

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

**Sponsored Projects Office
Annual Report
Fiscal Year 2010**



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 2010

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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 25,530 undergraduates and 10,313 graduate students in Fall 2009. The campus employed 2,002 faculty and 6,864 academic staff in 2009. Berkeley offers more than 350 degree programs in 14 colleges and schools, and more than 65 research centers and institutes contribute to the 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 and adapted for use at Berkeley. 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 for Animal Care and Use (OACU) 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.

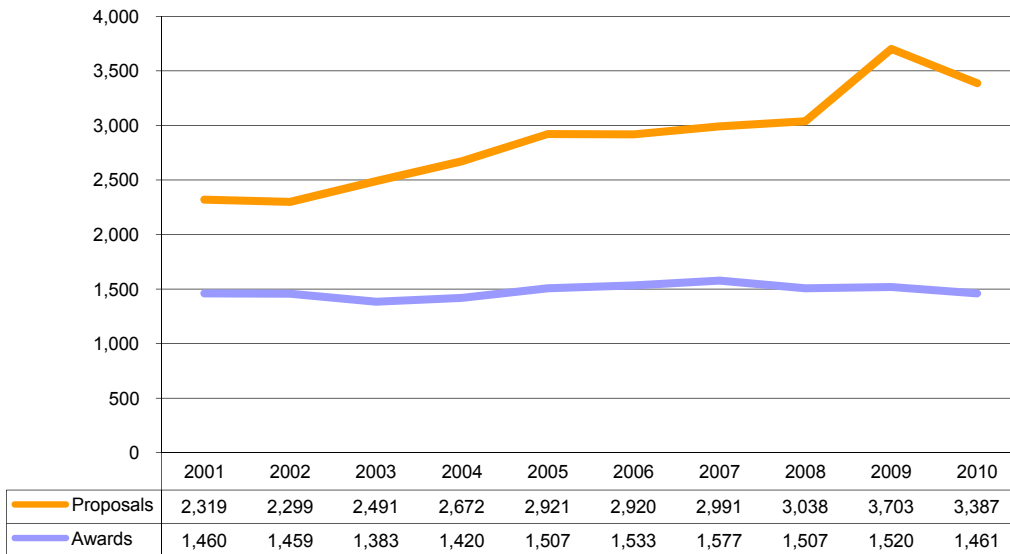
Research Proposals and Awards, Fiscal Year 2010

Funding Overview

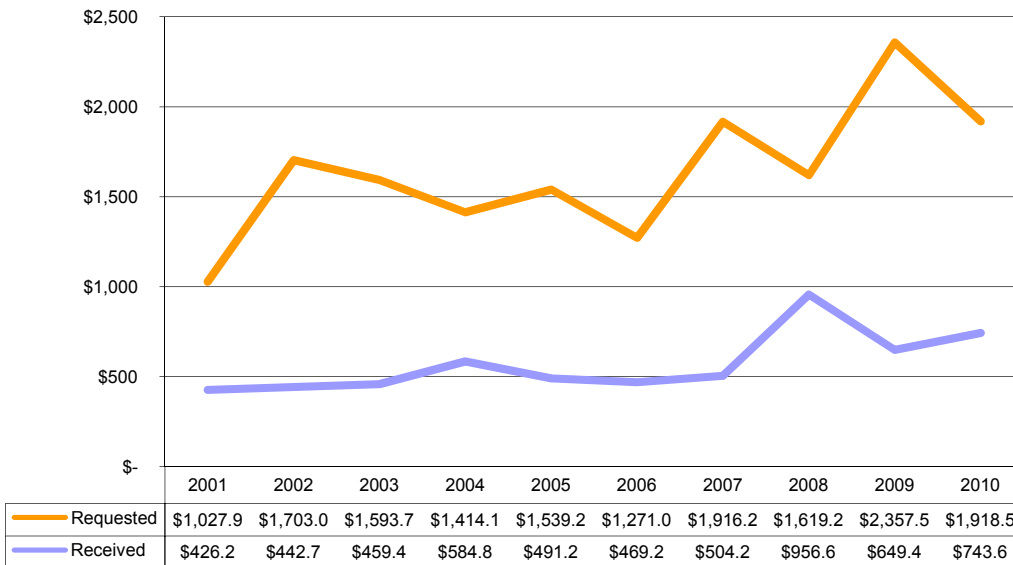
The Research Administration and Compliance Office is pleased to present this annual report on Berkeley’s sponsored research, teaching, and public service for fiscal year 2010, from July 1, 2009 through June 30, 2010. In fiscal year 2010, the Berkeley campus received \$743.6 million in contract and grant awards, an increase of more than 14 percent from the prior year funding of \$649.4 million. One factor contributing to the increase was the American Recovery and Reinvestment Act (ARRA), enacted in 2009, which resulted in \$68.6 million in fiscal year 2010 awards. More information on ARRA funding can be found later in this document.

The campus submitted 3,387 proposals requesting \$1.92 billion in fiscal year 2010, with the number of submissions down 9 percent and the requested funding down 18 percent from the record levels set last year.

Number of Proposals Submitted Compared with Awards Received, FY 2001 - 2010



Funding Dollars Requested Compared with Funding Received, FY 2001- 2010 (dollars in millions)

