



# GRANTS DEVELOPMENT OFFICE

Research and Graduate Programs

ANNUAL REPORT OF EXTRAMURAL FUNDING

2008-2009

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



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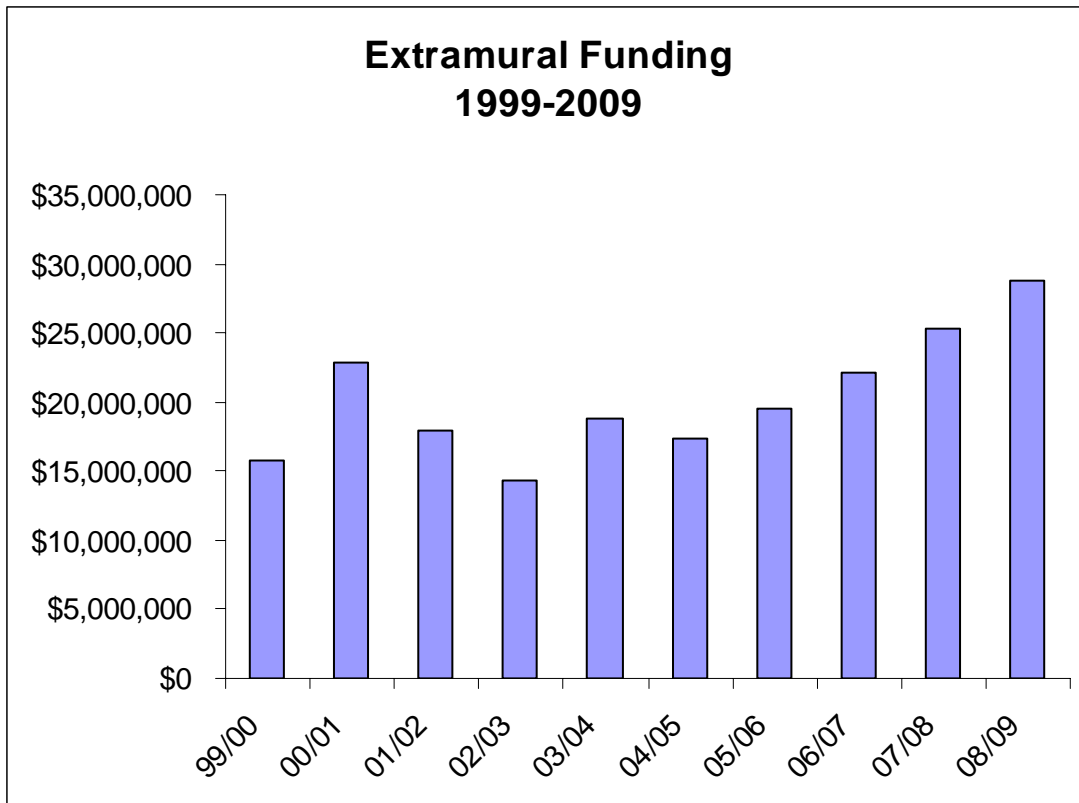
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# INTRODUCTION

During the fiscal year 2008-2009, which covers the reporting period from July 1, 2008 to June 30, 2009, the Cal Poly Grants Development Office assisted 277 Cal Poly faculty and staff in the submission of 311 proposals requesting \$81,303,876 in funding. This submission rate is very similar to last years; however, it represents a 50% increase in funding requested. The amount of external funds awarded to the University during this period showed a similar positive trend, increasing to \$28,827,275. This represents a 14% increase from the previous fiscal year. The figure below shows the trend in funding received by Cal Poly over the past ten years.



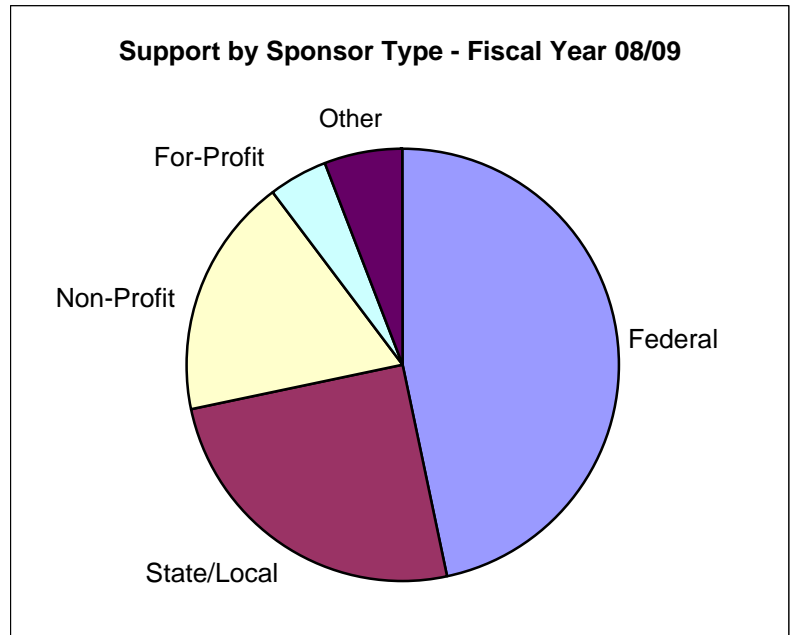
The intent of this report is to provide you with a useful overview of Cal Poly's performance in securing external funding for sponsored projects, which include research, curriculum development, equipment acquisition, professional development, education, and training. Detailed reports for the past several years can also be found on the web at:

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

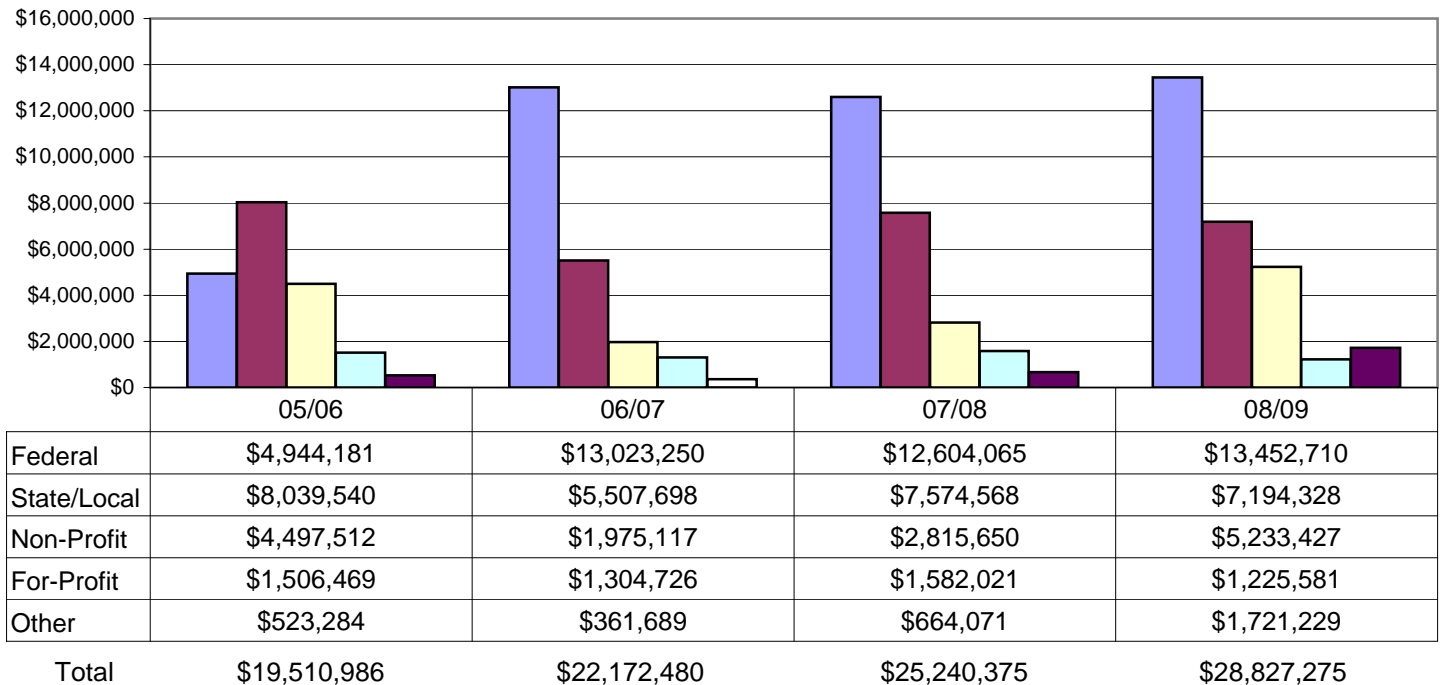
## Summary of Awards in FY 08/09 by Sponsor Type

**Fiscal Year 08/09**

Sponsor Type	Award Value	% of Total
Federal	\$13,452,710	47%
State/Local	\$7,194,328	25%
Non-Profit	\$5,233,427	18%
For-Profit	\$1,225,581	4%
Other	\$1,721,229	6%
<b>Total</b>	<b>\$28,827,275</b>	



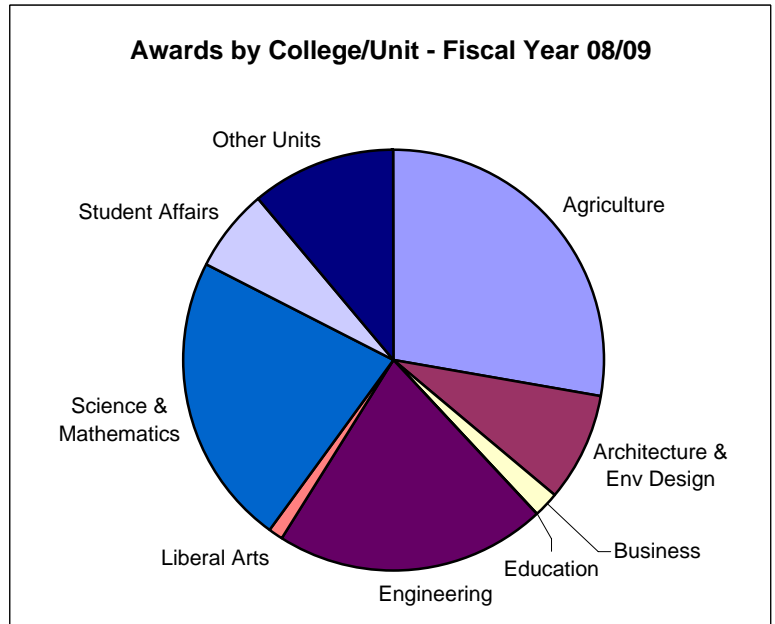
## Award Totals by Sponsor Type 05/06 to 08/09



