

UM-St. Louis Office of Research Administration  
**Funding Opportunities: Federal Agencies**

**SEPTEMBER 2009**

This report contains a sampling of new/updated funding opportunity announcements issued by U.S. federal agencies that were posted in the previous month. For additional opportunities, visit

- Grants.gov (<http://www.grants.gov>)
- InfoEd (<http://www1.infoed.org/>)
- University Internal Awards program (<http://www.umsl.edu/services/ora/sponsored-projects/internal.html>)

Special Note:

*Brief descriptions are given for opportunities with close dates 30+ days out. **ARRA projects are highlighted in yellow.***

**DEPARTMENT OF DEFENSE (DOD)**

DOD: Defense Advanced Research Projects Agency (DARPA)

Close Date	Opportunity
08/16/2010	<p><b>Advanced Structural Fiber</b>            DARPA is soliciting innovative proposals in the area of production of advanced fibers for structural applications.  <a href="http://www07.grants.gov/search/search.do;jsessionid=983TKVvTNmJjTQrdwM7pg11glZJv5m2rkYz2INOGX1vnLSxyJSVN!-1795806398?oppld=49109&amp;mode=VIEW">http://www07.grants.gov/search/search.do;jsessionid=983TKVvTNmJjTQrdwM7pg11glZJv5m2rkYz2INOGX1vnLSxyJSVN!-1795806398?oppld=49109&amp;mode=VIEW</a></p>
08/16/2010	<p><b>Bioinspired Photonics</b>            The Bioinspired Photonics program goal is to design and fabricate structured materials that will demonstrate either dynamic tunability of the optical response, or sensing capability of organic volatiles, using bioinspired photonic structures capable of operating in the visible and near infrared (NIR).  <a href="http://www07.grants.gov/search/search.do;jsessionid=983TKVvTNmJjTQrdwM7pg11glZJv5m2rkYz2INOGX1vnLSxyJSVN!-1795806398?oppld=49111&amp;mode=VIEW">http://www07.grants.gov/search/search.do;jsessionid=983TKVvTNmJjTQrdwM7pg11glZJv5m2rkYz2INOGX1vnLSxyJSVN!-1795806398?oppld=49111&amp;mode=VIEW</a></p>

DOD: Office of Naval Research (ONR)

Close Date	Opportunity
10/12/2009	<p><b>Generation of Actionable Intelligence from an Enterprise Environment</b>            ONR is interested in receiving proposals for Research, Applied Research and Advanced Technology Development in support of Generation of Actionable Intelligence from an Enterprise Environment. Work funded under this BAA may include basic research, applied research and some advanced technology development (ATD). As regards the present BAA, the Research and Development efforts to be funded will consist of basic research, applied research, advanced technology development.  <a href="http://www07.grants.gov/search/search.do;jsessionid=983TKVvTNmJjTQrdwM7pg11glZJv5m2rkYz2INOGX1vnLSxyJSVN!-1795806398?oppld=48821&amp;mode=VIEW">http://www07.grants.gov/search/search.do;jsessionid=983TKVvTNmJjTQrdwM7pg11glZJv5m2rkYz2INOGX1vnLSxyJSVN!-1795806398?oppld=48821&amp;mode=VIEW</a></p>
11/06/2009	<p><b>New Concepts in Energy Conversion and Power Management</b>            Purpose: Scientific study and experimentation directed toward increasing fundamental knowledge and understanding in the field of energy conversion</p>

and power management is sought. Farsighted, high-payoff research providing the basis for technological progress in power conversion and power management is of interest, and identifying / characterizing fundamental technology barriers is a key objective. The Naval S&T Strategic Plan and Next Generation Integrated Power System (NGIPS) Technology Development Roadmap are both good sources of information outlining the scope of future Navy interests relative to power and energy. Topic areas of interest are as follows: Electric ship vision, Fuel efficiency, Future conversion concepts.  
<http://www07.grants.gov/search/search.do?jsessionid=983TKVvTNmJtQrdwM7pg11glZJv5m2rkYz2INOGX1vnLSxyJSVNI!-1795806398?oppld=49086&mode=VIEW>

**DEPARTMENT OF EDUCATION (ED)**

Close Date	Opportunity
	<p><b>Office of Elementary &amp; Secondary Education; Overview Information: Teacher Incentive Fund Program- Recovery Act (ARRA)</b>            The purpose of the Teacher Incentive Fund is to support programs that develop and implement performance-based teacher and principal compensation systems, based primarily on increases in student achievement, in high-need schools. Goals of the Teacher Incentive Fund program include: • Improving student achievement by increasing teacher and principal effectiveness; • Reforming teacher and principal compensation systems so that teachers and principals are rewarded for increases in student achievement; • Increasing the number of effective teachers teaching poor, minority, and disadvantaged students in hard-to-staff subjects; and • Creating sustainable performance-based compensation systems.  <a href="http://www07.grants.gov/search/search.do?jsessionid=prDJKVnbZW6hgLJ8KJmvzxCxh1PKmrGycSkPxQTVWmG4qOnLrrLv!-1795806398?oppld=45890&amp;mode=VIEW">http://www07.grants.gov/search/search.do?jsessionid=prDJKVnbZW6hgLJ8KJmvzxCxh1PKmrGycSkPxQTVWmG4qOnLrrLv!-1795806398?oppld=45890&amp;mode=VIEW</a></p>
10/01/2009	<p><b>Chronically Low Performing Schools Research Initiative</b>            The central purpose of the Institute's research grant programs 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 carrying out its grant programs, the Institute provides support for programs of research in areas of demonstrated national need.  <a href="http://www07.grants.gov/search/search.do?jsessionid=983TKVvTNmJtQrdwM7pg11glZJv5m2rkYz2INOGX1vnLSxyJSVNI!-1795806398?oppld=48830&amp;mode=VIEW">http://www07.grants.gov/search/search.do?jsessionid=983TKVvTNmJtQrdwM7pg11glZJv5m2rkYz2INOGX1vnLSxyJSVNI!-1795806398?oppld=48830&amp;mode=VIEW</a></p>
10/01/2009	<p><b>Reading for Understanding Research Initiative</b>            The central 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.  <a href="http://www07.grants.gov/search/search.do?jsessionid=983TKVvTNmJtQrdwM7pg11glZJv5m2rkYz2INOGX1vnLSxyJSVNI!-1795806398?oppld=48829&amp;mode=VIEW">http://www07.grants.gov/search/search.do?jsessionid=983TKVvTNmJtQrdwM7pg11glZJv5m2rkYz2INOGX1vnLSxyJSVNI!-1795806398?oppld=48829&amp;mode=VIEW</a></p>

**DEPARTMENT OF ENERGY (DOE)**

Close Date	Opportunity
09/14/2009	<p><b>Recovery Act: Development of Algal/Advanced Biofuels Consortia</b>            The DOE announces a notice of availability of funding for establishing Consortia for two primary topic areas: development of Algae Based Biofuels, and development of Advanced Cellulosic Biofuels. The purpose of this FOA is to serve three primary goals of EERE: 1) increase the viability and deployment of renewable energy technologies, 2) spur the creation of a domestic bio-industry, and 3) dramatically reduce dependence on imported oil. Projects under this FOA will be funded, in whole or in part, with funds appropriated by the American Recovery and Reinvestment Act of 2009 (ARRA).</p>

