



# Funding Resources

Office of Research, University of California, Santa Barbara

May/June 2009

## Campus & Agency News

The Research Development unit of the Office of Research at the University of California, Santa Barbara publishes *Funding Resources*.

It is distributed by electronic subscription to interested faculty, researchers, students, and staff with campus e-mail addresses.

*Funding Resources* also appears in PDF format on the Office of Research website <http://research.ucsb.edu/> under "Research Development" then "Funding Opportunities" or go directly to [http://www.research.ucsb.edu/resources/funding\\_resources\\_newsletter.shtml](http://www.research.ucsb.edu/resources/funding_resources_newsletter.shtml).

Research Development maintains information on a variety of funding programs in order to assist UCSB researchers and staff in seeking extramural funds for research, training, and public-service projects.

Copies of announcements or application forms may be obtained from the Office of Research at ext. 8891 or [funding@research.ucsb.edu](mailto:funding@research.ucsb.edu). Newsletter items list sponsor contact information. You are encouraged to discuss your project with the agency prior to submission.

### RESEARCH DEVELOPMENT CONTACTS

- Carla Whitacre, Director, Research Development  
[whitacre@research.ucsb.edu](mailto:whitacre@research.ucsb.edu) or 893-3925
- Barbara Walker, Director, Social Science Research Development  
[blewalker@isber.ucsb.edu](mailto:blewalker@isber.ucsb.edu) or 893-3576
- Marcia Meier, Research Communications Coordinator  
[meier@research.ucsb.edu](mailto:meier@research.ucsb.edu) or 893-7345
- Jackie Hunt, Officer, Research Development  
[funding@research.ucsb.edu](mailto:funding@research.ucsb.edu) or 893-8891

### Contents

Campus & Agency News	1
Program Information	4
UC Programs	4
NSF	5
NIH	8
Defense	8
Other Federal Agencies	9
Private/Nonprofit/International	12
Contract and Grant Awards	14

### Profiles in Research 2008 Now Available!

The 2008 annual report of the Office of Research is hot off the presses and chock-full of intriguing stories about research conducted at UCSB. Efforts to determine how significantly naturally produced gases such as carbon dioxide and methane in the lowland Amazon basin are contributing to atmospheric changes like global warming, research into the cell changes that lead to diabetes, inquiry into how best to apply the law based on neuroscience research—all these stories and more are in the latest issue of *Profiles in Research*.

"UCSB research is advancing human knowledge and understanding across a remarkable range of disciplines. This research enhances the education that we provide our students as it benefits global society," Vice Chancellor for Research Michael Witherell says.

In addition to highlighting a number of important collaborative research projects funded in fiscal year 2008, the report includes a "state of the research" assessment by Vice Chancellor Witherell; faculty honors and awards; intellectual property news; undergraduate research involvement; and statistics on research funding and its sources. There is also a complete list of all UCSB research units, institutes, and centers.



Faculty and staff always find the report useful, as do new and prospective faculty members; potential graduate students and selected undergraduates; our governmental representatives, friends of the university and potential donors; and campus visitors ranging from conference delegates to agency representatives.

A limited number of reports have been sent in campus mail. For additional copies, please contact Marcia Meier at 893-7345 or e-mail her at [meier@research.ucsb.edu](mailto:meier@research.ucsb.edu). Or read the downloadable report online at [http://www.research.ucsb.edu/pubs/annual\\_reports.shtml](http://www.research.ucsb.edu/pubs/annual_reports.shtml).

### UCOP Releases Federal Stimulus Opportunities Web Site

A new Web site from the University of California, <http://www.universityofcalifornia.edu/economicstimulus/>, provides information on the American Recovery and Reinvestment Act of 2009, including resources for compliance with ARRA regulations, and a listing of ARRA funding opportunities by agency.

The site also includes links to UC-related stimulus news, such as the recent award made to UCSB's Institute for Energy Efficiency, which is slated to receive \$19M over five years as one of 46 new Energy Frontier Research Centers (EFRC) funded by the Department of Energy.

UCSB-specific information and ARRA updates can be found on the Office of Research site <http://www.research.ucsb.edu/news/stimulus.shtml>.

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### **eRA Commons and eSubmissions Unavailable May 22-26**

To ensure continued system stability, eRA is embarking on a massive \$2 million to \$3 million infrastructure upgrade that will replace its two large database servers, change the operating system on the new servers, change its database version, and replace three Storage Area Network (SAN) servers.

The upgrade will take place over the Memorial Day weekend and will require a five-day downtime.

- Beginning Friday, May 22 at 12:01 am EST and lasting through Tuesday, May 26, all eRA systems, including eRA Commons and the eSubmission system, will be unavailable.
- NIH staff will also not have any access to the eRA Commons, eSubmission or any other eRA system during the shutdown.
- Applicants can continue submitting applications to Grants.gov during this downtime.
- Applications submitted during the downtime will be queued up at NIH for the eRA eSubmission system to process once the systems are up and running on Wednesday, May 27.

Following the upgrade, users should experience improved application performance and system stability, better fail-over capabilities in the event of hardware failure, and a system with the capacity to absorb growth of up to 16 times the current capacity, paving the way for future expansion of eRA Commons

Suggestions and questions can be sent to the eRA Helpdesk; 301-402-7469 or [helpdesk@od.nih.gov](mailto:helpdesk@od.nih.gov)

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### **NIH Public Access Policy Made Permanent**

In accordance with the Omnibus Appropriations Act of 2009, the NIH Public Access Policy remains a legislative mandate for FY2009 and beyond:

"The Director of the National Institutes of Health ("NIH") shall require in the current fiscal year and thereafter that all investigators funded by the NIH submit or have submitted for them to the National Library of Medicine's PubMed Central an electronic version of their final, peer-reviewed manuscripts upon acceptance for publication, to be made publicly available no later than 12 months after the official date of publication:

Provided, that the NIH shall implement the public access policy in a manner consistent with copyright law."

For more information, including best practices for how to comply with this requirement, see the NIH Public Access Policy Website: <http://publicaccess.nih.gov/>.

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### **Technical Assistance Workshop for the NIH Bridges to the Baccalaureate Program – June 19**

NIH will conduct a Technical Assistance Workshop for Bridges to the Baccalaureate Program Directors, potential Program Directors, and others who have an interest in and intend to submit a new, revised, or renewal application for the Bridges to the Baccalaureate program.

The purpose is to inform applicants of changes and to offer guidance about the program prior to the next submission dates of September 18, 2009 and January 20, 2010. The workshop is scheduled for Friday, June 19, 2009 from 8:30 am-4:30 pm in the Natcher Building, Conference Room E1/E2 on the NIH campus in Bethesda, MD.

In order to participate in the workshop, teams of at least two individuals from each invited institution are required. Teams should consist of the prospective Program Director and an institutional official at the level of Dean or higher.

The most recent solicitation is available at <http://grants1.nih.gov/grants/guide/pa-files/PA-07-411.html>.

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### **Campus Honors and Awards**

- **John Bowers**, director of the Multidisciplinary Optical Switching Technology Center and professor of electrical and computer engineering, has received the Optical Society of America's Nick Holonyak, Jr. Award in recognition of his fundamental and technological advances in active hybrid silicon photonic devices including lasers, modulators, amplifiers and silicon-based active photonic integrated circuits.
- **Oliver Chadwick**, professor and chair of geography, has been elected a fellow of the American Association for the Advancement of Science (AAAS).
- **John-Pierre Fouque**, director of the Center for Research in Financial Mathematics and Statistics and professor emeritus of statistics and applied probability, has been elected chair of the Society for Industrial and Applied Mathematics' Activity Group on Financial Mathematics and Engineering.
- **Catherine Gautier**, professor of geography, has received the Atmospheric Science Librarians International Choice Honorable Mention for her 2008 book, "Facing Climate Change Together."
- **Pekka Hämäläinen**, associate professor of history, has been awarded the Bancroft Prize from Columbia University for his 2008 book, "The Comanche Empire."
- **Craig Hawker**, director of the Materials Research Lab and professor of materials, was awarded a Special Grant in the Chemical Sciences from the Camille and Henry Dreyfus Foundation for his research project, "Materials Research Facilities: A National Research and Education Resource for the STEM Disciplines."
- **Donald Janelle**, director of the Center for Spatially Integrated Social Science and professor emeritus, University of Western Ontario, has been selected to receive the Ronald F. Abler Honors for Distinguished Service to the Association of American Geographers for 2009.
- **Fred Lange**, professor of materials, has received the W. David Kingery Award from the American Ceramics Society in honor of his research achievements on the properties of structural ceramics and their composites.
- **David Marshall**, executive dean of the College of Letters and Science, has been elected to the board of directors of the National Humanities Alliance (NHA).

- **Lorraine McDonnell**, professor of political science, has been elected to the National Academy of Education.
- **Stanton Peale**, professor emeritus of physics, has been elected to the National Academy of Science.
- **David Siegel**, professor of geography, has been elected a Fellow of the American Association for the Advancement of Science (AAAS).
- **Todd Squires**, assistant professor of Chemical Engineering, has been awarded the Camille Dreyfus Teacher-Scholar Award for his work, "Dynamic effects at physico-chemical interfaces."
- **Matthew Tirrell**, dean of the College of Engineering, and professor of chemical engineering and materials, has been elected a Fellow of the American Academy of Arts and Sciences.
- **Walter Yuen**, professor of mechanical engineering, has been elected a Fellow of the American Society of Mechanical Engineering.