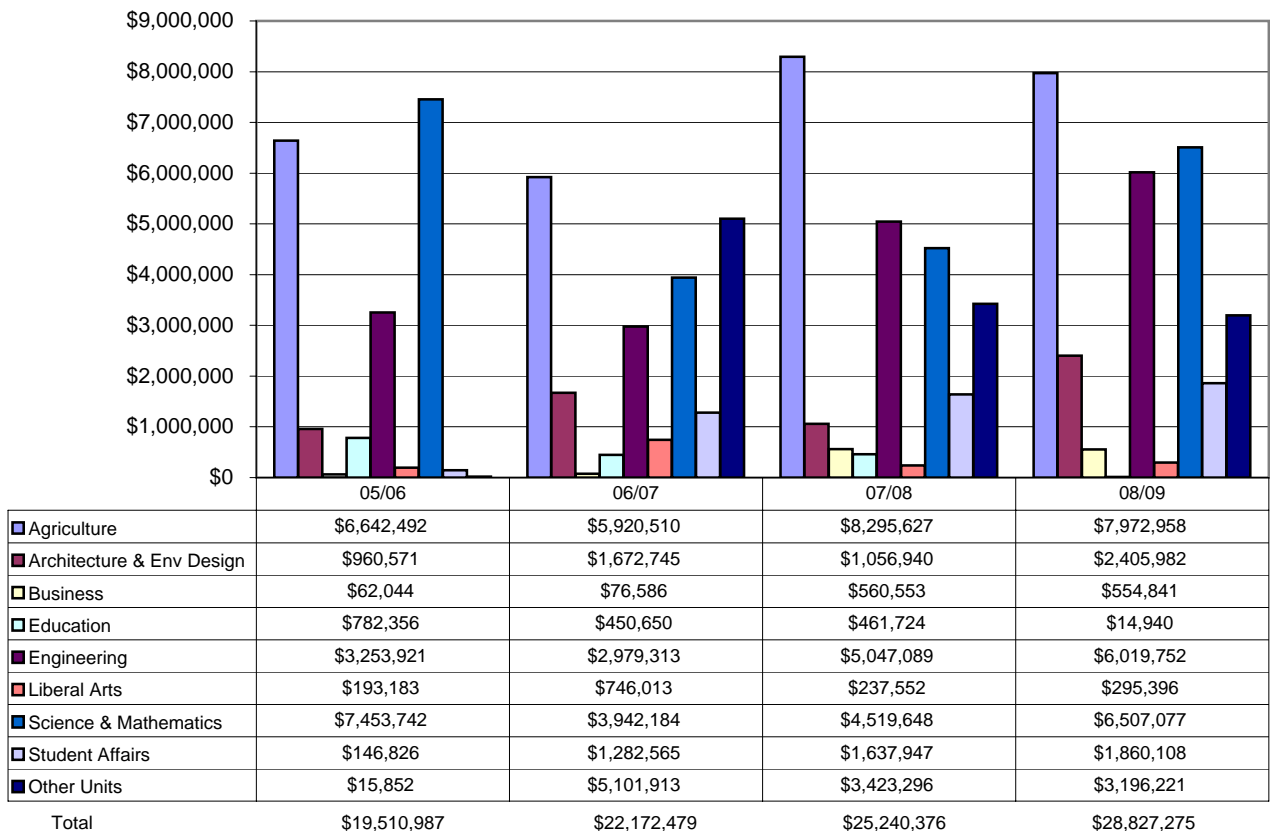
## Summary of Awards in FY 08/09 by College/Unit

**Fiscal Year 08/09**

College	Award Value
Agriculture	\$7,972,958
Architecture & Env Design	\$2,405,982
Business	\$554,841
Education	\$14,940
Engineering	\$6,019,752
Liberal Arts	\$295,396
Science & Mathematics	\$6,507,077
Student Affairs	\$1,860,108
Other Units	\$3,196,221
<b>Total</b>	<b>\$28,827,275</b>



## Award Totals by College/Unit 05/06 to 08/09



## Awards by College/Unit Fiscal Years 07/08 and 08/09

### AWARDS

	7/1/07 - 6/30/08			7/1/08 - 6/30/09					
	# Faculty	% of Total	# Awards	Award \$	# Faculty	% of Total	# Awards	Award \$	Per Capita \$
Agriculture	46	49.46%	96	\$8,295,627	42	47.19%	84	\$7,972,958	\$89,584
Architecture & Env Design	7	12.73%	16	\$1,056,940	10	17.24%	15	<b>\$2,405,982</b>	\$41,482
Business	3	6.25%	4	\$560,553	5	9.62%	5	\$554,841	\$10,670
Education	3	25.00%	4	\$461,724	2	15.38%	2	\$14,940	\$1,149
Engineering	35	29.91%	56	\$5,047,089	29	25.22%	50	<b>\$6,019,752</b>	\$52,346
Liberal Arts	4	2.80%	8	\$237,552	6	3.87%	13	<b>\$295,396</b>	\$1,906
Library	0	0.00%	0	\$0	0	0.00%	0	\$0	\$0
Other Units	6		12	\$3,423,296	5		7	\$3,196,221	
Science & Math	24	20.34%	45	\$4,519,648	31	24.41%	43	<b>\$6,507,077</b>	\$51,237
Student Affairs	7		12	\$1,637,947	6		11	<b>\$1,860,108</b>	
<b>Total:</b>	<b>135</b>	<b>22.73%</b>	<b>253</b>	<b>\$25,240,376</b>	<b>136</b>	<b>21.97%</b>	<b>230</b>	<b>\$28,827,275</b>	<b>\$46,571</b>

Key to Table: % of Total = # Faculty as a percentage of all 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. Shaded area represents an increase over previous year.

## AWARDS IN FY 08/09 BY COLLEGE/UNIT AND DEPARTMENT

### Agriculture, Food & Env Sciences

Agribusiness	\$209,102
Animal Science	\$306,577
BioResource and Agricultural Engineering	\$3,310,498
Dairy Products Technology Center	\$108,540
Dairy Science	\$1,762,756
Earth & Soil Sciences	\$1,295,784
Food Science & Nutrition	\$208,774
Horticulture & Crop Science	\$194,016
Natural Resource Management	\$576,911

Total for Agriculture, Food & Env \$7,972,958

### Architecture & Env Design

Architectural Engineering	\$64,300
Architecture	\$522,477
City & Regional Planning	\$1,687,257
Construction Management	\$125,145
Landscape Architecture	\$6,803

Total for Architecture & Env Design \$2,405,982

### Business

College of Business	\$5,000
Finance	\$600
Industrial Technology	\$549,241

Total for Business \$554,841

### Education

Graduate Studies in Education	\$14,940
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Total for Education \$14,940

### Engineering

Aerospace Engineering	\$3,633,260
Biomedical and General Engineering	\$376,789
Civil & Environmental Engineering	\$1,320,021
College of Engineering	\$29,694
Computer Science	\$82,050

### Engineering (Cont.)

Electrical Engineering	\$208,247
Industrial & Manufacturing Engineering	\$95,000
Mechanical Engineering	\$253,441
Minority Engineering Program	\$21,250

Total for Engineering \$6,019,752

### Liberal Arts

Cal Poly Arts	\$10,000
Graphic Communications	\$44,002
Liberal Studies	\$40,000
Psychology & Child Development	\$199,941
Social Sciences	\$1,453

Total for Liberal Arts \$295,396

### Science & Mathematics

Biological Sciences	\$4,051,560
Chemistry and BioChemistry	\$327,267
Kinesiology	\$57,688
Mathematics	\$423,011
Physics	\$1,465,865
Statistics	\$181,686

Total for Science & Mathematics \$6,507,077

### Student Affairs

Health & Counseling Services	\$9,600
Student Academic Services	\$904,009
Student Life & Leadership	\$946,499

Total for Student Affairs \$1,860,108

### Other

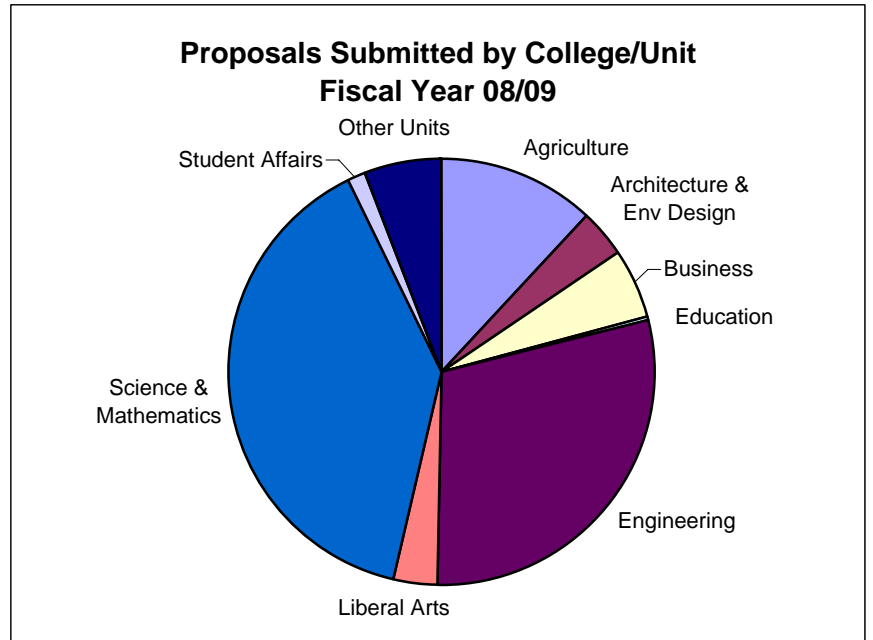
Academic Programs	\$48,000
Center for Teaching & Learning	\$14,500
Research & Graduate Programs	\$3,108,000
University Police Department	\$25,721

