

**University of California Berkeley
Research Administration and Compliance**

**Sponsored Projects Office
Annual Report
Fiscal Year 2009**



The University of California, Berkeley

Chancellor

Robert J. Birgeneau

Executive Vice Chancellor and Provost

George W. Breslauer

Vice Chancellor for Research

Graham R. Fleming

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Assistant Vice Chancellor - Research Administration and Compliance: Patrick Schlesinger

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Annual Report, Fiscal Year 2009

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Wheeler Hall and the Campanile, viewed from Barrows Hall, University of California, Berkeley
Photograph by Steve McConnell / University of California, Berkeley

Research Administration and Compliance

Overview

The **University of California, Berkeley** is one of the world's leading universities in research, teaching, and public service, with an enrollment of 25,151 undergraduates and 10,258 graduate students in Fall 2008. The campus employed 2,047 faculty in 2008 in more than 130 academic departments and interdepartmental groups, and more than 65 interdisciplinary research units contribute to this dynamic and vital research and teaching environment.

The **Research Administration and Compliance** Office (RAC), led by Assistant Vice Chancellor Patrick Schlesinger, is the administrative office at UC Berkeley responsible for facilitating and ensuring campus compliance with federal, state, and university regulations pertaining to research administration, including policies governing research animal care and use, human research subjects protection, financial conflict of interest in research, and grants and contracts administration. RAC is under the purview of the Office of the Vice Chancellor for Research.

The Sponsored Projects Office (SPO) at UC Berkeley is responsible for endorsing and authorizing proposals to and interpreting, negotiating, and accepting contracts and grants for projects funded by federal and state agencies, foundations, and other public and private sources. SPO prepares and negotiates all subawards for collaborative research. SPO also provides resources for finding funding opportunities, and coordinates application to programs with institutional limits on proposals.

Berkeley Coeus is the campus research contract and grant system of record and is managed by the RAC Information Systems team. Coeus was licensed from the Massachusetts Institute of Technology in 1997 and adapted for use at Berkeley in July of 1998. The Berkeley Coeus web site, <http://coeus.spo.berkeley.edu/>, provides UC Berkeley departments and organized research units with reports on contract and grant proposals and awards administered within the unit, based on current information in the Berkeley Coeus database system. The Berkeley Coeus web site also provides reports on funding by sponsor category and funding by department that can be accessed by the public.

The Animal Care and Use Committee (ACUC) at UC Berkeley is the institutional committee charged with reviewing and approving all proposed uses of live vertebrate animals in teaching and research. The ACUC's activities are mandated by the U.S. Animal Welfare Act and Public Health Service Policy. The RAC Office of the ACUC (OACUC) provides the administrative infrastructure required to support the Committee's work to review, approve, and administer those activities.

The Committee for Protection of Human Subjects (CPHS) serves as the institutional review board (IRB) at UC Berkeley. The IRB must review and approve the use of human subjects in research. The process is designed to ensure that the rights and welfare of human subjects are protected throughout their participation in research projects. UC Berkeley operates within the regulations and guidelines set forth by federal authorities, primarily the Office for Human Research Protections and the Food and Drug Administration, as well as other bodies. The Office for the Protection of Human Subjects (OPHS) provides operational and staffing support to the CPHS and administers all human subjects research performed on behalf of UC Berkeley.

The faculty Conflict of Interest Committee is responsible for the review and assessment of all financial disclosures related to research projects at UC Berkeley and for determining any actions required to ensure that real or perceived financial conflicts of interest are managed or eliminated. RAC staff provide the operational support required to implement and administer COI Committee decisions.

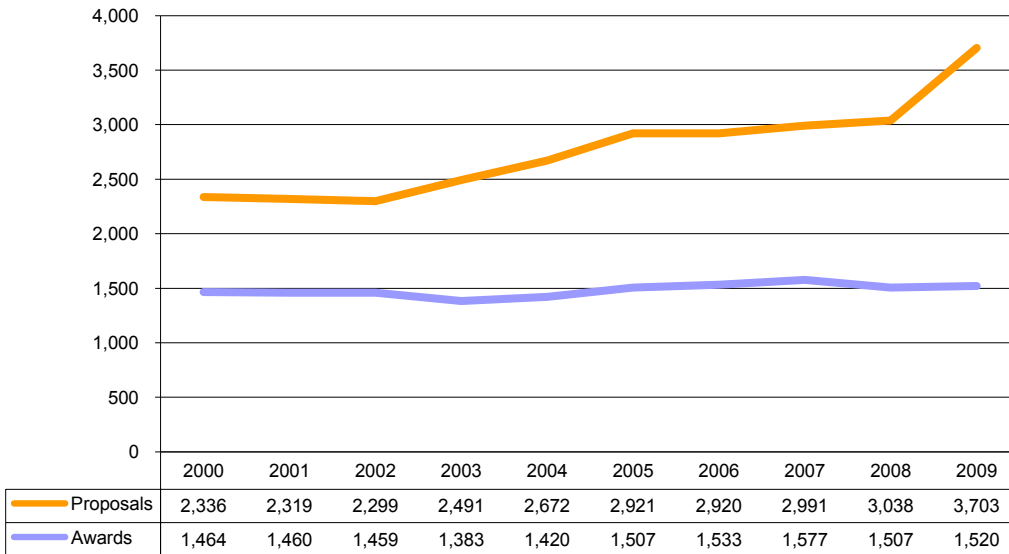
Research Proposals and Awards, Fiscal Year 2009