	<a href="http://www07.grants.gov/search/search.do?jsessionid=prDJKVnbZW6hgLJ8kJmvzxCxh1PKmrGycSkPxQTVWmG4gQnLrrLv!-1795806398?oppld=48495&amp;mode=VIEW">http://www07.grants.gov/search/search.do?jsessionid=prDJKVnbZW6hgLJ8kJmvzxCxh1PKmrGycSkPxQTVWmG4gQnLrrLv!-1795806398?oppld=48495&amp;mode=VIEW</a>
10/04/2009	<p><b>Recovery Act Funding for Expansion of Infrastructure for Higher Ethanol Blends</b></p> <p>This funding opportunity announcement aims to increase the availability and use of potential gasoline/ethanol blends up to E85 (85 % ethanol) through two Topic Areas: (1) Refueling Infrastructure for Ethanol Blends: cost-shared projects to modify, upgrade, or expand the infrastructure at retail fueling locations to accommodate gasoline-ethanol blends up to E85; (2) Outreach for Ethanol Blends: projects which will increase public awareness of the benefits, safety, and use of ethanol blends as a transportation fuel.</p> <p><a href="http://www07.grants.gov/search/search.do?jsessionid=983TKVvTNmJJTOrdwM7pg11qIZJv5m2rkYz2INOGX1vnLSxyJSVNI-1795806398?oppld=48899&amp;mode=VIEW">http://www07.grants.gov/search/search.do?jsessionid=983TKVvTNmJJTOrdwM7pg11qIZJv5m2rkYz2INOGX1vnLSxyJSVNI-1795806398?oppld=48899&amp;mode=VIEW</a></p>

**DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)**

HHS: Agency for Health Care Research and Quality (AHRQ)

<b>Close Date</b>	<b>Opportunity</b>
11/18/2009	<p><b>Transforming Primary Care Practice (R18)</b></p> <p>This funding opportunity announcement (FOA) issued by the Agency for Healthcare Research and Quality (AHRQ) solicits grant applications from organizations that propose systematic studies of on-going, successful efforts to transform the delivery of primary care in the U.S. The patient-centered medical home (PCMH) has been proposed by a broad coalition of providers, employers, insurers and others as a model for improving primary care in the U.S., and numerous health care systems and medical groups are currently attempting to transform their primary care practices into PCMHs. These attempts go beyond incremental quality improvement activities and aim toward whole practice redesign. The research funded through this announcement will first validate that healthcare quality, as reflected in quantifiable changes in process and outcome measures, has in fact improved subsequent to practice transformation into a PCMH. Investigators will then study in detail how the transformation occurred and its impact on costs of care and actual patient and provider experiences/satisfaction. In addition, investigators will study the organizational and contextual factors within practices that have influenced the success of these efforts. AHRQ is interested in research that will identify, describe and disseminate the best methods for transforming the structure, characteristics and function of primary care so that practices can improve quality, reduce costs, and better satisfy the needs of patients and families.</p> <p><a href="http://www07.grants.gov/search/search.do?jsessionid=983TKVvTNmJJTOrdwM7pg11qIZJv5m2rkYz2INOGX1vnLSxyJSVNI-1795806398?oppld=49063&amp;mode=VIEW">http://www07.grants.gov/search/search.do?jsessionid=983TKVvTNmJJTOrdwM7pg11qIZJv5m2rkYz2INOGX1vnLSxyJSVNI-1795806398?oppld=49063&amp;mode=VIEW</a></p>
10/22/2012	<p><b>AHRQ Small Grant Program for Conference Support (R13)</b></p> <p>AHRQ announces its continued interest in supporting conferences through its Small Grant Program for Conference Support. AHRQ seeks to support conferences that help to further its mission to improve the quality, safety, efficiency, and effectiveness of health care for all Americans. The types of conferences eligible for support include: 1) Research development - conferences where issues or challenges in the practice and delivery of health care are defined and a research agenda or strategy for studying them is developed; 2) Research design and methodology - conferences where methodological and technical issues of major importance in the field of health services research are addressed or new designs and methodologies are developed; 3) Dissemination and implementation conferences - where research findings and evidence-based information and tools are summarized, communicated and used by organizations and individuals that have the capability to use the information to improve the outcomes, quality, access to,</p>

	<p>and cost and utilization of health care services; and/or, 4) Research training, infrastructure and career development -conferences where faculty, trainees and students are brought together with stakeholders to develop, share or disseminate research products, experiences, curricula, syllabi, training competencies. AHRQ is especially interested in supporting conferences that demonstrate strategies that include plans for disseminating complimentary conference materials and products beyond the participants attending the event. Such strategies might include, but are not limited to, submitting articles for publication, posting information on a Web site, and seeking formal opportunities to discuss conference information with others.</p> <p><a href="http://www07.grants.gov/search/search.do?jsessionid=983TKVvTNmJITQrdwM7pg11glZJv5m2rkYz2INOGX1vnLSxyJSVNI-1795806398?oppld=49185&amp;mode=VIEW">http://www07.grants.gov/search/search.do?jsessionid=983TKVvTNmJITQrdwM7pg11glZJv5m2rkYz2INOGX1vnLSxyJSVNI-1795806398?oppld=49185&amp;mode=VIEW</a></p>
01/07/2013	<p><b>AHRQ Grant Program for Large or Recurring Conferences (R13)</b></p> <p>AHRQ announces its continued interest in supporting conferences through its Large or Recurring Grant Program for Conference Support. AHRQ seeks to support conferences that help to further its mission to improve the quality, safety, efficiency, and effectiveness of health care for all Americans. The types of conferences eligible for support include: 1) Research development - conferences where issues or challenges in the practice and delivery of health care are defined and a research agenda or strategy for studying them is developed; 2) Research design and methodology - conferences where methodological and technical issues of major importance to the field of health services research are addressed or new designs and methodologies are developed; 3) Dissemination and implementation - conferences where research findings and evidence-based information and tools are summarized, communicated and used by organizations and individuals that have the capability to use the information to improve the outcomes, quality, access to, and cost and utilization of health care services; and/or, 4) Research training, infrastructure and career development -conferences where faculty, trainees and students are brought together with stakeholders to develop, share or disseminate research products, experiences, curricula, syllabi, or training competencies. AHRQ is especially interested in supporting conferences that include plans for disseminating complimentary conference materials and products beyond the participants attending the event. Such strategies might include, but are not limited to, submitting articles for publication, posting information on a Web site, and seeking formal opportunities to discuss conference information with others.</p> <p><a href="http://www07.grants.gov/search/search.do?jsessionid=983TKVvTNmJITQrdwM7pg11glZJv5m2rkYz2INOGX1vnLSxyJSVNI-1795806398?oppld=49150&amp;mode=VIEW">http://www07.grants.gov/search/search.do?jsessionid=983TKVvTNmJITQrdwM7pg11glZJv5m2rkYz2INOGX1vnLSxyJSVNI-1795806398?oppld=49150&amp;mode=VIEW</a></p>

HHS: National Institutes of Health (NIH)