Total for Other \$3,196,221

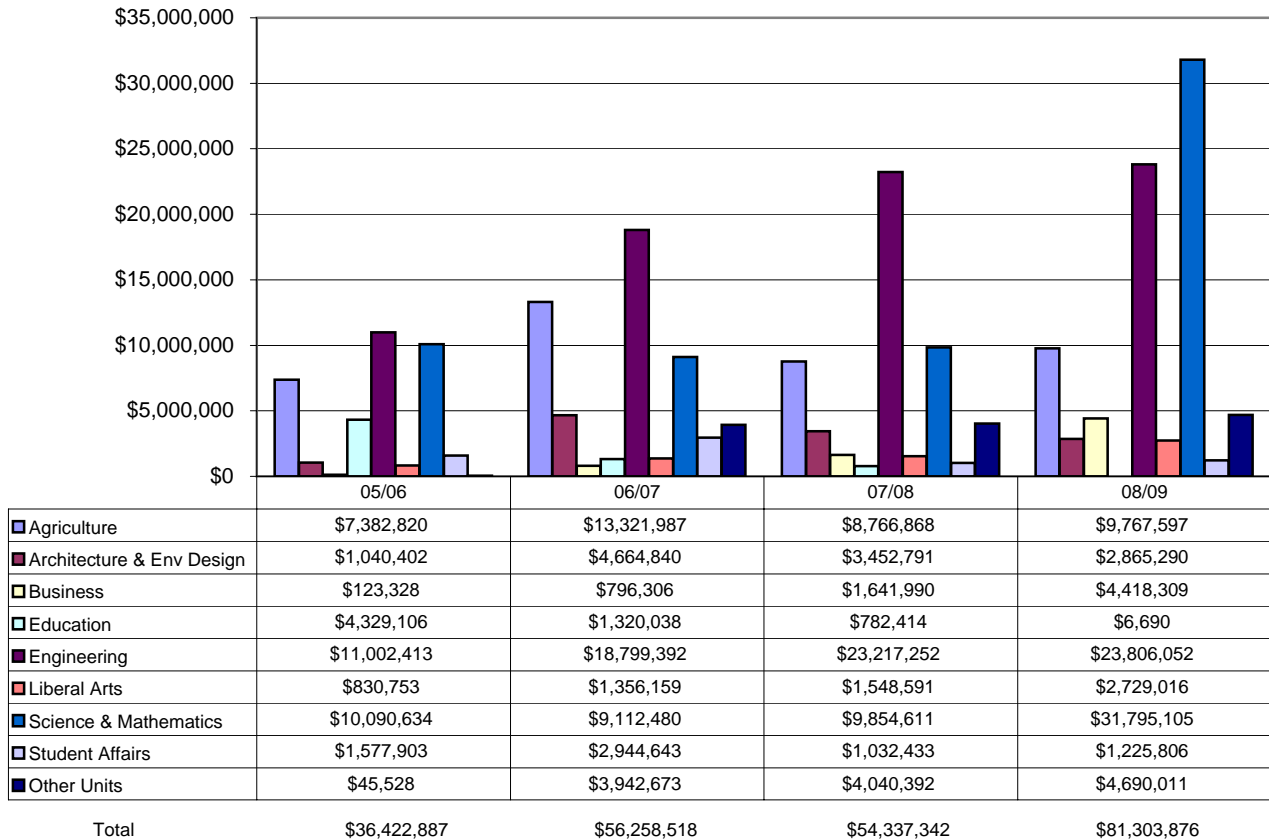
**GRAND TOTAL: \$28,827,275**

## Summary of Proposals Submitted in FY 08/09 by College/Unit

Fiscal Year 08/09	
College	Proposal Value
Agriculture	\$9,767,597
Architecture & Env Design	\$2,865,290
Business	\$4,418,309
Education	\$6,690
Engineering	\$23,806,052
Liberal Arts	\$2,729,016
Science & Mathematics	\$31,795,105
Student Affairs	\$1,225,806
Other Units	\$4,690,011
<b>Total</b>	<b>\$81,303,876</b>



## Proposals Submitted by College/Unit 05/06 to 08/09





# Proposal Submissions by College/Unit Fiscal Years 07/08 and 08/09

## SUBMISSIONS

	7/1/07 - 6/30/08				7/1/08 - 6/30/09				
	# Faculty	% of Total	# Proposals	Proposal \$	# Faculty	% of Total	# Proposals	Proposal \$	Per Capita \$
Agriculture	39	41.94%	76	\$8,766,868	37	41.57%	76	<b>\$9,767,597</b>	\$109,748
Architecture & Env Design	10	18.18%	23	\$3,452,791	15	25.86%	24	\$2,865,290	\$49,402
Business	6	12.50%	6	\$1,641,990	4	7.69%	9	<b>\$4,418,309</b>	\$84,967
Education	4	33.33%	4	\$782,414	2	15.38%	2	\$6,690	\$515
Engineering	51	43.59%	105	\$23,217,252	44	38.26%	99	<b>\$23,806,052</b>	\$207,009
Liberal Arts	10	6.99%	19	\$1,548,591	12	7.74%	24	<b>\$2,729,016</b>	\$17,607
Library	1	12.50%	1	\$80,474	0	0.00%	0	\$0	\$0
Other Units	6		10	\$3,959,918	7		14	<b>\$4,390,011</b>	
Science & Math	35	29.66%	56	\$9,854,611	30	23.62%	53	<b>\$32,095,105</b>	\$252,717
Student Affairs	3		7	\$1,032,433	5		10	<b>\$1,225,806</b>	
<b>Total:</b>	<b>165</b>	<b>27.78%</b>	<b>307</b>	<b>\$54,337,342</b>	<b>156</b>	<b>25.20%</b>	<b>311</b>	<b>\$81,303,876</b>	<b>\$131,347</b>

Key to Table: % of Total = # Faculty as a percentage of all 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. Shaded area represents an increase over previous year.

## PROPOSALS SUBMITTED IN FY 08/09 BY COLLEGE/UNIT AND DEPARTMENT

### Agriculture, Food & Env Sciences

Agribusiness	\$673,624
Animal Science	\$363,079
BioResource and Agricultural Engineering	\$4,259,050
College of Agriculture	\$265,950
Dairy Science	\$1,476,095
Earth & Soil Sciences	\$126,218
Food Science & Nutrition	\$551,397
Horticulture & Crop Science	\$108,499
Natural Resource Management	\$1,938,685
Recreational Administration	\$5,000
Total for Agriculture, Food & Env	\$9,767,597

### Architecture & Env Design

Architectural Engineering	\$382,099
Architecture	\$532,371
City & Regional Planning	\$1,799,876
College of Arch & Env Design	\$41,780
Construction Management	\$95,464
Landscape Architecture	\$13,700
Total for Architecture & Env Design	\$2,865,290

### Business

College of Business	\$5,000
Economics	\$351,856
Industrial Technology	\$4,061,453
Total for Business	\$4,418,309

### Education

Graduate Studies in Education	\$6,690
Total for Education	\$6,690

### Engineering

Aerospace Engineering	\$865,954
Biomedical and General Engineering	\$1,240,537
Civil & Environmental Engineering	\$10,082,496
College of Engineering	\$1,421,509
Computer Science	\$1,460,705
Electrical Engineering	\$3,356,106

### Engineering (Cont.)

Industrial & Manufacturing Engineering	\$105,000
Materials Engineering	\$2,944,997
Mechanical Engineering	\$2,248,748
Minority Engineering Program	\$80,000
Total for Engineering	\$23,806,052

### Liberal Arts

Cal Poly Arts	\$19,500
Communication Studies	\$5,000
Ethnic Studies	\$499,343
Graphic Communications	\$19,250
History	\$24,997
Liberal Studies	\$127,405
Psychology & Child Development	\$1,214,097
Social Sciences	\$819,424
Total for Liberal Arts	\$2,729,016

### Science & Mathematics

Biological Sciences	\$10,040,749
Chemistry and BioChemistry	\$998,437
College of Science & Mathematics	\$3,484,641
Kinesiology	\$10,511,325
Mathematics	\$610,133
Physics	\$6,449,820
Total for Science & Mathematics	\$32,095,105

### Student Affairs

Student Academic Services	\$50,000
Student Life & Leadership	\$1,175,806
Total for Student Affairs	\$1,225,806

### Other

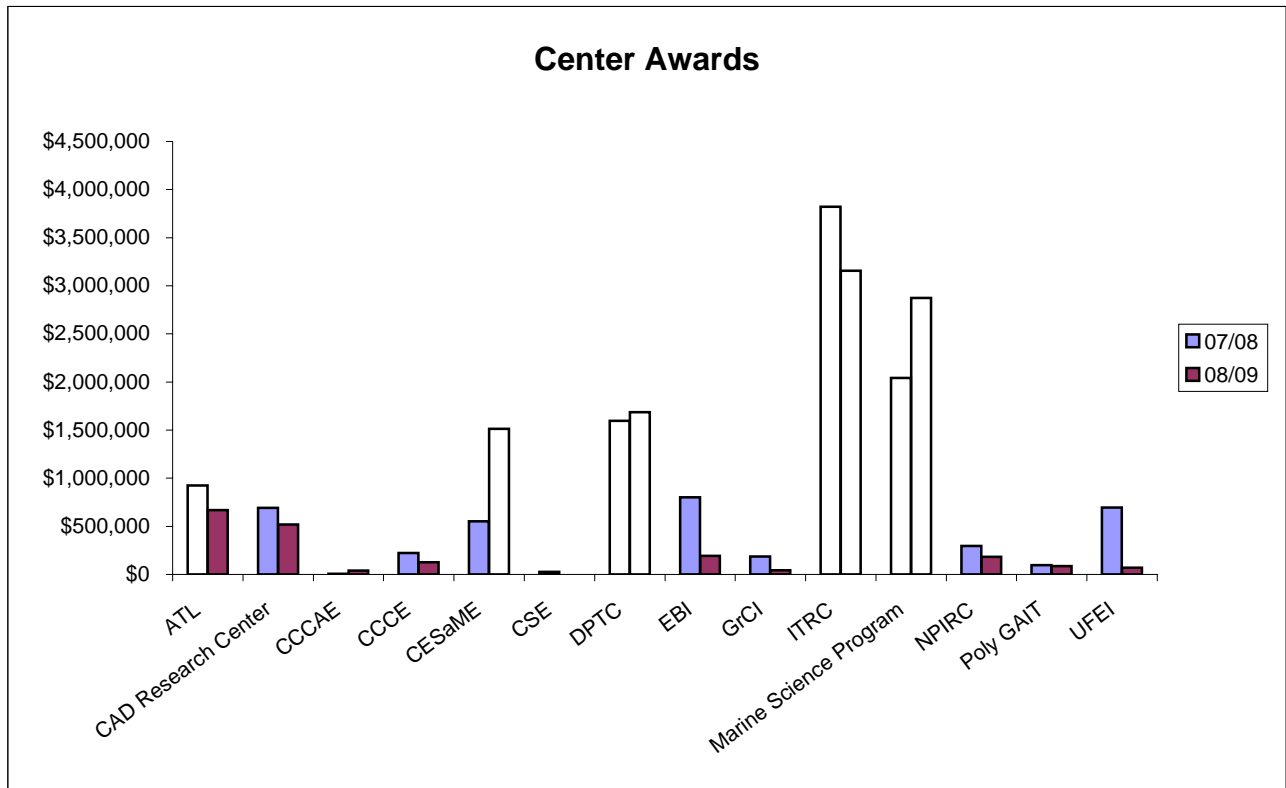
Academic Programs	\$24,500
Center for Teaching & Learning	\$15,000
Honors Program	\$96,000
Performing Arts Center	\$4,000
Research & Graduate Programs	\$4,192,047
University Police Department	\$58,464
Total for Other	\$4,390,011

### Total Dollars Submitted

\$81,303,876

## AWARDS TO CENTERS/INSTITUTES/SPECIAL FACILITIES

CENTER	AWARDS	
	07/08	08/09
Advanced Technology Lab (ATL)	\$923,148	\$666,971
Collaborative Agent Design Research Center (CAD Research Center)	\$692,000	\$519,977
Central Coast Center for Arts Education (CCCAE)	\$5,000	\$40,000
California Center for Construction Education (CCCE)	\$223,634	\$125,145
Center for Excellence in Science and Mathematics Education (CESaME)	\$553,166	\$1,512,422
Center for Sustainability in Engineering (CSE)	\$25,278	\$0
Dairy Products Technology Center (DPTC)	\$1,597,540	\$1,687,781
Environmental Biotechnology Institute (EBI)	\$800,906	\$192,937
Graphic Communication Institute (GrCI)	\$187,052	\$44,002
Irrigation Training and Research Center (ITRC)	\$3,820,174	\$3,156,236
Marine Science Program	\$2,042,354	\$2,875,047
National Pool Industry Research Center (NPIRC)	\$296,564	\$183,977
Center for Global Automatic Identification Technologies (Poly GAIT)	\$95,000	\$85,000
Urban Forest Ecosystems Institute (UFEI)	\$695,300	\$70,745
	\$11,957,116	\$11,160,240