Funding Overview

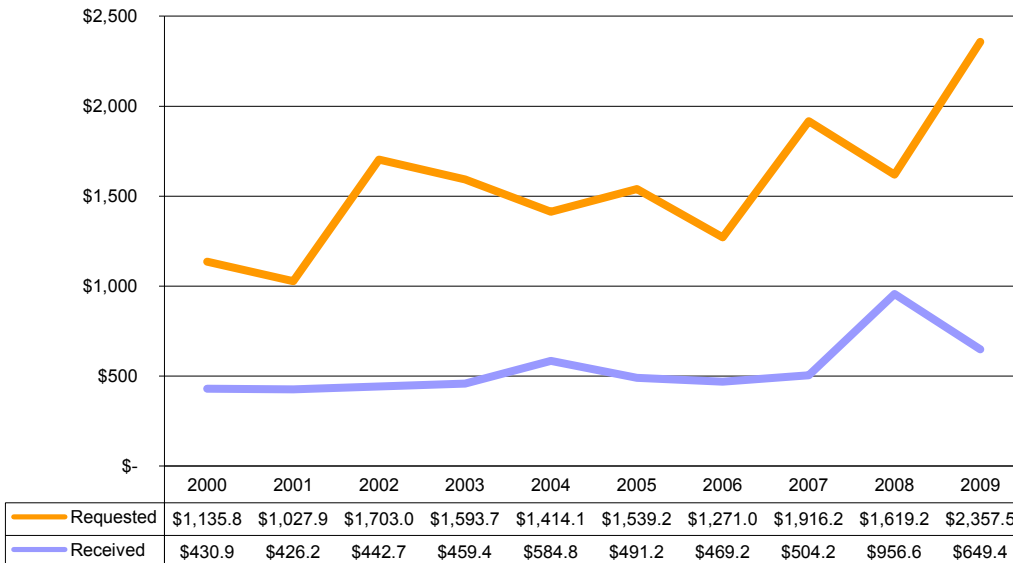
The Research Administration and Compliance Office is pleased to present this annual report on Berkeley’s sponsored research, teaching, and public service for fiscal year 2009, from July 1, 2008 through June 30, 2009. In fiscal year 2009, the Berkeley campus received \$649.4 million in contract and grant awards, a decrease of more than 30 percent from the prior year funding of \$956.6 million. The main factor contributing to the decrease was last fiscal year’s receipt of a 10-year, \$350 million award from BP to establish the Energy Biosciences Institute. Excluding the \$350 million BP award last year, fiscal year 2009 funding represents a seven-percent increase from fiscal year 2008.

The campus submitted 3,703 proposals requesting \$2.36 billion, with the number of submissions up 21 percent and the requested funding up by more than 45 percent from the prior fiscal year.

Number of Proposals Submitted Compared with Awards Received, FY 2000 - 2009



Funding Dollars Requested Compared with Funding Received, FY 2000- 2009 (dollars in millions)

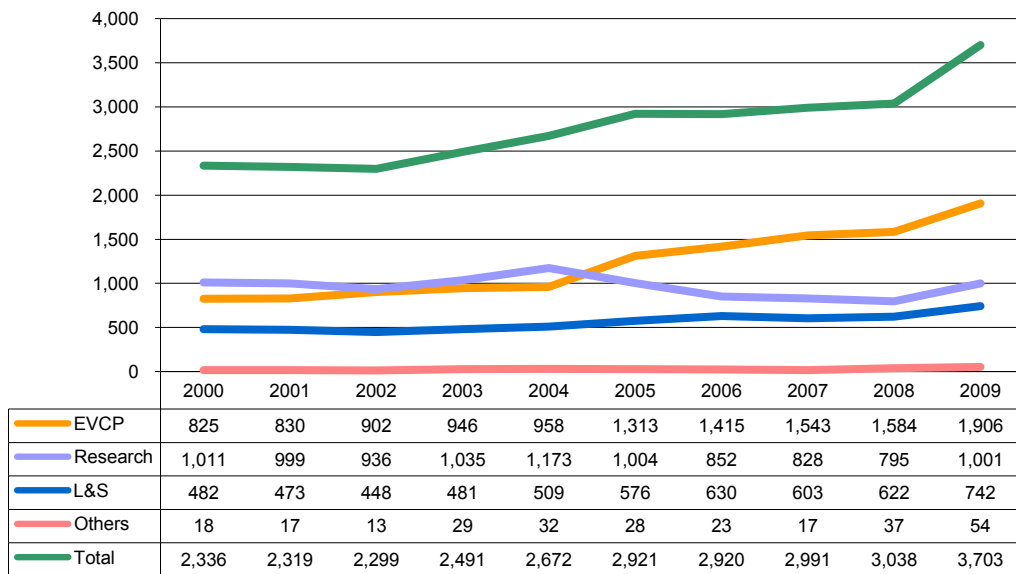


Research Proposals and Awards, Fiscal Year 2009

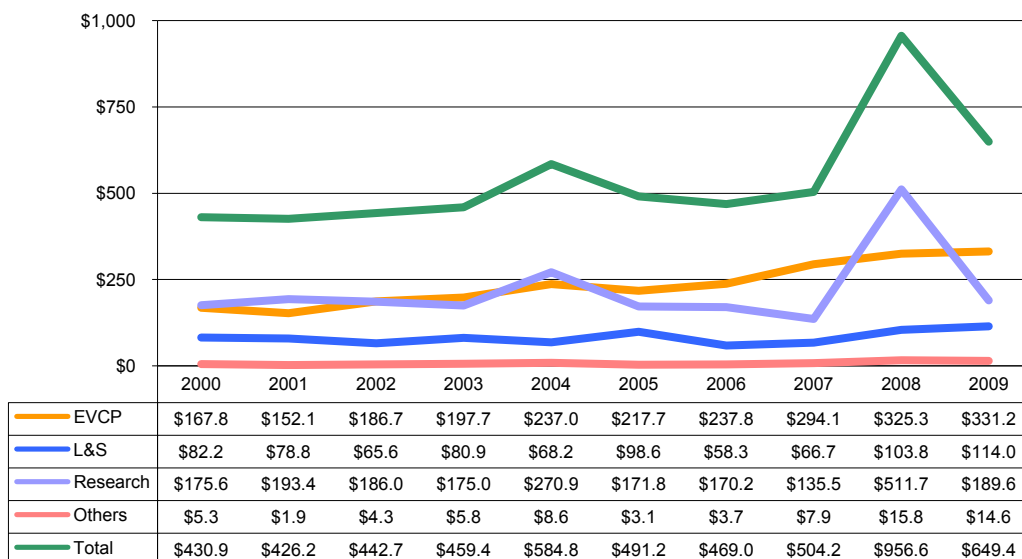
Campus Control Units

The following statistics reflect funding activity for campus control units in fiscal year 2009. Departments reporting to the Executive Vice Chancellor and Provost (EVCP) include the Colleges of Chemistry, Engineering, Natural Resources, and Environmental Design, as well as Optometry, Law, Journalism, Public Policy, Public Health, Education, Business, Social Welfare, and others. Organized Research Units (ORUs) report to the Vice Chancellor for Research and span many disciplines. These institutes, centers, and departments exist primarily to conduct research, and include the Space Sciences Laboratory, the Institute of Transportation Studies, the Berkeley Seismological Laboratory, and many others. The College of Letters and Science, or L&S, includes Biological, Physical, Social Science, and Arts and Humanities Divisions.