Close Date	Opportunity
Multiple Dates	<p><b>NIH Announces the Availability of Recovery Act Funds for Administrative Supplements Providing Summer Research Experiences for Students and Science Educators</b></p> <p>The NIH announces the opportunity for investigators and United States institutions/organizations with active NIH Research Grants to request administrative supplements for the purpose of promoting job creation, economic development, and accelerating the pace and achievement of scientific research. These supplements will also encourage students to seriously pursue research careers in the health related sciences, as well as provide elementary, middle school, and high school teachers, community college faculty, and faculty from non-research intensive institutions with short term research experiences in NIH-funded laboratories. Support for these supplements will come from funds provided to NIH through the American Recovery and Reinvestment Act of 2009.</p> <p><a href="http://www07.grants.gov/search/search.do?jsessionid=prDJKVnbZW6hgLJ8kJmvzxCxh1">http://www07.grants.gov/search/search.do?jsessionid=prDJKVnbZW6hgLJ8kJmvzxCxh1</a></p>

	<a href="http://www07.grants.gov/search/search.do?jsessionid=prDJKVnbZW6hgLJ8kJmvzxCxb1PKmrGycSkPxQTVWmG4gQnLrrLv!-1795806398?oppld=46111&amp;mode=VIEW">PKmrGycSkPxQTVWmG4gQnLrrLv!-1795806398?oppld=46111&amp;mode=VIEW</a>
	<p><b>NIH Announces the Availability of Recovery Act Funds for Administrative Supplements</b></p> <p>The NIH announces the opportunity for investigators and United States institutions/organizations with active NIH Research Grants to request administrative supplements for the purpose accelerating the tempo of scientific research on active grants. Support for these supplements will come from funds provided to NIH through the American Recovery and Reinvestment Act of 2009 ("Recovery Act" or "ARRA"). Consistent with the intent of the Recovery Act, the purpose of this program is to promote job creation and economic development along with accelerating the pace and achievement of scientific research.</p> <p><a href="http://www07.grants.gov/search/search.do?jsessionid=prDJKVnbZW6hgLJ8kJmvzxCxb1PKmrGycSkPxQTVWmG4gQnLrrLv!-1795806398?oppld=46112&amp;mode=VIEW">http://www07.grants.gov/search/search.do:jsessionid=prDJKVnbZW6hgLJ8kJmvzxCxb1PKmrGycSkPxQTVWmG4gQnLrrLv!-1795806398?oppld=46112&amp;mode=VIEW</a></p>
09/17/2009	<p><b>Recovery Act Limited Competition: Core Facility Renovation, Repair, and Improvement (G20)</b></p> <p>This FOA solicits applications from institutions that propose to renovate, repair, or improve core facilities. For the purpose of this FOA, a core facility is defined as a centralized shared resource that provides access to instruments or technologies or services, as well as expert consultation to investigators supported by the core. The major objective of this FOA is to upgrade core facilities to support the conduct of PHS supported biomedical and/or behavioral research. Support can be requested to alter and renovate (A&amp;R) the core facility as well as to improve the general equipment in the core facility or to purchase general equipment for specialized groups of researchers. Specialized equipment over \$100,000 in cost cannot be requested as part of this FOA. In situations when similar core facilities exist in different departments at an institution, funding can be requested in support of centralizing these core facilities. This FOA is issued under the American Recovery and Reinvestment Act of 2009 (Recovery Act). It is expected that all awards will be expended expeditiously and that applicants will consider the use of green technologies and design approaches. Awards are expected to create and/or maintain American jobs.</p> <p><a href="http://www07.grants.gov/search/search.do?jsessionid=prDJKVnbZW6hgLJ8kJmvzxCxb1PKmrGycSkPxQTVWmG4gQnLrrLv!-1795806398?oppld=45774&amp;mode=VIEW">http://www07.grants.gov/search/search.do:jsessionid=prDJKVnbZW6hgLJ8kJmvzxCxb1PKmrGycSkPxQTVWmG4gQnLrrLv!-1795806398?oppld=45774&amp;mode=VIEW</a></p>
09/24/2009	<p><b>Recovery Act Limited Competition: Academic Research Enhancement Award (R15)</b></p> <p>This NIH Funding Opportunity Announcement (FOA) is supported by funds provided to the NIH under the American Recovery &amp; Reinvestment Act of 2009 (Recovery Act or ARRA). The purpose of the Academic Research Enhancement Award (AREA) program is to stimulate research in educational institutions that provide baccalaureate or advanced degrees for a significant number of the Nation's research scientists, but that have not been major recipients of NIH support. These AREA grants create opportunities for scientists and institutions otherwise unlikely to participate extensively in NIH programs, to contribute to the Nation's biomedical and behavioral research effort. AREA grants are intended to support small-scale health-related research projects proposed by faculty members of eligible, domestic institutions.</p> <p><a href="http://www07.grants.gov/search/search.do?jsessionid=prDJKVnbZW6hgLJ8kJmvzxCxb1PKmrGycSkPxQTVWmG4gQnLrrLv!-1795806398?oppld=46906&amp;mode=VIEW">http://www07.grants.gov/search/search.do:jsessionid=prDJKVnbZW6hgLJ8kJmvzxCxb1PKmrGycSkPxQTVWmG4gQnLrrLv!-1795806398?oppld=46906&amp;mode=VIEW</a></p>
10/20/2009	<p><b>2010 NIH Directors Pioneer Award Program (DP1)</b></p> <p>The NIH Directors Pioneer Award Program complements NIH's traditional, investigator-initiated grant programs by supporting individual scientists of exceptional creativity who propose pioneering and possibly transforming approaches to addressing major biomedical or behavioral challenges. To be considered pioneering, the proposed research must reflect ideas substantially different from those already being pursued in the investigators laboratory or</p>

