Research Stipends
Center for the Business of Government
Due date: Mar 01, 2013

The IBM Center for the Business of Government is solicit proposals to prepare reports with insightful findings and actionable recommendations for government executives and managers. It has chosen to focus on the following six topics that align with the administration's strategies to boost government performance:
1. Performance improvement and analysis
2. Workforce transformation
3. Collaboration and management across boundaries
4. Reforming federal contracting and acquisition
5. Transparency and participatory democracy, using Web 2.0 technology

The aim of the IBM Center for The Business of Government is to tap into the best minds in academe and the nonprofit sector who can use rigorous public management research and analytic techniques to help public sector executives and managers improve the effectiveness of government. The center is looking for very practical findings and actionable recommendations - not just theory or concepts - in order to assist executives and managers to more effectively respond to mission and management challenges.

Steve Berlin/CITGO Grant  
American Accounting Association (AAA)  
Due date: Mar 09, 2013

The purpose of this program is to foster academics' understanding of the contemporary external reporting and governance challenges faced by preparers. Such understanding might be fostered by academics conducting field research, field studies, working in the field, or other such activities.

Topic examples include, but are not limited to,
- the application of judgment and expertise in arriving at estimates reported in financial statements;
- the role of accounting in governance;
- preparation of an informative Management's Discussion and Analysis in compliance with SEC guidelines;
- enhancing the credibility and information value of voluntary disclosures; and
- strategic uses of financial reporting to reduce information asymmetries.

http://aaahq.org/awards/BerlinCitgo.htm

Judicial Internship Program
Supreme Court of the United States
Due date: Mar 10, 2013

The Judicial Internship Program at the Supreme Court offers advanced undergraduates and graduating seniors who have interests in law, management, and social sciences a unique opportunity to gain exposure to the field of judicial administration through work in the Office of the Counselor to the Chief Justice.

The Program strives to offer its participants an experience that transcends that of other opportunities available to undergraduates. Its location within the country's highest court, combined with the intimacy of having only two Judicial Interns each term creates an environment of substantial responsibility, learning, and collegiality.

Judicial Interns perform several routine but important office tasks, which include summarizing news articles and preparing memoranda and correspondence. Interns also conduct background research for speeches and briefings provided to visiting foreign dignitaries.

Additionally, interns may participate in the diverse research projects conducted by the Supreme Court Fellow and the Counselor. These projects require interns to gather, assemble and synthesize information from a wide range of sources. Such assignments demand experience with office and library resources, the ability to work under time constraints, strict attention to detail, creative thinking, and editorial skills.

Office research is completely unrelated to the case work of the Supreme Court. Interns do not work on cases pending before the Court or with the Justices. Circumstances permitting and with approval, interns may also take advantage of the Court's extensive resources to work on their
own academic or other research projects.

Participants usually find the internship both interesting and educational. Since the judicial branch operates on a fraction of the scale of the executive and legislative branches, interns readily gain familiarity with the way the Court functions.

The Program also enables participants to become familiar with the various internal offices that support the Court. Recent interns have received tours of the Marshal's Office, the Clerk's Office, Data Systems, and the Library.

When time permits, interns may observe Court sessions and take advantage of outside lectures and conferences. The office occasionally holds educational luncheon meetings with individuals from government, academia, and private institutions. In recent years interns have attended luncheons with Associate Justices, the Counsel to the President, and the Solicitor General.


**John Hanson Memorial Prize**  
Actuarial Foundation  
**Due date:** Mar 15, 2013

This prize is awarded for the best paper on an employee benefits topic. Papers will be judged on appropriateness of subject material, timeliness of topic, originality, and practical application to employee benefits. Papers must have been published within the past two years and only submitted once.

http://www.actuarialfoundation.org/programs/actuarial/john_hanson_submission_form.shtml