Number of Proposals Submitted by Control Unit, FY 2000 - 2009



Ten Year Funding Dollar Summary by Control Unit, FY 2000 - 2009 (dollars in millions)

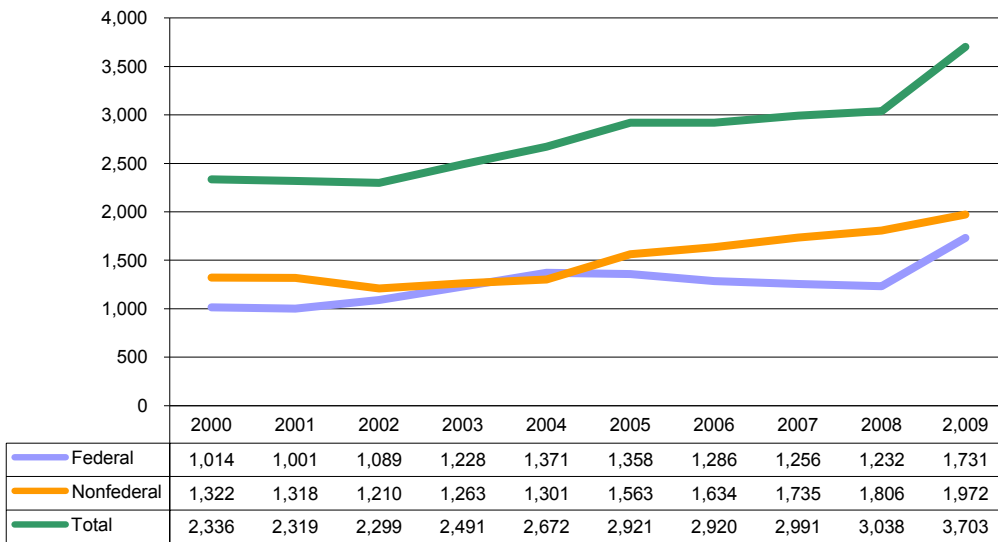


Research Contracts and Grants by Funding Source Overview - All Sponsors

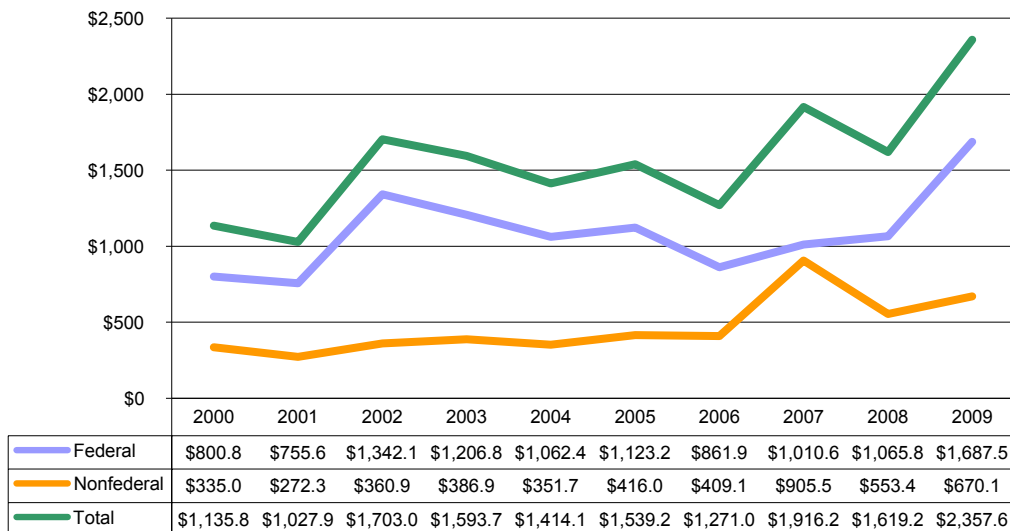
Last year's \$350 million award from BP gave industry sources the largest share of campus research funding for fiscal year 2008. In fiscal year 2009, federal funding once again comprised the largest portion of the total amount received, at 50 percent of the total.

Of the nonfederal funding, \$121 million came from non-profit sources. Of that \$121 million, \$52.1 million was provided by other universities, an increase of seven percent from fiscal year 2008, which was 57 percent higher than fiscal year 2007. The remainder includes \$45.6 million from charitable foundations. Funding from nonfederal governmental sources included \$145.5 million from State of California sources, an 82-percent increase from last year, and \$29.5 million from the University of California system (\$20.8 million from other UC campuses and \$8.7 million from system-wide funding programs).

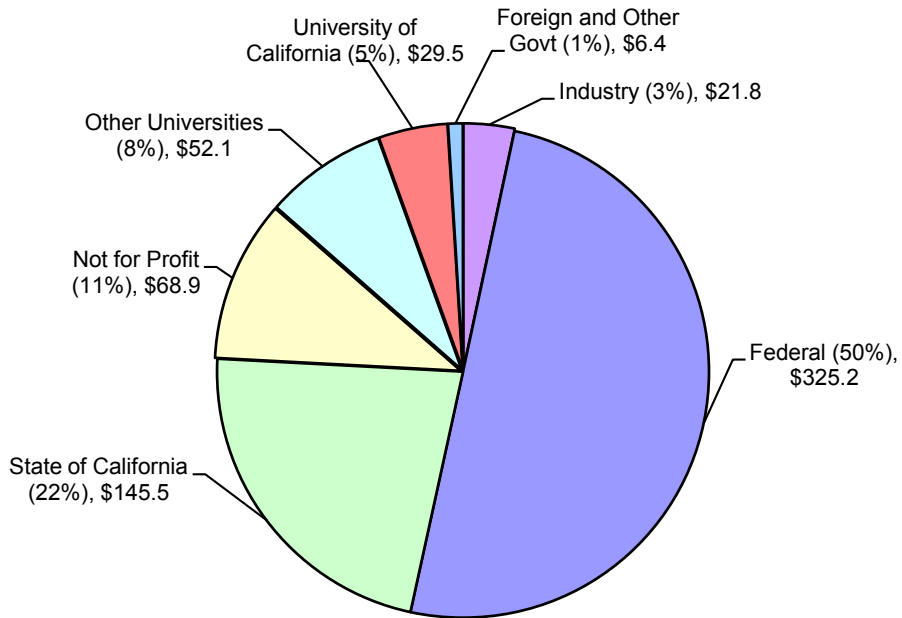
Number of Proposals Submitted by Sponsor Category, FY 2000 - 2009