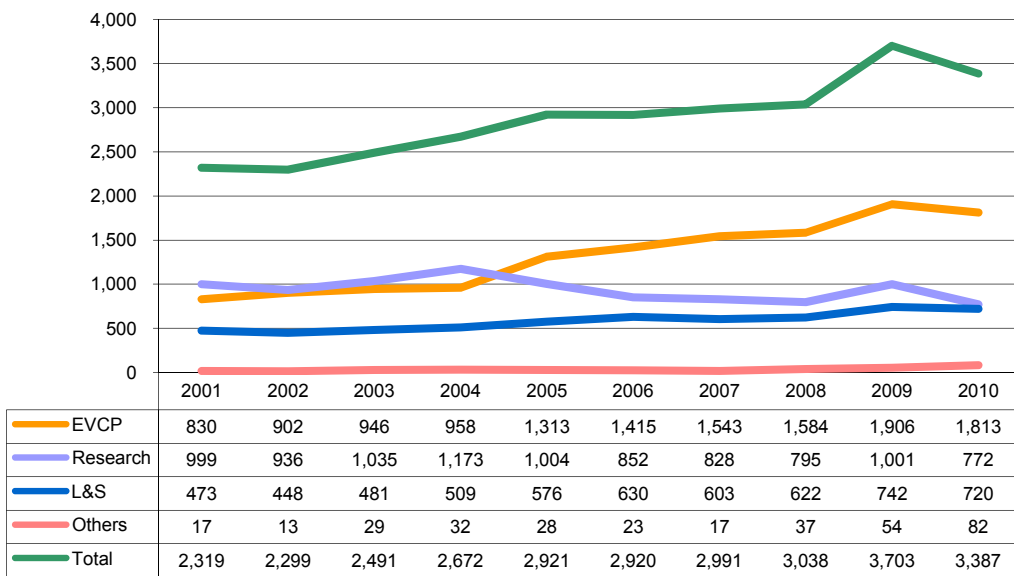


Research Proposals and Awards, Fiscal Year 2010

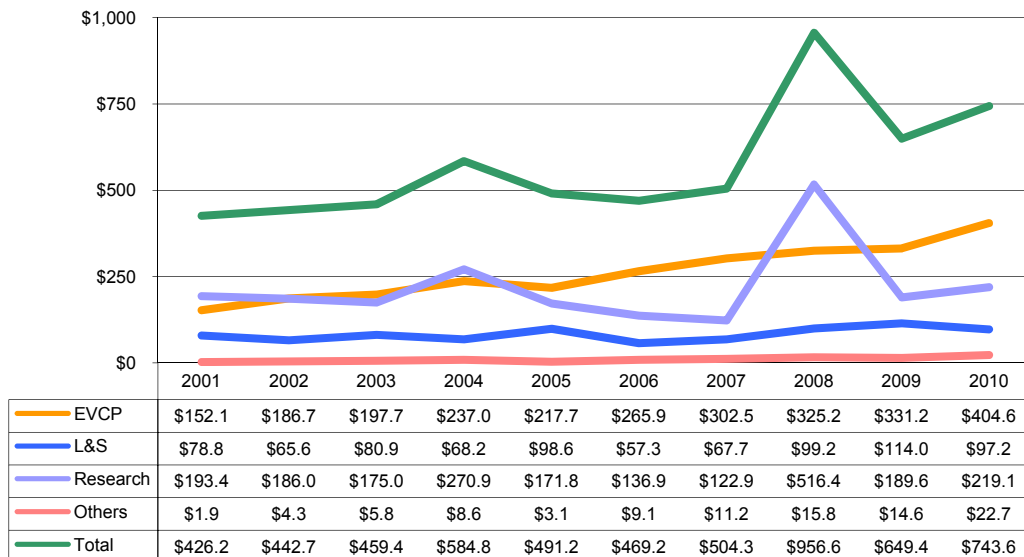
Campus Control Units

The following statistics reflect funding activity for campus control units in fiscal year 2010. 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 2001 - 2010



Ten Year Funding Dollar Summary by Control Unit, FY 2001 - 2010 (dollars in millions)



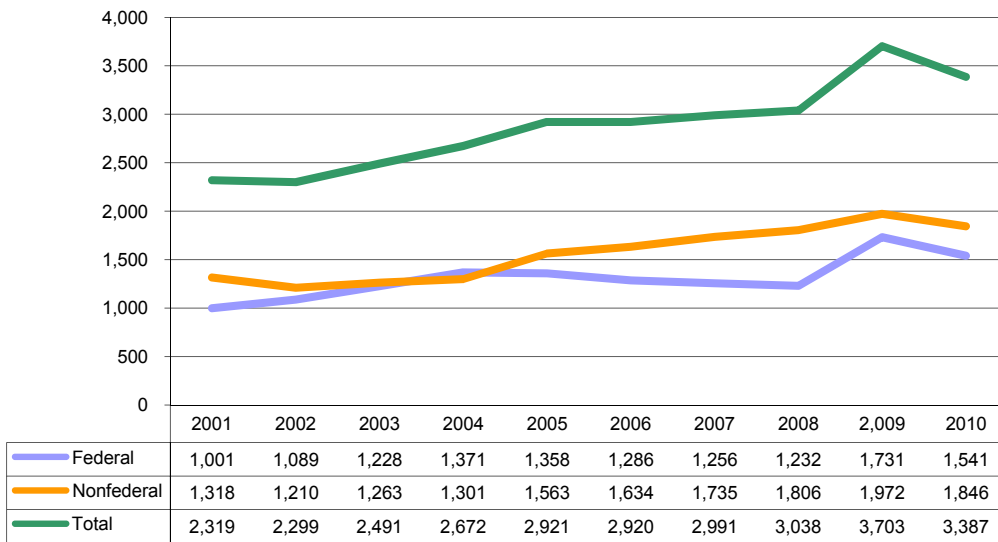
Research Contracts and Grants by Funding Source Overview - All Sponsors

In fiscal year 2010, federal funding once again comprised the largest portion of the total amount received, at 63 percent of the total, up from 50 percent last year. The increase can in part be attributed to ARRA funding.

