	\$0	\$0
Other Units	7		11	\$341,977	6		11	\$3,272,926	
Science & Math	30	20.69%	48	\$4,472,384	33	23.40%	54	\$4,828,605	\$34,245
Student Affairs	7		10	\$1,723,914	9		13	\$1,691,524	
Total:	138	20.97%	241	\$20,230,020	149	23.50%	285	\$26,497,678	\$41,794

Key to Table: % of Total = # Faculty as a percentage of tenured and tenure-track faculty in the college/unit; Per Capita \$ = total dollars divided by the total number of tenured and tenure-track faculty in the college/unit. Shading denotes an increase over previous year.

SUMMARY OF FUNDING IN FY 10/11 BY DEPARTMENT

Agriculture, Food & Env Sciences

Agribusiness	\$210,078
Agricultural Education	\$150,000
Animal Science	\$250,656
BioResource and Agricultural Engineering	\$3,639,113
College of Agriculture	\$8,363
Dairy Science	\$929,790
Food Science & Nutrition	\$278,388
Horticulture & Crop Science	\$258,185
Natural Resource Management	\$569,960
Recreation, Parks, & Tourism Administration	\$32,085
Total for Agriculture, Food & Env	\$6,326,618

Architecture & Env Design

Architectural Engineering	\$300,000
Architecture	\$529,977
City & Regional Planning	\$514,369
Collaborative Agent Design (CAD) Research Cent	\$450,595
Construction Management	\$287,948
Total for Architecture & Env Design	\$2,082,889

Business

Accounting	\$30,000
Industrial Technology	\$102,499
Total for Business	\$132,499

Engineering

Aerospace Engineering	\$4,018,848
Civil & Environmental Engineering	\$1,075,317
College of Engineering	\$395,000
Computer Science	\$490,815
Electrical Engineering	\$473,758
Industrial & Manufacturing Engineering	\$63,782
Materials Engineering	\$538,446

Engineering (Cont.)

Mechanical Engineering	\$412,560
Total for Engineering	\$7,468,526

Liberal Arts

Art & Design	\$6,672
Cal Poly Arts	\$28,375
Graphic Communication	\$332,964
Philosophy	\$66,855
Psychology & Child Development	\$152,432
Social Sciences	\$106,793
Total for Liberal Arts	\$694,091

Science & Mathematics

Biological Sciences	\$2,328,718
Chemistry and Biochemistry	\$830,329
Kinesiology	\$22,950
Mathematics	\$124,804
Physics	\$1,521,804
Total for Science & Mathematics	\$4,828,605

Student Affairs

Health & Counseling Services	\$9,600
Student Academic Services	\$1,139,304
Student Life & Leadership	\$542,620
Total for Student Affairs	\$1,691,524

Other

Academic Programs	\$54,000
Honors Program	\$45,000
Office of Inclusive Excellence	\$8,000
Performing Arts Center	\$9,000
Research & Graduate Programs	\$3,129,500
University Police Department	\$27,426
Total for Other	\$3,272,926

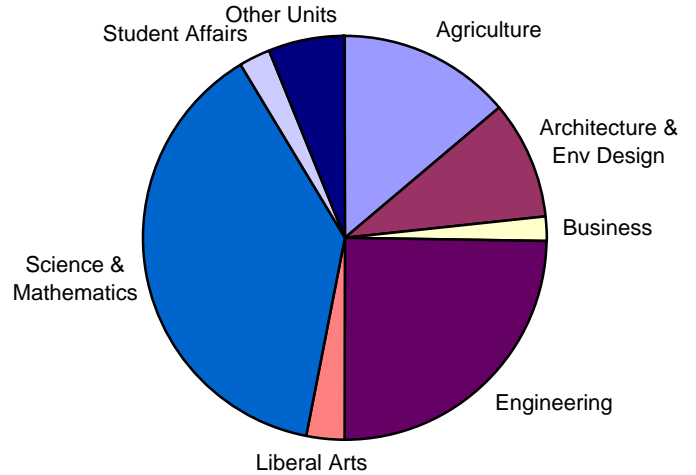
GRAND TOTAL: \$26,497,678

Summary of Funding Requested in FY 10/11 by College/Unit

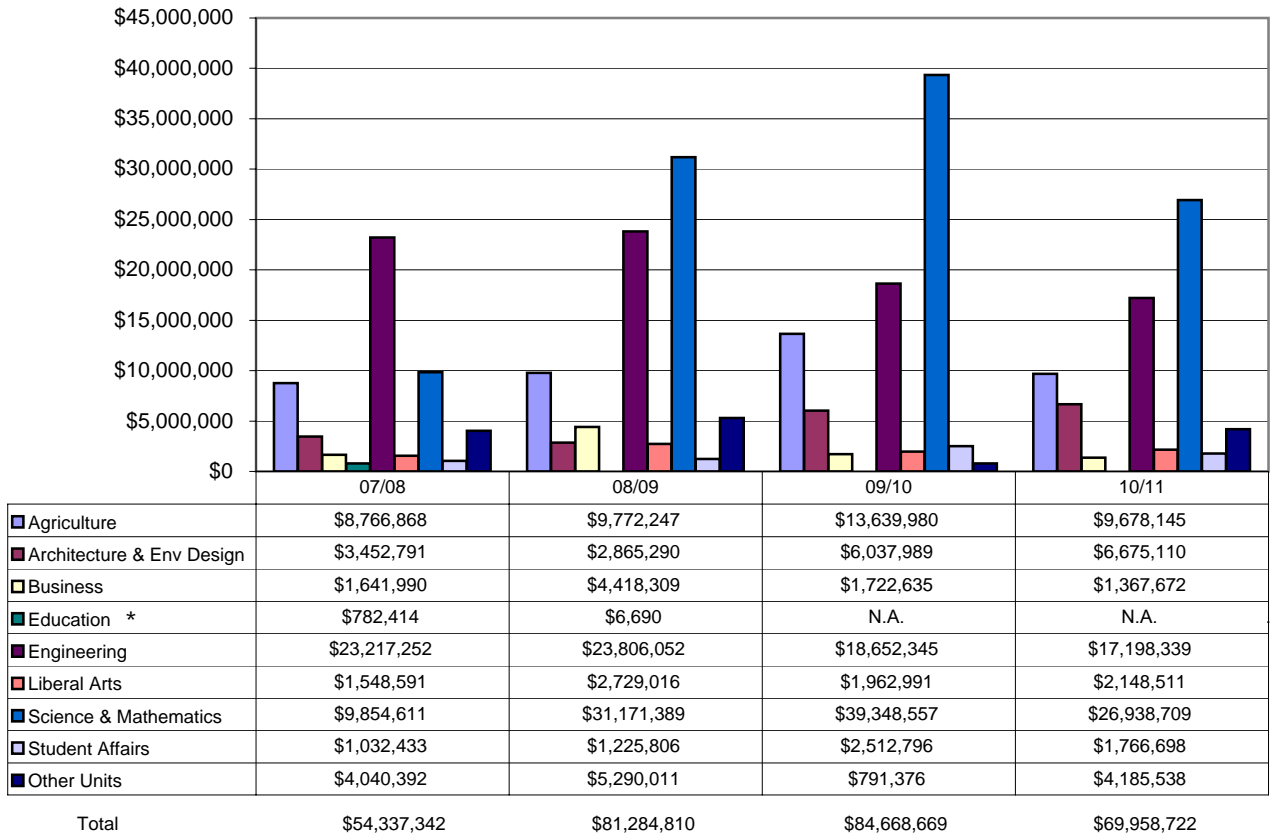
Fiscal Year 10/11

College	Funds Requested
Agriculture	\$9,678,145
Architecture & Env Design	\$6,675,110
Business	\$1,367,672
Engineering	\$17,198,339
Liberal Arts	\$2,148,511
Science & Mathematics	\$26,938,709
Student Affairs	\$1,766,698
Other Units	\$4,185,538
Total	\$69,958,722

**Funds Requested by College/Unit
Fiscal Year 10/11**



Funds Requested by College/Unit 07/08 to 10/11



* College of Education was redesignated as the School of Education and incorporated into College of Science and Mathematics in 09/10.