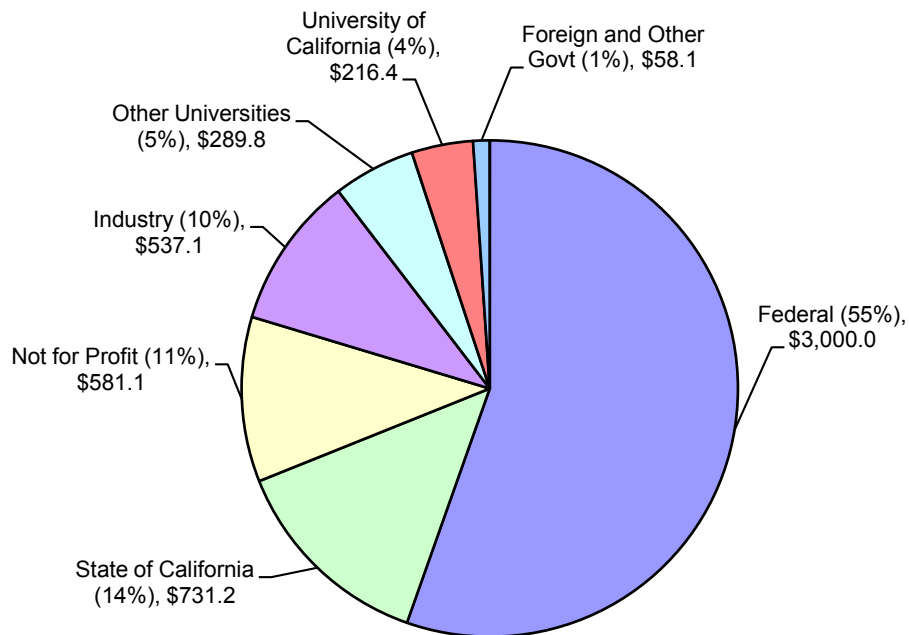
Funding Dollars Requested by Sponsor Category, FY 2000 - 2009 (dollars in millions)



**Fiscal Year 2009 Funding Dollars by Sponsor Category
(\$649.4 million total) (dollars in millions)**



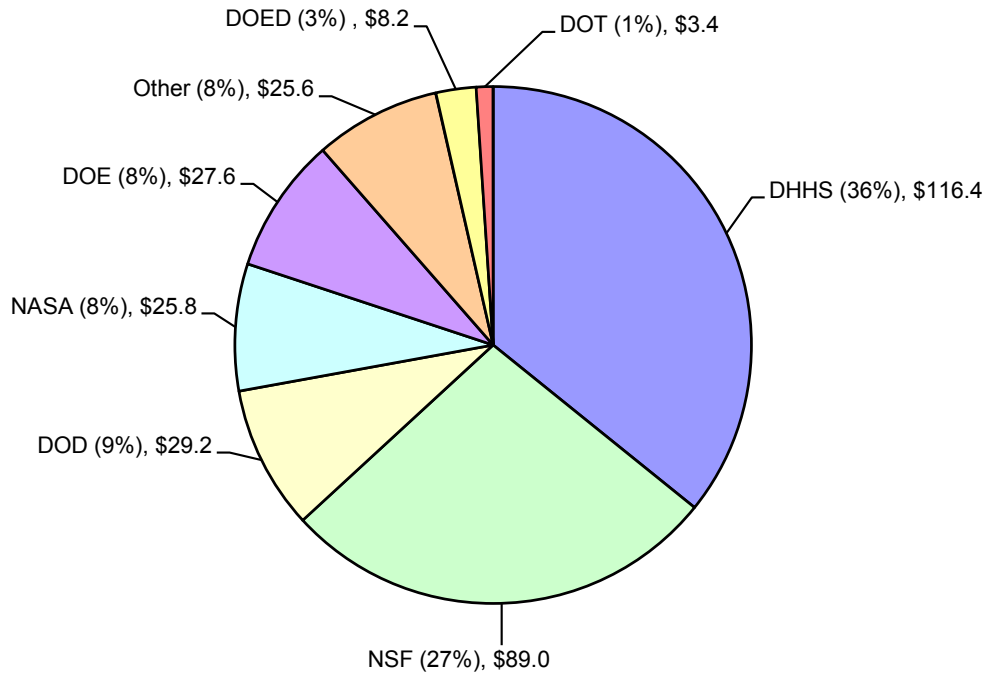
**Ten Year Funding Dollar Summary by Sponsor Category, FY 2000 - 2009
(dollars in millions)**



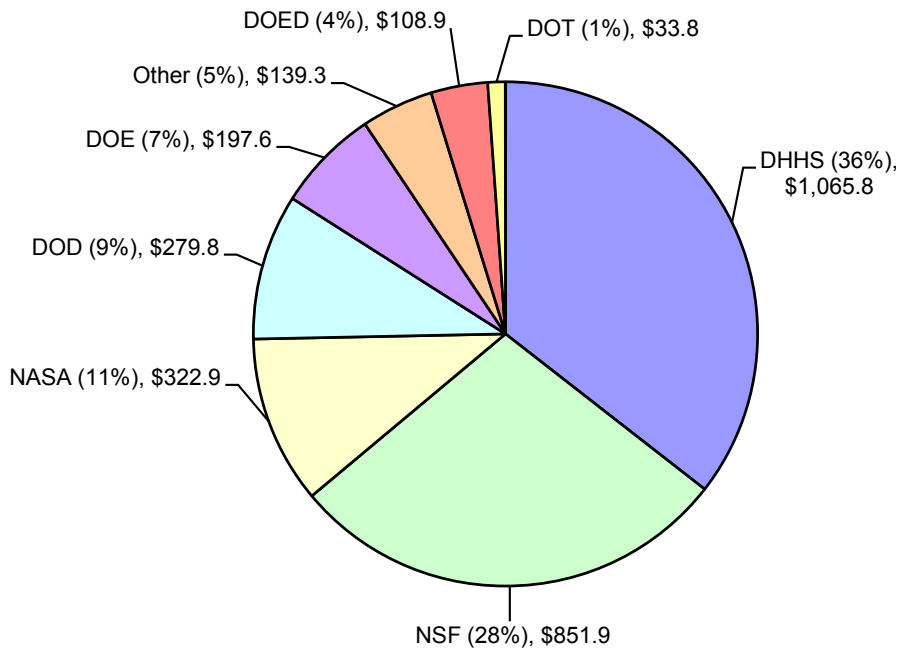
Research Contracts and Grants by Funding Source Federal Agencies

Funding from federal sources totaled \$325.2 million in FY 2009, essentially unchanged from last year. The Department of Health and Human Services provided \$116.2 million in funding, while the National Science Foundation declined 14 percent from last year's total with \$88.9 million.