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#### Sponsored Projects Training for Administrators in Research (STAR)

Developed by the Office of Research, STAR, the Sponsored Projects Training for Administrators in Research program is designed for employees with duties and responsibilities related to contract and grant administration. Participants are welcome to take one or several courses in areas of particular interest to them—or they may opt to earn a certificate.

The program offers 11 required courses, which are provided in two series. Track A is offered from September through June. Track B is offered February through August. Classes meet in the Marine Sciences Building Auditorium (MSB 1302). For more information please visit [www.research.ucsb.edu/s\\_p/sp\\_class\\_schedule.shtml](http://www.research.ucsb.edu/s_p/sp_class_schedule.shtml) or e-mail [training@research.ucsb.edu](mailto:training@research.ucsb.edu).

#### Business Contracts and Subawards—Required (3 hours)

This course focuses on how to determine the difference between subawards and business contracts, the process for establishing both types of agreements. Sponsored Projects will cover the process of how to propose, establish, maintain, modify and close a subaward. Business Services will present on topics pertinent to planning conferences and events, business contracts, personal service agreement, facility use permits, and university insurance requirements. (Track B) **Thursday, May 21, 2009; 9:00am-12pm**

#### Working with Industry and Intellectual Property—Required (3 hours)

This course focuses on the unique challenges of working with the industrial sector and the tools available at the University to facilitate that work. Topics covered are research agreements, gifts, material transfer agreements, confidentiality agreements, consulting, basic intellectual property, and related UC policies. This course will also provide an opportunity to take a more in-depth look at intellectual property. The course will cover the basic principles of intellectual property as well as the characteristics of patents, copyrights, trademarks, and trade secrets. The course will also provide an overview of the technology transfer process at UCSB. (Tracks A & B) **Thursday, June 4, 2009; 9:00am-12:00noon**

#### Negotiation and Acceptance of Awards and Gifts—Required (3 hours)

This course provides insight into some of the problematic provisions in research awards, and also gives an overview of the various actions and issues that arise during the period between the submission of a proposal and the award of a contract or grant, and covers the roles of the key players of the University and the Sponsors. Denial and withdrawal of proposals, pre-award costs, revised budgets, requests for approvals to spend (RAS), content of award terms, campus award processing, and the UCSB award synopsis are all topics explored in this course. Identifying the differences between gifts and grants will also be discussed. (Track B) **Thursday, June 18, 2009; 9:00am-12:00pm**

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#### Limited Submission Deadlines

The Office of Research administers the campus selection process for most limited submission grants competitions. These programs restrict the number of applications, nominations, or proposals that an institution can submit to an agency and require that the campus screen pre-proposals or nominations to determine which will go forward to the sponsor. They are typically due to the Office of Research two months prior to the agency deadline. If fewer submissions than the eligible number are received for the campus deadline, approval to apply may be granted on a first come first served basis.

More information about specific programs and campus procedures can be found at [http://www.research.ucsb.edu/resources/limited\\_submissions.shtml](http://www.research.ucsb.edu/resources/limited_submissions.shtml).

Programs with upcoming campus deadlines include:

- National Science Foundation Instrumentation for Materials Research—Campus notice of intent (*required*) 5/18/09; Agency proposal deadline 6/29/09
- NIH NCMHD Community Participation in Health Disparities Intervention Research Planning Phase—Campus pre-proposal (*required*) 5/29/09; Agency application deadline 6/30/09
- NSF MRI-R<sup>2</sup>—Campus notice of intent (*required*) 6/3/09; Campus pre-proposal (*required*) 6/10/09; Agency proposal deadline 8/10/09
- NSF Academic Research Infrastructure Program: Recovery and Reinvestment (ARI-R<sup>2</sup>)—Campus concept paper (*required*) 6/8/09; Agency Letter of Intent deadline 7/1/09; Agency proposal deadline 8/24/09

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#### New Publications Available for Viewing

- [2008 Annual Report](#), Burroughs Wellcome Fund
- [AAAS Pacific Division Newsletter April 2009](#), American Association for the Advancement of Science
- [American Recovery and Reinvestment Act of 2009 Terms and Conditions](#), National Science Foundation
- [InfoBrief January 2009](#), National Science Foundation
- [Issues in Science and Technology Spring 2009](#), National Academy of Sciences
- [NRS Transect Spring/Summer 2009](#), UC Natural Reserve System
- [Succeed Newsletter Spring 2009](#), Grants.gov

**Helpful Hints**

- Program announcements are organized by funding agency and then by deadline.
- **Limited submission programs** restrict the number of applications, nominations, or proposals an institution can submit to an agency. These programs require that the campus screen pre-proposals or nominations to determine which will go forward to the sponsor and are typically due to the Office of Research two months prior to the agency deadline. If you are interested in applying, please contact Carla Whitacre, Director of Research Development, at ext. 3925, well in advance of deadline. A list is available on our website at: [http://www.research.ucsb.edu/resources/limited\\_submissions.shtml](http://www.research.ucsb.edu/resources/limited_submissions.shtml).
- In order to provide a full and complete review, Sponsored Projects in the Office of Research must receive proposals at least four full working days prior to funding agency deadlines.
- Requests for institutional cost sharing should be submitted to the appropriate dean(s) at least one month before the agency deadline.

**UNIVERSITY OF CALIFORNIA & STATE OF CALIFORNIA**

5-22-09 Notice of Intent

6-22-09 Proposal

**UC Discovery Grant**

UC Industry-University Cooperative Research Program

Discovery Grants promote partnerships between UC researchers and California-based industries via matching grants. The latest call incorporates micro-electronics innovation and computer research (MICRO), along with expanded industry sponsor eligibility criteria that provide greater flexibility for non-California companies seeking to sponsor research, and a new seed funding mechanism. Solicited research fields include: biotechnology; communications and networking; digital media and internet enabled services; electronics design, manufacturing, and new materials; energy, environment, and cleantech; health and wellness; information technology for life sciences; microelectronics innovation and computer research; and nanotechnology.

URL: [http://www.ucdiscovery.org/pdf/Spring\\_2009\\_RFP.pdf](http://www.ucdiscovery.org/pdf/Spring_2009_RFP.pdf).Contact: [grantinfo@ucdiscoverygrant.org](mailto:grantinfo@ucdiscoverygrant.org)

6-1-09 and 10-5-09 Small Grants

6-1-09 and 12-7-09 Student and Postdoc Grants

**UC MEXUS Small Grants****Support for UC Graduate Student and Postdoc Activities**

University of California Institute for Mexico and the United States (UC MEXUS), UC Riverside

In addition to its regular Small Grants program for faculty and researchers next due June 1 ([http://www.ucmexus.ucr.edu/funding/grant\\_small.html](http://www.ucmexus.ucr.edu/funding/grant_small.html)), UC MEXUS is offering a new program to support UC graduate student and postdoctoral researcher activities in all disciplines related to academic exchange, research training, and scholarly development in areas of interest: Mexico-related studies in all academic fields from the sciences to the arts, Latino Studies, and critical issues of common concern to the United States and Mexico. Proposals are encouraged for small short-term projects of one week to six months that will advance the applicants' projects, research training, or academic understanding of their fields. Up to \$1,500 is available for a one-year period.

URL: [http://www.ucmexus.ucr.edu/funding/grant\\_small\\_studentpostdoc.html](http://www.ucmexus.ucr.edu/funding/grant_small_studentpostdoc.html).Contact: Andrea Kaus, 951/827-3586 or [andrea.kaus@ucr.edu](mailto:andrea.kaus@ucr.edu)

6-1-09

**UCSB Central Coast Survey 2009/2010**

Social Science Survey Center, UC Santa Barbara

The SSSC is seeking faculty proposals for its annual survey of Santa Barbara and Ventura counties. The successful proposal will specify the central focus and topic of interest for this year's survey. Sponsored by the Division of Social Sciences at UCSB, the study will be fielded as a random digit dialing telephone survey of a representative sample of the local population. All the costs for calling, programming, sampling, along with technical consulting will be covered by the SSSC. The successful ladder faculty applicant will receive the equivalent of an approximately \$50,000 research grant.

URL: <http://www.isber.ucsb.edu/ccs>.

Contact: Paolo Gardinali 805/893-5213 or

[ssscinfo@survey.ucsb.edu](mailto:ssscinfo@survey.ucsb.edu)

6-26-09

**Collaborative Research Initiative Grant (C-RIG)**

Institute for Social, Behavioral, and Economic Research (ISBER), UC Santa Barbara

Research grants of up to \$5K are available to enrich the quality of collaborative research in the social sciences at UCSB. Awards will support research groups in the first stages of extramural grant development and may be

used in a variety of ways to facilitate group discussion and grant development. Proposed research using any of the methodological or theoretical paradigms within the social sciences and humanistic social sciences is welcome. All ladder rank faculty members in the social sciences are encouraged to submit, and proposals may include additional faculty and professional researchers from other divisions.

URL: <http://www.isber.ucsb.edu/crig>.