Funding Requested by College/Unit Fiscal Years 09/10 and 10/11

SUBMISSIONS

	7/1/09 - 6/30/10				7/1/10 - 6/30/11				
	# Faculty	% of Total	# Proposals	Proposal \$	# Faculty	% of Total	# Proposals	Proposal \$	Per Capita \$
Agriculture	42	45.16%	82	\$13,639,980	44	51.76%	109	\$9,678,145	\$113,861
Architecture & Env Design	15	21.74%	24	\$6,037,989	19	28.79%	36	\$6,675,110	\$101,138
Business	9	15.79%	13	\$1,722,635	5	8.77%	8	\$1,367,672	\$23,994
Engineering	47	38.21%	89	\$18,652,345	45	37.50%	98	\$17,198,339	\$143,319
Liberal Arts	8	4.91%	20	\$1,962,991	12	7.64%	20	\$2,148,511	\$13,685
Library	0	0.00%	0	\$0	1	12.50%	1	\$249,271	\$31,159
Other Units	7		11	\$791,376	5		11	\$3,936,267	
Science & Math	38	26.21%	82	\$39,348,557	37	26.24%	71	\$26,938,709	\$191,055
Student Affairs	5		8	\$2,512,796	8		12	\$1,766,698	
Total:	171	25.99%	329	\$84,668,669	176	27.76%	366	\$69,958,722	\$110,345

Key to Table: % of Total = # Faculty as a percentage of tenured and tenure-track faculty in the college/unit; Per Capita \$ = total dollars divided by the total number of tenured and tenure-track faculty in the college/unit. Shading denotes an increase over previous year.

FUNDING REQUESTED IN FY 10/11 BY DEPARTMENT

Agriculture, Food & Env Sciences

Agribusiness	\$102,304
Agricultural Education	\$855,052
Animal Science	\$653,983
BioResource and Agricultural Engineering	\$1,124,379
College of Agriculture	\$397,945
Dairy Science	\$2,445,341
Food Science & Nutrition	\$1,064,606
Horticulture & Crop Science	\$1,208,223
Natural Resource Management	\$1,760,890
Recreation, Parks, & Tourism Administration	\$65,422
Total for Agriculture, Food & Env	\$9,678,145

Architecture & Env Design

Architectural Engineering	\$1,274,628
Architecture	\$581,630
City & Regional Planning	\$937,286
Collaborative Agent Design (CAD) Research	\$2,380,881
Construction Management	\$1,500,685
Total for Architecture & Env Design	\$6,675,110

Business

Accounting	\$76,603
Economics	\$86,004
Industrial Technology	\$1,205,065
Total for Business	\$1,367,672

Engineering

Aerospace Engineering	\$4,470,513
Biomedical and General Engineering	\$808,389
Civil & Environmental Engineering	\$5,174,278
College of Engineering	\$125,000
Computer Science	\$2,021,868
Electrical Engineering	\$643,231
Industrial & Manufacturing Engineering	\$714,438
Materials Engineering	\$1,403,286
Mechanical Engineering	\$1,837,336
Total for Engineering	\$17,198,339

Liberal Arts

Art & Design	\$4,954
Cal Poly Arts	\$47,758
English	\$170,414
Graphic Communication	\$186,975
Philosophy	\$713,082
Political Science	\$324,997
Psychology & Child Development	\$659,692
Social Sciences	\$40,639
Total for Liberal Arts	\$2,148,511

Science & Mathematics

Biological Sciences	\$6,273,147
Chemistry and Biochemistry	\$2,119,502
College of Science & Mathematics	\$808,385
Graduate Studies in Education	\$1,496,875
Kinesiology	\$12,501,796
Mathematics	\$1,702,601
Physics	\$1,728,605
Statistics	\$307,798
Total for Science & Mathematics	\$26,938,709

Student Affairs

Student Academic Services	\$1,150,000
Student Life & Leadership	\$616,698
Total for Student Affairs	\$1,766,698

Other

Academic Programs	\$6,000
Honors Program	\$45,000
Library	\$249,271
Office of Inclusive Excellence	\$8,000
Performing Arts Center	\$12,000
Research & Graduate Programs	\$3,801,131
University Police Department	\$64,136
Total for Other	\$4,185,538

Total Dollars Submitted

\$69,958,722

FUNDING AWARDED TO CENTERS/INSTITUTES/SPECIAL FACILITIES

UNIT	AWARDS	
	09/10	10/11
Advanced Technology Lab (ATL)	\$927,088	\$2,557,832
Collaborative Agent Design Research Center (CADRC)	\$709,958	\$980,573
CAFES Center for Sustainability	\$0	\$0
Central Coast Center for Arts Education (CCCAE)	\$0	\$0
California Center for Construction Education (CCCE)	\$0	\$12,048
Center for Excellence in Science and Mathematics Education (CESaME)	\$818,451	\$372,174
Center for Innovation and Entrepreneurship	\$0	\$0
Center for Sustainability in Engineering (CSE)	\$2,500	\$386,896
Dairy Products Technology Center (DPTC)	\$925,626	\$798,501
Environmental Biotechnology Institute (EBI)	\$265,533	\$161,362
Graphic Communication Institute (GrCI)	\$112,952	\$332,964
Global Waste Research Institute	\$0	\$436,682
Irrigation Training and Research Center (ITRC)	\$1,684,183	\$3,628,342
Marine Science Program	\$1,178,999	\$2,621,202
National Pool Industry Research Center (NPIRC)	\$148,908	\$0
Planning, Design and Construction Institute	\$113,721	\$12,200
Center for Global Automatic Identification Technologies (Poly GAIT)	\$0	\$33,500
Renewable Energy Institute	\$0	\$44,048
Urban Forest Ecosystems Institute (UFEI)	\$1,535,942	\$144,052
	\$8,423,861	\$12,522,376

Three-Year Comparison by Funding Source

Funding Source	FY 2009	FY 2010	FY 2011	% Change '10 to '11
Federal				
U.S. Dept of Defense	\$3,653,760	\$1,692,263	\$4,609,421	172.4%
National Science Foundation	\$2,806,773	\$2,071,626	\$3,829,644	84.9%
NASA	\$3,403,184	\$1,220,368	\$2,830,605	131.9%
U.S. Dept of Education	\$911,009	\$1,444,809	\$1,637,127	13.3%
U.S. Dept of Interior	\$634,000	\$123,000	\$1,520,000	1135.8%
National Reconnaissance Office	\$0	\$0	\$1,171,954	N/A
U.S. Dept of Energy	\$114,399	\$145,598	\$490,000	236.5%
U.S. Dept of Agriculture	\$347,540	\$2,973,977	\$339,926	-88.6%
Federal Other	\$1,447,671	\$1,557,595	\$1,234,115	-20.8%
Total Federal	\$13,318,336	\$11,229,236	\$17,662,792	57.3%
State				
CSU - Agricultural Research Institute	\$1,253,406	\$1,289,742	\$1,016,866	-21.2%
CA Office of Emergency Services	\$1,556,400	\$0	\$687,200	N/A
CA Dept of Education	\$285,338	\$102,113	\$377,157	269.4%
CA Energy Commission	\$86,000	\$80,000	\$250,000	212.5%
University of California	\$225,594	\$156,840	\$225,100	43.5%
CA Dept of Transportation (Caltrans)	\$1,532,692	\$175,063	\$194,024	10.8%
CA Dept of Water Resources	\$0	\$0	\$158,602	N/A
CA Dept of Forestry	\$116,000	\$466,500	\$140,150	-70.0%
State Other	\$1,030,757	\$1,794,770	\$373,539	-79.2%
Total State	\$6,086,187	\$4,065,028	\$3,422,638	-15.8%
Total Local Gov't	\$1,156,141	\$362,309	\$517,611	42.9%
Non-Profit				
Dairy Research Institute	\$0	\$0	\$310,525	N/A
S .D. Bechtel, Jr. Foundation	\$565,000	\$265,000	\$265,000	0.0%
Various Non-Profit Organizations	\$403,569	\$266,200	\$262,800	-1.3%
Non-Profit Other	\$4,476,582	\$1,642,125	\$474,654	-71.1%
Total Non-Profit	\$5,445,151	\$2,173,325	\$1,312,979	-39.6%
For-Profit				
Southern California Edison	\$67,950	\$400,000	\$390,000	-2.5%
Knowledge Management Laboratory Center	\$0	\$0	\$290,000	N/A
Chevron Energy Technology Co.	\$0	\$0	\$188,622	N/A
Confidential	\$0	\$0	\$186,125	N/A
Various Sponsors (Packaging Consortium)	\$0	\$0	\$185,971	N/A
Neolac, Inc.	\$0	\$0	\$168,528	N/A
Biowish Technologies	\$0	\$0	\$145,868	N/A
Surepure Operations AG	\$0	\$0	\$120,000	N/A
For-Profit Other	\$1,157,631	\$672,836	\$630,499	-6.3%
Total For-Profit	\$1,225,581	\$1,072,836	\$2,305,613	114.9%
Total Other	\$1,721,229	\$1,327,286	\$1,276,045	-3.9%
TOTAL	\$28,952,625	\$20,230,020	\$26,497,678	31.0%