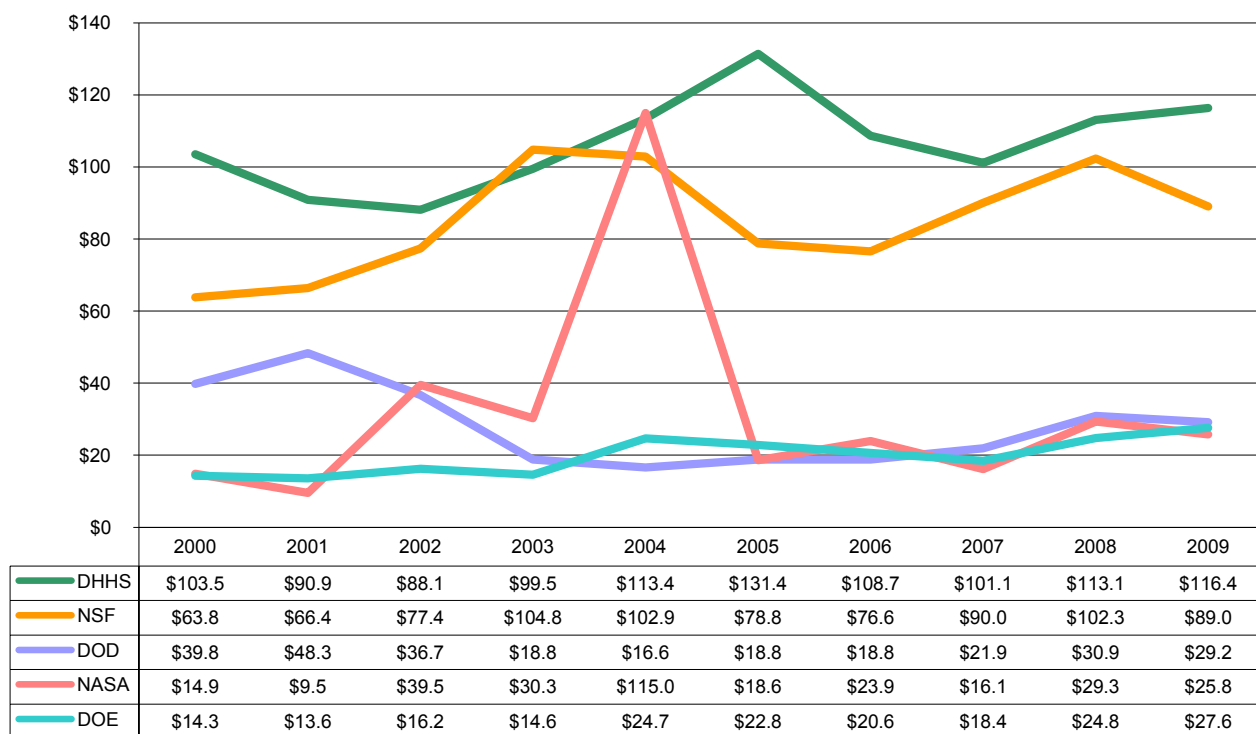
**Fiscal Year 2009 Funding Dollar Summary by Federal Sponsor
(dollars in millions)**



**Ten Year Funding Dollar Summary by Federal Sponsor, FY 2000 - 2009
(dollars in millions)**



Ten-Year Funding Dollar Summary for Top 5 Federal Sponsors, FY 2000 - 2009
(dollars in millions)



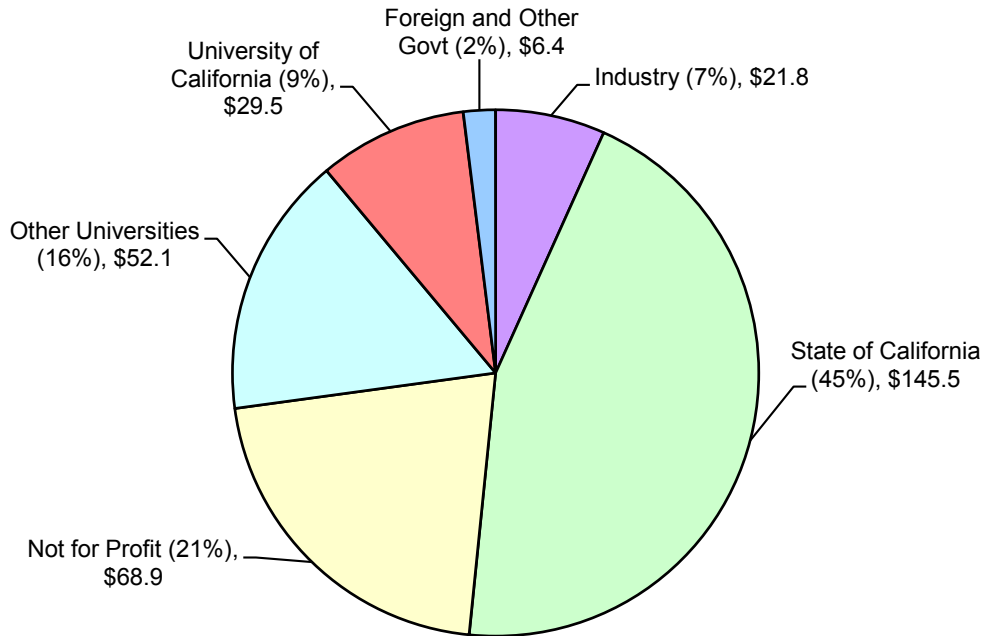
American Recovery and Reinvestment Act of 2009 (ARRA)

The American Recovery and Reinvestment Act was enacted in February 2009. Although the majority of ARRA funds will be received in fiscal year 2010, the campus submitted 61 proposals for ARRA funding in the final months of fiscal year 2009 requesting \$20.7 million. By June 30, 2009, the campus had already received more than \$10 million in ARRA funding. Most of the funding came from the National Institutes of Health and the National Science Foundation.