Contact: Barbara Walker, 805/893-3576 or

[blewalker@isber.ucsb.edu](mailto:blewalker@isber.ucsb.edu)

7-13-09

**NCEAS Call for Proposals**

National Center for Ecological Analysis and Synthesis, UC Santa Barbara

NCEAS promotes synthesis, analysis, and multidisciplinary collaboration directed toward addressing important questions in ecology and allied disciplines. The Center seeks projects that address the development and testing of important

ecological ideas and theories using existing data, cutting-edge analysis of ecological information, research on data access and use, use of sound science in policy and management decisions, and investigating sociological issues that pertain to the science of ecology. Support is available for working groups, postdocs, sabbatical fellows and graduate seminars.

URL: <http://www.nceas.ucsb.edu/rfp>.

Contact: 805/892-2500 or [proposal@nceas.ucsb.edu](mailto:proposal@nceas.ucsb.edu)

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7-31-09

### Harvey Karp L. Discovery Award

Division of Mathematical, Life, and Physical Sciences, UC Santa Barbara

All faculty members in the Division of Mathematical, Life, and Physical Sciences (MLPS) are invited to nominate a postdoctoral fellow for this prestigious award that provides seed funding to support his/her innovative, cutting-edge research that might be considered too risky by agencies such as NIH. The funds awarded may be used by the young scientist for any costs associated with proposed project including salary, research supplies and access to equipment and instrumentation. Domestic and international postdocs may apply for the \$50K award. Application packages should include a proposal of suggested research no more than three pages long, a curriculum vita, and two letters of recommendation.

URL: [http://www.science.ucsb.edu/files/images/Karp\\_Discovery\\_Award\\_Flyer\\_2009\\_-Images.pdf](http://www.science.ucsb.edu/files/images/Karp_Discovery_Award_Flyer_2009_-Images.pdf).

Contact: Michelle Keuper, 805/893-7598 or [mkeuper@LTSC.ucsb.edu](mailto:mkeuper@LTSC.ucsb.edu)

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12-15-09

### STAGE Script Competition

Professional Artists Lab

California NanoSystems Institute, UCSB

The Scientists, Technologists, and Artists Generating Exploration (STAGE) competition seeks play scripts that explore scientific and/or technological stories, themes, issues, and/or events. Science and technology must figure prominently in the script, whether in form or content or both. Authors are strongly urged to avoid the stereotypes often assigned to science, technology, and those who engage in these disciplines. This competition is not open to plays written in the genre of science fiction.

URL:

<http://www.cnsi.ucsb.edu/stage/guidelines/guidelines.html>.

Contact: [stage@cnsi.ucsb.edu](mailto:stage@cnsi.ucsb.edu)

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Ongoing

### CIRM Conference Grants

California Institute for Regenerative Medicine

These awards will fund scientific conferences held in California on topics related to stem cells and regenerative medicine. Applications for recurring conferences may not exceed three years. Maximum award size is the lesser of \$50K or fifty percent of the total conference budget. Applicants must allow four months between request and proposed conference date.

URL: [http://www.cirm.ca.gov/PA\\_08-06](http://www.cirm.ca.gov/PA_08-06).

Contact: Patricia Chavira, 415/396-9109 or

[tchavira@cirm.ca.gov](mailto:tchavira@cirm.ca.gov) or Asha Nigh, 415/396-9114 or

[anigh@cirm.ca.gov](mailto:anigh@cirm.ca.gov)

## NATIONAL SCIENCE FOUNDATION

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6-2-09

### Enhancing the Mathematical Sciences Workforce in the 21<sup>st</sup> Century (EMSW21)

Mathematical and Physical Sciences

The long-range goal of the EMSW21 program is to increase the number of well-prepared U.S. citizens, nationals, and permanent residents who pursue careers in the mathematical sciences and in other NSF-supported disciplines. Research Training Groups (RTG) support the training activities of a group of faculty who have a common research interest. Mentoring through Critical Transition Points (MCTP) involves a larger group of faculty but focuses on specified stages in the professional development of the trainees. Proposals to the Vertical Integration of Research and Education (VIGRE) program will not be accepted for this deadline. (NSF 05-595)

URL: <http://www.nsf.gov/pubs/2005/nsf05595/nsf05595.htm>.

Contact: Dean Evasius, 703/292-8132 or [devasius@nsf.gov](mailto:devasius@nsf.gov)

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6-25-09

Preliminary Proposal (*required*)

11-19-09

Full Proposal

### Informal Science Education

Education and Human Resources

The ISE program invests in projects that promote lifelong learning of STEM in a wide variety of informal settings. Funding is provided for projects that advance understanding of informal STEM learning, that develop and implement innovative strategies and resources for informal STEM education, and that build the national professional capacity for research, development, and practice in the field. There are five grant categories: Research; Pathways; Full-Scale Development; Broad Implementation; and Communicating Research to Public Audiences. (NSF 09-553)

URL: <http://www.nsf.gov/pubs/2009/nsf09553/nsf09553.htm>.

Contact: 703/292-8616 or [DRLISE@nsf.gov](mailto:DRLISE@nsf.gov)

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7-7-09

### Urban Long-Term Research Area Exploratory Awards (ULTRA-Ex)

Social, Behavioral, and Economic Sciences

Biological Sciences

ULTRA-Ex will provide support to enable teams of scientists and practitioners to conduct interdisciplinary research on the dynamic interactions between people and natural ecosystems in urban settings in ways that will advance both fundamental and applied knowledge. Awards will support research teams to conduct one or a limited number of related projects that draw on and show promise of enhancing fundamental theory with respect to both human and biophysical systems as well as human-natural system interactions. (NSF 09-551)

URL: <http://www.nsf.gov/pubs/2009/nsf09551/nsf09551.htm>.

Contact: Thomas Baerwald, 703/292-7301 or

[tbaerwal@nsf.gov](mailto:tbaerwal@nsf.gov)

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7-15-09

**Living Stock Collections for Biological Research (LSCBR)**

Biological Sciences

LSCBR supports improvements in and partial operation of existing collections of living organisms (including viruses and bacteriophages) to be used in basic biological research. Short-term projects are one-time awards (up to 36 months) leading to innovative handling of living stocks or to well-defined improvements in existing collections, including those not otherwise supported by LSCBR. Longer-term projects (up to 60 months) help support ongoing operation of collections significant to the NSF research community. (NSF 09-550)

URL: <http://www.nsf.gov/pubs/2009/nsf09550/nsf09550.htm>.  
Contact: Lita Procto, 703/292-8470 or [LSCBR@nsf.gov](mailto:LSCBR@nsf.gov)

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7-16-09

**Geobiology and Low-Temperature Geochemistry**

Geosciences

This program supports research on 1) the interactions between biological and geological systems at all scales of space and time; 2) geomicrobiology and biomineralization processes; 3) the role of life in the transformation and evolution of the Earth's geochemical cycles; 4) inorganic and organic geochemical processes occurring at or near the Earth's surface now and in the past, and at the broad spectrum of interfaces ranging in scale from planetary and regional to mineral-surface and supramolecular; 5) mineralogy and chemistry of soils and sediments; 6) surficial chemical and biogeochemical systems and cycles and their modification through natural and anthropogenic change; and 7) development of tools, methods, and models for low-temperature geochemistry and geobiology. (NSF 09-552)

URL: <http://www.nsf.gov/pubs/2009/nsf09552/nsf09552.htm>.  
Contact: Enriqueta Barrera, 703/292-8551 or [ebarrera@nsf.gov](mailto:ebarrera@nsf.gov)

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7-23-09

**Community-based Interoperability Networks**

Cross Directorate

The ability to re-purpose data requires that it be possible to find and understand data of many types and from many sources. Interoperability (the ability of two or more systems or components to exchange information and to use the information that has been exchanged) is fundamental to meeting this requirement. This program supports community efforts to provide for broad interoperability through the development of mechanisms such as robust data and meta-data conventions, ontologies, and taxonomies. Support is provided for networks responsible for consensus-building activities and for providing the expertise necessary to turn the consensus into technical standards with associated implementation tools and resources. (NSF 07-565)

URL: <http://www.nsf.gov/pubs/2007/nsf07565/nsf07565.htm>.  
Contact: Lucille Nowell, 703/292-8970 or [lnowell@nsf.gov](mailto:lnowell@nsf.gov)

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7-23-09

**Research Coordination Networks in Biological Sciences**

Biological Sciences

The goal is to advance a field or create new directions in research or education. Innovative ideas for implementing

novel networking strategies are especially encouraged. Groups of investigators will be supported to communicate and coordinate their research, training, and educational activities across disciplinary, organizational, institutional, and geographical boundaries. Tracks include the research coordination network track (RCN) and the undergraduate biology education track (RCN-UBE). (NSF 09-554)  
URL: <http://www.nsf.gov/pubs/2009/nsf09554/nsf09554.htm>.  
Contact: Michael Mishkind, 703/292-8413 or [biocrn@nsf.gov](mailto:biocrn@nsf.gov)

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7-21-09 BIO, CISE, HER

7-22-09 ENG

7-23-09 GEO, MPS, SBE, OPP

**Faculty Early Career Development (CAREER) Program**

Cross Directorate

The CAREER Program is a Foundation-wide activity that offers NSF's most prestigious awards in support of junior faculty who exemplify the role of teacher-scholars through outstanding research, excellent education, and the integration of education and research within the context of the mission of their organizations. The minimum amount for this five-year award is \$400K. Applicants must be, by October 1, 2009, employed in a tenure-track position at the assistant professor level or equivalent. NSF especially encourages women, members of underrepresented minority groups, and persons with disabilities to apply. CAREER awardees who are also U.S. citizens or permanent residents may then be considered for the Presidential Early Career Award for Scientists and Engineers (PECASE), the highest honor in the field from the U.S. government. (NSF 08-557)  
URL: <http://www.nsf.gov/pubs/2008/nsf08557/nsf08557.htm>.  
Contact varies by Directorate.