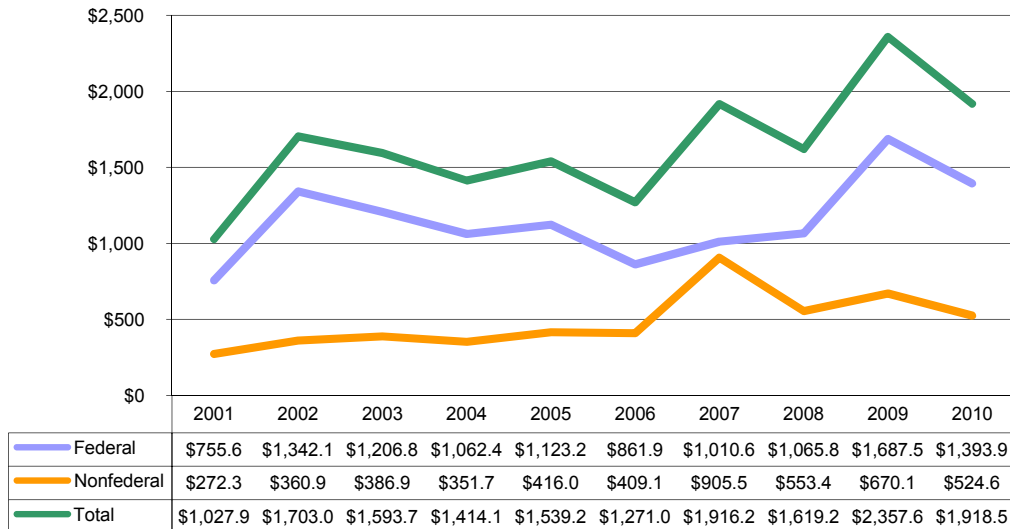
Of the nonfederal funding, \$112.1 million came from non-profit, non-governmental sources, including \$74.9 million from charitable organizations and \$37.2 million from universities outside the UC system. \$39.3 million was awarded by industry sponsors.

Funding from nonfederal governmental sources included \$101.5 million from State of California agencies and \$3 million from foreign governments.

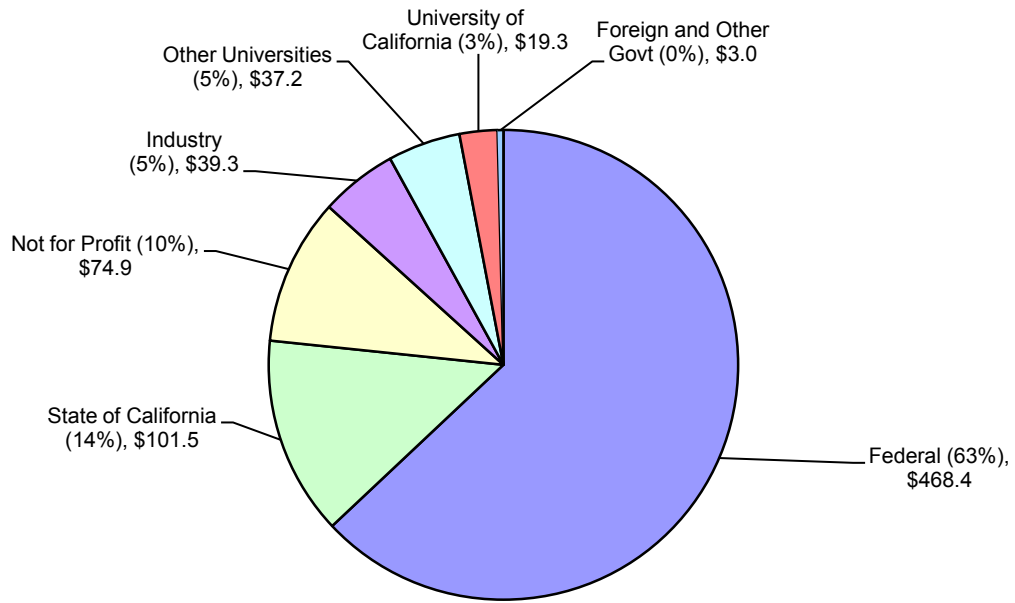
Number of Proposals Submitted by Sponsor Category, FY 2001 - 2010



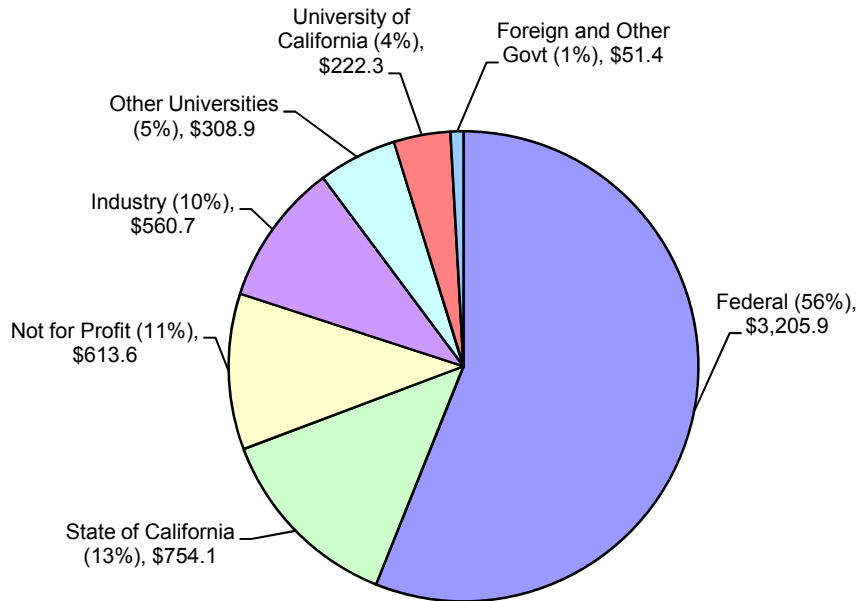
Funding Dollars Requested by Sponsor Category, FY 2001 - 2010 (dollars in millions)



Fiscal Year 2010 Funding Dollars by Sponsor Category
 (\$743.6 million total) (dollars in millions)