	<p>elsewhere. Awardees must commit the major portion (at least 51%) of their research effort to activities supported by the Pioneer Award. The NIH Directors Pioneer Award Program is a High-Risk Research initiative of Research Teams of the Future.</p> <p><a href="http://www07.grants.gov/search/search.do:jsessionId=983TKVvTNmJtQrdwM7pg11glZJv5m2rkYz2IN0GX1vnLSxyJSVNI-1795806398?oppld=49123&amp;mode=VIEW">http://www07.grants.gov/search/search.do:jsessionId=983TKVvTNmJtQrdwM7pg11glZJv5m2rkYz2IN0GX1vnLSxyJSVNI-1795806398?oppld=49123&amp;mode=VIEW</a></p>
10/22/2009	<p><b>Research to Understand and Inform Interventions that Promote the Research Careers of Students in Biomedical and Behavioral Sciences (R01)</b></p> <p>This Funding Opportunity Announcement (FOA) solicits applications that propose research designed to test assumptions and hypotheses regarding social and behavioral factors with the aim of advising and guiding the design of potential interventions intended to increase interest, motivation and preparedness for careers in biomedical and behavioral research. NIGMS is particularly interested in those interventions that are specifically designed to increase the number of students from underrepresented groups entering careers in these disciplines. The proposed research need not be restricted to underrepresented minority students. Comparative research that analyzes the experience of all groups in order to place that of underrepresented students in context and to learn whether and how interventions should be tailored to make more underrepresented students successful in biomedical careers may well be particularly illuminating and is, therefore, encouraged.</p> <p><a href="http://www07.grants.gov/search/search.do:jsessionId=983TKVvTNmJtQrdwM7pg11glZJv5m2rkYz2IN0GX1vnLSxyJSVNI-1795806398?oppld=49077&amp;mode=VIEW">http://www07.grants.gov/search/search.do:jsessionId=983TKVvTNmJtQrdwM7pg11glZJv5m2rkYz2IN0GX1vnLSxyJSVNI-1795806398?oppld=49077&amp;mode=VIEW</a></p>
11/02/2009	<p><b>Healthy Aging through Behavioral Economic Analyses of Situations (R01)</b></p> <p>The National Institute on Aging (NIA), National Institutes of Health, solicits Research Project Grant (R01) applications that propose to translate basic findings from Behavioral Economics into behavior change interventions targeting health behaviors associated with chronic health conditions of mid-life and older age. Applications should propose small pilot clinical trials or demonstration projects, ideally based on collaborations between individuals with expertise in behavioral economics and psychologists, psychiatrists, clinicians, or others with expertise in aging or implementing behavioral interventions.</p> <p><a href="http://www07.grants.gov/search/search.do:jsessionId=983TKVvTNmJtQrdwM7pg11glZJv5m2rkYz2IN0GX1vnLSxyJSVNI-1795806398?oppld=49137&amp;mode=VIEW">http://www07.grants.gov/search/search.do:jsessionId=983TKVvTNmJtQrdwM7pg11glZJv5m2rkYz2IN0GX1vnLSxyJSVNI-1795806398?oppld=49137&amp;mode=VIEW</a></p>
11/09/2009	<p><b>Effects of Gene-Social Environment Interplay on Health and Behavior in Later Life (R01)</b></p> <p>The NIA invites R01 applications for the development of multidisciplinary collaborations among existing longitudinal twin and family studies, with a focus on social and behavioral factors associated with aging outcomes. This FOA is intended to lay the foundation for future studies of the role of gene-environment interplay in accounting for links between social experiences and physical health, functionality, and psychological well-being in midlife and older age. Of particular interest are applications that can embed this foundation within a lifespan perspective. Applicants are encouraged to use this FOA as a starting point for (1) developing collaborations among existing data sets, (2) harmonizing social phenotypes across a number of twin and family studies, (3) conducting analyses aimed at further refining social phenotypes for genetic analysis, (4) using animal models of gene-social environment interplay to inform work using twin studies and/or (5) establishing preliminary data on the feasibility of genetic/genomic approaches that could be applied to questions of how social experiences are biologically embedded and influence middle and later life outcomes. Use of existing data is strongly encouraged; funds from this award are not intended for new data collection, but a small percentage of funds may be used for adding modules to ongoing data collection efforts to augment phenotypic or genetic data.</p>

	<a href="http://www07.grants.gov/search/search.do?jsessionid=983TKVvTNmJtQrdwM7pg11glZJv5m2rkYz2INOGX1vnLSxyJSVNI-1795806398?oppld=49139&amp;mode=VIEW">http://www07.grants.gov/search/search.do?jsessionid=983TKVvTNmJtQrdwM7pg11glZJv5m2rkYz2INOGX1vnLSxyJSVNI-1795806398?oppld=49139&amp;mode=VIEW</a>
11/19/2009	<p><b>Pilot Studies for Studying the Mechanisms of Improvement in Type 2 Diabetes and Cardiovascular Risk Factors or in Cardiovascular, Lung, or Sleep Diseases after Bariatric Surgery (R01)</b></p> <p>Purpose. This Funding Opportunity Announcement (FOA) issued by the National Institute of Diabetes and Digestive and Kidney Diseases and the National Heart, Lung, and Blood Institute, National Institutes of Health encourages Research Project Grant (R01) applications from Institutions/organization that propose to determine the optimal research design as well as collect pilot data on feasibility and implementation for a randomized clinical trial of the effects of bariatric surgery on type 2 diabetes and cardiovascular risk factors in people with type 2 diabetes or in cardiovascular, lung and sleep diseases in people. All studies should focus on subjects with a BMI of 30 to 40.</p> <p><a href="http://www07.grants.gov/search/search.do?jsessionid=983TKVvTNmJtQrdwM7pg11glZJv5m2rkYz2INOGX1vnLSxyJSVNI-1795806398?oppld=49090&amp;mode=VIEW">http://www07.grants.gov/search/search.do?jsessionid=983TKVvTNmJtQrdwM7pg11glZJv5m2rkYz2INOGX1vnLSxyJSVNI-1795806398?oppld=49090&amp;mode=VIEW</a></p>
11/19/2009	<p><b>The Role of Human-Animal Interaction in Child Health and Development (R01)</b></p> <p>The Eunice Kennedy Shriver National Institute of Child Health and Human Development (NICHD) and the National Institute of Nursing Research (NINR) solicits Research Project Grant (R01) applications from institutions/organizations that propose to study the impact of human-animal interaction (HAI) on children's health and development and to test the efficacy of therapeutic uses of HAI with children. In 2008 NICHD and The WALTHAM Centre for Pet Nutrition, a division of Mars, Incorporated, entered into a public-private partnership to explore the interaction between humans and animals. The partnership encourages research on Human-Animal Interaction (HAI), especially as it relates to child development, health and the therapeutic use of animals with children and adolescents. This shared interest resulted in The WALTHAM Centre donating funds to NICHD to enhance NICHDs ability to support research in this field. The purpose of this FOA is to build an empirical research base on how children perceive, relate to and think about animals; how pets in the home impact children's social and emotional development and health (e.g. allergies, the immune system, asthma, mitigation of obesity); and whether and under what conditions therapeutic uses of animals is safe and effective.</p> <p><a href="http://www07.grants.gov/search/search.do?jsessionid=983TKVvTNmJtQrdwM7pg11glZJv5m2rkYz2INOGX1vnLSxyJSVNI-1795806398?oppld=49033&amp;mode=VIEW">http://www07.grants.gov/search/search.do?jsessionid=983TKVvTNmJtQrdwM7pg11glZJv5m2rkYz2INOGX1vnLSxyJSVNI-1795806398?oppld=49033&amp;mode=VIEW</a></p>
11/24/2009	<p><b>Population Research Infrastructure Program (PRIP) FY10 (R24)</b></p> <p>This FOA solicits grant applications that propose to provide infrastructure support in order to foster and enhance the research capabilities of established population research centers that are highly productive and influential in the areas of research within the mission of the Demographic and Behavioral Sciences Branch (DBSB), Center for Population Research NICHD. The Population Infrastructure Program (PRIP) allows three types of research infrastructure support: Research Support Cores; Developmental Infrastructure Cores; and Public Infrastructure Cores. This FOA allows for two types of applications: (1) Standard PRIP Applications, which request funding for Research Support Cores and/or Developmental Infrastructure Cores, and may also request funding for Public Infrastructure Cores; and (2) Public Infrastructure Only Applications, which request funding only for Public Infrastructure Core(s).</p> <p><a href="http://www07.grants.gov/search/search.do?jsessionid=983TKVvTNmJtQrdwM7pg11glZJv5m2rkYz2INOGX1vnLSxyJSVNI-1795806398?oppld=48884&amp;mode=VIEW">http://www07.grants.gov/search/search.do?jsessionid=983TKVvTNmJtQrdwM7pg11glZJv5m2rkYz2INOGX1vnLSxyJSVNI-1795806398?oppld=48884&amp;mode=VIEW</a></p>
01/15/2010	<p><b>Dynamics of Host-Associated Microbial Communities (R01)</b></p> <p>This FOA issued by the National Institute of General Medical Sciences</p>