**EDUCATION**  
See also opportunities listed under MULTIPLE DISCIPLINES

**Research Grants Program**  
American Educational Research Association (AERA)  
**Due Date:** March 1, 2013

With support from the National Science Foundation (NSF), the AERA Grants Program announces its Research Grants competition. The program seeks to stimulate research on U.S. education issues using data from the large-scale, national and international data sets supported by the National Center for Education Statistics (NCES), NSF, and other federal agencies, and to increase the number of education researchers using these data sets. The program supports research projects that are quantitative in nature, include the analysis of existing data from NCES, NSF or other federal agencies, and have U.S. education policy relevance. AERA invites education-related research proposals using NCES, NSF, and other federal data bases. Applications are encouraged from a variety of disciplines, such as but not limited to, education, sociology, economics, psychology, demography, statistics, and psychometrics.
The Governing Board for the AERA Grants Program has established the following four strands of emphasis for proposals. Applicants are encouraged to submit proposals that
- develop or benefit from new quantitative measures or methodological approaches for addressing education issues;
- include interdisciplinary teams with subject matter expertise, especially when studying science, technology, engineering and mathematics (STEM) learning;
- analyze TIMSS, PISA, or other international data resources; and
- include the integration and analysis of more than one data set.

Research projects related to at least one of the strands above and to science and/or mathematics education are especially encouraged. Other topics of interest include policies and practices related to student achievement in STEM, contextual factors in education, educational participation and persistence (kindergarten through graduate school), early childhood education, and postsecondary education. The research project must include the analysis of data from at least one of the large-scale, nationally or internationally representative data sets supported by NCES, NSF, or other federal agency, such as the U.S. Department of Labor, the U.S. Census Bureau, and the National Institutes of Health. Additional data sets may be used in conjunction with the obligatory federal data set. If international data sets are used, the study must include U.S. education.

http://www.aera.net/ProfessionalOpportunitiesFunding/FundingOpportunities/AERAGrantsProgram/ResearchGrants/tabid/12813/Default.aspx

**Institutional Grants**
*Tinker Foundation, Inc*
**Due Date: March 1, 2013**

The mission of the Tinker Foundation is to promote the development of an equitable, sustainable and productive society in Latin America and to enhance understanding in the USA or Latin America and how U.S. policies may impact the region. Tinker Foundation institutional grants are awarded to organizations and institutions that promote the interchange and exchange of information within the community of those concerned with the affairs of Latin America. Proposals must be geographically focused on Latin America. The Foundation has five newly defined program interests, and is no longer funding proposals that generally address environmental policy, economic policy or governance issues as before. The Foundation hopes that its new focus will further improve its ability to address the ever-changing needs of grant seekers, and ultimately of those communities living in Latin America.

Topically, the projects should address one of the following categories:
1. Democratic Governance with Growth and Security
2. Sustainable Resource Management
3. Education

The Foundation has an additional interest in projects that explore U.S. policy toward Latin America and those that undertake scientific research or address policy and governance issues relating to Antarctica. Funds for these latter areas are more limited.
Projects should have a strong public policy component, offer innovative solutions to problems facing these regions, and incorporate new mechanisms for addressing these programmatic areas. Activities may include, but are not restricted to, research projects, workshops and conferences related to the Foundation's areas of interest.

http://www.tinker.org/content/institutional-grants

Unsolicited Grant Opportunities
United States Dept. of Education
Due Date: March 6, 2013

The Institute of Education Sciences announces its willingness to consider unsolicited applications for research, evaluation, statistics, and knowledge utilization projects that would make significant contributions to the mission of the Institute. The Institute's mission is to conduct and support rigorous education statistics, research, and evaluation in order to provide reliable information about the condition of education, education practices that improve academic achievement, and the effectiveness of federal and other education programs, policies and practices. Unsolicited applications are defined as those that are not eligible for funding under the Institute's current grant competitions. The Institute's current grant competitions are those for the fiscal year (FY2012), both open and closed, which are described at http://ies.ed.gov/funding/.