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7-24-09

**Improvements to Biological Research Collections (BRC)**

Biological Sciences

The BRC Program provides funds for improvements to network, secure, and organize established natural history collections for sustained, accurate, and efficient accessibility of the collection to the biological research community. The program is encouraging collaborative proposals to network collections on regional and continental scales, especially collaborations that bring large and small collections together into networks. The program also provides for enhancements to existing collections to improve collections, computerize specimen-related data, develop better methods of specimen curation and collection management through activities such as symposia and workshops. (NSF 09-548)

URL: <http://www.nsf.gov/pubs/2009/nsf09548/nsf09548.htm>.  
Contact: W. Carl Taylor, 703/292-8470 or [dbibrc@nsf.gov](mailto:dbibrc@nsf.gov)

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8-1-09

**Science, Technology, and Society**

Social, Behavioral, and Economic Sciences

STS considers proposals that examine historical, philosophical, and sociological questions that arise in connection with science, engineering, and technology, and their respective interactions with society. STS has four components: Ethics and Values in Science, Engineering and Technology (EVS), History and Philosophy of Science, Engineering and Technology (HPS), Social Studies of Science, Engineering and Technology (SSS), and Studies of Policy, Science, Engineering and Technology (SPS). STS

encourages the submission of proposals that strive to integrate research in two or more core areas. (NSF 08-553)  
URL: <http://www.nsf.gov/pubs/2008/nsf08553/nsf08553.htm>.  
Contact: Frederick Kronz, 703/292-7283 or [fkronz@nsf.gov](mailto:fkronz@nsf.gov)

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8-7-09 and 1-16-10

**Sedimentary Geology and Paleobiology**  
Geosciences

This program supports studies of: 1) the changing aspects of life, ecology, environments, and biogeography in past geologic time based on fossil plants, animals, and microbes; 2) all aspects of Earth's sedimentary carapace; 3) the science of dating and measuring the time sequence of events and rates of geological processes of Earth's past sedimentary and biological (fossil) record; 4) the geologic record of the production, transportation, and deposition of physical and chemical sediments; and 5) understanding the complexities of Earth's deep time (pre-Holocene) climate systems. (NSF 09-560)  
URL: <http://www.nsf.gov/pubs/2009/nsf09560/nsf09560.htm>.  
Contact: H.R. Lane, 703/292-4730 or [hlane@nsf.gov](mailto:hlane@nsf.gov)

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8-16-09

**Methodology, Measurement, and Statistics (MMS)**  
Social, Behavioral, and Economic Sciences

The MMS program supports the development of innovative analytical and statistical methods and models for those sciences. MMS seeks proposals that are methodologically innovative, grounded in theory, and have potential utility for multiple fields within the social and behavioral sciences. As part of its larger portfolio, the program partners with a consortium of federal statistical agencies to support research proposals that further the development of new and innovative approaches to surveys and to the analysis of survey data. (NSF 08-561)  
URL: <http://www.nsf.gov/pubs/2008/nsf08561/nsf08561.htm>.  
Contact: Cheryl Eavey, 703/292-7269 or [ceavey@nsf.gov](mailto:ceavey@nsf.gov)

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8-19-09

**Solar, Heliospheric, and Interplanetary Environment (SHINE)**  
Geosciences

The solar physics program solicits proposals to investigate the connections between eruptive events and magnetic phenomena on the Sun and the corresponding solar wind structures in the inner heliosphere. The broader impact of submitted proposals will be evaluated by considering the relation of the proposed activity to science community goals, as exemplified by ongoing community-organized campaigns and objectives determined through an open and interactive process at SHINE workshops. (NSF 04-585)  
URL: <http://www.nsf.gov/pubs/2004/nsf04585/nsf04585.htm>.  
Contact: Paul Bellaire, 703/292-8529 or [pbellaire@nsf.gov](mailto:pbellaire@nsf.gov)

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8-30-09 Medium Projects  
11-28-09 Large Projects  
12-17-09 Small Projects

**CISE Cross-cutting Programs: FY 2010**  
Computer and Information Science and Engineering

CISE seeks cross-cutting proposals that are scientifically timely, and that benefit from the intellectual contributions of researchers with expertise in a number of computing fields

and/or sub-fields. Programs for FY 2010 are: data-intensive computing; network science and engineering; and trustworthy computing. The three project classes are: Small - up to \$500K total budget with durations up to three years; Medium - \$500,001 to \$1,200,000 total budget with durations up to four years; and Large - \$1,200,001 to \$3M total budget with durations up to five years. (NSF 09-558)  
URL: <http://www.nsf.gov/pubs/2009/nsf09558/nsf09558.htm>.  
Contact: Karl Levitt, 703/292-8950 or [klevitt@nsf.gov](mailto:klevitt@nsf.gov)

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8-30-09 Medium Projects  
11-28-09 Large Projects  
12-17-09 Small Projects

**Computer and Communication Foundations (CCF): Core Programs**

**Computer and Network Systems (CNS): Core Programs**  
**Information and Intelligent Systems (IIS): Core Programs**  
Computer and Information Science and Engineering

This entry describes three separate NSF programs. CCF supports research and education projects that develop new knowledge in the Algorithmic Foundations program, the Communications and Information Foundations program, and the Software and Hardware Foundations program. CNS supports research and education projects that develop new knowledge in the Computer Systems Research (CSR) program and the Networking Technology and Systems (NeTS) program. IIS supports research and education projects that develop new knowledge in the Human-Centered Computing program, the Information Integration and Informatics program, and the Robust Intelligence program. IIS is also responsible for managing the review process for proposals in computer graphics and visualization. Proposers are invited to submit in three project classes: Small - up to \$500K total budget with durations up to three years; Medium - \$500,001 to \$1,200,000 total budget with durations up to four years; and Large - \$1,200,001 to \$3M total budget with durations up to five years. (NSF 09-555, 09-556, 09-557)  
URLs: <http://www.nsf.gov/pubs/2009/nsf09555/nsf09555.htm>,  
<http://www.nsf.gov/pubs/2009/nsf09556/nsf09556.htm>,  
<http://www.nsf.gov/pubs/2009/nsf09557/nsf09557.htm>.  
Contacts vary by program.

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9-21-09

**Social-Computational Systems (SoCS)**  
Computer and Information Science and Engineering  
Social, Behavioral, and Economic Sciences

The SoCS program seeks to reveal new understanding about the properties that systems of people and computers together possess, and to develop a practical understanding of the purposeful design of systems to facilitate socially intelligent computing. The program will support research in socially intelligent computing arising from human-computer partnerships that range in scale from a single person and computer to an Internet-scale array of machines and people. SoCS seeks to create new knowledge about the capabilities these partnerships can demonstrate. (NSF 09-559)  
URL: <http://www.nsf.gov/pubs/2009/nsf09559/nsf09559.htm>.  
Contact: Amy Baylor, 703/292-8930 or [abaylor@nsf.gov](mailto:abaylor@nsf.gov)

## DEPARTMENT OF HEALTH & HUMAN SERVICES

6-1-09 Letter of Intent (*optional*)

7-1-09 Application

### **NML Applied Informatics Grants**

National Library of Medicine

NLM offers grants to health-related and scientific organizations that wish to optimize the utility and use of clinical and research information. Grants are for organizations that wish to exploit the capabilities of information technology to bring usable, useful biomedical knowledge to end users by translating the findings of informatics and information science research into practice through novel or enhanced systems and services. (RFA-LM-09-001)

URL: <http://grants.nih.gov/grants/guide/rfa-files/RFA-LM-09-001.html>.

Contact: Hua-Chuan Sim, 301/549-4882 or [simh@mail.nih.gov](mailto:simh@mail.nih.gov)

6-14-09 Letter of Intent (*optional*)

7-14-09 Application

### **Economic Studies of Health Insurance Coverage on Drug Abuse Treatment Availability, Access, Costs, and Quality**

National Institute of Drug Abuse

This FOA solicits applications to conduct rigorous, theory-driven research on the effects of recent legislative and regulatory changes affecting insurance coverage for drug abuse treatment services. Research on the effects of health insurance parity legislation and changes in the Medicaid programs needed to enhance understanding of the implementation and consequences of legislative and policy initiatives. Research may also help inform how benefits for these disorders can be best designed. (RFA-DA-10-004)

URL: <http://grants.nih.gov/grants/guide/rfa-files/RFA-DA-10-004.html>.

Contact: Sarah Duffy, 301/443-6504 or [duffys@nida.nih.gov](mailto:duffys@nida.nih.gov)

8-16-09 Letter of Intent (*optional*)

9-16-09 Application

### **Novel Statistical Methods for Human Gene Expression Quantitative Trait Loci (eQTL) Analyses**

Cross Institute

This FOA solicits applications to develop innovative statistical methods to detect the influence of genetic variation on tissue-specific gene expression and regulation. The goal is to develop statistical methods to appropriately analyze the forthcoming complex data sets generated by the NIH Roadmap initiative entitled "Genotype-Tissue Expression (GTEx) Project". Applicants are encouraged to take advantage of existing tissue-specific gene expression datasets and/or simulated datasets, but are also encouraged to utilize GTEx-generated data when it is available. (RFA-RM-09-006)

URL: <http://grants.nih.gov/grants/guide/rfa-files/RFA-RM-09-006.html>.