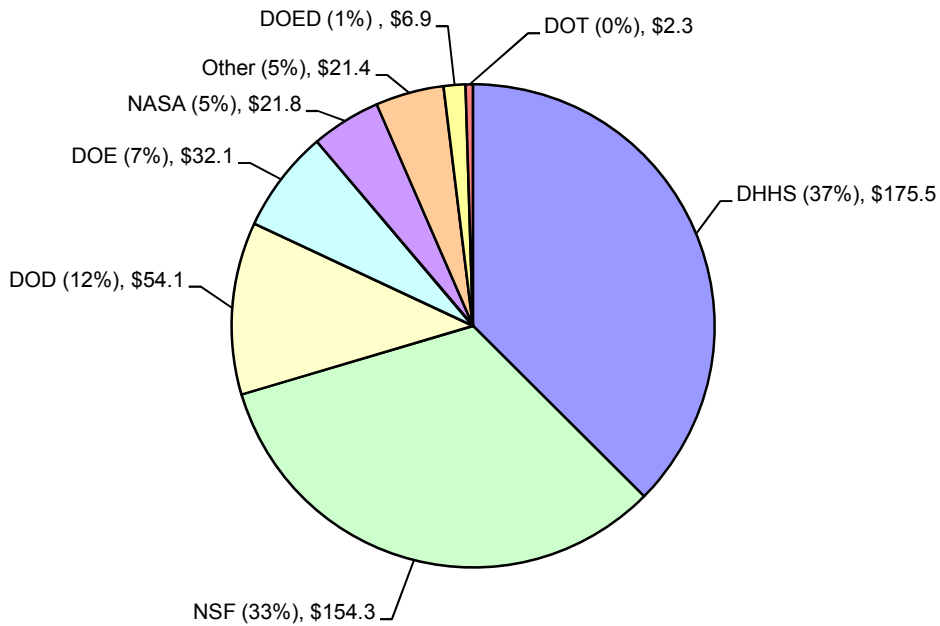
Ten Year Funding Dollar Summary by Sponsor Category, FY 2001 - 2010
 (dollars in millions)



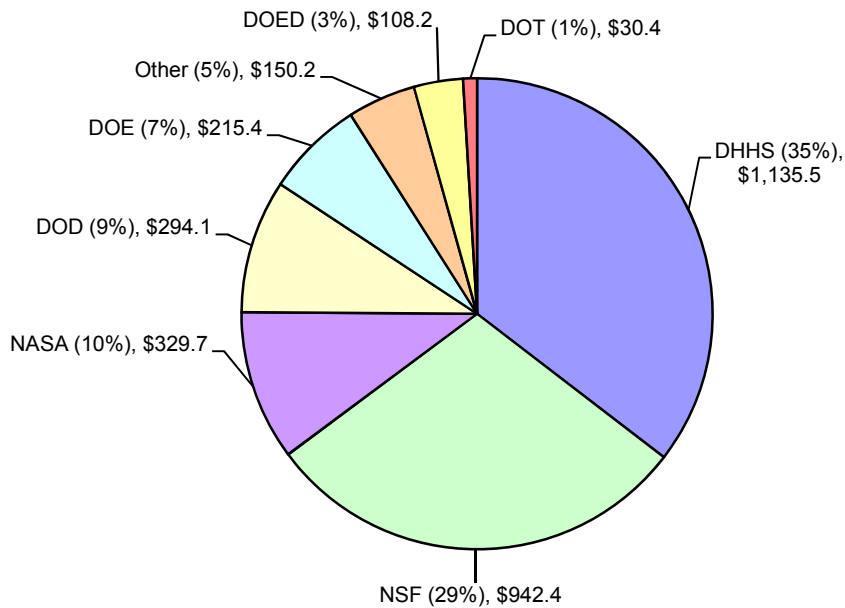
Research Contracts and Grants by Funding Source Federal Agencies

Funding from federal sources totaled \$468.4 million in fiscal year 2010, a 44 percent increase over last year. The Department of Health and Human Services provided \$175.5 million in funding, while the National Science Foundation increased 73 percent from last year's total with \$154.3 million. Most ARRA funding came from the National Science Foundation and the National Institutes of Health. Department of Defense agencies also increased sharply, up 85 percent from last year's \$29.2 million with a total of \$54.1 million, an increase not largely influenced by ARRA.

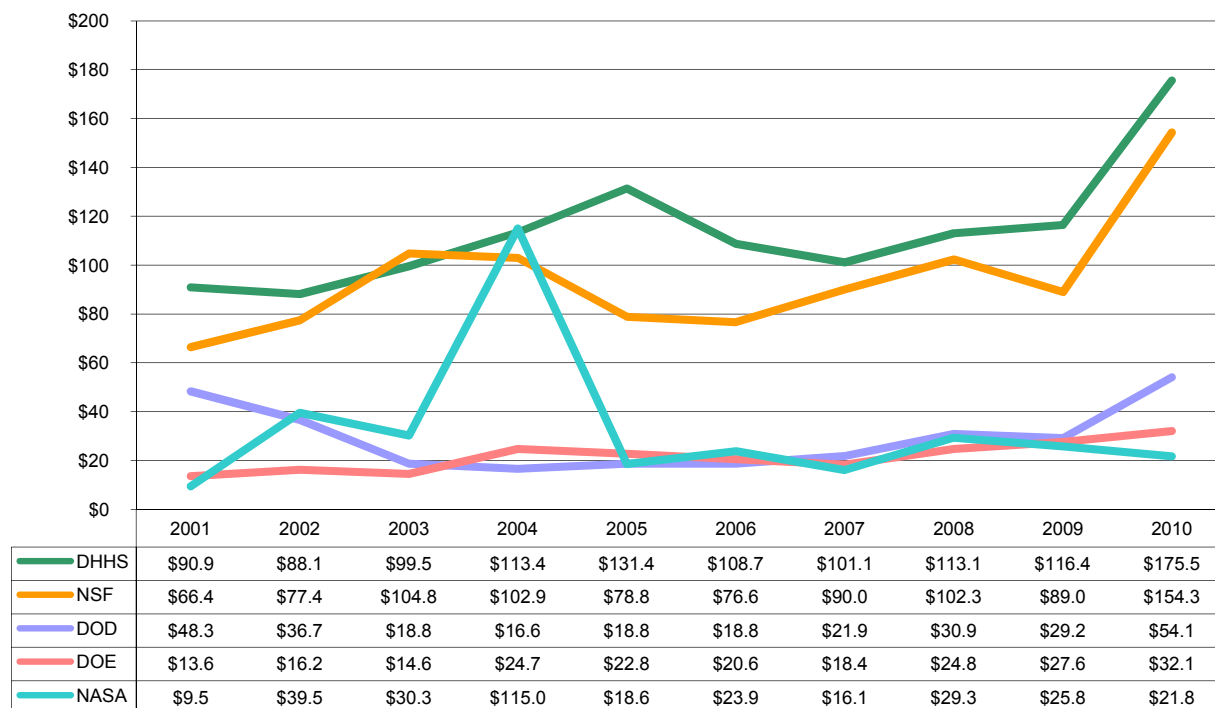
**Fiscal Year 2010 Funding Dollar Summary by Federal Sponsor
(dollars in millions)**