For example, the Institute could consider unsolicited proposals to conduct innovative research in areas that fall outside the Institute's current research priorities (the current research priorities are covered by the Institute's regular grant competitions, and are described at http://ies.ed.gov/director/board/priorities.asp) but are not covered by the Institute's regular grant competitions. The Institute could also consider unsolicited proposals that focus on building the capacity of investigators to conduct rigorous research, or of policy-makers or practitioners to utilize evidence in decision-making. In contrast, the Institute would not consider an unsolicited application to conduct research on the effectiveness of a mentoring program for teachers because this content was solicited in the Institute's competitions for Effective Teachers and Effective Teaching Research Grants.

Potential applicants should be aware that the Institute does not provide funds for projects that consist solely of program delivery or the provision of services. In addition, activities supported by the Institute must be relevant to U.S. schools.

http://ies.ed.gov/funding/unsolicited.asp

Partnerships for Innovation: Accelerating Innovation Research (PFI: AIR)
National Science Foundation (NSF)
Due date: Mar 13, 2013 (LOI); May 15, 201 (full proposal)

To continue to strengthen the innovation ecosystem, NSF is revising NSF 12-511 to promote two choices under the Partnerships for Innovation (PFI): Accelerating Innovation Research (AIR) subprogram. The first choice, Technology Translation, encourages the translation of technologically
promising research discoveries made by prior and/or current NSF-funded investigators toward a path of commercialization; while the second choice, Research Alliance, promotes synergistic collaborations between an existing NSF-funded research alliance (including consortia such as Engineering Research Centers, Industry University Cooperative Research Centers, Science and Technology Centers, Nanoscale Science and Engineering Centers, Materials Research Science and Engineering Centers, Centers for Chemical Innovation, and Emerging Frontiers in Research and Innovation grantees) and other public and private entities to motivate the translation and transfer of research discoveries into innovative technologies and commercial reality. Both of these choices are designed to accelerate innovation that results in the creation of new wealth and the building of strong local, regional, and national economies.

http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=504790

Cyberlearning: Transforming Education (Cyberlearning)
National Science Foundation
Due Date: March 15, 2013

Through the Cyberlearning program, NSF seeks to integrate advances in technology with advances in what is known about how people learn to
- better understand how people learn with technology and how technology can be used productively to help people learn, through individual use and/or through collaborations mediated by technology;
- better use technology for collecting, analyzing, sharing, and managing data to shed light on learning, promoting learning, and designing learning environments; and
- design new technologies for these purposes, and advance understanding of how to use those technologies and integrate them into learning environments so that their potential is fulfilled.

Of particular interest are technological advances that allow more personalized learning experiences, draw in and promote learning among those in populations not served well by current educational practices, allow access to learning resources anytime and anywhere, and provide new ways of assessing capabilities. It is expected that Cyberlearning research will shed light on how technology can enable new forms of educational practice and that broad implementation of its findings will result in a more actively-engaged and productive citizenry and workforce.

Cyberlearning awards will be made in three research categories, each focusing on a different stage of research and development: Exploratory (EXP), Design and Implementation (DIP), and Integration and Deployment (INDP). The Cyberlearning program will also support small Capacity-Building Projects (CAP) and a Cyberlearning Resource Center (CRC).

The following list summarizes the purposes and prerequisites of each project category.

1. EXP: The purpose of this project type is to explore the feasibility of a technological innovation and to shed light on the answers to fundamental research questions related to learning with technology. The prerequisites are a team with a shared vision that takes into account what is known about how people learn, learning in the targeted domain, use of technology for such learning, and challenges to technology use.
2. DIP: The purpose of this project type is to ascertain the potential of ideas, develop guidelines for use of an innovation, and answer research questions about learning with technology. The prerequisites are same as EXP plus completed work equivalent to one or more Cyberlearning EXP projects.

3. INDP: The purpose of this project type is to integrate or extend the use of one or more technologically-sophisticated efforts that have already shown promise and answer a variety of research questions related to learning with technology. The prerequisites are same as EXP plus completed work equivalent to one or more Cyberlearning DIP projects.

4. CAP: The purpose of this project type is partnership building and community building, including conferences, workshops, and short courses.

5. Cyberlearning Resource Center: The purpose of this project type is to support Cyberlearning projects and programmatic efforts. The prerequisites are lead institution should have cyberlearning expertise and demonstrated capacity to plan, develop, and manage a national center that provides technical support for a diverse portfolio of projects.