## GRANTS AND CONTRACTS AWARDED IN FISCAL YEAR 08/09

PI	TITLE AGENCY	AMOUNT
<b><u>Agriculture, Food &amp; Env Sciences</u></b>		
<b><u>Agribusiness</u></b>		
Ahern, James	<b>Export markets and California agriculture: Understanding the implications of trade barriers applied to citrus products</b> CSU - Agricultural Research Initiative	\$20,000
Amspacher, William	<b>Pack Family/PMA Career Pathways - Fresh Summit Conference</b> Produce Marketing Association Education Foundation	\$10,875
Hamilton, Lynn	<b>Increasing Renewable Energy Adoption in California Agriculture</b> U.S. Dept of Agriculture - Rural Development	\$34,800
Hamilton, Lynn	<b>Solar and Wind Energy Adoption in California Agriculture</b> CSU - Agricultural Research Initiative	\$26,306
Hurley, Sean	<b>Analysis and Development of Transportation Models for Moving Agricultural Waste Products to Resource Recovery Facilities</b> CSU - Agricultural Research Initiative	\$46,043
Noel, Jay	<b>An Analysis of Migration and Direct Foreign Investment of California and Arizona Fruit and Vegetable Firms into Latin America</b> Western Growers Association	\$34,086
Noel, Jay	<b>A Multistate Comparison of Agricultural Regulatory Rules and Compliance Costs</b> CSU - Agricultural Research Initiative via CSU Fresno	\$32,000
Rickard, Bradley J.	<b>Export markets and California agriculture: Understanding the implications of trade barriers applied to citrus products</b> University of California, Davis - Agricultural Issues Center	\$4,992
<b><u>Animal Science</u></b>		
Delmore, Robert	<b>Effect of Zilpaterol hydrochloride Duration of Dose on Performance, Carcass Traits, Beef Tenderness and Sensory Traits in Finishing Holsteins Steers Calves</b> Intervet, Inc.	\$17,280
Delmore, Robert	<b>Beef Shelf-life Fact Sheet</b> National Cattlemen's Beef Association	\$2,500
Edwards, Mark S	<b>Comparative Adaptations To Herbivory In Equids And Other Species With Hindgut Fermentation</b> CSU - Agricultural Research Initiative	\$58,192
Humphrey, Brooke	<b>Optimal Nutrition for Immunocompetence in Chickens</b> CSU - Agricultural Research Initiative	\$64,478
Humphrey, Brooke	<b>Acquisition of a Microcapillary Flow Cytometer for Animal Health Monitoring</b> U.S. Dept of Agriculture (CSREES) via CSU Agricultural Research Initiative	\$89,870
Humphrey, Brooke	<b>Quantification of mRNA abundance in mucosal scrapings obtained from chicks fed diets varying in phytase</b> Syngenta Biotechnology, Inc.	\$20,000
Plummer, William	<b>How Sexed-Semen Characteristics Affect Fertilization Rate</b> CSU - Agricultural Research Initiative	\$54,257
<b><u>BioResource and Agricultural Engineering</u></b>		
Burt, Charles ITRC (Irrigation Training and Research Center)	<b>Fee-for-Service Agreement, ITRC</b> Various Sponsors	\$1,218,423

## GRANTS AND CONTRACTS AWARDED IN FISCAL YEAR 08/09

PI	TITLE AGENCY	AMOUNT
<b>Burt, Charles</b> ITRC (Irrigation Training and Research Center)	<b>Agricultural Consulting Services at Palmdale WRP Effluent Management Site</b> Sanitation Districts of Los Angeles County	\$56,078
<b>Burt, Charles</b> ITRC (Irrigation Training and Research Center)	<b>GIS-based Water Routing/Scheduling Through Irrigation District Canal Systems</b> CSU - Agricultural Research Initiative	\$50,000
<b>Burt, Charles</b> ITRC (Irrigation Training and Research Center)	<b>CESU Project #1- 2008-13: Liaison Activites for the Klamath Project</b> U.S. Dept of Interior, Bureau of Reclamation, Mid Pacific Region	\$100,000
<b>Burt, Charles</b> ITRC (Irrigation Training and Research Center)	<b>Impacts of Kaolin Clay Spray on Pistachio Leaves to Reduce Evapotranspiration, Insecticide Usage, and Energy Consumption Through Water Pumping</b> CA Dept of Food and Agriculture	\$119,785
<b>Burt, Charles</b> ITRC (Irrigation Training and Research Center)	<b>Irrigation System Evaluation and Expert Witness Services</b> County of Fresno	\$30,000
<b>Gaudi, Franklin</b> ITRC (Irrigation Training and Research Center)	<b>Agricultural Consulting Services at Lancaster Eastern Agricultural Sites (EAS) and Palmdale Effluent Management Site (EMS)</b> Sanitation Districts of Los Angeles County	\$882,000
<b>Kelly, Shaun F</b>	<b>Development of Methods for In-situ Generation and Application of Ozone to Fumigate Soil as an Alternative to Methyl Bromide for Crop Production</b> CSU - Agricultural Research Initiative	\$63,266
<b>Styles, Stuart</b> ITRC (Irrigation Training and Research Center)	<b>AGTAC Energy and Irrigation Workshops</b> Southern California Edison	\$67,950
<b>Styles, Stuart</b> ITRC (Irrigation Training and Research Center)	<b>Technical Assistance Program to Water Districts</b> U.S. Dept of Interior, Bureau of Reclamation, Mid Pacific Region	\$450,000
<b>Styles, Stuart</b> ITRC (Irrigation Training and Research Center)	<b>Evaluation of Modified Drip Irrigation Strategies on Strawberries: Maintenance of Yields While Reducing Irrigation Runoff to Coastal Streams from Sprinklers</b> CA Dept of Food and Agriculture	\$98,000
<b>Styles, Stuart</b> ITRC (Irrigation Training and Research Center)	<b>On-Farm Irrigation System Evaluations for Federal Water Contractors in the San Joaquin Valley</b> U.S. Dept of Interior, Bureau of Reclamation, Mid Pacific Region	\$84,000
<b>Yildiz, Ilhami</b>	<b>Development and Optimization of Microalgae Cultivation in Photobioreactors</b> U.S. Dept of Agriculture (CSREES) via CSU Agricultural Research Initiative	\$90,996
<b><u>Dairy Science</u></b>		
<b>Farkye, Nana</b> DPTC (Dairy Products Technology Center)	<b>Texture improvement of lowfat Cheddar cheese by blending nonfat cheese with full fat cheese, cheese extract/enzyme modified cheese or lubricants using stuffing technologies</b> Dairy Management, Inc. via University of Wisconsin-Madison	\$14,136
<b>Farkye, Nana</b> DPTC (Dairy Products Technology Center)	<b>New Natural Cheeses for the North American Market</b> Kraft Foods, Inc.	\$19,337
<b>Farkye, Nana</b> DPTC (Dairy Products Technology Center)	<b>Improving low fat Cheddar cheese quality - Phase II</b> Kraft Foods, Inc.	\$10,800
<b>Farkye, Nana</b> DPTC (Dairy Products Technology Center)	<b>Low and Reduced Sodium Cheese with Enhanced Flavor</b> Dairy Management, Inc.	\$89,672

## GRANTS AND CONTRACTS AWARDED IN FISCAL YEAR 08/09

PI	TITLE AGENCY	AMOUNT
<b>Farkye, Nana</b> DPTC (Dairy Products Technology Center)	<b>Preventing the development of the undesirable burnt and roesy flavor in low fat cheese</b> Dairy Management, Inc.	\$77,053
<b>Farkye, Nana</b> DPTC (Dairy Products Technology Center)	<b>CheesePlus: Omega-3 fortification of cheese</b> CA Dairy Research Foundation	\$71,442
<b>Farkye, Nana</b> DPTC (Dairy Products Technology Center)	<b>Improving texture and lubricity of low fat Cheddar cheese with selected surfactants and gums</b> Dairy Management, Inc.	\$73,381
<b>Golden, Bruce</b>	<b>High capacity SNP arrays for detecting genetic effects on dairy production trait</b> CSU - Agricultural Research Initiative (Systemwide)	\$150,000
<b>Golden, Bruce</b>	<b>Nitrogen removal from dairy wastewater using a novel reciprocating biofilm reactor</b> CSU - Agricultural Research Initiative	\$33,515
<b>Hayes, Kirby</b> DPTC (Dairy Products Technology Center)	<b>Effect of raw milk quality on functionality of reconstituted milk powders</b> Dairy Management, Inc.	\$26,442
<b>Jimenez-Flores, Rafael</b> DPTC (Dairy Products Technology Center)	<b>Characterization of functional properties and lipid profiles of cheese treated by supercritical CO2</b> CSU - Agricultural Research Initiative	\$56,993
<b>Jimenez-Flores, Rafael</b> DPTC (Dairy Products Technology Center)	<b>Proteomic approach to study milk fat globule membrane proteins as biologically active compounds</b> CSU - Agricultural Research Initiative (Systemwide)	\$148,418
<b>Jimenez-Flores, Rafael</b> DPTC (Dairy Products Technology Center)	<b>Survey, detection and identification of bacteria causing ropy milk defect in raw and pasteurized milk</b> Dairy Management, Inc.	\$39,600
<b>Jimenez-Flores, Rafael</b> DPTC (Dairy Products Technology Center)	<b>Extending Shelf Life: Inactivation of Gram Positive Bacterial Spores in Fluid Milk Using UV Light Illumination</b> CA Dairy Research Foundation via University of California, Davis	\$28,000
<b>Jimenez-Flores, Rafael</b> DPTC (Dairy Products Technology Center)	<b>Spore reduction in milk powder using UV illumination technology</b> CA Dairy Research Foundation	\$152,117
<b>Tong, Phillip</b> DPTC (Dairy Products Technology Center)	<b>Improving Whey Protein Off-Flavor Prevention Via Alternate Process Step Optimization</b> Dairy Management, Inc.	\$22,550
<b>Tong, Phillip</b> DPTC (Dairy Products Technology Center)	<b>Dairy Products Technology Industry Outreach Program - 2008</b> CA Dairy Research Foundation	\$108,540
<b>Tong, Phillip</b> DPTC (Dairy Products Technology Center)	<b>Milk Protein Concentrate Functionality Improvement Program</b> Dairy Management, Inc.	\$99,000
<b>Tong, Phillip</b> DPTC (Dairy Products Technology Center)	<b>Evaluation of Properties of Vacuum Packaged Dry Dairy Powders</b> Dairy Management, Inc.	\$27,500
<b>Tong, Phillip</b> DPTC (Dairy Products Technology Center)	<b>Cal Poly Dairy Ingredients Applications Program 2009</b> Dairy Management, Inc.	\$396,000
<b>Tong, Phillip</b>	<b>DPTC Operations 2009 - Maintaining and Growing a Sustainable California Dairy</b>	\$226,800