**Ten Year Funding Dollar Summary by Federal Sponsor, FY 2001 - 2010
(dollars in millions)**



Ten-Year Funding Dollar Summary for Top 5 Federal Sponsors, FY 2001 - 2010
(dollars in millions)



American Recovery and Reinvestment Act of 2009 (ARRA)

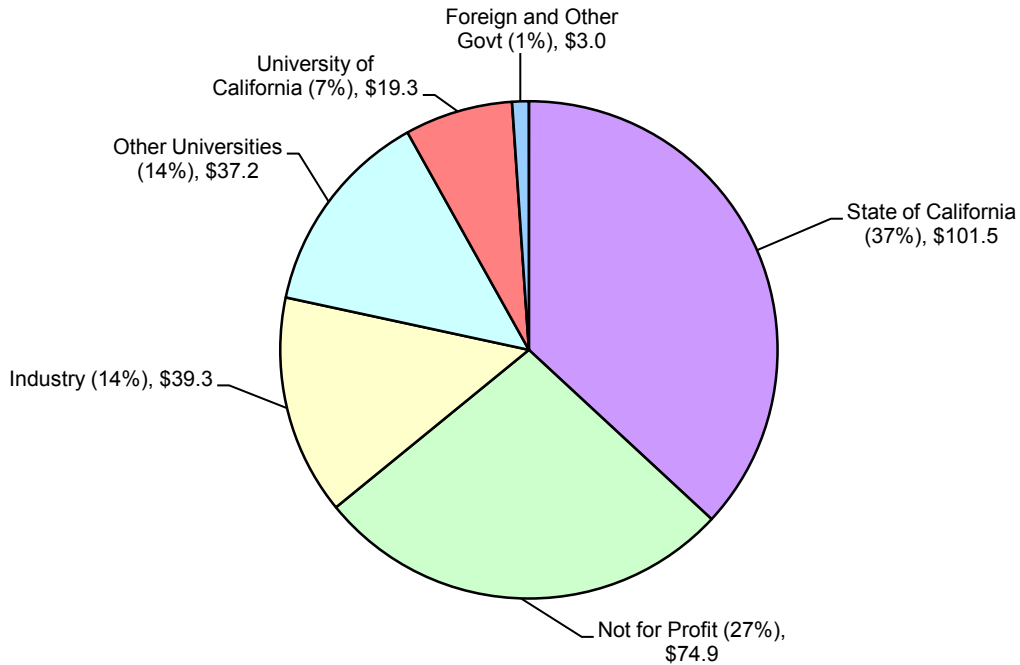
The American Recovery and Reinvestment Act was enacted in February 2009. The campus submitted 61 proposals for ARRA funding in the final months of fiscal year 2009 requesting \$20.7 million. The campus had already received more than \$10 million in ARRA funding by the end of fiscal year 2009.

In fiscal year 2010, the campus submitted proposals requesting \$118.3 million from ARRA-funded programs and received \$68.6 million in funding, bringing the total amount of ARRA funding through June 30, 2010 to \$78.6 million. The amount for fiscal year 2010 includes \$30.3 million from the National Science Foundation, \$24.1 million from the National Institutes of Health, nearly \$2.8 million from other universities, \$1.7 million from DOE National Labs, and \$1.7 million from industry and other nonfederal sponsors. More than \$5 million has been sub-awarded to other organizations to date.

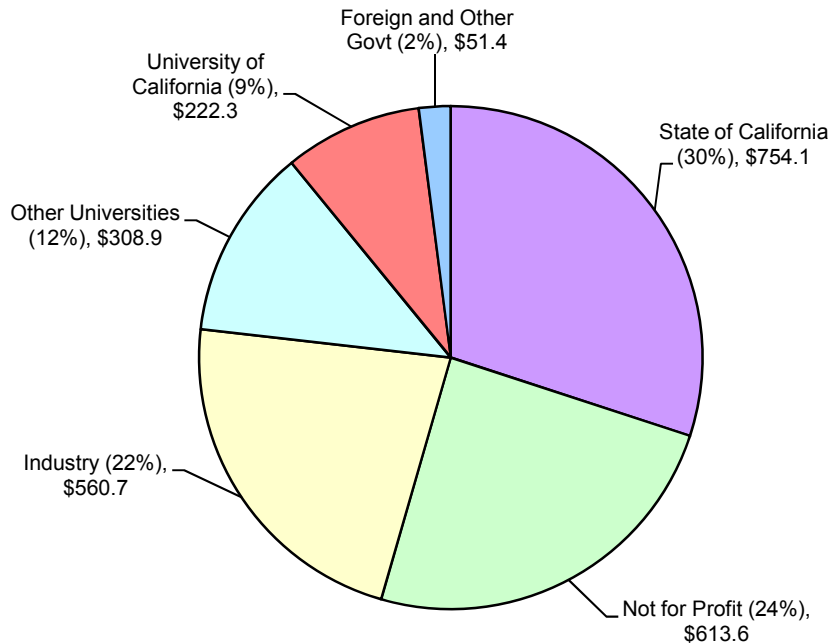
Research Contracts and Grants by Funding Source Nonfederal Agencies

Funding from nonfederal sources totaled \$275.2 million in fiscal year 2010, down 15 percent from last year. Of the \$275.2 million, \$112.1 million came from non-profit, non-governmental sources, including \$74.9 million from charitable organizations and \$37.2 million from universities outside the UC system. \$39.3 million came from industry sources, representing an 80 percent increase from fiscal year 2009.