Contact: Yin Yao, 301/443-2037 or [kay1yao@mail.nih.gov](mailto:kay1yao@mail.nih.gov)

9-7-09

### **Basic Research on HIV Persistence**

National Institute of Allergy and Infectious Diseases

The aim of this funding opportunity announcement is to increase our understanding of persistent HIV-1 infection in

patients under highly active anti-retroviral therapy. The emphasis is on the development of new ideas and approaches in HIV-1 persistence including model and assay development that may directly inform future studies on the design of therapeutic strategies to achieve long term remission without treatment or a complete eradication of residual virus and complete cure for HIV infection and AIDS. (PA-09-152)

URL: <http://grants.nih.gov/grants/guide/pa-files/PA-09-152.html>.

Contact: Janet Young, 301/496-6714 or [jy6r@nih.gov](mailto:jy6r@nih.gov)

## DEPARTMENT OF DEFENSE

6-4-09 White Paper

8-13-09 Full Proposal

### **Sciences Addressing Asymmetric Explosive Threats**

Office of Naval Research

ONR is interested in receiving proposals describing innovative scientific concepts that will form the foundation for future technologies that may be developed and implemented to efficiently and effectively address future asymmetric threats, resulting in explosive events. This BAA is part of a basic research program and is limited to fundamentally new theories, data, concepts, and principles. Research areas include predict/prevent, detect, neutralize, and mitigation. Awards of \$300K per year for up to three years are anticipated. (ONR BAA 09-022)

URL: <http://www.onr.navy.mil/O2/BAA/docs/09-022.pdf>.

Contact: Mark Stoffel, [mark.stoffel@navy.mil](mailto:mark.stoffel@navy.mil)

6-24-09 Pre-application (*required*)

7-15-09 Application

### **Autism Research Program Concept Award**

Congressionally Directed Medical Research Programs

The Concept Award supports the exploration of a highly innovative new concept or untested theory that addresses an important problem relevant to autism spectrum disorders (ASD). The award is not intended to support a logical progression of an already established research project but, instead, allows PIs the opportunity to pursue serendipitous observations. This mechanism supports high-risk studies that have the potential to reveal entirely new avenues for investigation. Proposals must describe how the new idea will enhance existing knowledge of ASD or create an entirely new avenue for investigation. Research completed may provide sufficient preliminary data to enable a proposal for future research. (W81XWH-09-ARP-CA)

URL:

[http://cdmrp.army.mil/funding/archive/09arpconcept\\_pa.pdf](http://cdmrp.army.mil/funding/archive/09arpconcept_pa.pdf).

Contact: 301/619-7079 or [cdmrp.pa@amedd.army.mil](mailto:cdmrp.pa@amedd.army.mil)

7-28-09

### **Young Investigator Research Program**

Air Force Office of Scientific Research (AFOSR)

The Young Investigator Research Program (YIP) is to support scientists and engineers who have received Ph.D. or equivalent degrees in the last five years (on or after 1 May 2004) and who show exceptional ability and promise for conducting basic research. The objective is to foster creative basic research in science and engineering, enhance early career development of outstanding young investigators, and increase opportunities for the young investigators to

recognize Air Force mission and the related challenges in science and engineering. (AFOSR-BAA-2009-2)  
URL: <http://www.wpafb.af.mil/library/factsheets/factsheet.asp?id=9332>  
Contact: Spencer Wu 703/696-7315 or [Spencer.wu@afosr.af.mil](mailto:Spencer.wu@afosr.af.mil)

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Ongoing White Paper  
**Naval Research Laboratory Broad Agency Announcement**  
Naval Research Laboratory

NRL is interested in receiving proposals for the research efforts described under this BAA including topics from the Radar, Information Technology, Chemistry, Materials Science and Technology, Plasma Physics, and Remote Sensing Divisions. Proposals may range from theoretical studies to proof-of-concept to include fabrication and delivery of a prototype. (BAA N00173-01)  
URL: <http://heron.nrl.navy.mil/contracts/baa/index.htm>.  
Contacts vary by Directorate.

## OTHER FEDERAL AGENCIES

### NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

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6-5-09 Notice of Intent  
8-14-09 Proposal  
**Planetary Mission Data Analysis Program**  
Planetary Science

The objective is to enhance the scientific return of Division missions by broadening the scientific participation in the analysis of archived data collected by those missions. In addition, this program supports the analysis of archived planetary data from other NASA Science Mission Directorate missions. (NNH09ZDA001N-PMDAP)  
URL: <http://nspires.nasaprs.com/external/viewrepositorydoc/ument/cmdocumentid=176897/C.11%20PMDAP%20v2.pdf>.  
Contact: Michael Kelley, 202/358-0742 or [Michael.S.Kelley@nasa.gov](mailto:Michael.S.Kelley@nasa.gov)

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6-12-09 Notice of Intent  
8-14-09 Proposal  
**Planetary Instrument Definition and Development Program (PIDDP)**  
Planetary Science

PIDDP supports the advancement of spacecraft-based instrument technology that shows promise for use in scientific investigations on future planetary missions. The goal is not to develop flight-qualified hardware, but rather to define and develop scientific instruments or components of such instruments to the point where the instruments may be proposed in response to future announcements of flight opportunity without additional extensive technology development. The proposed instrument technology must address specific scientific objectives of likely future science missions. (NNH09ZDA001N-PIDD)  
URL: <http://nspires.nasaprs.com/external/viewrepositorydoc/ument/cmdocumentid=176897/C.16%20PIDDP%20v2.pdf>.  
Contact: Jonathan Rall, 202/358-1938 or [Jonathan.Rall@nasa.gov](mailto:Jonathan.Rall@nasa.gov)

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6-15-09 Notice of Intent  
8-17-09 Proposal  
**Precipitation Science**  
Earth Science

This program seeks scientific investigations related to satellite observations of precipitation using measurements from, but not limited to, the Tropical Rainfall Measuring Mission (TRMM), and investigations related to future precipitation missions, such as the next generation constellation-based Global Precipitation Measurement (GPM) Mission. This program supports investigations in three categories: 1) development, evaluation, and validation of TRMM and GPM retrieval algorithms; 2) development of methodologies for improved application of satellite measurements; and 3) the use of satellite and ground measurements for physical process studies to gain a better understanding of the global water cycle, climate, and weather; and concomitant improvements in numerical models on cloud resolving to climate scales. (NNH09ZDA001N-PRECIP)  
URL: <http://nspires.nasaprs.com/external/viewrepositorydoc/ument/cmdocumentid=176772/A.14%20Precipitation%20v2.pdf>.  
Contact: Ramesh Kakar, 202/358-0240 or [Ramesh.K.Kakar@nasa.gov](mailto:Ramesh.K.Kakar@nasa.gov)

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6-25-09 Notice of Intent  
9-4-09 Proposal  
**Planetary Protection Research**  
Planetary Science

Planetary protection involves preventing biological contamination on both outbound and sample return missions to other planetary bodies. Research is required to improve NASA's understanding of the potential for both forward and backward contamination, how to minimize it, and to set standards in these areas for spacecraft preparation and operating procedures. Improvements in technologies and methods for evaluating the potential for life in returned samples are also of interest. (NNH09ZDA001N-PPR)  
URL: <http://nspires.nasaprs.com/external/viewrepositorydoc/ument/cmdocumentid=176911/C.18%20PPR%20v2.pdf>.  
Contact: Catharine Conley, 202/358-3912 or [Cassie.Conley@nasa.gov](mailto:Cassie.Conley@nasa.gov)

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6-26-09 Notice of Intent  
8-21-09 Proposal  
**Mars Data Analysis**  
Planetary Science

The objective is to enhance the scientific return from missions to Mars. These include, but are not limited to, the following missions: Mars Pathfinder, Mars Global Surveyor, Mars Odyssey, Mars Exploration Rovers, Mars Express, Mars Reconnaissance Orbiter, and Phoenix. MDAP broadens scientific participation in the analysis of mission data sets and funds high-priority areas of research that support planning for future Mars missions. The program supports scientific investigations using publicly available (released) data. Where justified to support planning for future Mars missions, investigations that use data derived from other sources (e.g., ground-based radar, Hubble) will also be considered. (NNH09ZDA001N-MDAP)  
URL: <http://nspires.nasaprs.com/external/viewrepositorydoc/ument/cmdocumentid=176899/C.12%20MDAP%20v2.pdf>.

Contact: Robert Fogel, 202/358-2289 or  
[Robert.A.Fogel@nasa.gov](mailto:Robert.A.Fogel@nasa.gov)

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6-30-09 Notice of Intent  
8-31-09 Proposal

**New Investigator Program (NIP) in Earth Science**  
Earth Science

NIP is designed to encourage the integration of Earth system research and education by scientists and engineers at the early stage of their professional careers. The program encourages PIs at academic and/or research institutions to develop a broader sense of responsibility for effectively contributing to the improvement of science education and public science literacy; it provides an opportunity for the investigators to develop partnerships and/or enhance their skills, knowledge, and ability to communicate the excitement, challenge, methods, and results of their work to teachers, students, and the public. (NNH09ZDA001N-NIP)

URL: <http://nspires.nasaprs.com/external/viewrepositorydocument/cmdocumentid=176845/A.33%20New%20Investigators%20v2.pdf>.