## GRANTS AND CONTRACTS AWARDED IN FISCAL YEAR 08/09

PI	TITLE AGENCY	AMOUNT
DPTC (Dairy Products Technology Center)	<b>Industry in Domestic and Global Markets</b> CA Dairy Research Foundation	
<b><u>Earth &amp; Soil Sciences</u></b>		
<b>Appel, Christopher S.</b>	<b>Soil Chemistry of Central Coast Serpentinic Vineyard Soils</b> Shimadzu Scientific Instruments	\$29,783
<b>Hallock, Brent G</b>	<b>Caltrans Roadside Erosion Control and Management Study (RECM)</b> CA Dept of Transportation (Caltrans) via CSU Sacramento University Enterprises	\$1,266,001
<b><u>Food Science &amp; Nutrition</u></b>		
<b>Berner, Louise</b>	<b>Characterization of Protein Intakes Among Older Adults in the US: Quantity, Meal Patterns, Food Sources, Predictors of Adequacy, and Relationship to Anthropometric &amp; Physical Functioning Measures</b> CSU - Agricultural Research Initiative	\$24,577
<b>Hampson, Brian</b>	<b>Protocol development for use of aqueous ozone in external surface sanitation and clean-in-place systems</b> CSU - Agricultural Research Initiative	\$18,180
<b>Khalil, Hany</b>	<b>Development of Nutritionally Dense, Low Weight Ready to Eat (RTE) Meal to Enhance Endurance and Physical Performance</b> CSU - Agricultural Research Initiative	\$50,000
<b>Khalil, Hany</b>	<b>Defining Milk Quality for Today's Dairy Industry - Microbial and Ecology Approach</b> CSU - Agricultural Research Initiative	\$58,836
<b>Papathakis, Peggy</b>	<b>Effectiveness of Food Fortification in South African Breastfeeding Women</b> Global Alliance for Improved Nutrition	\$11,065
<b>Papathakis, Peggy</b>	<b>Effectiveness of food fortification in South African breastfeeding women</b> CSU - Agricultural Research Initiative	\$14,753
<b>Reaves, Scott</b>	<b>Mechanisms of Skeletal Muscle Loss in Aging and its Prevention by Nutrient Intervention</b> CSU - Agricultural Research Initiative	\$20,000
<b>Ritchie, Gerry</b>	<b>Development and Preparation of Funding Applications to Build the Enology Concentration of the Wine and Viticulture Major at Cal Poly</b> CSU - Agricultural Research Initiative	\$5,000
<b>Watabe-Belzel, Madoka</b>	<b>Management and leadership skills in the undergraduate dietetics curriculum: Are key competencies taught effectively?</b> CSU - Agricultural Research Initiative	\$6,363
<b><u>Horticulture &amp; Crop Science</u></b>		
<b>Costello, Michael J</b>	<b>Grapevine nutrition and spider mite response</b> Applied Insect Ecologists Foundation	\$3,000
<b>Douglas, Cynthia</b>	<b>Cal Poly Organic Farm 'School Garden Apprentice' Program</b> CA Association of Nurseries and Garden Centers	\$6,300
<b>Garner, Lauren</b>	<b>The Effects of Foliar Nutrient Applications on the Incidence of Rind Creasing and Puffing of Sweet Oranges (Citrus sinensis)</b> CSU - Agricultural Research Initiative	\$20,000
<b>Headrick, David</b>	<b>Field Management Plan and Biocontrol Rearing System for Citrus Peelminer</b> CSU - Agricultural Research Initiative	\$28,566
<b>Headrick, David</b>	<b>Citrus Leafminer Management Program for Nursery Citrus</b> CA Citrus Nursery Board	\$5,150

## GRANTS AND CONTRACTS AWARDED IN FISCAL YEAR 08/09

PI	TITLE AGENCY	AMOUNT
Headrick, David	<b>Biological Control for Citrus Leafminer in coastal California</b> CSU - Agricultural Research Initiative	\$16,500
Headrick, David	<b>Sustainable Management Programs for Citrus Leafminer in Citrus Nurseries</b> U.S. Environmental Protection Agency	\$99,000
Vassey, Terry L.	<b>2008 National Fineleaf Fescue Test</b> National Turfgrass Evaluation Program	\$15,500
<b><u>Natural Resource Management</u></b>		
Dicus, Christopher A.	<b>Tradeoffs in Community Benefits Versus Fire Risk in Wildland/Urban Interface Forests</b> CSU - Agricultural Research Initiative	\$38,477
Dietterick, Brian	<b>Little Creek Watershed Study: Cooperative Instream Monitoring Project</b> CA Dept of Forestry	\$60,000
Dietterick, Brian	<b>Accuracy of Derived Watershed and Channel Features in Forested Mountain Conditions Using LIDAR Terrain Data</b> CSU - Agricultural Research Initiative	\$31,785
Dietterick, Brian	<b>McIntire-Stennis - Calibration Analysis and Post-treatment Phasing of a Paired and Nested Watershed Study to Evaluate Event-Based Suspended Sediment Export</b> U.S. Dept of Agriculture (CSREES)	\$24,765
Mark, Walter	<b>Southern Area Sudden Oak Death Monitoring Plan</b> U.S. Dept of Agriculture (Forest Service)	\$10,000
Mark, Walter	<b>Monterey pine propagation for California native stand conservation and for the nursery industry</b> UFEI (Urban Forest Ecosystem Institute) CSU - Agricultural Research Initiative	\$70,745
Piirto, Douglas	<b>Response to Management Strategies in Young-Growth Giant Sequoia Stands at Mountain Home State Forest-Remeasurement 20 Yrs. After Treatment</b> CA Dept of Forestry	\$56,000
Piirto, Douglas	<b>McIntire-Stennis Cooperative Forestry Research Act Program (2008-2009)</b> U.S. Dept of Agriculture (CSREES)	\$121,874
Piirto, Douglas	<b>McIntire-Stennis Forestry Research Program (2008-2009)</b> U.S. Dept of Agriculture (CSREES)	\$49,014
<b><u>Recreational Administration</u></b>		
Goldenberg, Marni	<b>McIntire-Stennis - Longitudinal Research of Wilderness Participation in Forested Areas Using Means-End Analysis</b> U.S. Dept of Agriculture (CSREES)	\$17,500
Goldenberg, Marni	<b>Longitudinal Research of Participation in a Wilderness Educational Experience Using Means-End Analysis</b> CSU - Agricultural Research Initiative	\$20,000
Goldenberg, Marni	<b>McIntire-Stennis - Examining Use of Forest Land: A Pacific Crest Trail Example</b> U.S. Dept of Agriculture (CSREES)	\$35,000
Greenwood, Jerusha	<b>McIntire-Stennis - A Statewide Opinions and Attitudes Survey on Outdoor Recreation in California</b> U.S. Dept of Agriculture (CSREES)	\$15,595
Greenwood, Brian	<b>Positive Youth Development (PYD) Through Youth Sports Research</b> CSU - Agricultural Research Initiative	\$5,000
Hendricks, William	<b>Mt. San Jacinto State Park Visitor Use Impact Study</b> CSU - Agricultural Research Initiative	\$637



## GRANTS AND CONTRACTS AWARDED IN FISCAL YEAR 08/09

PI	TITLE AGENCY	AMOUNT
Hendricks, William	California Opinions and Attitudes Survey on Outdoor Recreation CSU - Agricultural Research Initiative	\$20,519
<b><u>Architecture &amp; Env Design</u></b>		
<b><u>Architectural Engineering</u></b>		
Dong, Kevin	Design Review of a Proposed Mixed-use Building in San Luis Obispo, CA Lampman and Smith	\$2,500
Dong, Kevin	Experimental Testing of Library Shelving Products Ross McDonald Company, Inc.	\$5,800
Lynn, Abraham	NEESR-SG: Performance-Based Assessment and Design of Squat Reinforced Concrete Shear Walls National Science Foundation via University at Buffalo-SUNY	\$56,000
<b><u>Architecture</u></b>		
Phillips, Stephen	New LA Schools: A Site of Massive Change Graham Foundation	\$2,500
Pohl, Jens CAD Research Center	ICODES Development and Software Maintenance Support – Stage 17 CDM Technologies, Inc.	\$279,978
Pohl, Jens CAD Research Center	ICODES Development and Software Maintenance Support – Stage 18 CDM Technologies, Inc.	\$239,999
<b><u>City &amp; Regional Planning</u></b>		
Main, Kelly	CRP 410/411 City of Delano Strategic Plan City of Delano	\$23,852
Nuworsoo, Cornelius	Providing Senior Citizen Mobility at Minimum Public Cost CSU San Bernardino, Leonard Transportation Center	\$64,315
Nuworsoo, Cornelius	Preliminaries to a Feasibility Analysis of Southern California Association of Government's Maglev Proposal for the Region CSU San Bernardino, Leonard Transportation Center	\$4,999
Nuworsoo, Cornelius	City of Guadalupe Community Plan City of Guadalupe	\$5,000
Toker, Umut	City of Delano Strategic Plan Preliminary Study City of Delano	\$19,021
Toker, Umut	Draft Salinas Chinatown Urban Design Proposal Salinas Redevelopment Agency	\$13,670
Topping, Kenneth C.	2010 State Multi-Hazard Mitigation Plan Revision CA Office of Emergency Services	\$1,556,400
<b><u>Construction Management</u></b>		
Jackson, Barbara CCCE (California Center for Construction Education)	California Center for Construction Education Fee-for-Service Agreement Various Sponsors	\$125,145
<b><u>Landscape Architecture</u></b>		
Hill, Margarita	Fall 2008 Landscape Architecture Studio California Space Authority	\$6,803

## GRANTS AND CONTRACTS AWARDED IN FISCAL YEAR 08/09

PI	TITLE AGENCY	AMOUNT
<b>Business</b>		
<b><u>College of Business</u></b>		
Carr, Chris	<b>Chinese Economic Growth and its Implications for the Goods Movement Industry and California and the Inland Empire</b> CSU San Bernardino, Leonard Transportation Center	\$5,000
<b><u>Finance</u></b>		
Ramezani, Cyrus	<b>Financing Claims Paying Capacity for Earthquake: Alternatives to Reinsurance</b> CA Dept of Insurance	\$600
<b><u>Industrial Technology</u></b>		
Olsen, Eric	<b>Reverse Vending Machines: An Action Experiment</b> CA Dept of Conservation	\$365,141
Singh, Jagjit	<b>Fee-for-Service Agreement, Cal Pack Lab</b> Various Sponsors	\$4,100
Tornatzky, Louis	<b>IT Consortium FY 2008-2009</b> IT Consortium	\$180,000
<b>Education</b>		
<b><u>Graduate Studies in Education</u></b>		
Kane, Steven	<b>Making the grade: How college woman excel in science, technology, engineering and math majors</b> American College Personnel Association Foundation	\$1,000
Rosenberg, Lou	<b>2008-09 Senior Project Exhibits for San Luis Obispo Children's Museum</b> San Luis Obispo Children's Museum	\$13,940
<b>Engineering</b>		
<b><u>Aerospace Engineering</u></b>		
Abercromby, Kira	<b>Physical Properties of Orbiting Objects</b> NASA via Jacobs Technology	\$57,156
Marshall, David D	<b>The Integrated Modeling and Verification of Hybrid Wing-Body, Low Noise ESTOL Aircraft</b> NASA - Langley Research Center	\$2,839,040
McDonald, Robert	<b>A multidisciplinary geometry based framework connecting design, optimization, aerodynamics, and structures.</b> NASA - Ames Research Center	\$326,988
Puig-Suari, Jordi ATL (Advanced Technology Lab)	<b>P-POD Manufacturing and Delivery to ATSB Project</b> Astronautic Technology SDN BHD (ATSB)	\$3,500
Puig-Suari, Jordi ATL (Advanced Technology Lab)	<b>Procurement of P-PODS for the European Space Agency</b> European Space Agency	\$119,242