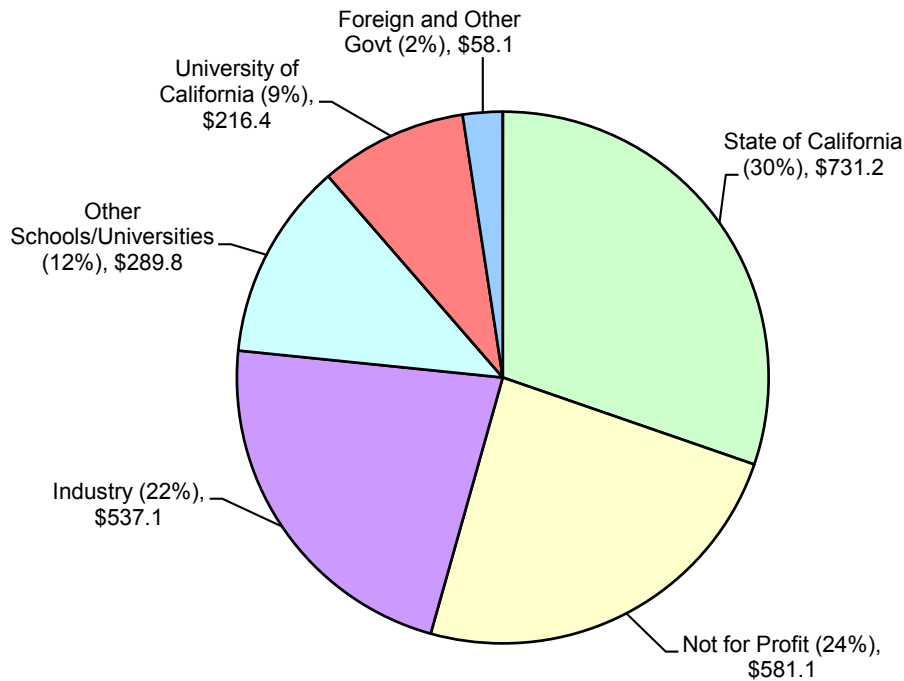
Research Contracts and Grants by Funding Source Nonfederal Agencies

Funding from nonfederal sources totaled \$324.3 million in fiscal year 2009, down nearly 50 percent from last year's \$634 million but an increase of more than 45 percent from fiscal year 2007's \$221.7 million. This total was impacted by receipt the \$350 million BP award in fiscal year 2009.

**Fiscal Year 2009 Funding Dollar Summary by Nonfederal Sponsor
(dollars in millions)**



**Ten Year Funding Dollar Summary by Nonfederal Sponsor, FY 2000 - 2009
(dollars in millions)**



Funding by Sponsor - Five-Year Funding Summary

	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009
Federal					
Agriculture	\$3,899,912	\$7,884,103	\$3,754,302	\$3,781,047	\$6,143,314
Commerce	220,944	1,152,614	80,981	809,992	11,486,398
Defense	18,775,598	18,777,144	21,913,073	30,922,189	29,188,030
Education	3,794,473	14,105,286	22,902,566	7,312,265	8,228,159
Energy	13,035,140	9,111,091	9,065,929	4,197,711	5,525,739
Environmental Protection Agency	4,500,774	1,376,444	76,998	1,003,414	374,921
Health and Human Services	131,436,000	108,658,599	101,050,776	113,056,292	116,367,931
Interior	1,802,107	1,497,644	1,345,170	1,627,843	1,499,058
National Aeronautics and Space Administration	18,611,412	23,919,907	16,076,459	29,278,087	25,810,247
National Endowments for the Arts and Humanities, Institute of Museum and Library Services	1,288,782	744,744	2,114,073	1,547,996	1,225,119
National Science Foundation	78,839,417	76,605,884	89,959,672	102,286,247	88,983,109
Other	12,985,685	13,277,127	10,640,470	22,864,898	26,971,541
Transportation	2,706,030	2,839,219	3,329,328	3,865,672	3,357,402
Subtotal	291,896,274	279,949,806	282,309,797	322,553,653	325,160,968
Industry					
Foreign Industry	11,274,965	4,797,960	10,331,009	352,975,698	4,453,485
U.S. Industry	16,033,954	10,992,097	21,677,263	31,554,819	17,392,719
Subtotal	27,308,919	15,790,057	32,008,272	384,530,517	21,846,204
Nonfederal Governmental					
Foreign Government Agencies	2,330,092	2,052,874	3,816,745	3,006,848	4,852,570
Local Agencies and Schools	1,327,636	962,771	2,710,522	9,545,104	1,131,942
Other U.S. Government Agencies	(240,020)	509,138	229,108	240,969	448,379
State Agencies	65,230,539	85,838,545	64,394,770	78,505,619	145,484,866
Subtotal	68,648,247	89,363,328	71,151,145	91,298,540	151,917,757
Not for Profit					
Foreign Organizations	2,735,939	2,831,678	2,935,529	16,858,767	9,438,823
Other U.S. Organizations	20,206,528	6,822,290	22,025,646	15,855,643	19,934,800
U.S. Foundations and Charities	42,008,382	30,476,500	44,261,339	55,906,970	45,610,004
U.S. Institutes of Higher Education	20,119,711	22,220,748	26,368,727	32,405,088	46,033,446
Subtotal	85,070,560	62,351,216	95,591,241	121,026,468	121,017,073
University of California					
Subtotal	18,238,381	21,718,490	23,204,061	37,143,980	29,485,529
Total	\$491,162,381	\$469,172,897	\$504,264,516	\$956,553,158	\$649,427,531