The participating NSF components are the Directorate for Computer & Information Science & Engineering (CISE), the Directorate for Education & Human Resources (EHR), the Directorate for Social, Behavioral & Economic Sciences (SBE), and the Office of Cyberinfrastructure (OCI).

http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=503581

Arts in Education Model Development and Dissemination Grants Program
US Dept. of Education
Due Date: March 16, 2013

The Arts in Education Model Development and Dissemination grant (AEMDD) program supports the enhancement, expansion, documentation, evaluation, and dissemination of innovative, cohesive models that are based on research and have demonstrated that they effectively
- integrate standards-based arts education into the core elementary and middle school curriculum,
- strengthen standards-based arts instruction in these grades, and
- improve students' academic performance, including their skills in creating, performing, and responding to the arts.

Projects funded through the AEMDD program are intended to increase the amount of nationally available information on effective models for arts education that integrate the arts with standards-based education programs.

Arts in Education: Arts-Based Early Education  
Kansas Arts Commission  
**Due Date:** March 18, 2013

The Arts-in-Education grant programs of the Kansas Arts Commission provide integration of the arts in classrooms, community settings, preschools, and institutions. Through these grants, the commission supports programs that are innovative and responsive to children, community, and classroom needs with programs that utilize proven methods of learning and evaluation. The commission offers three arts-in-education grant programs. Arts-based early education grants offer support for programs that provide learning about and through the arts for children from birth through five years old.

The following are desired outcomes of this program:
1. To demonstrate that children use the arts for exploration and creative expression
2. To achieve optimum child development through involvement in the arts
3. To use the arts to integrate and enhance all other forms of age-appropriate learning
4. To inform parents of the value of the arts and provide them with the skills and knowledge to continue with their children's education in the arts


**ENGINEERING & COMPUTER SCIENCE**  
See also opportunities listed under MULTIPLE DISCIPLINES

**Mickey Leland Internship Program**  
U.S. Department of Energy  
**Due date:** Jan 18, 2013

The Mickey Leland Energy Fellowship (MLEF), sponsored by the U.S. Department of Energy's Office of Fossil Energy, is a 10-week summer internship program that provides opportunities to minority and female students who are pursuing degrees in science, technology (IT), engineering, or mathematics (STEM majors). Candidates who are selected will have the opportunity to work on focused research projects consistent with the mission of the Office of Fossil Energy. During the 10 weeks, students will work at one of several locations. At the conclusion of the internship, students will attend a "Technical Forum" where they will present their research project and tour several technical sites located nearby (the location of the technical forum changes every year).

Candidates will receive a paid stipend during the program, in addition to approved transportation expenses to and from the internship site and technical forum location. The MLEF program allows students to gain valuable experience in DOE/FE mission-related research programs, and offers an "inside view" of federal employment which encourages students to consider future opportunities within the Department of Energy.

[http://www.fossil.energy.gov/education/lelandfellowships](http://www.fossil.energy.gov/education/lelandfellowships)
Oak Ridge Science Semester (ORSS)  
Oak Ridge Institute for Science and Education (ORISE)  
**Due Date:** March 1, 2013

The Oak Ridge Science Semester (ORSS) enables students to join ongoing investigations at the Oak Ridge National Laboratory (ORNL) in research areas as diverse as astrophysics, cell biology, DNA sequencing, genetic mutagenesis, parallel computing, robotics, toxicology, and much more. In their research, ORSS student participants use the sophisticated resources available at ORNL, including supercomputers, state-of-the-art electron microscopes, lasers, and analytical instruments such as a fourier transform mass spectrometer and a scanning tunneling microscope. Participants in this fall semester program join one of the research groups at ORNL, with a scientist from the ORNL staff serving as a mentor. This research experience, using ORNL's sophisticated resources, is the core of the program. Students are expected to contribute significantly to the design and methodological approach of their research activity, and often find this the most demanding and rewarding experience of their college careers.