## GRANTS AND CONTRACTS AWARDED IN FISCAL YEAR 08/09

PI	TITLE AGENCY	AMOUNT
<b>Puig-Suari, Jordi</b> ATL (Advanced Technology Lab)	<b>Microsatellite Deployer Systems Engineering Design and Development Support</b> NASA - Ames Research Center	\$180,000
<b>Puig-Suari, Jordi</b> ATL (Advanced Technology Lab)	<b>P-POD Refurbishment and Flight Certification Testing</b> National Science Foundation via NASA / Goddard Space Flight Center, Wallops Island	\$10,000
<b>Puig-Suari, Jordi</b> ATL (Advanced Technology Lab)	<b>Prototype P-POD Manufacturing and Assembly</b> SRI International	\$5,000
<b>Puig-Suari, Jordi</b>  ATL (Advanced Technology Lab)	<b>Space Environment Thermal Vacuum Testing &amp; Qualification of a Momentum Powered Timepiece</b> Epson Research and Development, Inc.	\$14,834
<b>Puig-Suari, Jordi</b> ATL (Advanced Technology Lab)	<b>P-POD Manufacturing and Testing</b> National Science Foundation via NASA / Goddard Space Flight Center, Wallops Island	\$40,000
<b>Puig-Suari, Jordi</b> ATL (Advanced Technology Lab)	<b>Pumpkin CubeSat Environmental Testing</b> Pumpkin, Inc	\$37,500
<b><u>Biomedical and General Engineering</u></b>		
<b>Clague, David</b> ATL (Advanced Technology Lab)	<b>Bio-Markers in Sweat</b> Defense Advanced Research Projects Agency (DARPA)	\$99,992
<b>Clague, David</b>	<b>Disease Biomarker Detection: A BioMEMS Approach</b> Epson Research and Development, Inc.	\$65,000
<b>Hazelwood, Scott</b>	<b>Long Term Effects of Bisphosphonate Therapy on Bone</b> National Institutes of Health	\$211,797
<b><u>Civil &amp; Environmental Engineering</u></b>		
<b>Fiegel, Gregg</b>	<b>NEESR-SG: Seismic Performance Assessment in Dense Urban Environments</b> National Science Foundation via Consortium of Universities for Research in Earthquake Engineering	\$90,159
<b>Goel, Rakesh</b>	<b>Development of LNGTEMS/MOTEMS Performance-Based Seismic Criteria</b> California States Lands Commission (CSLC)	\$32,417
<b>Hanson, James</b>	<b>Collaborative Research: Innovative Learning Styles and Universal Access for Geotechnical Engineering Education</b> National Science Foundation (CCLI)	\$238,643
<b>Hanson, James</b>	<b>Study on Other States Regulatory Oversight of Waste Handling Activities Relative to Recycling Centers, Transfer Stations, and Green Material Contamination</b> CA Integrated Waste Management Board	\$150,000
<b>Hanson, James</b>	<b>Landfill Gas Surface Emissions Monitoring Literature Review and Summary for the Vancouver Landfill</b> City of Vancouver, BC	\$23,250
<b>Hanson, James</b>	<b>Quagga Mussel Invasive Response Plan</b> San Luis Obispo County	\$25,000
<b>Hanson, James</b>	<b>Assessment of Technologies and Management Practices for Postclosure Maintenance Costs at Landfills</b> CA Integrated Waste Management Board	\$150,000

## GRANTS AND CONTRACTS AWARDED IN FISCAL YEAR 08/09

PI	TITLE AGENCY	AMOUNT
Kachlakev, Damian I.  NPIRC (National Pool Industry Research Center)	<b>Durability Studies of Modified Plastering Mixes, Surface Deteriorations of Plastered Swimming Pools-Phase Six</b> National Plasterers Council Inc.	\$148,040
Kachlakev, Damian I.  NPIRC (National Pool Industry Research Center)	<b>Manager/ Technician for Cal Poly Center Conducting Durability Studies of Modified Plastering Mixes, Surface Deteriorations of Plastered Swimming Pools</b> National Plasterers Council Inc.	\$35,937
Lundquist, Trygve	<b>Biogas Generation from Algae Biomass Harvested at Wastewater Treatment Facilities</b> CA Energy Commission - Energy Innovations Small Grant Program	\$86,000
Lundquist, Trygve ATL (Advanced Technology Lab)	<b>A Realistic Technology and Engineering Assessment of Algae Biofuel Production</b> BP Technology Ventures via EBI via Regents of the University of CA	\$83,647
Lundquist, Trygve	<b>The Polytech Waterbag, Emergency Drinking Water Treatment</b> William J. Clinton Foundation	\$14,500
Mitra, Sudeshna	<b>Development of a Real Time Crash Risk Model Based on Microscopic Traffic Data</b> CSU San Bernardino, Leonard Transportation Center	\$5,000
Moss, Robb	<b>NEESR-II: Evaluation of Seismic Levee Deformation Potential by Destructive Cyclic Field Testing</b> National Science Foundation via University of California, Los Angeles	\$55,447
Moss, Robb ATL (Advanced Technology Lab)	<b>Risk of Levee Failures in the Western U.S.</b> U.S. Dept of Homeland Security via University of North Carolina	\$68,562
Nelson, Yarrow M.  EBI (Environmental Biotechnology Institute)	<b>Chevron Master Agreement Task #7: Hydrocarbon Biodegradation Kinetics with Anaerobic Electron Acceptors in Laboratory Microcosms (Year 3)</b> Chevron Environmental Management Company	\$1,422
Rahim, Ashraf M.	<b>An Evaluation of the Crack, Seat, and Overlay Method in California</b> CA Dept of Transportation (Caltrans)	\$111,997
<b><u>College of Engineering</u></b>		
Cantu, David	<b>MESA Schools Program 2008-2009</b> University of California	\$21,250
Sheikh, Zahed	<b>Thermal Management of Avionic Systems</b> Boeing Company, The	\$25,000
<b><u>Computer Science</u></b>		
Clements, John	<b>Redesigning Introductory Computing: The Design Discipline.</b> National Science Foundation via Adelphi University	\$22,050
Franklin, Diana	<b>CAREER: Horseshoes and Hand Grenades: Exploiting Error Tolerance in Applications</b> National Science Foundation (CAREER)	\$60,000
<b><u>Electrical Engineering</u></b>		
Arakaki, Dean	<b>Fee-for-Service Agreement, Cal Poly Antenna Anechoic Chamber Laboratory</b> Various Sponsors	\$247
Derickson, Dennis	<b>High-speed wavelength-swept single chip tunable lasers and their applications to high speed optical test and measurement solutions</b> Global Test	\$18,000

## GRANTS AND CONTRACTS AWARDED IN FISCAL YEAR 08/09

PI	TITLE AGENCY	AMOUNT
<b>Gerfen, Jeffrey</b> ATL (Advanced Technology Lab)	<b>Mobile TMC Support</b> CA Dept of Transportation (Caltrans) via University of California, Irvine	\$4,694
<b>MacCarley, C. Arthur</b>	<b>Enhancement and Operation of V2DVS Automated Data Collection and Analysis System in the Caltrans 405 Detector Testbed</b> CA Dept of Transportation (Caltrans), Division of Research and Innovation	\$150,000
<b>Saghri, John A.</b>	<b>Synthetic Aperture Radar Automatic Target Recognition (SAR ATR) for Ground Targets</b> Raytheon Company	\$20,000
<b>Saghri, John A.</b>	<b>Synthetic Aperture Radar Automatic Target Recognition (SAR ATR) for Ground Targets</b> Raytheon Company	\$20,000
<b><u>Industrial &amp; Manufacturing Engineering</u></b>		
<b>Freed, Tali</b> Poly GAIT (Center for Global Automatic Identification Technologies)	<b>PG&amp;E Diablo Canyon Warehouse RFID Project</b> Pacific Gas & Electric Company	\$10,000
<b>Freed, Tali</b> Poly GAIT (Center for Global Automatic Identification Technologies)	<b>PG&amp;E Diablo Canyon Warehouse RFID Project</b> Pacific Gas & Electric Company	\$75,000
<b>Macedo, Jose</b>	<b>Proof of Concept, Clips for Football Helmet</b> Krypton Sports	\$10,000
<b><u>Mechanical Engineering</u></b>		
<b>Chen, John</b>	<b>MRI: Development of a Sonic IR Research Instrument for Nondestructive Testing</b> National Science Foundation (MRI)	\$47,060
<b>Chen, John</b>	<b>Collaborative Research: Role of Faculty in Supporting Lifelong Learning: An Investigation of Self Directed Learning Environments in Engineering Undergraduate Classrooms</b> National Science Foundation (EEC)	\$78,145
<b>Klisch, Stephen M.</b>	<b>A Continuum Model of Cartilage Growth Biomechanics</b> National Institutes of Health	\$33,824
<b>Westphal, Russell</b>	<b>Boundary Layer Data System for the Aerodynamic Efficiency Improvement Program, Phase 2 Tasks 3C and 3D</b> Northrop Grumman	\$54,134
<b>Westphal, Russell</b>	<b>Cal Poly Laminar Flow Technology Development</b> Northrop Grumman	\$20,024
<b>Westphal, Russell</b>	<b>Cal Poly Laminar Flow Technology Development -2009</b> Northrop Grumman	\$20,254
<b><u>Liberal Arts</u></b>		
<b><u>Cal Poly Arts</u></b>		
<b>Wilt, Peter</b>	<b>Support for Under-Served Schools and Cal Poly Master Classes</b> Central Coast Wine Classic	\$8,000
<b>Wilt, Peter</b>	<b>AMD-Martha Graham Dance</b> National Endowment for the Arts via New England Foundation for the Arts	\$2,000

## GRANTS AND CONTRACTS AWARDED IN FISCAL YEAR 08/09

PI	TITLE AGENCY	AMOUNT
<b><u>Graphic Communication</u></b>		
<b>Levenson, Harvey</b> GrCI (Graphic Communication Institute)	<b>Fee-for-Service Agreement, GrCI</b> Various Sponsors	\$26,752
<b>Levenson, Harvey</b> GrCI (Graphic Communication Institute)	<b>Monsanto Soy Ink Evaluation</b> Monsanto Company	\$9,000
<b>Levenson, Harvey</b> GrCI (Graphic Communication Institute)	<b>Heidelberg Lean Training Seminar</b> Heidelberg Druckmaschinen AG, Print Media Academy	\$8,250
<b><u>Liberal Studies</u></b>		
<b>Duffy, Susan</b> CCCAE (Central Coast Center for Arts Education)	<b>Cal Poly/Peoples' Self-Help Housing K-8 Mentored Learning in the Arts Initiative, Year 3</b> The Orfalea Fund	\$30,000
<b>Duffy, Susan</b> CCCAE (Central Coast Center for Arts Education)	<b>Mentored Learning in the Arts with PSHhc - Canyon Creek site</b> Orfalea Foundation via People's Self Help Housing	\$10,000
<b><u>Psychology &amp; Child Development</u></b>		
<b>Caldwell, Roslyn</b>	<b>Prevention and Intervention Services Proposal: The Bakari Project©: A mentoring, treatment intervention, and prevention program for juvenile male probationers</b> San Luis Obispo County Probation Department	\$63,020
<b>Engle, Patrice</b>	<b>Design GAIN's Infant and Young Child Nutrition Program</b> Global Alliance for Improved Nutrition	\$22,705
<b>Engle, Patrice</b>	<b>Strengthening Early Childhood Development in the South East Asia Region</b> World Health Organization	\$14,230
<b>Engle, Patrice</b>	<b>Development of ECD Policy Framework and Evaluation of Care for Development</b> UNICEF Tajikstan	\$55,356
<b>Engle, Patrice</b>	<b>Development of ECD Policy Framework and Evaluation of Care for Development</b> UNICEF Regional Office	\$44,630
<b><u>Social Sciences</u></b>		
<b>Jones, Terry</b>	<b>Los Osos Sewer Collection Maintenance</b> Far Western Anthropological Research Group	\$1,453
<b><u>Science &amp; Mathematics</u></b>		
<b><u>Biological Sciences</u></b>		
<b>Cano, Raul</b> EBI (Environmental Biotechnology Institute)	<b>Fee-for-Service Agreement, EBI</b> Various Sponsors	\$12,320
<b>Elrod, Susan</b> CESaME (Center for Excellence in Science and Mathematics Education)	<b>The California STEM Innovation (CSI) Network:Development and Design</b> Bill & Melinda Gates Foundation and Bechtel Foundation	\$300,000