Contact: Ming-Ying Wei, 202/358-0771 or [Ming-Ying.Wei-1@nasa.gov](mailto:Ming-Ying.Wei-1@nasa.gov)

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7-10-09 Notice of Intent  
9-10-09 Proposal

**Interdisciplinary Research in Earth Science**  
Earth Science

Proposed investigations should aim to advance our understanding of Earth system variability, the forcing factors that impact the Earth system, the mechanisms by which and the manner in which the Earth responds to forcing, and the local and regional consequences of global environmental change. They should also seek to improve our capabilities for both prognostic predictions and retrospective simulations of the evolution of the Earth system. Investigations should be based on approaches that integrate more than one traditional Earth science discipline and encourage innovation and complementary use of models and data from multiple satellites or sensors. (NNH09ZDA001N-IDS)

URL: <http://nspires.nasaprs.com/external/viewrepositorydocument/cmdocumentid=176792/A.22%20IDS%20v2.pdf>.

Contact: Woody Turner, 202/358-1662 or  
[Woody.Turner@nasa.gov](mailto:Woody.Turner@nasa.gov)

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8-5-09 Notice of Intent  
9-2-09 Proposal

**Supplemental Educational Awards for ROSES Investigators**  
Science Mission Directorate

SMD-funded researchers can apply for supplemental education awards to design an education effort that capitalizes upon their own talents, interests, and scientific expertise. NASA is pursuing three major education goals: strengthen the future workforce of NASA and the Nation, attract and retain students in STEM disciplines, and engage Americans in NASA's mission. NASA is particularly interested in encouraging individuals (as students, educators, parents, civil leaders, etc.) engaged in a NASA educational project activity to connect or move up to other NASA education and/or outreach activities. (NNH09ZDA001N-EDUC)

URL:

<http://nspires.nasaprs.com/external/viewrepositorydocument/cmdocumentid=176955/E.6%20Education%20Pathway.pdf>.

Contact: Larry Cooper, 202/358-1531 or  
[larry.p.cooper@nasa.gov](mailto:larry.p.cooper@nasa.gov)

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8-5-09 Notice of Intent  
9-2-09 Proposal

**Supplemental Outreach Awards for ROSES Investigators**  
Science Mission Directorate

The goal is to stimulate interest in science, engineering, and technology relevant to NASA SMD. SMD-funded researchers can design an outreach effort that capitalizes upon their own talents, interests, and scientific expertise. By adding an Outreach component to their research investigation, they can engage the public in the excitement of NASA's scientific exploration of our home planet, the solar system, and the rest of the universe through stimulating and informative activities that reach a broad and varied audience. (NNH09ZDA001N-OUTRCH)

URL:

<http://nspires.nasaprs.com/external/viewrepositorydocument/cmdocumentid=176953/E.5%20Outreach%20Pathway.pdf>.

Contact: Larry Cooper 202/358-1531 or  
[larry.p.cooper@nasa.gov](mailto:larry.p.cooper@nasa.gov)

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2-12-10 Notice of Intent  
3-26-10 Proposal

**Astronomy and Physics Research and Analysis**  
Astrophysics

APRA solicits basic research proposals for investigations that are relevant to programs in astronomy and astrophysics and includes research over the entire range of photons, gravitational waves, and particles of cosmic origin. Awards may be for up to four years (up to five years for suborbital investigations), and proposals for suborbital investigations are particularly encouraged. (NNH09ZDA001N-APRA)

URL: <http://nspires.nasaprs.com/external/viewrepositorydocument/cmdocumentid=176928/D.3%20APRA%20v2.pdf>.

Contact: Wilton Sanders, 202/358-1319 or  
[Wilton.T.Sanders@nasa.gov](mailto:Wilton.T.Sanders@nasa.gov)

**U. S. DEPARTMENT OF EDUCATION**

Various

**Education Research and Special Education Research Grant Programs**

Institute of Education Sciences

The purpose is to provide parents, educators, students, researchers, policymakers, and the general public with reliable and valid information about education practices that support learning and improve academic achievement and access to education opportunities for all students. In FY2010, seven competitions will be held by the National Center for Education Research and four by the National Center for Special Education Research. Competitions will include (special) education research, (special) education research training, (special) education research and development centers, research on statistical and research methodology in education, and evaluation of State and local education programs and policies. (CFDA 84.305, 84.324)

URL: <http://edocket.access.gpo.gov/2009/pdf/E9-6320.pdf>.

Contacts vary by project type.

## U. S. DEPARTMENT OF ENERGY

6-2-09 Concept Paper (*required*)

### **Advanced Research Projects Agency – Energy (ARPA-E)** Advanced Research Projects Agency

ARPA-E is a new organization created to foster research and development of transformational energy-related technologies. This FOA will focus on high-risk, high-payoff transformational energy-related R&D; the program is not looking for incremental progress on current technologies. The kinds of R&D activities supported are not restricted. However, this announcement is focused on accelerated development of technologies. Typical awards will range from \$500K to \$10M; in exceptional cases, awards of up to \$20M may be granted. If a PI's concept paper is selected for full proposal submission, any mandatory cost-sharing should be discussed with the appropriate dean(s) well in advance of the full proposal deadline. Cost sharing is specialized but involves a minimum of 20% of total allowable costs for R&D projects of an applied nature. (DE-FOA-0000065)

URL: <http://apply07.grants.gov/apply/opportunities/instructions/oppDE-FOA-0000065-cfda81.135-instructions.pdf>.

Contact: Michael Raizen, 202/287-1512 or [Michael.Raizen@hq.doe.gov](mailto:Michael.Raizen@hq.doe.gov)

## U. S. ENVIRONMENTAL PROTECTION AGENCY

6-12-09

### **Pesticide Environmental Stewardship Program (PESP) Regional Grants**

Office of Prevention, Pesticides, and Toxic Substances  
Office of Pesticide Programs

Approximately \$500K is available in FY2009 for agreements to further the pesticide risk reduction goals of PESP. Projects must address implementation of integrated pest management approaches that reduce the risks associated with pesticide use in an agricultural or non-agricultural setting and demonstrate the importance and relevancy of the project to the goals of PESP. (EPA-OPP-09-004)

URL: <http://www.epa.gov/pestp/BPPD%20-%20PESP%202009%20RFP.pdf>.

Contact: Cindy Wire, 415/947-4242 or [wire.cindy@epa.gov](mailto:wire.cindy@epa.gov)

6-12-09

### **Regional Pollution Prevention Information Network Centers**

Office of Prevention, Pesticides, and Toxic Substances

EPA expects to fund one proposal for the coordination of a national network of eight regional pollution prevention information centers, which are collectively known as the Pollution Prevention Resource Exchange (P2Rx). This grant is awarded to support pollution prevention/source reduction and/or resource conservation projects that help to eliminate pollution at the source. The Regional centers collaborate with State and local technical assistance providers to share pollution prevention (P2) information and training nationwide. The coordinator shall be able to provide leadership in:

1) measurement and evaluation of center activities and outcomes, 2) promoting efficiency and supporting information technology among the centers, and 3) assisting centers in marketing their services. (EPA-HQ-OPPT-09-05)

URL: <http://www.epa.gov/p2/pubs/grants/coord09.html>.

Contact: Beth Anderson, 202/564-8833 or [Anderson.Beth@epa.gov](mailto:Anderson.Beth@epa.gov)

8-5-09

### **Regional Pollution Prevention Information Network Centers**

Office of Prevention, Pesticides, and Toxic Substances

EPA is seeking applications to develop new or improved environmental public health indicators (EPHIs) to build linkages between environmental hazards, human exposures, and public health outcomes. The aim is to develop indicators that can be used for long-term tracking and surveillance of environmental public health, making better informed decisions, and assessing the actual impacts of environmental risk management decisions. Proposed projects should capitalize on existing knowledge bases, data sources, or cohorts to develop EPHIs that reflect a better understanding of the relationships between environmental conditions, human exposure, and/or public health outcomes. (EPA-G2009-STAR-B2)

URL: [http://epa.gov/ncer/rfa/2009/2009\\_star\\_ephi.html](http://epa.gov/ncer/rfa/2009/2009_star_ephi.html).

Contact: William Stelz, 202/343-9802 or [stelz.william@epa.gov](mailto:stelz.william@epa.gov)

## U. S. DEPARTMENT OF JUSTICE

6-2-09

### **Mentoring Research Program**

Office of Justice Programs

Office of Juvenile Justice and Delinquency Prevention

DOJ seeks to enhance what is known about mentoring as a prevention strategy for juvenile delinquency. More evaluation work is needed to determine the components of a mentoring program that are necessary for bringing about positive youth development. The program seeks proposals to evaluate the effectiveness of paid versus volunteer mentors within an existing mentoring program. The evaluator will conduct both a process and an outcome evaluation measuring the success of both paid and volunteer mentor programs in preventing delinquency. (OJJDP-2009-2192)

URL: <http://ojjdp.ncjrs.gov/grants/solicitations/FY2009/MentoringResearch.pdf>.