	<p>(NIGMS), National Institutes of Health (NIH), solicits applications that propose genetic, physiological, and ecological studies designed to reveal the basic principles and mechanisms that govern the symbiotic systems dynamics of microbial communities.</p> <p><a href="http://www07.grants.gov/search/search.do:jsessionId=983TKVvTNmJjTQrdwM7pg11glZJv5m2rkYz2IN0GX1vnLSxyJSVN!-1795806398?oppld=49178&amp;mode=VIEW">http://www07.grants.gov/search/search.do:jsessionId=983TKVvTNmJjTQrdwM7pg11glZJv5m2rkYz2IN0GX1vnLSxyJSVN!-1795806398?oppld=49178&amp;mode=VIEW</a></p>
09/07/2010	<p><b>Network Infrastructure Support for Emerging Behavioral and Social Research Areas in Aging (R24)</b></p> <p>The purpose of this FOA is to provide infrastructure support in specific emerging interdisciplinary areas of behavioral and social research in aging. The infrastructure support will facilitate research networks through meetings, conferences, small scale pilots, training, and dissemination to encourage growth and development in specified emerging areas and resources.</p> <p><a href="http://www07.grants.gov/search/search.do:jsessionId=983TKVvTNmJjTQrdwM7pg11glZJv5m2rkYz2IN0GX1vnLSxyJSVN!-1795806398?oppld=49136&amp;mode=VIEW">http://www07.grants.gov/search/search.do:jsessionId=983TKVvTNmJjTQrdwM7pg11glZJv5m2rkYz2IN0GX1vnLSxyJSVN!-1795806398?oppld=49136&amp;mode=VIEW</a></p>
10/27/2011	<p><b>NIGMS National Centers for Systems Biology (P50)</b></p> <p>The NIGMS invites grant applications from institutions/organizations proposing to establish Centers of Excellence in Systems Biology. The goal of this initiative is to promote institutional development of pioneering research, research training, and outreach programs focused on systems-level inquiries of biomedical and biobehavioral questions within the NIGMS mission.</p> <p><a href="http://www07.grants.gov/search/search.do:jsessionId=983TKVvTNmJjTQrdwM7pg11glZJv5m2rkYz2IN0GX1vnLSxyJSVN!-1795806398?oppld=49177&amp;mode=VIEW">http://www07.grants.gov/search/search.do:jsessionId=983TKVvTNmJjTQrdwM7pg11glZJv5m2rkYz2IN0GX1vnLSxyJSVN!-1795806398?oppld=49177&amp;mode=VIEW</a></p>
09/07/2012	<p><b>Ancillary Studies to Major Ongoing Clinical Research Studies to Advance Areas of Scientific Interest within the Mission of the NIDDK (R01)</b></p> <p>This FOA encourages Research Project Grant (R01) applications from qualified investigators to conduct ancillary studies to major ongoing clinical research studies, including clinical trials, epidemiological studies and disease databases supported by the National Institute of Diabetes and Digestive and Kidney Diseases. Major studies include multi-center investigations, national databases and Phase 3 clinical trials. This FOA also encourages grant applications for ancillary studies utilizing major clinical research studies supported by other Institutes and Centers of the National Institutes of Health, other government agencies and the private sector. However, the proposed ancillary study must be designed to advance the scientific research mission of the NIDDK by focusing on diseases and areas of interest of the Institute.</p> <p><a href="http://www07.grants.gov/search/search.do:jsessionId=983TKVvTNmJjTQrdwM7pg11glZJv5m2rkYz2IN0GX1vnLSxyJSVN!-1795806398?oppld=49034&amp;mode=VIEW">http://www07.grants.gov/search/search.do:jsessionId=983TKVvTNmJjTQrdwM7pg11glZJv5m2rkYz2IN0GX1vnLSxyJSVN!-1795806398?oppld=49034&amp;mode=VIEW</a></p>
09/07/2012	<p><b>Directed Stem Cell Differentiation for Cell-Based Therapies for Heart, Lung, and Blood Diseases (R21)</b></p> <p>This FOA encourages Exploratory/Developmental (R21) grant applications from applicant organizations that propose to define the factors and mechanisms controlling the differentiation of embryonic or adult stem or progenitor cells, either in vitro or in vivo. It is designed to stimulate new scientific advances in stem cell differentiation including technology research that may not be hypothesis driven. The long range goal of this program is the development of methods to direct the differentiation or development of stem cells along specific cell lineages to yield replacement cells for clinical use, whether the replacement cells are formed in vitro for delivery or formed in vivo in the tissue or organ environment.</p> <p><a href="http://www07.grants.gov/search/search.do:jsessionId=983TKVvTNmJjTQrdwM7pg11glZJv5m2rkYz2IN0GX1vnLSxyJSVN!-1795806398?oppld=49046&amp;mode=VIEW">http://www07.grants.gov/search/search.do:jsessionId=983TKVvTNmJjTQrdwM7pg11glZJv5m2rkYz2IN0GX1vnLSxyJSVN!-1795806398?oppld=49046&amp;mode=VIEW</a></p>
09/07/2012	<p><b>Erythropoiesis: Components and Mechanisms (R01)</b></p> <p>This FOA encourages investigator-initiated R01 applications that propose hypothesis-driven research using erythroid cells. The aim of this program is to support research efforts towards a complete description of the molecular and</p>

	<p>cellular components of erythropoiesis and how these components contribute to erythropoiesis. Components include genes that are expressed (transcriptome) in erythroid cells, either during development or during differentiation, and the proteins (proteome) that are translated in erythroid cells, especially with post-translational modifications or subcellular localizations that are unique to erythroid cells. A long range goal of this program is to generate a concise description of erythropoiesis that unifies genetics, molecular processes and cytokine determinants in the erythroid lineages so that new therapeutics may be developed to measure and combat anemia.</p> <p><a href="http://www07.grants.gov/search/search.do?jsessionid=983TKVvTNmJtQrdwM7pg11glZJv5m2rkYz2IN0GX1vnLSxyJSVNI-1795806398?oppld=49094&amp;mode=VIEW">http://www07.grants.gov/search/search.do?jsessionid=983TKVvTNmJtQrdwM7pg11glZJv5m2rkYz2IN0GX1vnLSxyJSVNI-1795806398?oppld=49094&amp;mode=VIEW</a></p>
09/07/2012	<p><b>Innovations in Biomedical Computational Science and Technology (R01)</b></p> <p>The NIH is interested in promoting research and developments in biomedical informatics and computational biology that will support rapid progress in areas of scientific opportunity in biomedical research. As defined here, biomedical informatics and computational biology includes database design, graphical interfaces, querying approaches, data retrieval, data visualization and manipulation, data integration through the development of integrated analytical tools, and tools for electronic collaboration, as well as computational and mathematical research including the development of structural, functional, integrative, and analytical computational models and simulations.</p> <p><a href="http://www07.grants.gov/search/search.do?jsessionid=983TKVvTNmJtQrdwM7pg11glZJv5m2rkYz2IN0GX1vnLSxyJSVNI-1795806398?oppld=48913&amp;mode=VIEW">http://www07.grants.gov/search/search.do?jsessionid=983TKVvTNmJtQrdwM7pg11glZJv5m2rkYz2IN0GX1vnLSxyJSVNI-1795806398?oppld=48913&amp;mode=VIEW</a></p>
09/07/2012	<p><b>NEI Research Grant for Secondary Data Analysis (R21)</b></p> <p>This FOA issued by the National Eye Institute (NEI), National Institutes of Health (NIH), encourages Research Project Grant for Secondary Data Analysis (R21) applications from institutions/organizations that propose to conduct secondary data analyses utilizing existing database resources. Applications may be related to, but must be distinct from, the specific aims of the original data collection. The NEI supports an extensive portfolio of clinical trials and large-scale epidemiologic research projects, wherein numerous data collection activities are required to meet each projects specific aims. The resultant wealth of data generated by these studies often provides unique, cost-effective opportunities to investigate additional research questions or develop new analytical approaches secondary to a projects originally intended purpose. Data are not limited to that collected under NEI support but these data are of highest programmatic interest. The R21 may be used to develop new statistical methodologies or to test hypotheses using existing data. Applicants should consider the relevance of their proposed analyses to NEI programs and priorities as described in the National Plan for Eye and Vision Research available at <a href="http://www.nei.nih.gov">http://www.nei.nih.gov</a>.</p> <p><a href="http://www07.grants.gov/search/search.do?jsessionid=983TKVvTNmJtQrdwM7pg11glZJv5m2rkYz2IN0GX1vnLSxyJSVNI-1795806398?oppld=49072&amp;mode=VIEW">http://www07.grants.gov/search/search.do?jsessionid=983TKVvTNmJtQrdwM7pg11glZJv5m2rkYz2IN0GX1vnLSxyJSVNI-1795806398?oppld=49072&amp;mode=VIEW</a></p>
09/07/2012	<p><b>NIMH Career Transition Award for Intramural Investigators (K22)</b></p> <p>The primary goal of the NIMH Career Transition Award for Intramural Investigators (K22) program (hereafter abbreviated as the NIMH Career Transition K22) is to provide support for career intramural investigators at NIMH who aim to transition from the Division of Intramural Research Programs (DIRP) to a research position in the extramural community. Principal investigators will have a demonstrated record of meritorious research in mental health-related fields.</p> <p><a href="http://www07.grants.gov/search/search.do?jsessionid=983TKVvTNmJtQrdwM7pg11glZJv5m2rkYz2IN0GX1vnLSxyJSVNI-1795806398?oppld=48839&amp;mode=VIEW">http://www07.grants.gov/search/search.do?jsessionid=983TKVvTNmJtQrdwM7pg11glZJv5m2rkYz2IN0GX1vnLSxyJSVNI-1795806398?oppld=48839&amp;mode=VIEW</a></p>
09/07/2012	<p><b>Nutrition and Physical Activity Research to Promote Cardiovascular and Pulmonary Health (R01)</b></p>