## GRANTS AND CONTRACTS AWARDED IN FISCAL YEAR 08/09

PI	TITLE AGENCY	AMOUNT
<b>Elrod, Susan</b> CESaME (Center for Excellence in Science and Mathematics Education)	<b>The California STEM Innovation (CSI) Network:Development and Design</b> S. D. Bechtel, Jr. Foundation	\$300,000
<b>Fidopiastis, Pat</b> EBI (Environmental Biotechnology Institute)	<b>Collaborative Research: Use of genome-enabled tools to understand symbiosis</b> National Science Foundation	\$110,149
<b>Hillers, Kenneth</b>	<b>Regulation of Meiotic Crossing Over in Saccharomyces Cerevisiae</b> National Institutes of Health - AREA	\$210,000
<b>Himelblau, Edward</b>	<b>Functional Genomics of Plant Polyploids</b> National Science Foundation via University of California, Davis	\$73,615
<b>Moline, Mark</b> Marine Science (Marine Science Program)	<b>Bioluminescence Potential in the Transition Zone to Very Shallow Water</b> U.S. Dept of the Navy, Office of Naval Research	\$32,091
<b>Moline, Mark</b> Marine Science (Marine Science Program)	<b>Rapid Environmental Assessment Using an Integrated Coastal Ocean Observation and Modeling System</b> U.S. Dept of the Navy, Office of Naval Research via Rutgers University	\$116,933
<b>Moline, Mark</b> Marine Science (Marine Science Program)	<b>CeNCOOS: Long-Term Monitoring of Environmental Conditions in Support of Protected Marine Area Management in Central and Northern California</b> NOAA via Monterey Bay Aquarium Research Institute	\$93,320
<b>Moline, Mark</b> Marine Science (Marine Science Program)	<b>Southern California Coastal Ocean Observing System (SCCOOS): Shelf to Shoreline Observation Development</b> NOAA via Scripps Institution of Oceanography	\$12,846
<b>Moline, Mark</b> Marine Science (Marine Science Program)	<b>Dynamic Modeling of Marine Bioluminescence and Night Time Leaving Radiance</b> U.S. Dept of the Navy, Office of Naval Research	\$37,051
<b>Moline, Mark</b> Marine Science (Marine Science Program)	<b>Autonomous Underwater Vehicle Support for Ocean Modeling in Prince William Sound</b> Oil Spill Recovery Institute	\$57,085
<b>Taylor, Emily</b>	<b>NIH-NIGMS Bridges to the Baccalaureate Program</b> National Institutes of Health via Allan Hancock College	\$101,383
<b>Tomanek, Lars</b> Marine Science (Marine Science Program)	<b>Collaborative Research: Evolutionary and Ecological Physiology of Blue Mussels (genus Mytilus): Gene and Protein Expression and Molecular Evolution in Differently-adapted Congeners</b> National Science Foundation	\$138,595
<b>Villablanca, Francis</b> EBI (Environmental Biotechnology Institute)	<b>Chevron Master Agreement Task 10: Cirsium Ioncholepis Metapopulation</b> Chevron Environmental Management Company	\$69,046
<b>Wendt, Dean</b> Marine Science (Marine Science Program)	<b>A Collaborative Protocol for Monitoring Marine Protected Areas with Commercial Fisherman</b> Resources Legacy Fund Foundation	\$302,423
<b>Wendt, Dean</b> Marine Science (Marine Science Program)	<b>Achieving Management and Conservation Goals through the Application of Ecosystems-based Management on the Central Coast of California</b> David and Lucile Packard Foundation	\$1,500,000
<b>Wendt, Dean</b> Marine Science (Marine Science Program)	<b>Biological Assessment of the Efficacy of Non-toxic, Fouling Release Coatings and Investigations of the Mechanisms Controlling Elastomeric Coating Performance</b> U.S. Dept of the Navy, Office of Naval Research	\$144,703

## GRANTS AND CONTRACTS AWARDED IN FISCAL YEAR 08/09

PI	TITLE AGENCY	AMOUNT
Wendt, Dean Marine Science (Marine Science Program)	<b>Field Testing of Emergent Marine Coatings for the Center for Nanoscale Science and Engineering at North Dakota State University</b> North Dakota State University	\$40,000
Wendt, Dean Marine Science (Marine Science Program)	<b>Achieving Management and Conservation Goals through the Application of Ecosystems-based Management on the Central Coast of California</b> Resources Legacy Fund Foundation	\$400,000
<b><u>Chemistry and Biochemistry</u></b>		
Bush, Seth	<b>Bio Sand Filtration and Curriculum for Public Schools</b> Metropolitan Water District of Southern California	\$10,000
Costanzo, Philip	<b>Development of Thermally Responsive Binders Designed for Insensitive Munitions Applications</b> Army Research Laboratory	\$104,990
Fantin, Dennis	<b>Access Chemistry: An Adaptive Laboratory Chemistry Workshop for Students with Vision Impairments (Year 3)</b> True North Foundation	\$10,000
Fernando, Raymond	<b>Understanding Mechanisms of Coating Scratch Resistance Improvements by Inorganic Nanoparticles</b> BYK-Chemie USA, Inc.	\$49,987
Jones, Dane	<b>Noveon Surfactant Research</b> Lubrizol Advanced Materials (formerly Noveon)	\$1,500
Jones, Dane	<b>Development of Novel Polymer Precursors</b> Chemlogics Group	\$5,000
Lehr, Corinne	<b>Collaborative Research: The Genetics Underlying Prokaryote-Antimony Interactions, with Emphasis on Antimony Oxidation</b> National Science Foundation	\$97,790
Neff, Grace Ann	<b>Central Coast Science Project 2008-2011</b> University of California, Office of the President - California Science Project	\$48,000
<b><u>Kinesiology</u></b>		
McDermott, Ann	<b>Community Advocacy to Prevent Childhood Obesity in San Luis Obispo</b> California Endowment via San Luis Obispo County - Public Health Services	\$18,500
Phelan, Suzanne	<b>Proposal for Study to Promote Healthy Weight Gain During Pregnancy</b> National Institutes of Health via Lifespan at Miriam Hospital	\$39,188
<b><u>Mathematics</u></b>		
Agronsky, Steven	<b>Mathematics Diagnostic Testing Project (MDTP) 2003-2004</b> University of California	\$19,705
Camp, Charles	<b>Modeling the Influences of the QBO, the Solar Cycle and ENSO on the Strength of the Stratospheric Polar Night Vortex</b> National Science Foundation (ROA) via University of Washington	\$65,298
Grundmeier, Todd	<b>Robert Noyce Scholarship Program</b> National Science Foundation	\$52,670
Riley, Kate	<b>Central Coast Mathematics and Science Project</b> CA Dept of Education via Santa Maria-Bonita School District	\$285,338



## GRANTS AND CONTRACTS AWARDED IN FISCAL YEAR 08/09

PI	TITLE AGENCY	AMOUNT
<b><u>Physics</u></b>		
Gillen, Glen	<b>Refractive Index and Thermo-Optic Coefficient Measurements of Materials in the Near-Infrared Regime</b> U.S. Air Force via General Dynamics Information Technology, Inc.	\$10,000
Gutierrez, Thomas	<b>RUI: A Search for Neutrinoless Double Beta Decay in Tellurium Using the Cuoricino Detector</b> National Science Foundation	\$69,768
Holtzapple, Robert	<b>CAREER: Remote Operation of Synchrotron Radiation Beam Dynamics Laboratory</b> National Science Foundation (CAREER)	\$203,192
Johnston, Scott	<b>Collaborative Research: Testing Burial/Exhumation Models for the Evolution of a (U)HP Terrane in an Orogenic Upper Plate, Liverpool Land, East Greenland</b> National Science Foundation (EAR)	\$84,495
Keller, John CESaME (Center for Excellence in Science and Mathematics Education)	<b>Robert Noyce Scholarship Program</b> National Science Foundation (DUE)	\$730,736
Klay, Jennifer	<b>RUI: Jet Tomography of Compressed Nuclear Matter with the ALICE Experiment at the LHC</b> National Science Foundation	\$53,332
Klay, Jennifer	<b>Software Development for Time Projection Chamber</b> U.S. Dept of Energy via Georgia Institute of Technology	\$114,399
Sungar, Nilgun	<b>ADVANCE: Investigation of the Reasons for Participation and Advancement of Women in Academic Science and Engineering Careers at California Polytechnic State University</b> National Science Foundation	\$199,943
<b><u>Statistics</u></b>		
Rossmann, Allan CESaME (Center for Excellence in Science and Mathematics Education)	<b>Collaborative Research: The CATALST Project: Change Agents for Teaching And Learning Statistics</b> National Science Foundation (CCLI)	\$181,686
<b>Student Affairs</b>		
<b><u>Health &amp; Counseling Services</u></b>		
Bragg, Martin	<b>Safer California Universities: A Multi-Campus Alcohol Problem Prevention Study</b> NIAAA via Prevention Research Center, Pacific Institute for Research & Evaluation	\$9,600
<b><u>Student Academic Services</u></b>		
Gonzalez, Luis	<b>Cal Poly Upward Bound Project (2007-2012)</b> U.S. Dept of Education	\$387,523
Margarito, Cesar	<b>Student Support Services Program (2005- 2010)</b> U.S. Dept of Education	\$289,886
Olvera, Nelda	<b>Talent Search Program (2007- 2012)</b> U.S. Dept of Education	\$226,600