Contact: Michael Shader, 202/616-2605 or [Michael.Shader@usdoj.gov](mailto:Michael.Shader@usdoj.gov)

## U.S. DEPARTMENT OF COMMERCE

5-28-09

### **Professional Research Experience Program (PREP)**

National Institute of Standards and Technology

PREP is soliciting applications for financial assistance from accredited colleges and universities to enable those institutions to provide laboratory experiences and financial assistance to undergraduate and graduate students and post-doctoral associates at the NIST, Boulder Laboratories in Boulder, Colorado. The objectives are to encourage the growth and progress of science and engineering in the U.S. by providing research opportunities for students and post-doctoral associates, enabling them to collaborate with internationally known NIST scientists, exposing them to cutting-edge research. (2009-PREP)

URL: <http://www07.grants.gov/search/search.do?&mode=VIEW&flag2006=false&oppld=47069>.

Contact: Rosemary O'Connor, 303/497-5238 or [rosemary.oconnor@boulder.nist.gov](mailto:rosemary.oconnor@boulder.nist.gov)

## U.S. DEPARTMENT OF HOMELAND SECURITY

9-29-09

### International Research in Homeland Security Science & Technology Mission Areas

Science and Technology Directorate

Projects should be designed to augment and complement, through international research and collaboration, the depth and breadth of homeland security science and technology research. Specifically, the S&T Directorate seeks proposals that will contribute to homeland security science and technology, including but not limited to: evaluation of novel tools or approaches to confronting homeland security challenges; basic research to provide data, understandings, or models that support S&T efforts or policy decisions; and S&T and operations research evaluations to support revolutionary improvements in DHS's mission and its component agencies' operations. (DHS-09-ST-108-001)

URL: <http://www07.grants.gov/search/search.do?&mode=VIEW&flag2006=false&opId=43220>.

Contact: Paul Ragsdale, 202/254-6301 or [S&T-InternationalPrograms@dhs.gov](mailto:S&T-InternationalPrograms@dhs.gov)

## NATIONAL ENDOWMENT FOR THE HUMANITIES

7-1-09

### Preservation and Access Education and Training

Division of Preservation and Access

Preservation and Access Education and Training grants help the staff of cultural institutions, large and small, obtain the knowledge and skills needed to serve as effective stewards of humanities collections. Grants also support educational programs that prepare the next generation of conservators and preservation professionals, and projects that introduce the staff of cultural institutions to recent improvements in preservation and access practices. (CFDA 45.149)

URL: <http://www.neh.gov/grants/guidelines/pet.html>.

Contact: 202/606-8570 or [preservation@neh.gov](mailto:preservation@neh.gov)

7-15-09

### Humanities Collections and Reference Resources

Division of Preservation and Access

This program supports projects that provide an essential foundation for scholarship, education, and public programming in the humanities. Funding from this program strengthens efforts to extend the life of materials (such as collections of books and manuscripts, photographs, sound recordings and moving images, archaeological and ethnographic artifacts, art and material culture, electronic records, and digital objects) and make their intellectual content widely accessible, often through the use of digital technology. Awards are also made to create various reference resources that facilitate use of cultural materials, from works that provide basic information quickly to tools that synthesize and codify knowledge of a subject for in-depth investigation. (CFDA 45.149)

URL: <http://www.neh.gov/grants/guidelines/hcrr.html>.

Contact: 202/606-8570 or [preservation@neh.gov](mailto:preservation@neh.gov)

7-30-09

### Preservation and Access Research and Development

Division of Preservation and Access

Preservation and Access Research and Development grants support projects that address major challenges in preserving or providing access to humanities collections and resources. These challenges include the need to find better ways to preserve materials of critical importance to the nation's cultural heritage and to develop advanced modes of searching, discovering, and using such materials. Applicants should define a specific problem, devise procedures and potential solutions, and explain how they would evaluate their projects and disseminate their findings. Results must serve the needs of a significant segment of humanists. (CFDA 45.149)

URL: <http://www.neh.gov/grants/guidelines/PARD.html>.

Contact: 202/606-8570 or [preservation@neh.gov](mailto:preservation@neh.gov)

## NATIONAL ENDOWMENT FOR THE ARTS

6-11-09

### Learning in the Arts for Children and Youth

National Endowment for the Arts

This program offers funding for projects that help children and youth acquire knowledge and understanding of and skills in the arts. Projects must provide participatory learning and engage students with skilled artists, teachers, and excellent art.

Funded projects apply national or state arts education standards. All projects submitted must include the following: experience, study, performance, and assessment.

URL: <http://www.arts.gov/grants/apply/GAP10/LITA.html>.

Contacts vary by project focus.

## PRIVATE/NONPROFIT AGENCIES

5-29-09

### UCSB Postdoctoral Fellowship in Basic Science Related to Cancer

Cancer Center of Santa Barbara

The Cancer Center of Santa Barbara (CCSB) is seeking applications for one-year postdoctoral fellowships of up to \$50K tenable at UCSB in any field of basic research related to cancer. Priority will be given to projects requiring "seed money" for initiating or continuing research for which additional funding from other sources will subsequently be sought, and to candidates beginning their first postdoctoral appointments. If you plan to submit a candidate for consideration, please notify Jackie Hunt at [funding@research.ucsb.edu](mailto:funding@research.ucsb.edu).

URL: [www.research.ucsb.edu/resources/documents/CCSB\\_Postdoctoral\\_Fellowship\\_Application\\_2009.pdf](http://www.research.ucsb.edu/resources/documents/CCSB_Postdoctoral_Fellowship_Application_2009.pdf).

Contact: Barbara Conviser, 805/898-2119 or

[Barbara@CCSB.org](mailto:Barbara@CCSB.org)

6-1-09

### Violence Prevention and Intervention Grant

American Psychological Foundation

APF is committed to funding the application of psychology's unique problem-solving perspective to understanding and preventing violence. The program seeks to encourage the transfer of psychological science with regard to violence, its prevention, and intervention strategies to applications within the community, as well as to support the implementation of

innovative community programs aimed at preventing violence. Awards are up to \$20K.

URL: <http://www.apa.org/apf/violence-rfp.pdf>.

Contact: Emily Leary, [eleary@apa.org](mailto:eleary@apa.org)

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6-4-09 Initial Inquiry (*required*)

11-12-09 Proposal

### Special Grant Program in the Chemical Sciences

Camille and Henry Dreyfus Foundation

This program supports innovative projects in any area consistent with the Foundation's objective to advance the chemical sciences. Examples of areas of interest include: the increase in public awareness, understanding, and appreciation of the chemical sciences; innovative approaches to chemistry education at all levels; and efforts to make chemistry careers more attractive. Research proposals are not customarily considered.

URL: [http://www.dreyfus.org/awards/special\\_grant\\_program\\_chemical.shtml](http://www.dreyfus.org/awards/special_grant_program_chemical.shtml).

Contact: 212/753-1760 or [admin@dreyfus.org](mailto:admin@dreyfus.org)

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6-5-09

### Foreign Scholars Fellowship

Hosei International Fund

Invitations are extended to young scholars from abroad who are, at the least, enrolled in a doctoral degree program to apply to the HIF Fellowship Program to carry out non-degree research programs at Hosei University under the direction of and/or in cooperation with Hosei faculty and researchers. It is expected that joint cooperation and coordination will contribute much to the development of the university's research capabilities. Research areas include those studies in the humanities, social or natural sciences, or engineering.

URL: <http://www.hosei.ac.jp/ic/ic-e/researches/hif/2010-2011/index.html#01>.

Contact: +81-3-3264-9547 or [hif@hosei.ac.jp](mailto:hif@hosei.ac.jp)

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6-11-09

### Lindbergh Grants

Charles A. and Anne Morrow Lindbergh Foundation

The Lindbergh Foundation provides grants of up to \$10,580 (a symbolic amount representing the cost of the Spirit of St. Louis) to men and women whose individual initiative and work in a wide spectrum of disciplines furthers the Lindberghs' vision of a balance between the advance of technology and the preservation of the natural/human environment.

URL: <http://www.lindberghfoundation.org/grants>.

Contact: 763/576-1596 or [info@lindberghfoundation.org](mailto:info@lindberghfoundation.org)

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7-15-09

### Basic Science Award

### Innovation Award

American Diabetes Association

The Basic science Award provides grant support of up to \$115K per year for up to three years to both new and established investigators. Applications will be considered in any area that is relevant to the etiology or pathophysiology of diabetes and its complications. The Innovation Award of up to \$50K per year for two years offers pilot and feasibility grants that are designed to support novel hypothesis that may lack preliminary data, but offer considerable promise for the cure, prevention, or treatment of diabetes.

URL: [http://professional.diabetes.org/Diabetes\\_Research.aspx?typ=18&cid=64376](http://professional.diabetes.org/Diabetes_Research.aspx?typ=18&cid=64376).

Contact: [grantquestions@diabetes.org](mailto:grantquestions@diabetes.org)

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8-1-09

Letter of Intent (*required*)

12-15-09

Proposals (*invitation only*)

### Individual Grants

### Regional Centers

Pentecostal and Charismatic Research Initiative, John Templeton Foundation

These grants will provide up to a total of \$3.5 million to support social science research on Pentecostal and charismatic Christianity in Asia, Africa, Latin America, and the former Soviet Union. PCRI will provide support for up to 15 projects (\$100K each) over two years to support scholarly research in the region of focus. Joint proposals, for example between a graduate student and his/her adviser, or between two scholars are eligible. Up to seven grants will be made to establish or support research networks and centers. Applicants may request up to \$500K per year for two years.