	<p>This FOA encourages Research Project Grant (R01) applications that propose research on the roles of nutrition and physical activity in the development, prevention, and management of cardiovascular diseases (CVD) or pulmonary diseases. In particular, the FOA aims to (1) improve knowledge of the contribution of diet and physical activity to these conditions and how sleep influences these relationships, (2) increase the evidence base for refining public health recommendations and clinical guidelines regarding these lifestyle behaviors, and (3) develop and test strategies to improve the adoption of these recommendations.</p> <p><a href="http://www07.grants.gov/search/search.do?jsessionid=983TKVvTNmJjTQrdwM7pg11glZJv5m2rkYz2INOGX1vnLSxyJSVNI-1795806398?oppld=49198&amp;mode=VIEW">http://www07.grants.gov/search/search.do?jsessionid=983TKVvTNmJjTQrdwM7pg11glZJv5m2rkYz2INOGX1vnLSxyJSVNI-1795806398?oppld=49198&amp;mode=VIEW</a></p>
09/07/2012	<p><b>Optimization of Small Molecule Probes for the Nervous System (R21)</b>  This FOA issued by participating institutes of the National Institutes of Health, encourages research grant applications from institutions/ organizations that propose to develop new small molecule probes for investigating biological function in the nervous system via the application of advanced medicinal chemistry and the biological testing of compounds. Eligible investigators will have identified probe candidates via screening of small molecule collections, using in vitro assays of biological activity developed to interrogate these collections, and be able to show that the structural features of these small molecules are related to their biological activity. Proposals should nominate small molecule probe candidates from distinct structural series for the further, iterative design and testing of analogues in structure-activity relationship studies, using in vitro assays of biological function adapted to the medium throughout screening requirements of this work. These studies should have the goal of developing a small molecule probe possessing the attributes (eg: affinity, selectivity, activity) required for its use in future pharmacological studies proposed by the investigator. Applicants are strongly encouraged to utilize publicly available cheminformatic capabilities for the acquisition of compounds, and semi-custom synthesis of analogues.</p> <p><a href="http://www07.grants.gov/search/search.do?jsessionid=983TKVvTNmJjTQrdwM7pg11glZJv5m2rkYz2INOGX1vnLSxyJSVNI-1795806398?oppld=49065&amp;mode=VIEW">http://www07.grants.gov/search/search.do?jsessionid=983TKVvTNmJjTQrdwM7pg11glZJv5m2rkYz2INOGX1vnLSxyJSVNI-1795806398?oppld=49065&amp;mode=VIEW</a></p>
09/25/2012	<p><b>Initiative to Maximize Research Education in Genomics (R25)</b>  This funding opportunity supports two types of activities: (1) short, advanced level courses that are intended to disseminate new laboratory techniques, methods, analyses related to the mission of the NHGRI and (2) research education and training initiatives that are linked to specific NHGRI research initiatives, such as Centers of Excellence in Genomic Science (CEGS) and large-scale sequencing and database grants.</p> <p><a href="http://www07.grants.gov/search/search.do?jsessionid=983TKVvTNmJjTQrdwM7pg11glZJv5m2rkYz2INOGX1vnLSxyJSVNI-1795806398?oppld=48935&amp;mode=VIEW">http://www07.grants.gov/search/search.do?jsessionid=983TKVvTNmJjTQrdwM7pg11glZJv5m2rkYz2INOGX1vnLSxyJSVNI-1795806398?oppld=48935&amp;mode=VIEW</a></p>
05/07/2013	<p><b>Image-guided Drug Delivery in Cancer (R01)</b>  This FOA, issued by the National Cancer Institute (NCI), encourages innovative translational research in the development of quantitative in vivo imaging characterization of image-guided drug delivery (IGDD) in cancer, including characterizations of the target, delivery validation, and therapy response. This FOA will support research in development of integrated imaging-based platforms for multifunctional and multiplexed drug delivery systems in cancer. Validation studies in non-human primates or large animal models and first in human studies directed towards translation of IGDD technology into the clinic will be considered appropriate for this FOA.</p> <p><a href="http://www07.grants.gov/search/search.do?jsessionid=983TKVvTNmJjTQrdwM7pg11glZJv5m2rkYz2INOGX1vnLSxyJSVNI-1795806398?oppld=49066&amp;mode=VIEW">http://www07.grants.gov/search/search.do?jsessionid=983TKVvTNmJjTQrdwM7pg11glZJv5m2rkYz2INOGX1vnLSxyJSVNI-1795806398?oppld=49066&amp;mode=VIEW</a></p>