## GRANTS AND CONTRACTS AWARDED IN FISCAL YEAR 08/09

PI	TITLE AGENCY	AMOUNT
<b><u>Student Life &amp; Leadership</u></b>		
Kaiwi-Lenting, Andrene	<b>Cal Poly Open House 2009</b> San Luis Obispo, City of (PCC)	\$5,000
Lamb, Stephan	<b>Central Coast Volunteer Corps 2007-08</b> Various Non-Profit Organizations	\$113,969
Lamb, Stephan	<b>San Luis Obispo County Homeless Enumeration Project</b> San Luis Obispo County	\$5,000
Lamb, Stephan	<b>Central Coast Volunteer Corps 2009</b> AmeriCorps via CA Volunteers	\$384,943
Lamb, Stephan	<b>California's PROMISE (Pooling Regional Opportunities Maximizes Intensive Service Enhancement) Fellows</b> AmeriCorps via Napa County Office of Education	\$147,987
Lamb, Stephan	<b>Cal Poly's PROMISE Fellows Program - Community Partners</b> Various Non-Profit Organizations	\$40,000
Lamb, Stephan	<b>Central Coast Volunteer Corps 2008-09</b> Various Non-Profit Organizations	\$249,600
<b><u>Other</u></b>		
<b><u>Academic Programs</u></b>		
Conn, W. David	<b>Louis Stokes Alliance for Minority Participation Program (LSAMP)</b> National Science Foundation via CSU, Sacramento University Enterprises, Inc.	\$43,000
Conn, W. David	<b>Louis Stokes Alliance for Minority Participation Program (LSAMP) Student Scholar Program</b> National Science Foundation via CSU, Sacramento University Enterprises, Inc.	\$5,000
<b><u>Center for Teaching &amp; Learning</u></b>		
Grimes, Joseph	<b>Addressing Critical Classroom Issues Related to the Quality of Student Learning</b> CSU Chancellor's Office - The Institute for Teaching & Learning	\$7,500
Grimes, Joseph	<b>The MERLOT Faculty ELIXR Project - After the First Day of Class: Maintaining the Momentum</b> U.S. Dept of Education (FIPSE) via CSU Chancellor's Office	\$7,000
<b><u>Research &amp; Graduate Programs</u></b>		
Opava, Susan	<b>The California Central Coast Research Partnership: Building Relationships, Partnerships and Paradigms for University-Industry Research Collaboration</b> U.S. Dept of the Navy, Office of Naval Research	\$3,108,000
<b><u>University Police Department</u></b>		
Jordan, Donna	<b>Bulletproof Vest Partnership 2008</b> U.S. Dept of Justice, Office of Justice Programs via CA Office of Emergency Services	\$721
Watton, William	<b>Homeland Security Grant Program for 2007-08: Increasing Interoperable Communications</b> U.S. Dept of Homeland Security via CA Office of Homeland Security, Office of Emergency Services via CSU Chancellor's Office	\$25,000

**GRAND TOTALS:            230 Projects        \$28,827,275**

## FACULTY/STAFF PARTICIPATING IN NEW PROJECTS FUNDED IN FY 08/09

Name	Department	Name	Department
Abercromby, Kira	Aerospace Engineering	Dong, Kevin	Architectural Engineering
Amspacher, William	Agribusiness	Douglas, Cynthia	Horticulture & Crop Science
Appel, Christopher S.	Earth & Soil Sciences	Duffy, Susan	Liberal Studies
Armstrong, Mary A	Women's and Gender Studies	Dunning, James	Research & Graduate Programs
Becker, Jennifer	Social Sciences	Edwards, Mark S	Animal Science
Beckett, Deborah M.	Animal Science	Elrod, Susan	Biological Sciences
Berber-Jimenez, M. Dolores	Chemistry and BioChemistry	Engle, Patrice	Psychology & Child Development
Boswell, Michael	City & Regional Planning	Fantin, Dennis	Chemistry and BioChemistry
Bremer, Walter	Landscape Architecture	Farkye, Nana	Dairy Science
Brown, J Wyatt	Horticulture & Crop Science	Fidopiastis, Pat	Biological Sciences
Burgoa, Benali	BioResource and Agricultural Engineering	Fiegel, Gregg	Civil & Environmental Engineering
Burt, Charles	BioResource and Agricultural Engineering	Freed, Tali	Industrial & Manufacturing Engineering
Busch, Bryan	Irrigation and Training Research Center	Freeman, Beau	BioResource and Agricultural Engineering
Bush, Seth	Chemistry and BioChemistry	Garner, Lauren	Horticulture & Crop Science
Caldwell, Roslyn	Psychology & Child Development	Gaudi, Franklin	BioResource and Agricultural Engineering
Camp, Charles	Mathematics	Gibbs, David	Materials Engineering
Cardinal, Kristen	Biomedical and General Engineering	Golden, Bruce	Dairy Science
Cardinal, Trevor	Biomedical and General Engineering	Goldenberg, Marni	Natural Resource Management
Carlton, Matthew	Statistics	Goodman, Anya	Chemistry and BioChemistry
Carr, Chris	College of Business	Gragson, Derek	Chemistry and BioChemistry
Chance, Beth L.	Statistics	Greenwood, Brian	Natural Resource Management
Chen, John	Mechanical Engineering	Greve, Adrienne	City & Regional Planning
Clague, David	Biomedical and General Engineering	Grimes, Joseph	Center for Teaching & Learning
Clements, John	Computer Science	Hallock, Brent G	Earth & Soil Sciences
Coelho, Roland	Aerospace Engineering	Hamilton, Lynn	Agribusiness
Conn, W. David	Academic Programs	Hampson, Brian	Food Science & Nutrition
Costello, Michael J	Horticulture & Crop Science	Hanson, James	Civil & Environmental Engineering
DeCarli, Paul	Horticulture & Crop Science	Hazelwood, Scott	Biomedical and General Engineering
Delmore, Robert	Animal Science	Headrick, David	Horticulture & Crop Science
Derickson, Dennis	Electrical Engineering	Henderson, Stanley	Dairy Science
Dicus, Christopher A.	Natural Resource Management	Herter, Roberta	Graduate Studies in Education

## FACULTY/STAFF PARTICIPATING IN NEW PROJECTS FUNDED IN FY 08/09

Name	Department	Name	Department
Hey, David	Kinesiology	Lynn, Abraham	Architectural Engineering
Hill, Margarita	Landscape Architecture	MacCarley, C. Arthur	Electrical Engineering
Hillers, Kenneth	Biological Sciences	Macedo, Jose	Industrial & Manufacturing Engineering
Himmelblau, Edward	Biological Sciences	Main, Kelly	College of Arch & Env Design
Hoellwarth, Chance	Physics	Mastin, Tom B.	BioResource and Agricultural Engineering
Holtzapple, Robert	Physics	McCorkle, Robert	Agribusiness
Howard, Zeljka Pavlovich	City & Regional Planning	McDermott, Ann	Kinesiology
Howes, Daniel	Irrigation and Training Research Center	Mitra, Sudeshna	Civil & Environmental Engineering
Humphrey, Brooke	Animal Science	Moline, Mark	Biological Sciences
Jaques, Jodi	Graduate Studies in Education	Moss, Robb	Civil & Environmental Engineering
Jimenez-Flores, Rafael	Dairy Science	Moylan, Thomas	Marine Sci Ed & Rsrch Ctr
Johnston, Scott	Physics	Nakamura, Royden	Biological Sciences
Jones, Terry	Social Sciences	Neff, Grace Ann	Chemistry and BioChemistry
Jordan, Donna	University Police Department	Nicholson, Lisa	Food Science & Nutrition
Jovanovic, Jasna	Psychology & Child Development	Noel, Jay	Agribusiness
Jud, Eugene	Civil & Environmental Engineering	Nuworsoo, Cornelius	City & Regional Planning
Kachlakev, Damian I.	Civil & Environmental Engineering	Olsen, Eric	Industrial Technology
Kaiwi-Lenting, Andrene	Student Life & Leadership	Opava, Susan	Research & Graduate Programs
Kaminaka, Stephen	BioResource and Agricultural Engineering	Papathakis, Peggy	Food Science & Nutrition
Kane, Steven	Graduate Studies in Education	Pedrotti, Jennifer	Psychology & Child Development
Keller, John	Physics	Phelan, Suzanne	Kinesiology
Kelly, Shaun F	BioResource and Agricultural Engineering	Phillips, Stephen	Architecture
Khalil, Hany	Food Science & Nutrition	Piao, Xianshu	Irrigation and Training Research Center
Killham, Anastasia	Horticulture & Crop Science	Piirto, Douglas	Natural Resource Management
Klisch, Stephen M.	Mechanical Engineering	Pike, Amy	Dairy Products Technology Center
Lamb, Stephan	Student Life & Leadership	Plummer, William	Animal Science
Lehr, Corinne	Chemistry and BioChemistry	Pohl, Jens	Architecture
Levenson, Harvey	Graphic Communications	Puig-Suari, Jordi	Aerospace Engineering
Lundquist, Trygve	Civil & Environmental Engineering	Qenani-Petrela, Eivis	Agribusiness

## FACULTY/STAFF PARTICIPATING IN NEW PROJECTS FUNDED IN FY 08/09

Name	Department	Name	Department
Rahim, Ashraf M.	Civil & Environmental Engineering	Tierney, Amber	Student Life & Leadership
Rahman, Shikha	Civil & Environmental Engineering	Toker, Umut	City & Regional Planning
Rickard, Bradley J.	Agribusiness	Tomanek, Lars	Biological Sciences
Rinzel, Lawrence	Industrial & Manufacturing Engineering	Tong, Phillip	Dairy Science
Ritchie, Gerry	Food Science & Nutrition	Topping, Kenneth C.	City & Regional Planning
Robbins, Ian	Biological Sciences	Tornatzky, Louis	Industrial Technology
Rosenberg, Lou	Graduate Studies in Education	Torrey, Jesse	Student Life & Leadership
Rossman, Allan	Statistics	Vassey, Terry L.	Horticulture & Crop Science
Saghri, John A.	Electrical Engineering	Victorino, Christine	Center for Teaching & Learning
Schiller, Louise	Landscape Architecture	Vigil, Sam A	Civil & Environmental Engineering
Sheikh, Zahed	College of Engineering	Villablanca, Francis	Biological Sciences
Shelton, Mark	College of Agriculture	Vorst, Keith	Industrial Technology
Siembieda, William	City & Regional Planning	Wakeman, Kaylene	College of Science & Mathematics
Singh, Jagjit	Industrial Technology	Walsh, Daniel	College of Engineering
Soto, Monte	Irrigation and Training Research Center	Watton, William	University Police Department
Stephens, John	Biological Sciences	Wendt, Dean	Biological Sciences
Styles, Stuart	BioResource and Agricultural Engineering	Westphal, Russell	Mechanical Engineering
Sungar, Nilgun	Physics	Wilenius, Ann	Center for Teaching & Learning
Sweatt, Lisa	Psychology & Child Development	Wilt, Peter	Cal Poly Arts
Sweet, Angela	Natural Resource Management	Woertz, Ian	Civil & Environmental Engineering
Taylor, Emily	Biological Sciences	Yesiller, Nazli	Civil & Environmental Engineering
Teaford, Stephanie	Kinesiology	Yeung, Marie	Biological Sciences
Tennant, Laurie	Center for Teaching & Learning	Yildiz, Ilhami	BioResource and Agricultural Engineering
Thatcher, Tracy	Civil & Environmental Engineering	Yoshimura, Michael	Biological Sciences
Thulin, Andrew	Animal Science	Yu, Xiao-Hua (Helen)	Electrical Engineering
		Zohns, Mark	BioResource and Agricultural Engineering