URLs: [http://www.usc.edu/schools/college/crcc/private/pcri/RFP\\_individuals.pdf](http://www.usc.edu/schools/college/crcc/private/pcri/RFP_individuals.pdf) and [http://www.usc.edu/schools/college/crcc/private/pcri/RFP\\_Centers.pdf](http://www.usc.edu/schools/college/crcc/private/pcri/RFP_Centers.pdf).

Contact: Brie Loskota, 213/740-8562 or [PCRI@usc.edu](mailto:PCRI@usc.edu)

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8-1-09

### Research Grant

Harry Frank Guggenheim Foundation

The foundation welcomes proposals from any of the natural and social sciences and the humanities that promise to increase understanding of the causes, manifestations, and control of violence, aggression, and dominance. Highest priority is given to research that can increase understanding and amelioration of urgent problems of violence, aggression, and dominance in the modern world. Particular questions of interest concern violence, aggression, and dominance in relation to social change, the socialization of children, intergroup conflict, interstate warfare, crime, family relationships, and investigations of the control of aggression and violence.

URL: <http://www.hfg.org/rg/print.htm>.

Contact: 646/428-0971

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10-1-09

### Fellows and Scholars

Woodrow Wilson International Center for Scholars

The Center awards approximately 20-25 residential fellowships annually to individuals in a broad range of the social sciences and humanities studying national and/or international issues. Topics and scholarship should relate to key public policy challenges or provide the historical and/or cultural framework to illuminate policy issues of contemporary importance. Themes for 2009 are: 1) governance, including such issues as the key features of the development of democratic institutions, democratic society, civil society, and citizen participation; 2) the U.S. role in the world and issues of partnership and leadership—military, political, and economic dimensions; and 3) key long-term future challenges.

URL: <http://www.wilsoncenter.org/index.cfm?fuseaction=Fellowships.welcome>.

Contact: 202/691-4170 or [fellowships@wilsoncenter.org](mailto:fellowships@wilsoncenter.org)



# Contract and Grant Awards

Office of Research, University of California, Santa Barbara

## March 2009

- Akulov, D.A., Hasegawa, T., History, \$18,000, UC Institute on Global Conflict & Cooperation, "Soviet Foreign Policy During the Second World War: Cooperation and Conflict with the Western Allies, 1941 - 1943."
- Archuleta, R.J. (Earth Science), Institute for Crustal Studies, \$73,921, Department of Interior, "Strong Ground Motions in Salt Lake City and Other Metropolitan Areas From Large Earthquakes on the Wasatch Fault."
- Belkin, A. (Political Science), Institute for Social, Behavioral, & Economic Research, \$75,000, Evelyn and Walter Haas, Jr. Fund, "The Michael Palm Center."
- Cardinale, B.J. (Ecology, Evolution & Marine Biology), Marine Science Institute, \$389,496, National Science Foundation, "Collaborative Research: Does Productivity Drive Diversity or Vice Versa? Empirical and Theoretical Investigations of the Multivariate Productivity-Diversity Hypothesis in Streams."
- Carlson, C.A. (Ecology, Evolution & Marine Biology), Brzezinski, M.A., Marine Science Institute, \$689,579, National Science Foundation, "Mechanisms Controlling the Production and Fate of DOM During Diatom Blooms."
- Dowdy, E. (Counseling, Clinical, and School Psychology), Gevirtz Graduate School of Education Research Office, \$34,746, Georgia State University, "Georgia State University Subcontract: Development and Validation of a Screener for Behavioral & Emotional Problems in Elementary and Middle Schools."
- Dugan J.E., Wenner, A.M. (Ecology, Evolution & Marine Biology), Marine Science Institute, \$66,895, UC Sea Grant College Program, "Beaches as Threatened Ecosystems: An Evaluation of Status and Trends in the Ecology of California's Sandy Beaches."
- Dugan, J.E., Page, H.M., Marine Science Institute, \$49,954, California Department of Parks and Recreation, "Evaluating Approaches to Enhancing Prey Resources for Nesting Shorebirds on Sandy Beaches."
- Fleishman, E., Marine Science Institute, \$73,751, USDA Forest Service, "Applying Population Ecology to Strategies for Eradicating Invasive Forest Insects."
- Greenberg, D.B., McClintock, W.J., Marine Science Institute, \$15,665, Heal the Ocean Inc., "Spatial Patterns of Wastewater Discharge and Coastal Pollution in California."
- Hawker, C.J. (Materials), Materials Research Laboratory, \$25,000, Camille & Henry Dreyfus Foundation, "Materials Research Facilities Network (MRFN): A National Research and Education Resource for the STEM Disciplines."
- Heeger, A.J. (Physics), Center for Polymers & Organic Solids, \$700,000, National Science Foundation, "Opportunities and Challenges in the Field of Semiconducting (Conjugated) Polymers."
- Heintz, M.B. (Earth Science), Valentine, D.L. (Earth Science), Marine Science Institute, \$20,000, National Academy of Sciences, "Biological Control on the Flux of Methane from Marine Hydrates to the Atmosphere: A Research Plan."
- Kosik, K. (Molecular, Cellular & Developmental Biology), \$113,631, University of Iowa, "RNAi for Dominant Neurological Disease."
- Lubin, P.M. (Physics), Institute for Terahertz Science & Technology, \$62,000, Jet Propulsion Laboratory, "Planck Educational and Public Outreach Effort at UCSB."
- McFadden, J. (Geography), Institute for Computational Earth System Science, \$28,950, University of Minnesota, "Controls on Urban/Suburban Carbon and Water Fluxes."
- Meinhart, C.D. (Mechanical Engineering), Moskovits, M. (Chemistry & Biochemistry), Institute for Collaborative Biotechnologies, \$300,000, Army, "SERS Detection for Explosives Vapor."
- Mezic, I., Mechanical Engineering, \$100,000, Lawrence Livermore National Security, LLC, "Design of a Frequency Controlled Dielectrophoretic Filter."
- Morse, D.E. (Molecular, Cellular & Developmental Biology), Institute for Collaborative Biotechnologies, \$60,000, Army, "Institute for Collaborative Biotechnologies - Task 12: USACE BioNetwork."
- Morse, D.E. (Molecular, Cellular & Developmental Biology), Doyle, F.J. (Chemical Engineering), Institute for Collaborative Biotechnologies, \$1,221,424, Army, "Institute for Collaborative Biotechnologies - Task Order 4."
- Morse, D.E. (Molecular, Cellular & Developmental Biology), Doyle, F.J. (Chemical Engineering), Institute for Collaborative Biotechnologies, \$955,084, Army, "Institute for Collaborative Biotechnologies - Task Order 5."
- Moscarello, J.M., Ettenberg, A., Psychology, \$63,399, National Institute of Drug Abuse, "Dopamine Terminal Regions Interact as a Function of Motivation and Reinforcement."
- Odette, G.R., Mechanical Engineering, \$99,500, Los Alamos National Security, LLC, "Improved Processing and Fabrication of Advanced, Radiation-Tolerant ODS Steels."

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- Odette, G.R., Mechanical Engineering, \$40,000, Oak Ridge National Laboratory, "Characterization of the Irradiation and Low Temperature Annealing Response of Three Pressure Vessel Steels for Conditions Ranging From Low to Very High Flux."
  - Putinar, M., Mathematics, \$15,000, National Science Foundation, "Multivariate Operator Theory."
  - Rumberger, R.W. (Education), Gevirtz Graduate School of Education Research Office, \$61,538, University of Rochester, "Examining the Effectiveness of Scaling Up the First Things First Reform."
  - Schooler, J., Psychology, \$34,606, Bial Foundation (Portugal), "Seeing into the Future: Temporally Reversed Implicit Perceptual Priming."
  - Sherwin, M. (Physics), Institute for Terahertz Science & Technology, \$17,000, National Science Foundation, "Education and Outreach through Optical Terahertz Science and Technology Workshop."
  - Steigerwald, D.G. (Economics), Institute for Social, Behavioral, & Economic Research, \$237,268, National Science Foundation, "REU Site: The Economics Summer Training Program at UC Santa Barbara."
  - Stucky, G.D. (Chemistry & Biochemistry), California NanoSystems Institute, \$14,265, GRT, Inc., "Selective Conversion of Natural Gas and Biogas to Liquids."
  - Teel, A.R., Electrical & Computer Engineering, \$336,938, Air Force, "Complex Dynamical Behavior in Hybrid Systems."
  - Tirrell, M. (College of Engineering), Chemical Engineering, \$37,240, University of Texas-San Antonio, "Peptide-Amphiphile Biomimetics for Targeted Therapies."
  - Voss, L.B., Orfalea Family Children's Center, \$3,471, California Child Development Division, "2008-2009 CDE Renovation & Repair Award."
  - Voss, L.B., Orfalea Family Children's Center, \$1,569, California Department of Education, "California Department of ED Instructional Materials."

*Data provided by the Office of Research. “( )” represent investigators’ home departments when those are different from the administering unit.*