[http://www.acm.edu/programs/15/oakridge/index.html](http://www.acm.edu/programs/15/oakridge/index.html)

Environmentally Sustainable Binder Systems for Energetic Materials  
US Dept. of Defense (DOD)  
**Due Date:** March 12, 2013

The objective of this Statement of Need (SON) is to develop novel binder systems for energetic formulations. Novel binder systems should not include diisocyanates, phthalates, or other chemical compounds that are known or reasonably anticipated to have significant environmental, safety or occupational health (ESOH) issues. These binders should maintain or exceed the performance, mechanical properties, and processability requirements of comparable binders and should decrease sensitivity of the energetic formulation to external stimulus, including impact, friction, shock, and electrostatic discharge. Proposals can target binders commonly used in energetic systems like
- cast-cured secondary explosives (e.g., PBXN-106, PBXN-109, PBXN-110, AFX-757),
- composite rocket propellants (e.g., ammonium perchlorate in polybutadiene binder cured with diisocyanate),
- gun propellants (e.g., phthalates commonly used in propellant formulations to maintain mechanical properties), or
- pyrotechnics (e.g., polyester resins with plasticizers like Laminac).

Additional consideration will be given for binder systems that will encase energetic materials to prevent migration when exposed to the environment or binders that will facilitate reuse, recovery or recycling (R3) of the energetic formulation during demilitarization.

The exploratory research effort should establish the proof-of-principle to support a follow-on multi-year development effort. The proposed work should include an initial evaluation of relevant mechanical properties, binder compatibility with the current suite of commonly used energetic materials, and small-scale energetic formulation performance and sensitivity testing. In addition, the proposed work should include a preliminary evaluation of the potential
environmental properties and toxicity of the binder system. Proposals to reformulate binder systems that have already been tested extensively in energetic formulations such as glycidal azide polymer (GAP), cellulose acetate nitrate (CAN), and bis(dinitropropyl) acetal (BDNPA) will not be considered.

SERDP supports environmental research relevant to the management and mission of the DOD and supports efforts that lead to the development and application of innovative environmental technologies or methods that improve the environmental performance of DOD by improving outcomes, managing environmental risks, and/or reducing costs or time required to resolve environmental problems.

http://www.serdp.org/Funding-Opportunities/SERDP-Solicitations/SEED-SONs-FY14

**Partnerships for Innovation: Accelerating Innovation Research (PFI: AIR)**
National Science Foundation
**Due Date:** March 13, 2013

To continue to strengthen the innovation ecosystem, NSF is revising NSF 12-511 to promote two choices under the Partnerships for Innovation (PFI): Accelerating Innovation Research (AIR) subprogram.

The first choice, Technology Translation, encourages the translation of technologically promising research discoveries made by prior and/or current NSF-funded investigators toward a path of commercialization; while the second choice, Research Alliance, promotes synergistic collaborations between an existing NSF-funded research alliance (including consortia such as Engineering Research Centers, Industry University Cooperative Research Centers, Science and Technology Centers, Nanoscale Science and Engineering Centers, Materials Research Science and Engineering Centers, Centers for Chemical Innovation, and Emerging Frontiers in Research and Innovation grantees) and other public and private entities to motivate the translation and transfer of research discoveries into innovative technologies and commercial reality. Both of these choices are designed to accelerate innovation that results in the creation of new wealth and the building of strong local, regional, and national economies.

http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=504790

**Communications and Networking Discovery and Invention - ONRBA12-007**
United States Department of Defense (DOD)
**Due date:** Mar 23, 2013 (white paper); Jun 29, 2013 (full proposal)

The goal of this program is to support the FORCEnet vision by developing measurable advances in technology that can directly enable and enhance end-to-end connectivity and quality-of-service for mission-critical information exchange among such widely dispersed naval, joint and coalition forces. The vision is to provide high throughput robust communications and networking to ensure all warfighters, from the operational command to the tactical edge - have access to information, knowledge, and decision-making necessary to perform their assigned tasks.