GRANTS AND CONTRACTS AWARDED IN FY 10/11

PI	TITLE AGENCY	AMOUNT
<u>Agriculture, Food & Env Sciences</u>		
<u>Agribusiness</u>		
Cai, Xiaowei	Market Analysis of Ethanol Capacity CSU - Agricultural Research Initiative	\$20,000
Cai, Xiaowei	Economic Analysis of U.S. Cheese Processing Industry U.S. Dept of Agriculture (NIFA) via University of Wisconsin - Madison	\$6,000
Cai, Xiaowei	Economic Analysis of U.S. Cheese Processing Industry CSU - Agricultural Research Institute	\$20,000
Nicholson, Charles	Analysis of Program Options to Reduce Dairy Price Volatility Milk Producers Council	\$3,839
Nicholson, Charles	Financial Performance of California Farmstead and Artisanal Dairy Processing Enterprises and Comparisons to Other States CSU - Agricultural Research Institute	\$40,000
Noel, Jay	The Impacts of Changes in Agricultural Transportation Sector on the Competitiveness of the California Specialty Crop Industry CSU - Agricultural Research Initiative (Systemwide)	\$100,239
Schroeter, Christiane	Developing a Business Model for a Campus Farmers Market: A Pioneer Study at Cal Poly CSU - Agricultural Research Initiative	\$20,000
<u>Agricultural Education</u>		
Kellogg, Bill	California Agricultural Education - Professional Development Project (2010-11) U.S. Dept of Education via CA Dept of Education	\$150,000
<u>Animal Science</u>		
Delmore, Robert	National Beef Tenderness Survey (NBTS) 2010 National Cattlemen's Beef Association via Texas A&M University	\$6,000
Edwards, Mark S	Comparative Adaptations To Herbivory In Equids And Other Species With Hindgut Fermentation CSU - Agricultural Research Initiative	\$22,964
Edwards, Mark S	Nutrient flow in equine animal feeding operations CSU - Agricultural Research Institute	\$87,405
Horney, Marc	Cal Poly Rangeland Baseline Condition Assessment CSU - Agricultural Research Institute	\$5,000
Horney, Marc	Effects of High-Density, Short-Duration Livestock Grazing on a Coastal California Mixed Grassland CSU - Agricultural Research Institute	\$16,000
Peterson, Daniel	Collaborative study of nutritional endocrine interactions that regulate bovine mammary epithelial cell function University of California/California State University/Community College Collaborations	\$4,500
Peterson, Daniel	Nutritional approaches to mitigate the catabolic response to infection U.S. Dept of Agriculture (NIFA) via CSU Agricultural Research Institute	\$84,431
Plummer, William	How Sexed-Semen Characteristics Affect Fertilization Rate CSU - Agricultural Research Initiative	\$24,356

GRANTS AND CONTRACTS AWARDED IN FY 10/11

PI	TITLE AGENCY	AMOUNT
<u>BioResource and Agricultural Engineering</u>		
Burt, Charles ITRC (Irrigation Training and Research Center)	Fee-for-Service Agreement, ITRC Various Sponsors	\$910,074
Burt, Charles ITRC (Irrigation Training and Research Center)	CESU Project #1- 2008-13: Liaison Activites for the Klamath Project U.S. Dept of Interior, Bureau of Reclamation, Mid Pacific Region	\$20,000
Burt, Charles ITRC (Irrigation Training and Research Center)	Irrigation system evaluation and expert witness services County of Fresno	\$20,977
Burt, Charles ITRC (Irrigation Training and Research Center)	Consulting Services for the C2VSIM CA Dept of Water Resources (via CH2M Hill, Inc.)	\$68,602
Burt, Charles ITRC (Irrigation Training and Research Center)	Diamond Valley Ranch Irrigation Improvements Project South Tahoe Public Utility District via Domenichelli & Associates, Inc.	\$229,476
Burt, Charles ITRC (Irrigation Training and Research Center)	Technical services agreement Colorado River Indian Tribes	\$40,000
Burt, Charles ITRC (Irrigation Training and Research Center)	Monitoring of performance of grant-funded field irrigation systems Westlands Water District	\$72,700
Gaudi, Franklin ITRC (Irrigation Training and Research Center)	Agricultural consulting services at Lancaster Eastern Agricultural Sites (EAS) and Palmdale Effluent Management Site (EMS) Sanitation Districts of Los Angeles County	\$67,000
Kelly, Shaun F	Development of Methods for In-situ Generation and Application of Ozone to Fumigate Soil as an Alternative to Methyl Bromide for Crop Production CSU - Agricultural Research Initiative	\$10,771
Styles, Stuart ITRC (Irrigation Training and Research Center)	AGTAC energy and irrigation workshops Southern California Edison	\$390,000
Styles, Stuart ITRC (Irrigation Training and Research Center)	Evaluation of Modified Drip Irrigation Strategies on Strawberries: Maintenance of Yields While Reducing Irrigation Runoff to Coastal Streams from Sprinklers CSU - Agricultural Research Initiative	\$46,284
Styles, Stuart ITRC (Irrigation Training and Research Center)	Technical assistance program to water districts U.S. Dept of Interior, Bureau of Reclamation, Mid Pacific Region	\$1,500,000
Styles, Stuart ITRC (Irrigation Training and Research Center)	Strawberry Irrigation Methods Effects on Soil Salinity California Strawberry Commission	\$70,000
Styles, Stuart ITRC (Irrigation Training and Research Center)	Climate-change adaptation measures for irrigation design and operations - on- site training World Bank Group	\$33,229
Styles, Stuart ITRC (Irrigation Training and Research Center)	Strawberry Irrigation Methods Effects on Soil Salinity (Year2) California Strawberry Commission	\$70,000
Styles, Stuart ITRC (Irrigation Training and Research Center)	Irrigation Evaluation Short Courses 2011-2013 CA Dept of Water Resources	\$90,000

GRANTS AND CONTRACTS AWARDED IN FY 10/11

PI	TITLE AGENCY	AMOUNT
<u>College of Agriculture</u>		
Pedersen, Mary	Environmental conditions affecting RAVT bloom and yield Almond Board of California via University of California Cooperative Extension	\$8,363
<u>Dairy Science</u>		
Aseltine, Mark	Effect of Amylase Supplementation with Low-Starch Rations: Effects on Milk Production, Milk Components, Intake, and Feed Efficiency DSM Nutritional Products Inc.	\$32,480
Aseltine, Mark	The Effect of Microcyn® Technology (hypochlorous acid) on the Treatment of Hairy Foot Warts in Dairy Cows Innovacyn, Inc.	\$30,079
Farkye, Nana DPTC (Dairy Products Technology Center)	Evaluation of YieldMax in Monterey Jack Cheese Chr. Hansen Inc.	\$13,848
Farkye, Nana DPTC (Dairy Products Technology Center)	Effects of salt substitutes and anti-microbial intervention methods on functionality, shelf life, consumer acceptability of low sodium string cheese (low-moisture part-skim Mozzarella) and the survival of pathogenic bacteria Dairy Research Institute	\$200,200
Farkye, Nana DPTC (Dairy Products Technology Center)	A systematic study of cheese microbiology and flavor based on salt cation substitution in lower sodium cheddar cheese Dairy Research Institute	\$33,000
Golden, Bruce	High capacity SNP arrays for detecting genetic effects on dairy production trait CSU - Agricultural Research Initiative (Systemwide)	\$59,730
Golden, Bruce	Nitrogen removal from dairy wastewater using a novel reciprocating biofilm reactor CSU - Agricultural Research Initiative	\$4,000
Jimenez-Flores, Rafael DPTC (Dairy Products Technology Center)	Determination of Ultra Violet Light Resistance of Bacterial Spores in Milk to Enhance Milk Powder Quality and Shelf-life CA Dairy Research Foundation via University of California, Davis	\$90,000
Jimenez-Flores, Rafael DPTC (Dairy Products Technology Center)	Task Order #1: Optimization of human milk microfiltration for spore removal and milk solids concentration Neolac, Inc.	\$78,380
Jimenez-Flores, Rafael DPTC (Dairy Products Technology Center)	Developing Milk Protein - Based Structures for New Dairy Products Dairy Research Institute	\$77,325
Jimenez-Flores, Rafael DPTC (Dairy Products Technology Center)	Sensory analysis of milk treated by ultraviolet and pasteurization Surepure Operations AG	\$120,000
Jimenez-Flores, Rafael DPTC (Dairy Products Technology Center)	Effects of pulsed-light and heat treatments on the physiology of spore destruction CSU - Agricultural Research Institute	\$39,653
Jimenez-Flores, Rafael DPTC (Dairy Products Technology Center)	Task Order #2 & #3: Optimization and description of parameters for efficient separation at low temperature of cream and skim fractions in frozen/thawed human milk; and Characterize the partition of growth factors between cream and skim in human milk Neolac, Inc.	\$90,148