Campus Control Units - Five-Year Funding Summary

Control Unit	Division	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009
Executive Vice Chancellor and Provost (EVCP)						
	BAM/PFA	\$897,906	\$867,613	\$619,337	\$797,501	\$555,630
	Cal Performances/SMA	1,686,460	714,057	288,500	1,324,500	634,000
	College of Natural Resources	35,992,371	27,080,059	30,820,872	31,063,361	35,411,141
	College of Chemistry	39,526,574	23,357,555	28,834,580	26,611,323	30,039,465
	College of Engineering	67,866,304	66,665,660	78,580,684	121,220,404	94,149,039
	College of Environmental Design	1,274,965	4,207,500	4,800,551	139,511	290,190
	Division of Undergraduate Education	367,028	2,264,364	1,794,528	2,617,393	515,052
	Executive Vice Chancellor and Provost	852,858	125,000	514,000		50,000
	Goldman School of Public Policy	816,896	4,224,201	447,471	1,367,291	708,009
	Graduate Division	10,691,459	16,903,670	16,329,324	17,136,203	17,934,515
	Graduate School of Education	7,585,403	14,942,791	6,302,592	7,019,514	13,381,485
	Haas School of Business	470,937	74,700		24,000	45,000
	International and Area Studies	6,252,487	1,846,387	18,221,153	3,929,824	3,330,837
	School of Information	685,640	425,000	40,000	11,700	680,956
	School of Journalism	475,624	5,213,994	568,602	3,503,364	1,956,175
	School of Law	672,000	802,500	1,855,000	3,912,692	2,524,773
	School of Optometry	5,749,646	8,586,191	5,608,357	10,090,828	11,021,107
	School of Public Health	44,049,157	43,317,791	56,210,830	40,064,685	38,838,683
	School of Social Welfare	25,922,971	34,996,787	34,948,119	36,978,642	54,332,202
	The Library	2,181,004	1,952,362	2,088,861	1,871,780	7,614,619
	Vice Provost Academic Affairs and Faculty Welfare	6,060,300	5,655,544	12,475,917	15,448,639	17,183,248
	Vice Provost Academic Planning and Facilities	342,542	1,650,000	1,112,827	35,440	
Subtotal		260,420,532	265,873,726	302,462,105	325,168,595	331,196,126
College of Letters and Science (L&S)						
	College of Letters and Science	1,668,000		1,000,000		2,330,000
	Division of Arts and Humanities	923,743	883,044	3,134,281	983,113	2,197,496
	Division of Physical Sciences	18,026,352	20,275,756	20,948,673	50,929,750	39,793,403
	Division of Social Sciences	7,124,915	1,844,296	3,048,022	3,241,700	5,930,990
	Biological Sciences	70,771,144	34,068,825	39,606,540	42,033,924	63,768,106
	Undergraduate Division	54,112	178,079		2,051,347	
Subtotal		98,568,266	57,250,000	67,737,516	99,239,834	114,019,995

Control Unit	Division	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009
Vice Chancellor - Administration						
	Associate VC - Business and Administrative Services	113,000	47,750			
	Associate VC - Health and Human Services	159,875	278,651	287,043		509,600
	Intercollegiate Athletics Division	595,000				500,000
	Public Safety				99,487	
Subtotal		867,875	326,401	287,043	99,487	1,009,600
Vice Chancellor - Research						
	VC Administrative Units				2,084,720	3,642,985
	Other Research Units	31,927,812	35,998,482	38,086,036	59,370,220	82,008,626
	VC Research		2,447,970		5,512,500	(100,000)
	Museums and Field Stations	6,131,580	5,459,995	4,407,351	1,595,179	3,087,030
	Vice Chancellor for Research ORUs	85,726,188	93,009,356	80,415,176	447,825,735	100,993,121
Subtotal		123,785,580	136,915,803	122,908,563	516,388,354	189,631,762
Vice Chancellor - Student Affairs						
	Admissions and Enrollment	1,225,338	694,166	1,977,415	3,080,573	3,844,994
	Residential and Student Services Programs			30,000		30,000
	Vice Chancellor - Student Affairs Division	5,995,735	8,112,801	8,861,874	11,068,323	7,344,737
Subtotal		7,221,073	8,806,967	10,869,289	14,148,896	11,219,731
Vice Chancellor for Equity and Inclusion						
	Office of Equity and Inclusion				800,000	1,719,211
Subtotal					800,000	1,719,211
Other						
	Capital Projects	287,055				
	Information Services & Technology	12,000			707,992	631,106
		299,055			707,992	631,106
Total		\$491,162,381	\$469,172,897	\$504,264,516	\$956,553,158	\$649,427,531

Largest Awards, Fiscal Year 2009

Isacoff, Ehud, Molecular and Cell Biology, "NDC for the Optical Control of Biological Function," National Eye Institute, \$11,240,000

Crommie, Michael F., Physics, "Center for Integrated Precision and Quantum Measurement," National Institute of Standards and Technology, \$10,980,549

Zhang, Xiang, College of Engineering, "NSEC: Center for Scalable and Integrated Nanomanufacturing (SINAM)," National Science Foundation, \$6,492,250

Portnoy, Daniel A., Molecular and Cell Biology, "Intracellular Pathogens and Innate Immunity," National Institute of Allergy and Infectious Diseases, \$5,084,481

Linn, Marcia C., Graduate School of Education, "R&D: Cumulative Learning Using Embedded Assessment Results (CLEAR)," National Science Foundation, \$3,599,772

Barber, Jacqueline, Lawrence Hall of Science, "R&D: The Role of Educative Curriculum Materials in Supporting Science Teaching Practices with English Language Learners," National Science Foundation, \$3,190,230

Kramer, Richard H., School of Optometry, "CORE Grant for Vision Research," National Eye Institute, \$2,976,861

Hammond, S. Katharine, School of Public Health, "Neurologic and Reproductive Effects of hexane on Workers," National Institute of Environmental Health Sciences, \$2,729,714

Adams, Anthony J., Optometry Department, "Training Program in Vision Science," National Eye Institute, \$2,627,040

Bertozi, Carolyn R., Chemistry Department, "Metabolic Engineering with Bioorthogonal Chemical Reporters," National Institute of General Medical Sciences, \$2,388,905

Cande, W. Zacheus, Molecular and Cell Biology, "Kinesin Function in Mitosis and Automixis in the Widespread Parasite *Giardia Intestinalis*," National Institute of Allergy and Infectious Diseases, \$2,085,143

Zhou, Qiang, Molecular and Cell Biology, "Regulation of Transcriptional Elongation by HIV-1 Tat," National Institute of Allergy and Infectious Diseases, \$2,036,964

Bea, Robert G., Institute of Business and Economic Research, "EFRI-RESIN: Assessing and Managing Cascading Failure Vulnerabilities of Complex, Interdependent, Interactive, Adaptive Human-Based Infrastructure," National Science Foundation, \$1,999,964

Klinman, Judith P., Institute for Quantitative Biomedical Research, "Protein and Peptide-Derived Redox Cofactors: Biogenesis and Function," National Institute of General Medical Sciences, \$1,950,995

Levine, Michael S., Molecular and Cell Biology, "Molecular Characterization of the Dorsal Morphogen," National Institute of General Medical Sciences, \$1,936,567

Collins, Kathleen, Molecular and Cell Biology, "Biogenesis and Regulation of Human Telomerase," National Heart, Lung, and Blood Institute, \$1,918,750