**Fiscal Year 2010 Funding Dollar Summary by Nonfederal Sponsor
(dollars in millions)**



**Ten Year Funding Dollar Summary by Nonfederal Sponsor, FY 2001 - 2010
(dollars in millions)**



Funding by Sponsor - Five-Year Funding Summary

	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010
Federal					
Agriculture	\$7,884,103	\$3,754,302	\$3,781,047	\$6,143,314	\$6,996,752
Commerce	1,152,614	80,981	809,992	11,486,398	923,739
Defense	18,777,144	21,913,073	30,922,189	29,188,030	54,078,069
Education	14,105,286	22,902,566	7,312,265	8,228,159	6,877,414
Energy	9,111,091	9,065,929	4,197,711	5,525,739	19,342,668
Environmental Protection Agency	1,376,444	76,998	1,003,414	374,921	928,385
Health and Human Services	108,658,599	101,050,776	113,056,292	116,367,931	175,522,394
Interior	1,497,644	1,345,170	1,627,843	1,499,058	6,513,849
National Aeronautics and Space Administration	23,919,907	16,076,459	29,278,087	25,810,247	21,771,876
National Endowments for the Arts and Humanities, Institute of Museum and Library Services	744,744	2,114,073	1,547,996	1,225,119	1,234,191
National Science Foundation	76,605,884	89,959,672	102,286,247	88,983,109	154,295,580
Other	13,277,127	10,640,470	22,864,898	26,971,541	17,590,266
Transportation	2,839,219	3,329,328	3,865,672	3,357,402	2,333,575
Subtotal	279,949,806	282,309,797	322,553,653	325,160,968	468,408,758
Industry					
Foreign Industry	4,797,960	10,331,009	352,975,698	4,453,485	6,165,252
U.S. Industry	10,992,097	21,677,263	31,554,819	17,392,719	33,121,249
Subtotal	15,790,057	32,008,272	384,530,517	21,846,204	39,286,501
Nonfederal Governmental					
Foreign Government Agencies	2,052,874	3,816,745	3,006,848	4,852,570	2,204,657
Local Agencies and Schools	962,771	2,710,522	9,545,104	1,131,942	603,005
Other U.S. Government Agencies	509,138	229,108	240,969	448,379	214,875
State Agencies	85,838,545	64,394,770	78,505,619	145,484,866	101,468,369
Subtotal	89,363,328	71,151,145	91,298,540	151,917,757	104,490,906
Not for Profit					
Foreign Organizations	2,831,678	2,935,529	16,858,767	9,438,823	6,325,592
Other U.S. Organizations	6,822,290	22,025,646	15,855,643	19,934,800	23,259,706
U.S. Foundations and Charities	30,476,500	44,261,339	55,906,970	45,610,004	49,395,803
U.S. Institutes of Higher Education	22,220,748	26,368,727	32,405,088	46,033,446	33,151,952
Subtotal	62,351,216	95,591,241	121,026,468	121,017,073	112,133,053
University of California	21,718,490	23,204,061	37,143,980	29,485,529	19,295,117
Subtotal	21,718,490	23,204,061	37,143,980	29,485,529	19,295,117
Total	\$469,172,897	\$504,264,516	\$956,553,158	\$649,427,531	\$743,614,335

Campus Control Units - Five-Year Funding Summary

Control Unit	Division	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010
Executive Vice Chancellor and Provost (EVCP)						
	BAM/PFA	\$867,613	\$619,337	\$797,501	\$555,630	\$611,709
	Cal Performances/SMA	714,057	288,500	1,324,500	634,000	774,000
	College of Natural Resources	27,080,059	30,820,872	31,063,361	35,411,141	38,270,393
	College of Chemistry	23,357,555	28,834,580	26,611,323	30,039,465	30,269,304
	College of Engineering	66,665,660	78,580,684	121,220,404	94,149,039	146,447,668
	College of Environmental Design	4,207,500	4,800,551	139,511	290,190	10,000
	Division of Undergraduate Education	2,264,364	1,794,528	2,617,393	515,052	2,958,382
	Executive Vice Chancellor and Provost	125,000	514,000		50,000	200,000
	Goldman School of Public Policy	4,224,201	447,471	1,367,291	708,009	687,566
	Graduate Division	16,903,670	16,329,324	17,136,203	17,934,515	10,509,168
	Graduate School of Education	14,942,791	6,302,592	7,019,514	13,381,485	18,446,201
	Haas School of Business	74,700		24,000	45,000	700,246
	International and Area Studies	1,846,387	18,221,153	3,929,824	3,330,837	3,558,878
	School of Information	425,000	40,000	11,700	680,956	1,049,177
	School of Journalism	5,213,994	568,602	3,503,364	1,956,175	700,925
	School of Law	802,500	1,855,000	3,912,692	2,524,773	2,715,798
	School of Optometry	8,586,191	5,608,357	10,090,828	11,021,107	9,035,883
	School of Public Health	43,317,791	56,210,830	40,064,685	38,838,683	87,306,424
	School of Social Welfare	34,996,787	34,948,119	36,978,642	54,332,202	33,599,934
	The Library	1,952,362	2,088,861	1,871,780	7,614,619	1,557,856
	Vice Provost Academic Affairs and Faculty Welfare	5,655,544	12,475,917	15,448,639	17,183,248	14,907,115
	Vice Provost Academic Planning and Facilities	1,650,000	1,112,827	35,440		250,000
Subtotal		265,873,726	302,462,105	325,168,595	331,196,126	404,566,627
College of Letters and Science (L&S)						
	College of Letters and Science		1,000,000		2,330,000	105,000
	Division of Arts and Humanities	883,044	3,134,281	983,113	2,197,496	2,330,266
	Division of Physical Sciences	20,275,756	20,948,673	50,929,750	39,793,403	36,388,966
	Division of Social Sciences	1,844,296	3,048,022	3,241,700	5,930,990	4,544,948
	Biological Sciences	34,068,825	39,606,540	42,033,924	63,768,106	53,839,381
	Undergraduate Division	178,079		2,051,347		6,900
Subtotal		57,250,000	67,737,516	99,239,834	114,019,995	97,215,461