GRANTS AND CONTRACTS AWARDED IN FY 10/11

PI	TITLE AGENCY	AMOUNT
Jimenez-Flores, Rafael DPTC (Dairy Products Technology Center)	Method development for measuring coagulation kinetics of bulk milk and individual cow milk from the Cal Poly farm Fonterra USA Inc.	\$15,000
Jimenez-Flores, Rafael DPTC (Dairy Products Technology Center)	Task Order: Phenolic extraction from coffee by-products Starbucks Corporation	\$68,782
Lammert, Amy	Sensory Evaluation Program Development CSU - Agricultural Research Institute	\$5,000
Lammert, Amy DPTC (Dairy Products Technology Center)	Factors That Influence Probiotic Survival in Ice Cream University of California/California State University/Community College Collaborations	\$10,000
Lammert, Amy DPTC (Dairy Products Technology Center)	Factors That Influence Probiotic Survival in Ice Cream CSU - Agricultural Research Institute	\$20,000
Lammert, Amy DPTC (Dairy Products Technology Center)	Expanding Dairy Foods Learning Outcomes Southern California Institute of Food Technologists Section (SCiftS)	\$15,817
<u>Food Science & Nutrition</u>		
Hall, Laura	Vitamin D Status and Effectiveness of Supplementation in Overweight and Obese Adults University of California/California State University/Community College Collaborations via University of California, Davis	\$9,000
Hall, Laura	FLASH College Study Vitamin D Subset Analysis CSU - Agricultural Research Institute	\$5,000
Hall, Laura	Vitamin D Status of Obese Adult Women and the Effectiveness of Vitamin D Supplementation on Improving Vitamin D Status, Insulin Sensitivity and Markers of Inflammation American Dietetic Association - Medical Nutrition Practice Group	\$5,000
Hall, Laura	Vitamin D Status of Obese Adult Women and the Effectiveness of Vitamin D Supplementation on Insulin Sensitivity and Markers of Inflammation CSU - Agricultural Research Institute	\$20,000
Hampson, Brian	Algal Biomass Production Using Closed-Loop Tubular Photobioreactors CSU - Agricultural Research Initiative	\$77,197
Khalil, Hany	Afghanistan Agriculture Rapid Assessment Workshop U.S. Dept of Defense - U.S. Marine Corps	\$25,000
Lathrop, Amanda	Food Safety Lab Setup CSU - Agricultural Research Institute	\$5,000
Lathrop, Amanda	Microfiltration Process Assessment Tetra Pak Cheese and Powder Systems Inc.	\$500
Lathrop, Amanda	Blueberry Juice Anthocyanins Extraction Mattson via Rutgers University	\$4,950
Lathrop, Amanda	Blueberry Juice Anthocyanins Extraction Mattson	\$2,450
Nazmi, Aydin	Dietary patterns in relation to sleep and stress in college freshman: The Cal Poly FLASH Study CSU - Agricultural Research Institute	\$5,000

GRANTS AND CONTRACTS AWARDED IN FY 10/11

PI	TITLE AGENCY	AMOUNT
Papathakis, Peggy	Early infancy and young child feeding practices in Latino communities in California: implications for obesity and parenting tools for obesity prevention and child development U.S. Dept of Agriculture via CA Department of Public Health via San Luis Obispo County Public Health Department	\$48,840
Papathakis, Peggy	WIC infant and young child feeding study CSU - Agricultural Research Institute	\$25,749
Reaves, Scott	Additional Flavors for the Optimal Sport Drink Formula - Phase I & II Inalco BioChemicals, Inc.	\$4,232
Reaves, Scott	The effects of consuming a sports drink containing carbohydrate and caffeine on performance and metabolism in triathletes Inalco BioChemicals, Inc.	\$5,925
Reaves, Scott	Development of a CSU-UC Faculty - Student Research/Internship Program in Nutrition University of California/California State University/Community College Collaborations	\$10,000
Reaves, Scott	Vitamin D Status of Obese Adult Women and the Effectiveness of Vitamin D Supplementation on Insulin Sensitivity and Markers of Inflammation CSU - Agricultural Research Institute	\$4,545
Ritchie, Gerry	Decreasing Air Pollution from Ethanol Vapor Emissions during Grape Fermentation CSU - Agricultural Research Institute	\$20,000
<u>Horticulture & Crop Science</u>		
Brown, J Wyatt	Storability and Comparative Quality of Four Varieties of Tomato Syngenta Seeds, Inc.	\$40,000
Brown, J Wyatt	Potential for E. coli Growth on Packaged, Fresh-cut Leafy Greens at Supermarkets CSU - Agricultural Research Institute	\$47,537
Brown, J Wyatt	Packaging Consortium Task #5: Survey analysis of heavy metals in recycled plastics Various Sponsors (Packaging Consortium)	\$50,861
Brown, J Wyatt	Packaging Consortium Task #8: Travel and administrative support Various Sponsors (Packaging Consortium)	\$34,721
Costello, Michael J	Grape nutrition and spider mite response Applied Insect Ecologists Foundation	\$3,000
Garner, Lauren	Utilization of s-ABA to Improve Nursery Crop Health in Response to Water Deficit Stress CSU - Agricultural Research Institute	\$9,090
Headrick, David	Biology and management of Trupanea vincina, a native fruit fly species that has become a pest in ornamental flower production U.S. Dept of Agriculture (NIFA) via CSU Agricultural Research Institute	\$51,476
Lewis, Jason	Next Generation Seed Coating Trials The Scotts Company LLC	\$5,000
Welch, Mark	Walnut husk fly and lemon bud mite pest management control trials with Chlorpyrifos Eurofins Agrosience Services, Inc.	\$1,500
Wong, Jeffrey C.	Identification of Genetic Variability in Lettuce for Nutrient Uptake CA Leafy Greens Research Program via University of California Davis	\$10,000

GRANTS AND CONTRACTS AWARDED IN FY 10/11

PI	TITLE AGENCY	AMOUNT
Wong, Jeffrey C.	Equivalency Trials for Phytophthora in Open Field Hybrid Sweet Peppers in the United States Monsanto Company	\$5,000
<u>Natural Resource Management</u>		
Dicus, Christopher A. UFEI (Urban Forest Ecosystem Institute)	Tradeoffs in Fire Hazard vs. Societal Benefits in Wildland-Urban Interface Communities National Interagency Fire Center via U. S. Dept of Agriculture (Forest Service)	\$4,000
Dicus, Christopher A.	Landscape-Level Impacts To Wildland Fire Severity, Carbon Sequestration And Air Quality As Affected By Alternative Fuel Treatment Strategies CSU - Agricultural Research Initiative	\$42,917
Dicus, Christopher A.	McIntire-Stennis - Impacts of Alternative Fuel Treatment Strategies on Landscape-level Wildland Fire Severity, Carbon Sequestration and Air Quality U.S. Dept of Agriculture (NIFA)	\$14,032
Dicus, Christopher A. UFEI (Urban Forest Ecosystem Institute)	The California Fire Science Delivery Consortium - The Wildland Urban Interface (WUI) National Interagency Fire Center via U. S. Dept of Agriculture (Forest Service)	\$49,320
Dicus, Christopher A.	McIntire-Stennis - Prediction of Post-fire Mortality and Response Following Mixed-Severity Fires in a Coastal Redwood/Douglas-fir Forest U.S. Dept of Agriculture (NIFA)	\$15,000
Dietterick, Brian	Little Creek Watershed Study: Cooperative Instream Monitoring Project CA Dept of Forestry	\$60,000
Dietterick, Brian	McIntire-Stennis - Calibration Analysis and Post-treatment Phasing of a Paired and Nested Watershed Study to Evaluate Event-Based Suspended Sediment Export U.S. Dept of Agriculture (CSREES)	\$24,765
Dietterick, Brian	Post-Fire Change Detection of Selected Water Quality and Watershed Characteristics following the 2009 Lockheed Fire CSU - Agricultural Research Institute (Systemwide)	\$127,912
Dietterick, Brian	McIntire-Stennis - Use of LiDAR and Multispectral Imagery for Post-fire Evaluation of the Lockheed Fire U.S. Dept of Agriculture (NIFA)	\$10,292
Dietterick, Brian	Use of LiDAR and Multispectral Imagery for Post-Fire Evaluation of the Lockheed Fire U.S. Dept of Defense - Naval Postgraduate School	\$21,000
Dietterick, Brian	Use of LiDAR and Aerial Imagery for Post-Fire Evaluation following the 2009 Lockheed Fire CSU - Agricultural Research Institute	\$38,382
Gill, Samantha	Inventory and Modeling Peer Review CA Dept of Forestry and Fire Protection	\$10,000
Piirto, Douglas	McIntire-Stennis Forestry Research Program (2010-2011) U.S. Dept of Agriculture (NIFA)	\$33,463
Reimer, Jeff UFEI (Urban Forest Ecosystem Institute)	Urban Tree Key Project CA Dept of Forestry	\$70,150
Sink, Scott	Developing a dendrochronology research program at Cal Poly CSU - Agricultural Research Institute	\$5,000