Fleiszig, Suzanne M. J., School of Optometry, "Intracellular Lifestyle of *Pseudomonas Aeruginosa*," National Institute of Allergy and Infectious Diseases, \$1,879,645

Liu, Fenyong, School of Public Health, "Cytomegalovirus Virulence in Immunodeficient Hosts," National Institute of Allergy and Infectious Diseases, \$1,858,149

Dan, Yang, Helen Wills Neuroscience Institute, "Synaptic Basis for Visual Cortical Receptive Field Properties," National Eye Institute, \$1,845,549

Raymond, Kenneth N., Chemistry Department, "Coordination Chemistry of Microbial Iron Transport Compounds," National Institute of Allergy and Infectious Diseases, \$1,800,983

Levenson, Robert W., Institute for Personality and Social Research, "Predoctoral Training Consortium in Affective Science," National Institute of Mental Health, \$1,727,520

Bray, Jonathan D., College of Engineering, "NEESR-SG: Seismic Performance Assessment in Dense Urban Environments," National Science Foundation, \$1,710,665

Zusman, David R., Molecular and Cell Biology, "Sensory Transduction and Development in a Bacterium," National Institute of General Medical Sciences, \$1,683,691

Vance, Russell, Molecular and Cell Biology, "Macrophage Transcriptional Responses to *Legionella Pneumophila*," National Institute of Allergy and Infectious Diseases, \$1,680,730

Vance, Russell, Molecular and Cell Biology, "Intracellular Sensing of Flagellin and Innate Immunity to Legionella Pneumophila," National Institute of General Medical Sciences, \$1,662,612

Drubin, David G., Molecular and Cell Biology, "Actin Assembly in Membrane Trafficking and Cell Polarity," National Institute of General Medical Sciences, \$1,656,998

Dow, William H., Institute of Business and Economic Research, "Costa Rican Health and Retirement Survey," National Institute on Aging, \$1,636,723

Ellman, Jonathan A., Chemistry Department, "Substrate Activity Screening: A New Approach to Inhibitor Discovery," National Institute of General Medical Sciences, \$1,603,419

Scott, Kristin E., Molecular and Cell Biology, "Taste Representations in the Drosophila Brain," National Institute on Deafness and Other Communication Diso, \$1,594,826

Marriott, Gerard, Institute for Quantitative Biomedical Research, "High-Contrast Imaging of Single Molecules in Live Cells," National Institute of Biomed Imaging and Bioengineering, \$1,571,935

Weis, Karsten, Molecular and Cell Biology, "Structure and Function of the Nuclear Pore Complex," National Institute of General Medical Sciences, \$1,548,635

Zhong, Qing, Molecular and Cell Biology, "Biochemical Reconstitution of DNA Damage Induced Apoptosis," National Cancer Institute, \$1,534,494

Theunissen, Frederic E., Helen Wills Neuroscience Institute, "CRCNS: Ethological Theories of Optimal Auditory Processing," National Institute on Deafness and Other Communication Disorders, \$1,520,968

Horava, Petr, Physics, "Particles, Strings, and the Universe in Motion," National Science Foundation, \$1,500,000

Honors to Individual Faculty, Fiscal Year 2009

National Academy of Sciences

Alex Filippenko, Astronomy
Robert Fischer, Plant and Microbial Biology
Sarah Hake, Plant and Microbial Biology
Hiroshi Nikaido, Molecular and Cell Biology
Christos Papadimitriou, Electrical Engineering and Computer Sciences
Mu-ming Poo, Molecular and Cell Biology
Kevan Shokat, Chemistry

American Academy of Arts and Sciences

Mary Elizabeth Berry, East Asian History
Steven Louie, Physics
Dan Slobin, Psychology and Linguistics
Philip Tetlock, Business and Political Science

American Association for the Advancement of Science

Martin Banks, Optometry and Vision Science
Steven Brenner, Plant and Microbial Biology
Jennifer Doudna, Molecular and Cell Biology
Graham Fleming, Chemistry
Louise Fortmann, Environmental Science, Policy, and Management
Susan Marqusee, Molecular and Cell Biology
Barbara Meyer, Molecular and Cell Biology
Nipam Patel, Molecular and Cell Biology
Elizabeth Theil, Nutritional Sciences and Toxicology
Bin Yu, Statistics and Electrical Engineering and Computer Sciences
Xiang Zhang, Mechanical Engineering

Honors to Individual Faculty, Fiscal Year 2009 (continued)

American Philosophical Society

Anthony Long, Classics and Literature
Robert Tjian, Molecular and Cell Biology
James Valentine, Integrative Biology

Presidential Early Career Award for Scientists and Engineers (PECASE)

Ravi Ramamoorthi, Electrical Engineering and Computer Sciences
Rachel Segalman, Chemical Engineering
Sanjit Seshia, Electrical Engineering and Computer Sciences
Joan Walker, Civil and Environmental Engineering

National Institutes of Health New Innovator Award

Sanjay Kumar, Bioengineering

Carnegie Corporation Academic Leadership Award

Robert Birgeneau, Chancellor

Dan David Prize

Paul Richards, Physics (shared with Andrew Lange, California Institute of Technology, and Paolo De Bernardis, University La Sapienza)

John Simon Guggenheim Memorial Foundation Fellows

John Campbell, Philosophy
Constance Chang-Hasnain, Electrical Engineering and Computer Sciences
Lyn Hejinian, English

W. M. Keck Foundation Distinguished Young Scholar in Medical Research

Britt Glaunsinger, Plant and Microbial Biology

Mellon Foundation Distinguished Achievement Award

Judith Butler, Comparative Literature and Rhetoric

Mellon Foundation Emeritus Fellowships

Wye Allanbrook, Music
Ira Lapidus, History
Barbara Shapiro, Rhetoric

David and Lucile Packard Foundation Fellowship in Science and Engineering

Doris Bachtrog, Integrative Biology
Yun Song, Electrical Engineering and Computer Sciences and Statistics

Alfred P. Sloan Foundation Research Fellows

Jose Carmena, Electrical Engineering and Computer Sciences
Hartmut Häffner, Physics
Shachar Kariv, Economics
Alexandre Mas, Business and Economics
Richmond Sarpong, Chemistry
Rachel Segalman, Chemical Engineering
Ahmet Yildiz, Physics and Molecular and Cell Biology

Vetlesen Prize

Walter Alvarez, Earth and Planetary Science