**NATIONAL ENDOWMENT FOR THE HUMANITIES (NEH)**

Close Date	Opportunity
10/29/2009	Collaborative Research

	<p>Collaborative Research Grants support original research undertaken by a team of two or more scholars or research coordinated by an individual scholar that, because of its scope or complexity, requires additional staff and resources beyond the individual's salary. Eligible projects include: research that significantly adds to knowledge and understanding in the humanities; conferences on topics of major importance in the humanities that will benefit ongoing research; archaeological projects that include the interpretation and communication of results (projects may encompass excavation, materials analysis, laboratory work, field reports, and preparation of interpretive monographs); and research that uses the knowledge, methods, and perspectives of the humanities to enhance understanding of science, technology, medicine, and the social sciences. These grants support full-time or part-time activities for periods of one to three years. Support is available for various combinations of scholars, consultants, and research assistants; project-related travel; field work; applications of information technology; and technical support and services. All grantees are expected to communicate the results of their work to the appropriate scholarly and public audiences.</p> <p><a href="http://www07.grants.gov/search/search.do;jsessionid=983TKVvTNmJjTQrdwM7pg11glZJv5m2rkYz2IN0GX1vnLSxyJSVN!-1795806398?oppld=49017&amp;mode=VIEW">http://www07.grants.gov/search/search.do;jsessionid=983TKVvTNmJjTQrdwM7pg11glZJv5m2rkYz2IN0GX1vnLSxyJSVN!-1795806398?oppld=49017&amp;mode=VIEW</a></p>
10/29/2009	<p><b>Scholarly Editions</b></p> <p>Scholarly Editions and Translations grants support the preparation of editions and translations of pre-existing texts and documents that are currently inaccessible or available in inadequate editions. Projects must be undertaken by a team of at least one editor or translator and one other staff member. Grants typically support editions and translations of significant literary, philosophical, and historical materials, but other types of work, such as musical notation, are also eligible. Applicants should demonstrate familiarity with the best practices recommended by the Association for Documentary Editing or the Modern Language Association Committee on Scholarly Editions. Translation projects should also explain the approach adopted for the particular work to be translated. Editions and translations produced with NEH support contain scholarly and critical apparatus appropriate to the subject matter and format of the edition. This usually means introductions and annotations that provide essential information about the form, transmission, and historical and intellectual context of the texts and documents involved. Proposals for editions of foreign language materials in the original language are eligible for funding, as well as proposals for editions of translated materials.</p> <p><a href="http://www07.grants.gov/search/search.do;jsessionid=983TKVvTNmJjTQrdwM7pg11glZJv5m2rkYz2IN0GX1vnLSxyJSVN!-1795806398?oppld=49018&amp;mode=VIEW">http://www07.grants.gov/search/search.do;jsessionid=983TKVvTNmJjTQrdwM7pg11glZJv5m2rkYz2IN0GX1vnLSxyJSVN!-1795806398?oppld=49018&amp;mode=VIEW</a></p>
11/03/2009	<p><b>National Digital Newspaper Program</b></p> <p>NEH is soliciting proposals from institutions to participate in the National Digital Newspaper Program (NDNP). NDNP is creating a national, digital resource of historically significant newspapers published between 1836 and 1922, from all the states and U.S. territories. This searchable database will be permanently maintained at the Library of Congress (LC) and be freely accessible via the Internet.</p> <p><a href="http://www07.grants.gov/search/search.do;jsessionid=983TKVvTNmJjTQrdwM7pg11glZJv5m2rkYz2IN0GX1vnLSxyJSVN!-1795806398?oppld=49087&amp;mode=VIEW">http://www07.grants.gov/search/search.do;jsessionid=983TKVvTNmJjTQrdwM7pg11glZJv5m2rkYz2IN0GX1vnLSxyJSVN!-1795806398?oppld=49087&amp;mode=VIEW</a></p>
12/08/2009	<p><b>Sustaining Cultural Heritage Collections</b></p> <p>Sustaining Cultural Heritage Collections helps cultural institutions meet the complex challenge of preserving large and diverse holdings of humanities materials for future generations by supporting preventive conservation measures that mitigate deterioration and prolong the useful life of collections. Libraries, archives, museums, and historical organizations across the country are responsible for collections of books and manuscripts, photographs, sound recordings and moving images, archaeological and ethnographic artifacts, art, and historical objects that facilitate research, strengthen teaching, and</p>

	<p>provide opportunities for life-long learning in the humanities. To preserve and ensure continued access to such collections, institutions must implement preventive conservation measures, which encompass managing relative humidity, temperature, light, and pollutants in collection spaces, providing protective storage enclosures and systems for collections, and safeguarding collections from theft and from natural and man-made disasters. As they strive to be effective stewards of humanities collections, cultural repositories are increasingly interested in sustainable preservation strategies. NEH therefore invites proposals that explore and implement energy-efficient and cost-effective preventive conservation measures designed to mitigate the greatest risks to collections. To help institutions develop sound preventive conservation projects, NEH encourages collaborative and interdisciplinary planning, which may be especially helpful for identifying sustainable strategies. Such planning would include consideration of the following factors: the nature of the materials in a collection; the performance of the building, its envelope, and its systems in moderating internal environmental conditions; the capabilities of the institution; the nature of the local climate and the effects of climate change; the cost-effectiveness and energy efficiency of various approaches to preventive conservation; and the project's impact on the environment.</p> <p><a href="http://www07.grants.gov/search/search.do?jsessionid=983TKVvTNmJjTQrdwM7pg11gIZJv5m2rkYz2INOGX1vnLSxyJSVN!-1795806398?oppld=49174&amp;mode=VIEW">http://www07.grants.gov/search/search.do?jsessionid=983TKVvTNmJjTQrdwM7pg11gIZJv5m2rkYz2INOGX1vnLSxyJSVN!-1795806398?oppld=49174&amp;mode=VIEW</a></p>
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**NATIONAL SCIENCE FOUNDATION (NSF)**

<b>Close Date</b>	<b>Opportunity</b>
10/05/2009	<p><b>Science Master's Program (SMP)</b>            The Science Master's Program prepares graduate students for careers in business, industry, nonprofit organizations, and government agencies by providing them not only with a strong foundation in science, technology, engineering and mathematics (STEM) disciplines, but also with research experiences, internship experiences, and the skills to succeed in those careers. The program is intended to catalyze the creation of institution-based efforts that can be sustained without additional federal funding. This program is also intended to encourage diversity in student participation so as to contribute to a broadly inclusive, well-trained science and engineering workforce.</p> <p><a href="http://www.nsf.gov/publications/pub_summ.jsp?ods_key=nsf09607">http://www.nsf.gov/publications/pub_summ.jsp?ods_key=nsf09607</a></p>
10/21/2009	<p><b>Centers for Chemical Innovation (CCI)</b>            The Centers for Chemical Innovation (CCI) Program supports research centers focused on major, long-term fundamental chemical research challenges. CCIs that address these challenges will produce transformative research, lead to innovation, and attract broad scientific and public interest. CCIs are agile structures that can respond rapidly to emerging opportunities and make full use of cyberinfrastructure to enhance collaborations. CCIs may partner with researchers from industry, government laboratories and international organizations. CCIs integrate research, innovation, education, and public outreach and include a plan to broaden participation of underrepresented groups. The CCI program is a two-phase program. Both phases are described in this solicitation. Phase I CCIs receive significant resources to develop the science and integrative elements of a CCI before requesting Phase II funding. Phase I proposals funded in FY2010 will seek Phase II funding in FY2013. Only organizations receiving Phase I awards in FY2007 are eligible to request Phase II funding in FY2010.</p> <p><a href="http://www.nsf.gov/publications/pub_summ.jsp?ods_key=nsf09597">http://www.nsf.gov/publications/pub_summ.jsp?ods_key=nsf09597</a></p>
10/22/2009	<p><b>Research Experiences for Undergraduates (REU)</b>            The Research Experiences for Undergraduates (REU) program supports active</p>