GRANTS AND CONTRACTS AWARDED IN FY 10/11

PI	TITLE AGENCY	AMOUNT
Sink, Scott	McIntire-Stennis - An Evaluation of Stand Structural Changes in Uneven-aged Managed Coast Redwood Stands at Cal Poly's Swanton Pacific School Forest Affected by the 2009 Lockheed Fire U.S. Dept of Agriculture (NIFA)	\$5,095
Thompson, Richard	McIntire-Stennis - Identification of Forestland Management and Market Conditions for Profitable Investment in Carbon Storing Forestry-Offset Projects Using the California Climate Action Registry Protocols U.S. Dept of Agriculture (NIFA)	\$20,582
UFEI (Urban Forest Ecosystem Institute)		
Thompson, Richard	Identification of forestland management and market conditions for profitable investment in carbon storing forestry-offset projects using the California Climate Action Registry protocols CSU - Agricultural Research Institute	\$18,050
<u>Recreation, Parks, & Tourism Administration</u>		
Goldenberg, Marni	Longitudinal Research of Participation in a Wilderness Educational Experience Using Means-End Analysis CSU - Agricultural Research Initiative	\$9,085
Goldenberg, Marni	McIntire-Stennis - Examining Use of Forest Land: A Pacific Crest Trail Example U.S. Dept of Agriculture (CSREES)	\$5,000
Goldenberg, Marni	Examining the Use of Forest Land: A Pacific Crest Trail Example CSU - Agricultural Research Institute	\$15,000
Greenwood, Brian	Junior Giants: Assessment of Developmental Outcomes Giants Community Fund - Junior Giants	\$3,000
<u>Architecture & Env Design</u>		
<u>Architectural Engineering</u>		
Nelson, Jill	California critical infrastructure review for seismic vulnerabilities (CAL VIVA) - Phase 1 CA Office of Emergency Services	\$300,000
<u>Architecture</u>		
Assal, Hisham	ICODES development and software maintenance support – stage 24 U.S. Dept of Defense via Tapestry Solutions, Inc. - CDM	\$450,596
CADRC (Collaborative Agent Design Research Center)		
Pohl, Jens	ICODES Development and Software Maintenance Support – Stage 22 U.S. Dept of Defense via CDM Technologies, Inc.	\$239,977
CADRC (Collaborative Agent Design Research Center)		
Pohl, Jens	Knowledge Management Laboratory (KML) Center Consortium Knowledge Management Laboratory (KML) Center Consortium	\$290,000
CADRC (Collaborative Agent Design Research Center)		
<u>City & Regional Planning</u>		
Greve, Adrienne	Climate Adaptation Policy Guide CA Office of Emergency Services	\$375,000

GRANTS AND CONTRACTS AWARDED IN FY 10/11

PI	TITLE AGENCY	AMOUNT
Howard, Zeljka Pavlovich	Draft San Miguel 2035 Community Plan Update San Luis Obispo County	\$5,000
Howard, Zeljka Pavlovich	Half Moon Bay downtown urban design plan and design guidelines City of Half Moon Bay	\$16,211
Main, Kelly	City of Santa Maria General Plan Update (CRP 410/411) City of Santa Maria	\$2,958
Nuworsoo, Cornelius	Guidelines for Transit Bus Stop Spacing: Improving Accessibility and Performance CSU San Bernardino, Leonard Transportation Center	\$40,717
Nuworsoo, Cornelius	City of San Joaquin General Plan Project City of San Joaquin	\$20,000
Siembieda, William PDCI (Planning, Design and Construction Institute)	SMART field work CA Office of Emergency Services	\$12,200
Toker, Umut	Draft Long Beach Boulevard Specific Plan - CRP 553 Redevelopment Agency of City of Long Beach	\$22,524
Toker, Umut	Conceptual Atlantic Avenue urban design plan specific plan proposal - CRP 203 Redevelopment Agency of City of Long Beach	\$9,759
Unspecified,	TODCO Fourth/Fifth Streets Corridor Concept Plan TODCO Group	\$10,000
<u>Construction Management</u>		
Barlow, Philip CCCE (California Center for Construction Education)	Effects on Re-Inspection of Utilizing Internet Based Quality Control Software Services (IB-QC-SS) on Hospital Construction Projects Healthcare Technical Services (HTS)	\$10,000
Hauck, Allan	Construction Management Education Account 2010-11 CA Contractors State License Board	\$37,119
Jackson, Barbara CCCE (California Center for Construction Education)	California Center for Construction Education Fee-for-Service Agreement Various Sponsors	\$2,048
Korman, Thomas	BIM Training and Implementation Course for Electrical Contractors ELECTRI International	\$35,483
Simonian, Lonny G.	Smart grid and NFPA electrical safety codes and standards National Institute of Standards and Technology (ARRA) via Fire Protection Research Foundation	\$110,000
Simonian, Lonny G. REI (Renewable Energy Institute)	Combining charging station installation with energy efficiency upgrades - an emerging market ELECTRI International	\$44,048
Simonian, Lonny G.	Louis Stokes Alliance for Minority Participation Program (LSAMP) Student Scholar Program 2010-11 National Science Foundation via CSU, Sacramento University Enterprises, Inc.	\$26,750
Simonian, Lonny G.	Electrical vehicle charging and NFPA electrical safety codes and standards Fire Protection Research Foundation	\$22,500

GRANTS AND CONTRACTS AWARDED IN FY 10/11

PI	TITLE AGENCY	AMOUNT
Business		
<u>Accounting</u>		
Carr, Chris	Assessing the legal and economic impacts of container fees used to finance transportation improvements and enhance air quality CSU San Bernardino, Leonard Transportation Center	\$30,000
<u>Industrial Technology</u>		
Singh, Jagjit	Fee-for-Service Agreement, Cal Pack Lab Various Sponsors	\$21,498
Singh, Jagjit	Packaging Consortium Task #7: Innovative corrugated cut-back designs for standardized fresh-produce shippers Various Sponsors (Packaging Consortium)	\$49,532
Tornatzky, Louis	Packaging Consortium Task #1: Life cycle inventory (LCI) as a tool for packaging sustainability Various Sponsors (Packaging Consortium)	\$1,446
Tornatzky, Louis	Packaging Consortium Task #3: Validation of post-consumer recycled (PCR) and bio-based, biodegradable substrate composition, ASTM label claims for sustainability, food safety, performance and regulatory compliance Various Sponsors (Packaging Consortium)	\$867
Vorst, Keith	Packaging Consortium Task #6: Evaluation of micro-perforation technologies for packaging performance Various Sponsors (Packaging Consortium)	\$50,857
Engineering		
<u>Aerospace Engineering</u>		
Abercromby, Kira	Physical Properties of Orbiting Objects NASA via Jacobs Technology	\$61,000
McDonald, Robert	A multidisciplinary geometry based framework connecting design, optimization, aerodynamics, and structures. NASA - Ames Research Center	\$427,077
McDonald, Robert	Cal Poly Flight Test Platform and Instrumentation Development 2010-2011 U.S. Air Force, Edwards AFB	\$30,000
McDonald, Robert	An advanced extensible parametric geometry engine for multi-fidelity and multi-physics analysis in conceptual design NASA - Aeronautics Research Mission Directorate	\$892,939
Puig-Suari, Jordi ATL (Advanced Technology Lab)	Poly Picosatellite Orbital Deployer NASA - Kennedy Space Center	\$157,387
Puig-Suari, Jordi ATL (Advanced Technology Lab)	Microsatellite Deployer Systems Engineering Design and Development Support NASA - Ames Research Center	\$350,000
Puig-Suari, Jordi ATL (Advanced Technology Lab)	Colony II Environmental Test Support Services National Reconnaissance Office via The Boeing Company	\$90,000