Control Unit	Division	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010
Vice Chancellor - Administration						
	Associate VC - Business and Administrative Services	47,750				
	Associate VC - Health and Human Services	278,651	287,043		509,600	\$1,446,208
	Intercollegiate Athletics Division				500,000	(\$485,000)
	Office of the Vice Chancellor - Administration					\$50,000
	Public Safety			99,487		\$25,000
Subtotal		326,401	287,043	99,487	1,009,600	\$1,036,208
Vice Chancellor - Research						
	VC Administrative Units			2,084,720	3,642,985	778,499
	Other Research Units	35,998,482	38,086,036	59,370,220	82,008,626	112,893,083
	VC Research	2,447,970		5,512,500	(100,000)	82,568
	Museums and Field Stations	5,459,995	4,407,351	1,595,179	3,087,030	3,231,471
	Vice Chancellor for Research ORUs	93,009,356	80,415,176	447,825,735	100,993,121	102,125,211
Subtotal		136,915,803	122,908,563	516,388,354	189,631,762	219,110,832
Vice Chancellor - Student Affairs						
	Admissions and Enrollment	694,166	1,977,415	3,080,573	3,844,994	935,892
	Residential and Student Services Programs		30,000		30,000	1,006,820
	Vice Chancellor - Student Affairs Division	8,112,801	8,861,874	11,068,323	7,344,737	8,924,367
Subtotal		8,806,967	10,869,289	14,148,896	11,219,731	10,867,079
Vice Chancellor for Equity and Inclusion						
	Office of Equity and Inclusion			800,000	1,719,211	568,128
Subtotal				800,000	1,719,211	568,128
Other						
	Capital Projects					
	Information Services & Technology			707,992	631,106	10,250,000
				707,992	631,106	10,250,000
Total		\$469,172,897	\$504,264,516	\$956,553,158	\$649,427,531	\$743,614,335

Largest Awards, Fiscal Year 2010

Lesko, Kevin, Institute for Quantitative Biomedical Research, "Developing the Preliminary Design for the Deep Underground Science and Engineering Laboratory (DUSEL)," National Science Foundation, \$29,092,000

Liphardt, Jan T., Institute for Quantitative Biomedical Research, "Fundamental Mechanobiology of Tumor Progression, National Cancer Institute," \$15,752,908

Zettl, Alex, Berkeley Nanoscience and Nanoengineering Institute, "The Center of Integrated Nanomechanical Systems (COINS) Renewal Years 6-10," National Science Foundation, \$12,000,000

Buffler, Patricia A., School of Public Health, "Childhood Leukemia and Environmental Exposures," National Institute of Environmental Health Sciences, \$11,376,881

Denton, Edward J., Capital Projects, "California Solar Initiative (CSI) Research Development and Deployment (RD&D) Program," Pacific Gas and Electric Company, \$10,000,000

Rabaey, Jan M., Engineering Research Support Organization, "Multi-Scale Systems Center," MARCO Microelectronics Advanced Research Corporation, \$9,457,500

Szeri, Andrew J., Graduate Division, "Graduate Research Fellowship Program," National Science Foundation, \$5,004,250

Tomlin, Claire, Engineering Research Support Organization, "Large: CPS: Action Webs," National Science Foundation, \$4,983,007

Backer, Donald C., Radio Astronomy Laboratory, "Collaborative Research: Astronomy with CARMA," National Science Foundation, \$4,207,336

Eskenazi, Brenda, School of Public Health, "Center for Children's Environment Health Research," National Institute of Environmental Health Sciences, \$4,160,551

Buffler, Patricia A., School of Public Health, "Center for Integrative Research on Childhood Leukemia and the Environment," National Institute of Environmental Health Sciences, \$3,805,107

Romanowicz, Barbara A., Berkeley Seismological Laboratory, "Operation of the Northern California Earthquake Management Center, and the UC Berkeley Seismic Networks," U.S. Geological Survey, \$3,687,419

Linn, Marcia C., Graduate School of Education, "Visualizing to Integrate Science Understanding for All Learners (VISUAL)," National Science Foundation, \$3,499,553

Lee, Ronald D., Institute of Business and Economic Research, "Center on the Economics and Demography of Aging," National Institute on Aging, \$3,453,518

Eskenazi, Brenda, School of Public Health, "DDT and PBDE Exposure, Puberty Onset and Neurodevelopment in Mexican American Girls," National Institute of Environmental Health Sciences, \$3,285,313

Full, Robert J., Integrative Biology, "IGERT: Biological and Bio-Inspired Motion Systems Operating in Complex Environments," National Science Foundation, \$3,195,091

Vujic, Jasmina L., Nuclear Engineering, "California - Berkeley Fellowship and Scholarship Support," U.S. Department of Energy, \$3,000,000

Halversen, Catherine, Lawrence Hall of Science, "Communicating Ocean Sciences Informal Education Network," National Science Foundation, \$2,871,694

Wawrzynek, John, Engineering Research Support Organization, "TAS::89 0227::TAS Recovery Act - Accelerating Science Driven System Design with RAMP," U.S. Department of Energy, \$2,670,000

Kirby, Robion C., Center for Pure and Applied Mathematics, "EMSW21-RTG: Geometry, Topology and Operator Algebras," National Science Foundation, \$2,349,360

Kaufer, Daniela, Integrative Biology, "Identification and Prevention of Developmental Myelin Misregulation in PTSD," National Institute of Mental Health, \$2,274,245