	<p>research participation by undergraduate students in any of the areas of research funded by the National Science Foundation. This solicitation features two mechanisms for support of student research: (1) REU Sites are based on independent proposals to initiate and conduct projects that engage a number of students in research. REU Sites may be based in a single discipline or academic department, or on interdisciplinary or multi-department research opportunities with a coherent intellectual theme. Proposals with an international dimension are welcome. (2) REU Supplements may be requested for ongoing NSF-funded research projects or may be included as a component of proposals for new or renewal NSF grants or cooperative agreements. Undergraduate student participants in either Sites or Supplements must be citizens or permanent residents of the United States or its possessions. Students may not apply to NSF to participate in REU activities. Students apply directly to REU Sites.</p> <p><a href="http://www.nsf.gov/publications/pub_summ.jsp?ods_key=nsf09598">http://www.nsf.gov/publications/pub_summ.jsp?ods_key=nsf09598</a></p>
11/12/2009	<p><b>Research and Evaluation on Education in Science and Engineering</b></p> <p>The Research and Evaluation on Education in Science and Engineering (REESE) program seeks to advance research at the frontiers of STEM learning, education, and evaluation, and to provide the foundational knowledge necessary to improve STEM teaching and learning at all educational levels and in all settings. This solicitation calls for four types of proposals -- Pathways, Knowledge Diffusion, Empirical Research, and Large Empirical Research. The goals of the REESE program are: (1) to catalyze discovery and innovation at the frontiers of STEM learning, education, and evaluation; (2) to stimulate the field to produce high quality and robust research results through the progress of theory, method, and human resources; and (3) to coordinate and transform advances in education, learning research, and evaluation. REESE pursues its mission by developing an interdisciplinary research portfolio focusing on core scientific questions about STEM learning in current and emerging learning contexts, both formal and informal, from childhood through adulthood, and from before school through to graduate school and beyond into the workforce. REESE places particular importance upon the involvement of young investigators in the projects, at doctoral, postdoctoral, and early career stages, as well as the involvement of STEM disciplinary experts. In addition, research questions related to educational research methodology and evaluation are central to the REESE activity.</p> <p><a href="http://www07.grants.gov/search/search.do;jsessionid=983TKVvTNmJtQrdwM7pg11glZJv5m2rkYz2IN0GX1vnLSxyJSVN!-1795806398?oppld=48857&amp;mode=VIEW">http://www07.grants.gov/search/search.do;jsessionid=983TKVvTNmJtQrdwM7pg11glZJv5m2rkYz2IN0GX1vnLSxyJSVN!-1795806398?oppld=48857&amp;mode=VIEW</a></p>
12/03/2009	<p><b>International Collaboration in Chemistry between US Investigators and their Counterparts Abroad (ICC)</b></p> <p>The NSF seeks to enhance opportunities for collaborative activities between U.S. and foreign investigators. To realize this goal, the Division of Chemistry at NSF has partnered with Germany, Austria, United Kingdom, China, France, Japan, Russia, Poland, Luxemburg, and Spain. NSF Chemistry will accept collaborative research proposals in chemistry, written in English, which establish new bilateral collaborations between US investigators and investigators from the countries listed above. It is envisioned that the program will be expanded to include additional partnering foreign agencies in the coming years. The program seeks new and highly innovative 3-year collaborative projects that break new ground and demonstrate a high level of synergy between the collaborating investigators. Formation of new collaborations is strongly encouraged. Investigators who have been collaborators must demonstrate that the proposed project is new and represents a new research direction for the collaborative team. The program will not accept proposals for projects that are currently funded by other funding sources. The program will also not accept proposals for projects that largely overlap or are closely related to research projects that are currently carried out in the collaborators' laboratories. The proposed 3-year projects</p>

	<p>must be in areas that are supported by the NSF Division of Chemistry's newly announced programs in Chemical Synthesis; Chemical Catalysis; Theory, Models and Computational Methods; Chemical Measurement and Imaging; Chemical Structure, Dynamics and Mechanisms; Macromolecular, Supramolecular and Nanochemistry; Environmental Chemical Sciences; or Chemistry of Life Process.</p> <p><a href="http://www.nsf.gov/publications/pub_summ.jsp?ods_key=nsf09608">http://www.nsf.gov/publications/pub_summ.jsp?ods_key=nsf09608</a></p>
12/08/2009	<p><b>CHE-DMR-DMS Solar Energy Initiative (SOLAR)</b></p> <p>The purpose of the CHE-DMR-DMS Solar Energy Initiative is to support interdisciplinary efforts by groups of researchers to address the scientific challenges of highly efficient harvesting, conversion, and storage of solar energy. Groups must include three or more co-Principal Investigators of whom one must be a researcher in chemistry, a second in materials, and a third in mathematical sciences in areas supported by the Divisions of Chemistry, Materials Research, and Mathematical Sciences. The intent is to encourage new collaborations in which the mathematical sciences are linked in a synergistic way with the chemical and materials sciences to develop novel, potentially transformative approaches in an area of much activity but largely incremental advances. Successful proposals will offer potentially transformative projects, new concepts, and interdisciplinary education through research involvement based on the integrated expertise and synergy from the three disciplinary communities.</p> <p><a href="http://www.nsf.gov/publications/pub_summ.jsp?ods_key=nsf09604">http://www.nsf.gov/publications/pub_summ.jsp?ods_key=nsf09604</a></p>
01/07/2010	<p><b>Discovery Research K-12</b></p> <p>The Discovery Research K-12 (DR K-12) program seeks to enable significant advances in preK-12 student and teacher learning of the STEM disciplines through development, study, and implementation of resources, models, and technologies for use by students, teachers, and policymakers. Projects funded under this solicitation begin with a research question or a hypothesis about how to improve preK-12 STEM learning and teaching. Projects create or adapt and study innovative resources, models, or technologies and determine how and why implementation affects STEM learning. DR K-12 invites proposals that meet a variety of educational needs, from those that address immediate and pressing challenges facing preK-12 STEM education to those that anticipate opportunities for the future. DR K-12 especially encourages proposals that challenge existing assumptions about learning and teaching within or across STEM fields, envision needs of learners in 10-15 years, and consider new and innovative ways to educate students and teachers. Project goals, designs, and working strategies should be informed by prior research and practical experience drawn from all relevant disciplines, while focusing on concepts and skills that are central to STEM education. The DR K-12 program is primarily concerned with improving education of students and teachers in formal settings. As appropriate, the program encourages projects also to draw from knowledge and practice of learning in informal settings. While many projects supported under this solicitation will focus on exploratory development and testing of innovative ideas for some specific facet of STEM education, all proposals must explain how the work can lead ultimately to successful adoption of findings or products in the K-12 enterprise on a national scale. The DR K-12 program accepts proposals for exploratory projects, full research and development projects, and synthesis projects, as well as for conferences and workshops related to the mission of the program.</p> <p><a href="http://www07.grants.gov/search/search.do?jsessionid=983TKVvTNmJtQrdwM7pg11glZJv5m2rkYz2IN0GX1vnLSxyJSVN!-1795806398?oppld=48881&amp;mode=VIEW">http://www07.grants.gov/search/search.do?jsessionid=983TKVvTNmJtQrdwM7pg11glZJv5m2rkYz2IN0GX1vnLSxyJSVN!-1795806398?oppld=48881&amp;mode=VIEW</a></p>