GRANTS AND CONTRACTS AWARDED IN FY 10/11

PI	TITLE AGENCY	AMOUNT
Puig-Suari, Jordi ATL (Advanced Technology Lab)	Red dart project U.S. Dept of Defense via Georgia Tech Research Institute	\$78,611
Puig-Suari, Jordi ATL (Advanced Technology Lab)	IDIQ Task Assignment 9-003: ORS Falcon 1e enabler NASA - Kennedy Space Center	\$30,673
Puig-Suari, Jordi ATL (Advanced Technology Lab)	IDIQ Task Assignment 9-002: Mass Simulator for Glory NASA - Kennedy Space Center	\$19,000
Puig-Suari, Jordi ATL (Advanced Technology Lab)	IDIQ Task Assignment 9-001: Supplies and Services in support of Global Educational Network for Satellite Operations (GENSO) NASA - Kennedy Space Center	\$28,000
Puig-Suari, Jordi ATL (Advanced Technology Lab)	IDIQ Delivery Order #001: NPP mission support NASA - Kennedy Space Center	\$262,920
Puig-Suari, Jordi ATL (Advanced Technology Lab)	CubeSat Payload Support NASA Via Computer Sciences Corporation	\$20,500
Puig-Suari, Jordi ATL (Advanced Technology Lab)	P-POD Manufacturing, integration, and testing support U.S. Dept of Defense - Naval Postgraduate School	\$50,000
Puig-Suari, Jordi ATL (Advanced Technology Lab)	Test-POD procurement and integration support The Boeing Company	\$15,000
Puig-Suari, Jordi ATL (Advanced Technology Lab)	IDIQ Delivery Order #004: OUTSat P-POD mission support National Reconnaissance Office via NASA - Kennedy Space Center	\$480,700
Puig-Suari, Jordi ATL (Advanced Technology Lab)	IDIQ Task Assignment #4: OUTSat Auxiliary Payload Integrating Contractor (APIC) National Reconnaissance Office via NASA - Kennedy Space Center	\$601,254
Puig-Suari, Jordi ATL (Advanced Technology Lab)	IDIQ Delivery Order #002: CRS2 mission support NASA - Kennedy Space Center	\$438,900
Puig-Suari, Jordi ATL (Advanced Technology Lab)	IDIQ delivery order #003: Commercial re-supply services mission support NASA - Kennedy Space Center	\$14,630
<u>Civil & Environmental Engineering</u>		
Fiegel, Gregg	NEESR-SG: Seismic Performance Assessment in Dense Urban Environments National Science Foundation via Consortium of Universities for Research in Earthquake Engineering	\$12,000
Goel, Rakesh	Bridge Design for Earthquake Fault Crossings: Synthesis of Design Issues and Strategies CA Dept of Transportation (Caltrans)	\$194,024
Goel, Rakesh	LNGTEMS/MOTEMS Performance-based seismic criteria California States Lands Commission (CSLC)	\$30,493
Lundquist, Trygve	Low-cost waste-grown algae biofuel feedstock production CA Energy Commission	\$250,000
Moss, Robb	NEESR-CR: Seismic Earth Pressures on Retaining Structures National Science Foundation via University of California, Berkeley (ARRA)	\$28,325

GRANTS AND CONTRACTS AWARDED IN FY 10/11

PI	TITLE AGENCY	AMOUNT
Nelson, Yarrow M. GWRI (Global Waste Research Institute)	Task #3: Zero-waste strategies for oily sludges Chevron Energy Technology Co.	\$64,700
Pal, Nirupam EBI (Environmental Biotechnology Institute)	Task #2: Nitrogen Management, Odor Suppression and Preliminary Fungal Inhibition Studies with Biowish Biowish Technologies	\$51,795
Pal, Nirupam	Biowish Research Support 2011 Biowish Technologies	\$18,100
Pande, Anurag	Proactive assessment of accident risk to improve safety on a system of freeways U.S. Dept of Transportation and Caltrans via Mineta Transportation Institute at San Jose State University	\$53,898
Yesiller, Nazli GWRI (Global Waste Research Institute)	MRI: Acquisition of optical interferometry system for multi-scale analysis of surface characteristics for civil engineering applications National Science Foundation (MRI)	\$371,982
<u>College of Engineering</u>		
Breitenbach, Stacey	MESA Schools Program 2010-2011 University of California, Office of the President - MESA	\$100,000
Breitenbach, Stacey	NSF/MESA CSEMS Scholarship Grant program 2010-2011 National Science Foundation via University of California, Office of the President - MESA	\$45,000
<u>Computer Science</u>		
Clark, Christopher Marine Science (Center for Coastal Marine Sciences)	RI: Small: RUI: Shark Tracking with Multiple Autonomous Underwater Vehicles National Science Foundation (IIS)	\$490,815
<u>Electrical Engineering</u>		
Derickson, Dennis	High-speed wavelength-swept single chip tunable lasers and their applications to high speed optical test and measurement solutions Global Test	\$11,000
Dolan, Dale	Task #2: Three-phase ground-fault circuit-interrupter system Chevron Energy Technology Co.	\$116,922
Jin, Xiaomin	International: Engineering research and educational collaboration on gallium- nitride (GaN) lasers and light emitting diodes (LEDs) National Science Foundation (IRES)	\$147,775
Saghri, John A.	Synthetic Aperture Radar Automatic Target Recognition (SAR ATR) for Ground Targets Raytheon Company	\$20,000
Slivovsky, Lynne	Organic Twittering: Building Green Economic Capacity Corporation for National and Community Service (Learn and Serve) via CA Campus Compact	\$25,000
Slivovsky, Lynne	Collaborative Research: Finding personal meaning and societal connections in engineering education: A case study in integrated course transfer National Science Foundation (IEECI)	\$105,064
Slivovsky, Lynne	Effects of adapted physical activity design projects on attitudes and learning National Science Foundation (EAGER)	\$27,997

GRANTS AND CONTRACTS AWARDED IN FY 10/11

PI	TITLE AGENCY	AMOUNT
<u>Industrial & Manufacturing Engineering</u>		
Colvin, Kurt	Fuel Cell Combined Heat and Electrical Airplane Power The Boeing Company	\$30,282
Freed, Tali Poly GAIT (Center for Global Automatic Identification Technologies)	Education Partnership Agreement U.S. Dept of Defense, Defense Microelectronics Activity (DMEA)	\$8,500
Freed, Tali Poly GAIT (Center for Global Automatic Identification Technologies)	Prototype development for an RFID tool checkout system for PG&E Diablo Canyon Power Plant Tool Room Pacific Gas & Electric Company	\$25,000
<u>Materials Engineering</u>		
Chen, Katherine C.	Collaborative Research: Understanding students' development and deployment of lifelong learning skills National Science Foundation (TUES) via Franklin W. Olin College of Engineering	\$97,787
Harding, Trevor	Fee-for-Service Agreement, Materials Engineering Department Instruments and Facilities Various Sponsors	\$27,723
Harding, Trevor	Task #1 under Chevron Master Agreement CW834198 Chevron Energy Technology Co.	\$7,000
Vanasupa, Linda	Collaborative Research: Civil and Environmental Engineering Education (CEEE) Transformational Change: Sustainability Curriculum Development, Implementation, Dissemination and Assessment National Science Foundation (CCLI)	\$19,040
Vanasupa, Linda CSE (Center for Sustainability in Engineering)	Establishing a distributed community of educators to study a transformational education experiment National Science Foundation (IEECI)	\$386,896
<u>Mechanical Engineering</u>		
Lemieux, Patrick	Fee-For-Service Cal Poly Engines Laboratory Various Sponsors	\$46,351
Mackin, Thomas	Center for renewable energy and alternative electric transportation technologies (CREATT) U.S. Dept of Energy	\$250,000
Murray, William R	Advanced fuel grain design for hybrid rocket motors California Space Grant Consortium via NASA	\$10,000
Pascual, Christopher	Thermal sciences for fire protection engineers U.S. Nuclear Regulatory Commission	\$101,766
Westphal, Russell	Wing Boundary Layer Measurement System NASA Dryden Research Center	\$147,322
Westphal, Russell	Boundary layer excrescence evaluation study - phase II U.S. Air Force via Northrop Grumman	\$81,757