Buffler, Patricia A., School of Public Health Dean's Office, "Childhood Leukemia and Home Environmental Exposures," National Institute of Environmental Health Sciences, \$2,272,128

Meyer, Barbara J., Molecular and Cell Biology, "Analysis of Nematode Sex Determination," National Institute of General Medical Sciences, \$2,236,803

Schlissel, Mark, Molecular and Cell Biology, "Biochemistry and Regulation of V(D)J Recombination, National Institute of Allergy and Infectious Diseases," \$2,224,551

- Rine, Jasper D., Institute for Quantitative Biomedical Research, "Genetic Analysis of Genes Controlling a Position Effect," National Institute of General Medical Sciences, \$2,203,151
- Block, Gladys, School of Public Health, "Obesity, Inflammation, and Oxidative Stress," National Institute of Diabetes and Digestive and Kidney Diseases, \$2,157,918
- Bustamante, Carlos J., Institute for Quantitative Biomedical Research, "Mechanisms of Viral DNA Packaging," National Institute of General Medical Sciences, \$2,072,952
- Lipman, Timothy E., Institute of Transportation Studies, "Pacific Region Clean Energy Application Center," U.S. Department of Energy, \$2,030,000
- Bertozi, Carolyn R., Chemistry Department, "UCB Chemistry-Biology Interface Training Program," National Institute of General Medical Sciences, \$1,915,492
- Matsui, John, Integrative Biology, "The UC Berkeley Graduate/Undergraduate IMSD Program - An Integrated Approach," National Institute of General Medical Sciences, \$1,884,281
- Kramer, Richard H., Molecular and Cell Biology, "Optical Studies of the Cone Photoreceptor Synapse," National Eye Institute, \$1,882,254
- Bishop, Sonia, Helen Wills Neuroscience Institute, "Neurocognitive Mechanisms of Trait Vulnerability to Human Anxiety," National Institute on Deafness and Other Communication Disorders, \$1,878,395
- Raulet, David, Molecular and Cell Biology, "Expression of Class I Specific Receptors in NK Cells," National Institute of Allergy and Infectious Diseases, \$1,863,718
- Healy, Kevin E., Institute for Quantitative Biomedical Research, "Enabling Technologies for hES Cell Self-Renewal," National Heart, Lung, and Blood Institute, \$1,789,334
- Pisano, Albert P., Engineering Research Support Organization, "Harsh Environment Silicon Carbide Sensor Technology for Geothermal Instrumentation," U.S. Department of Energy, \$1,777,617
- Olshausen, Bruno, School of Optometry, "Collaborative Research: Neural Population Coding of Dynamic Natural Scenes," National Eye Institute, \$1,726,284
- Guendelman, Sylvia R., School of Public Health, "Training in Maternal and Child Health," Health Resources and Services Administration, \$1,725,000
- Robertson, Lynn C., Institute for Personality and Social Research, "Attentional Processing in Face Perception," National Institute of Mental Health, \$1,667,938
- Tjian, Robert, Molecular and Cell Biology, "SV40 Tumor Antigen," National Cancer Institute, \$1,646,154

Honors to Individual Faculty, Fiscal Year 2010

ACM-Infosys Foundation Award in the Computing Sciences

Eric Brewer, Electrical Engineering and Computer Sciences

American Academy of Arts and Sciences

Ruth Collier, Political Science
 David Drubin, Molecular and Cell Biology
 Neil Fligstein, Sociology
 Richard Harlan, Molecular and Cell Biology
 Carla Hesse, History
 Geoffrey Marcy, Astronomy
 Richard Muller, Physics
 Emmanuel Saez, Economics
 Maciej Zworski, Mathematics

American Association for the Advancement of Science

W. Zacheus Cande, Molecular and Cell Biology
 Donald DePaolo, Earth and Planetary Science
 Jeffrey Reimer, Chemical Engineering
 Yuen-Ron Shen, Physics

Honors to Individual Faculty, Fiscal Year 2010 (continued)

American Philosophical Society

Leslie Kurke, Classics and Comparative Literature

John Searle, Philosophy

Heinz Award

Ashok Gadgil, Civil and Environmental Engineering

Kirk Smith, Environmental Health Sciences

John Simon Guggenheim Memorial Foundation Fellows

Leon Chua, Electrical Engineering and Computer Sciences

Rosemary Joyce, Anthropology

Gregory Levine, History of Art

Dawn Song, Electrical Engineering and Computer Sciences

R. Jay Wallace, Philosophy

Lemelson-MIT Prize

Carolyn Bertozzi, Chemistry

The John D. and Catherine T. MacArthur Foundation MacArthur Fellow

Maneesh Agrawala, Electrical Engineering and Computer Sciences

Lin He, Molecular and Cell Biology

National Academy of Sciences

Alexis Bell, Chemical Engineering

Michael Jordan, Electrical Engineering and Computer Sciences and Statistics

David Aldous, Statistics (foreign associate of the National Academy of Sciences)

National Academy of Engineering

Lisa Alvarez-Cohen, Civil and Environmental Engineering

Eugene Haller, Materials Science and Engineering

Michael Jordan, Electrical Engineering and Computer Sciences and Statistics

Jay Keasling, Chemical Engineering and Bioengineering

Arthur Rosenfeld, Physics

Xiang Zhang, Mechanical Engineering

Nobel Prize in Economics

Oliver Williamson, Business, Economics and Law (shared with Elinor Ostrom, Indiana University)

David and Lucile Packard Foundation Fellowship in Science and Engineering

Holger Mueller, Physics

Pew Scholars in the Biomedical Sciences

Diana Bautista, Molecular and Cell Biology

Presidential Early Career Award for Scientists and Engineers (PECASE)

Sanjay Kumar, Bioengineering

Alfred P. Sloan Foundation Research Fellows

Thomas Griffiths, Electrical Engineering and Computer Sciences

Amy Herr, Bioengineering

Ali Javey, Electrical Engineering and Computer Sciences

Ulrike Malmendier, Economics

Holger Mueller, Physics

Adam Szeidl, Economics