GRANTS AND CONTRACTS AWARDED IN FY 10/11

PI	TITLE AGENCY	AMOUNT
Westphal, Russell	Cal Poly Laminar flow internal research and development (IRAD) - 2011 Northrop Grumman	\$39,997
Liberal Arts		
<u>Art & Design</u>		
Martinez, Charmaine	Heal-SLO recipe card design and printing San Luis Obispo County Community Foundation - Heal-SLO	\$3,500
Van Kleeck, Jeffrey	University Art Gallery for the 2010-2011 exhibition season City of San Luis Obispo (PCC)	\$3,172
<u>Cal Poly Arts</u>		
Lerian, Steve	NEA jazz masters and more series National Endowment for the Arts	\$20,000
Lerian, Steve	Performance by Aquila Theatre Company National Endowment for the Arts via TourWest	\$2,500
Lerian, Steve	Performance by Esperanza Spalding National Endowment for the Arts via TourWest	\$2,125
Lerian, Steve	Performance by Aquila Theatre Company 2012 National Endowment for the Arts via TourWest	\$1,750
Lerian, Steve	Ken Waldman and the Secret Visitors National Endowment for the Arts via TourWest	\$2,000
<u>Graphic Communication</u>		
Levenson, Harvey GrCI (Graphic Communication Institute)	Fee-for-Service Agreement, GrCI Various Sponsors	\$144,139
Levenson, Harvey GrCI (Graphic Communication Institute)	Audio and visual services for the Nuclear Regulatory Commission's meetings in San Luis Obispo U.S. Nuclear Regulatory Commission	\$2,700
<u>Philosophy</u>		
Lin, Patrick	Enhanced warfighters: Risk, ethics & policy Greenwall Foundation	\$66,855
<u>Psychology & Child Development</u>		
Caldwell, Roslyn	Prevention and Intervention Services Proposal: The Bakari Project©: A mentoring, treatment intervention, and prevention program for juvenile male probationers San Luis Obispo County Probation Department	\$10,000
Caldwell, Roslyn	The Bakari Project© mentoring program at Cal Poly - Pathways to adulthood San Luis Obispo County Community Foundation	\$9,361
Caldwell, Roslyn	Prevention and Intervention Services Proposal: The Bakari Project©: A mentoring, treatment intervention, and prevention program for juvenile male probationers San Luis Obispo County Probation Department	\$26,335

GRANTS AND CONTRACTS AWARDED IN FY 10/11

PI	TITLE AGENCY	AMOUNT
Engle, Patrice	Early child development programs: Effective interventions for human development? National Institutes of Health via University of Pennsylvania	\$28,711
Garcia, Julie	A Multi- Method Investigation of the Situational Cues and Contexts Inhibiting Women in STEM Settings National Science Foundation via University of Illinois at Chicago	\$78,025
<u>Social Sciences</u>		
Jones, Terry	Archaeological Analysis - Diablo Canyon North Ranch Pacific Gas & Electric Company	\$40,639
Neill, Dawn	RUI: Urbanization and Parental Investment among Fijians National Science Foundation (RUI)	\$66,154
<u>Science & Mathematics</u>		
<u>Biological Sciences</u>		
Cano, Raul EBI (Environmental Biotechnology Institute)	Fee-for-Service Agreement, EBI Various Sponsors	\$18,594
Keil, David	Collaborative Proposal: Harnessing the Power of Herbarium Specimens to Understand the Changing Flora of a Biodiversity Hotspot in Peril National Science Foundation (BRC) via University of California Santa Barbara	\$51,392
Kitts, Christopher L EBI (Environmental Biotechnology Institute)	Task #1: Characterizing BiOWiSH Product Activation Biowish Technologies	\$75,973
Kitts, Christopher L EBI (Environmental Biotechnology Institute)	Integrating Molecular Forensics Modules into the Undergraduate Science Curriculum CSUPERB: Programmatic Grant Program	\$15,000
Moline, Mark Marine Science (Center for Coastal Marine Sciences)	Rapid Environmental Assessment Using an Integrated Coastal Ocean Observation and Modeling System U.S. Dept of the Navy, Office of Naval Research via Rutgers University	\$109,245
Moline, Mark Marine Science (Center for Coastal Marine Sciences)	CeNCOOS: Long-Term Monitoring of Environmental Conditions in Support of Protected Marine Area Management in Central and Northern California NOAA via Monterey Bay Aquarium Research Institute	\$74,999
Moline, Mark Marine Science (Center for Coastal Marine Sciences)	Dynamic Modeling of Marine Bioluminescence and Night Time Leaving Radiance U.S. Dept of the Navy, Office of Naval Research	\$40,769
Moline, Mark Marine Science (Center for Coastal Marine Sciences)	Fee-for-Service Agreement, Marine Sciences Various Sponsors	\$14,206
Moline, Mark Marine Science (Center for Coastal Marine Sciences)	Central California high-frequency (HF) radar ocean surface current mapping (SCM) and harmful algal bloom components National Oceanic and Atmospheric Administration via Scripps Institution of Oceanography	\$150,900

GRANTS AND CONTRACTS AWARDED IN FY 10/11

PI	TITLE AGENCY	AMOUNT
Moline, Mark Marine Science (Center for Coastal Marine Sciences)	Resolving complex flows in a reef/island environment U.S. Dept of the Navy, Office of Naval Research	\$123,035
Moline, Mark Marine Science (Center for Coastal Marine Sciences)	Real-time characterization of adélie penguin foraging environment using an autonomous underwater vehicle National Science Foundation (EAGER-ARRA)	\$290,000
Moline, Mark Marine Science (Center for Coastal Marine Sciences)	Collaborative Research: The propagating response of the inner shelf to wind relaxations in a coastal upwelling system National Science Foundation	\$226,762
Moline, Mark Marine Science (Center for Coastal Marine Sciences)	Systematic mapping of teuthivorous whale prey fields U.S. Army Corp of Engineers (SERDP) via Oregon State University	\$167,043
Moline, Mark Marine Science (Center for Coastal Marine Sciences)	A coastal ocean circulation monitoring program for Northern and Central California (COCMP): HF-Radar for central and northern California CA State Coastal Conservancy via San Francisco State University	\$83,142
Moline, Mark Marine Science (Center for Coastal Marine Sciences)	Resolving complex flows over seamounts in the Gulf of Mexico U.S. Dept of the Navy, Office of Naval Research	\$169,084
Ritter, Matthew	Propagation, Distribution, and Evaluation of Salt-tolerance in Shrubby Eucalypts for California University of California, Davis via Saratoga Horticultural Research Endowment	\$4,500
Strand, Christine	Quantification of Neurogenesis and Gliogenesis in Adult Python Brains CSUPERB - New Investigator	\$14,310
Tomanek, Lars Marine Science (Center for Coastal Marine Sciences)	Ocean Acidification Category 1 Collaborative Research: RUI: Synergistic effects of temperature and pH variability on physiology, transcriptome and proteome of porcelain crabs National Science Foundation (RUI)	\$476,894
Tomanek, Lars Marine Science (Center for Coastal Marine Sciences)	A global perspective on thermal tolerance limits: transcriptomic and proteomic signals of heat stress in intertidal limpets CSU COAST Faculty Research Incentive Award Program	\$3,562
Winstead, Candace	Comparing the Innate Immune Response of Intestinal Epithelial Cells to Vibrio pathogens CSUPERB - New Investigator	\$15,000
<u>Chemistry and Biochemistry</u>		
Costanzo, Philip	Easily Processed Host-Guest Polymer Systems with High-Tg Characteristics U.S. Dept of Defense - U.S. Army Research Laboratory	\$23,747
Fernando, Raymond	Improvement of coating adhesion and quantification of durability of coated polypropylene exterior cladding products CertainTeed Corporation	\$40,000

GRANTS AND CONTRACTS AWARDED IN FY 10/11

PI	TITLE AGENCY	AMOUNT
Immoos, Chad E.	On-line contamination analysis for recycled PET Penninsula Packaging via V Laboratories	\$96,044
Immoos, Chad E.	Development of a Quantitative Fluorescence Method for Measurement of Corrosion in Coated Aluminum The Boeing Company	\$39,880
Jones, Dane	Fee-for-Service Agreement, Polymers and Coatings Laboratory Various Sponsors	\$70,800
Lehr, Corinne	Determination of Cyanuric Acid (CYA) Purity – Part 1 Pool and Spa Magazine	\$1,293
Marlier, John	RUI: Thioester hydrolysis: A mechanistic study of one of nature's most reactive acyl groups National Science Foundation (RUI)	\$90,560
Martinez, Andres	Point-of-care paper-based displacement immunoassays CSUPERB - New Investigator	\$13,535
Neff, Grace Ann	Central coast science project 2010-2011 University of California, Office of the President - California Science Project	\$48,000
<u>College of Science & Mathematics</u>		
Wendt, Dean	Biological Assessment of the Efficacy of Non-toxic, Fouling Release Coatings and Investigations of the Mechanisms Controlling Elastomeric Coating Performance Marine Science (Center for Coastal Marine Sciences) U.S. Dept of the Navy, Office of Naval Research	\$178,127
Wendt, Dean	Barnacle attachment testing Marine Science (Center for Coastal Marine Sciences) Teledyne Scientific	\$19,688
Wendt, Dean	Adhesion strength of barnacles to silicone coatings Marine Science (Center for Coastal Marine Sciences) NuSil Technology LLC	\$6,563
<u>Kinesiology</u>		
McDermott, Ann	The Pink and Dude Chefs Culinary Program Catholic Healthcare West - Arroyo Grande Hospital	\$2,000
Phelan, Suzanne	Nutritionist services for on-line nutrition intervention, Phase 2 U.S. Dept of Agriculture via California Department of Public Health via County of San Luis Obispo WIC	\$8,700
Phelan, Suzanne	Technical services for on-line nutrition intervention U.S. Dept of Agriculture via CA Department of Public Health via County of San Luis Obispo WIC	\$12,250
<u>Liberal Studies</u>		
Berber-Jimenez, M. Dolores	California Science Project Teacher Retention Initiative CA Postsecondary Education Commission via Regents of University of California	\$29,313
Berber-Jimenez, M. Dolores	"Inquiry Core for 3rd, 4th and 5th grade" A Paso Robles JUSD Science Partnership CA Dept of Education via Paso Robles Joint Unified School District	\$377,157

GRANTS AND CONTRACTS AWARDED IN FY 10/11

PI	TITLE AGENCY	AMOUNT
<u>Mathematics</u>		
Agronsky, Steven	Mathematics diagnostic testing project (MDTP) 2009-2011 University of California	\$30,737
Camp, Charles	Collaborative Research: Mathematics and Climate Change Research Network National Science Foundation	\$18,045
Mendes, Anthony	Permutation Patterns 2011 National Science Foundation	\$20,000
Yoshinobu, Stan	Academy of Inquiry Based Learning (AIBL) at Cal Poly San Luis Obispo Educational Advancement Foundation	\$56,022
<u>Physics</u>		
Christiansen, Jodi	RUI: Analysis of TeV Gamma-rays from AGN and Dark Matter National Science Foundation (RUI)	\$64,975
Gillen, Glen	Theoretical and experimental optimization of propagation and focal parameters of laboratory-environment lasers and applications U.S. Air Force via UES Inc.	\$25,000
Gutierrez, Thomas	RUI: Analysis, simulation, and onsite activities contributing to the search for neutrinoless double beta decay in tellurium using the CUORE detector National Science Foundation (RUI)	\$74,718
Hoellwarth, Chance	Central California Partnership for Teacher Quality Programs: CSU Bakersfield, CSU Monterey Bay, Cal Poly U.S. Dept of Education via CSU Bakersfield	\$353,507
	CESaME (Center for Excellence in Science and Mathematics Education)	
Holtzapple, Robert	Beam dynamic work at Cornell National Science Foundation via Cornell University	\$23,500
Holtzapple, Robert	RUI: Cornell Electron-Positron Storage Ring Beam Physics Research at the California Polytechnic State University at San Luis Obispo National Science Foundation (RUI)	\$90,000
Keller, John	Science teacher and researcher (STAR) national pilot proposal National Science Foundation	\$107,174
	CESaME (Center for Excellence in Science and Mathematics Education)	
Keller, John	CSU science teacher and researcher (STAR): Strengthening K-12 science teaching in California S. D. Bechtel, Jr. Foundation	\$265,000
	CESaME (Center for Excellence in Science and Mathematics Education)	
Klay, Jennifer	RUI: Investigation of heavy quark energy loss in relativistic nucleus-nucleus collisions at the CERN LHC National Science Foundation (RUI)	\$197,500
Klay, Jennifer	Improving experimental conditions and accuracy of the Neutron Induced Fission Fragment Tracking Experiment (NIFFTE) time projection chamber U.S. Dept of Energy (NEUP) via Battelle Energy Alliance, LLC via Idaho State University	\$240,000
Moelter, Matthew	Comprehensive study of the mid tertiary paleomagnetic reversal recorded in the Liverpool Range, NSW Australia National Science Foundation via University of Wisconsin at Madison	\$16,014

GRANTS AND CONTRACTS AWARDED IN FY 10/11

PI	TITLE AGENCY	AMOUNT
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Saunders, Karl	RUI: Analysis of phase transitions, biaxiality and surface effects in chiral smectic liquid crystals National Science Foundation (RUI)	\$75,000
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Student Affairs

Health & Counseling Services

Bragg, Martin	Safer California Universities: A Multi-Campus Alcohol Problem Prevention Study NIAAA via Prevention Research Center, Pacific Institute for Research & Evaluation	\$9,600
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Student Academic Services

Gonzalez, Luis	Cal Poly Upward Bound Project (2007-2012) U.S. Dept of Education	\$387,523
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Margarito, Cesar	Student Support Services for Low-Income, First-Generation and Disabled Students (2010-2015) U.S. Dept of Education	\$298,581
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Olvera, Nelda	Talent Search Program (2007- 2012) U.S. Dept of Education	\$453,200
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Student Life & Leadership

Harkins, Joy	California's VIP (Volunteer Infrastructure Program) Fellows and Leaders 2010-11 AmeriCorps via Napa County Office of Education	\$245,424
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Harkins, Joy	Cal Poly's VIP (Volunteer Infrastructure Program) - Community Partners 2010-11 Various Non-Profit Organizations	\$176,800
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Harkins, Joy	Laying the Foundation for STEM Service Learning Learn and Serve via CSU Chancellor's Office	\$4,000
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Harkins, Joy	California Volunteer Matching Network (CVMN) HUB Pilot Site Corporation for National and Community Service via CA Volunteers	\$11,996
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Lamb, Stephan	Central Coast Volunteer Corps 2009-10 Community Partners Various Non-Profit Organizations	\$86,000
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Lamb, Stephan	San Luis Obispo County Homeless Enumeration Project 2010-11 San Luis Obispo County	\$5,000
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Mockford, Jason	Cal Poly Open House 2011 City of San Luis Obispo (TBID)	\$2,500
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Silva, Diego	Alcohol Awareness: Make the Better Decisions U.S. Dept of Education via California Coalition for Safer Universities at University of California Irvine	\$4,900
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Torrey, Jesse	California's VIP (Volunteer Infrastructure Program) Regional Training AmeriCorps via Napa County Office of Education	\$6,000
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Other

Honors Program

Alptekin, Sema E.	California's Call to Service Initiative (Allocation Process 2010-2011) CSU Chancellor's Office Community Service Learning	\$45,000
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GRANTS AND CONTRACTS AWARDED IN FY 10/11

PI	TITLE AGENCY	AMOUNT
<u>Office of Inclusive Excellence</u>		
Conn, W. David	Louis Stokes Alliance for Minority Participation Program (LSAMP) National Science Foundation via CSU, Sacramento University Enterprises, Inc.	\$48,000
Conn, W. David	Louis Stokes Alliance for Minority Participation Program (LSAMP) Student Scholar Program 2010-11 National Science Foundation via CSU, Sacramento University Enterprises, Inc.	\$6,000
Conn, W. David	Louis Stokes Alliance for Minority Participation Program (LSAMP) Student Scholar Program 2011-12 National Science Foundation via CSU, Sacramento University Enterprises, Inc.	\$8,000
<u>Performing Arts Center</u>		
Regier, Ron	JumpBrush Dance Festival City of San Luis Obispo (PCC)	\$4,000
Regier, Ron	Youth Outreach for the Performing Arts Center United Way of San Luis Obispo County	\$5,000
<u>Research & Graduate Programs</u>		
Opava, Susan	Cal Poly Technology Park Initiative - EDA Support for Building Construction Economic Development Administration	\$300,000
Opava, Susan	NSF Graduate research fellowship (for Matthew Holding) National Science Foundation	\$41,500
Opava, Susan	The California Central Coast Research Partnership: Building Relationships, Partnerships and Paradigms for University-Industry Research Collaboration U.S. Dept of the Navy, Office of Naval Research	\$2,788,000
<u>University Police Department</u>		
Cramer, Marlene	Homeland Security Grant Program for 2008-09 U.S. Office of Homeland Security via CA Office of Emergency Services via CSU Chancellor's Office	\$26,958
Jordan, Donna	Bulletproof Vest Partnership 2008 U.S. Dept of Justice, Office of Justice Programs via CA Office of Emergency Services	\$468
GRAND TOTALS:		285 Projects \$26,497,678