Proposals for potential FY13 Exploratory Development/Applied Research projects are sought under the following focus areas:
1. Back-end electronics devices/sub-systems/architectures/algorithms for ultra-wideband apertures with simultaneous low noise, low distortion, and very high instantaneous dynamic range
2. Innovative approaches for spectrum co-existence (underlay/overlay, interference cancellation, etc.) of military waveforms with commercial communications
3. High pulse power (variable pulse rep frequency) fiber laser emission in the blue-green (450-520 nm) using all-fiber power-scaling and combining techniques. Fully-passive (or minimal electrical/thermal control) filter designs with high transmissivity, narrow optical bandpass (< 0.5 nm), and large field-of-view in the blue-green region. High speed (Gbps), single-photon counting, blue-green detectors and high performance receiver waveforms/protocols with relaxed sync/timing accuracies
4. Machine learning techniques and other novel approaches for autonomous network management
5. Robust tools/approaches for de-confliction of traffic prioritization policies, according to Commander's Intent, over a distributed, tactical network.

http://www.grants.gov/search/search.do?mode=VIEW&oppId=142735

Research Initiation Grants in Engineering Education (RIGEE)
National Science Foundation
Due Date: March 29, 2013

Engineering faculty possess both deep technical expertise in their engineering discipline and the primary responsibility for educating future engineers. As such, engineering faculty are in a unique position to help address critical challenges in engineering education. The RIGEE program enables engineering faculty who are renowned for teaching, mentoring, or leading educational reform efforts on their campus to initiate collaborations with colleagues in the learning and cognitive sciences to address difficult, boundary-spanning problems in how we educate engineers.

A wide range of engineering education research topics can be addressed in RIGEE proposals; the emphasis of RIGEE is on initiating research projects in engineering education rather than supporting research on any specific topic. Proposals are encouraged on any topic that explores engineering education from an inter-disciplinary perspective. RIGEE projects should combine engineering approaches with those from learning and cognitive sciences, engineering education, social sciences, and related fields in synergistic ways and enable engineering faculty to develop expertise in engineering education research.

RIGEE awards are intended to broaden participation of engineering faculty in engineering education research. Possible outcomes commensurate with the goals of this program are
- enabling engineering faculty to develop collaborative, first-stage, inter-disciplinary efforts to address boundary-spanning challenges in engineering education;
- supporting engineering faculty in developing expertise in engineering education; and
- increasing the number of faculty and universities who apply for and receive EEC funding to initiate projects and programs in engineering education research.

The intent of the RIGEE program is to broaden participation of faculty in engineering education
research rather than create an additional funding channel for established engineering education researchers. The Research in Engineering Education program on the EEC website provides opportunities for established researchers.


http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=503603

**Materials Processing and Manufacturing (MPM)**
National Science Foundation  
**Due Date:** March 31, 2013

The MPM program supports fundamental, hypothesis-driven research on the interrelationship of materials processing, structure, properties, performance and process control. Analytical, experimental, and numerical studies are supported covering novel processing methods for any materials system (metals, polymers, ceramics, hybrids, composites, etc.). Studies should include the consideration of cost, performance and feasibility of scale-up, as appropriate. Studies that address multi-scale and/or multi-functional materials systems are encouraged as are studies that support environmentally-benign manufacturing. Collaborative proposals with industry (the GOALI program) are encouraged. Micro-scale (and larger) processes are covered by the MPM program; processing at the submicron or nano scale is likely covered by the Nanomanufacturing (NM) program. Solid freeform fabrication process proposals are considered in the Manufacturing Machines and Equipment (MME) program, as are material removal process proposals such as cutting or grinding. Proposals that primarily focus on fundamental material composition-structure-property studies (i.e., neither processing nor manufacturing plays a significant role in the proposed work) should be submitted to the Materials and Surface Engineering (MSE) program or to the appropriate program in the DMR division.

http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=13344

**ARPA-E Open Funding Opportunity Announcement (Open FOA)**
United States Department of Energy (DOE)  
**Due date:** Mar 30, 2013 (LOI); Apr 12, 2013 (full proposal)

To address the challenges imposed by the rapidly evolving global energy market, ARPA-E seeks to support transformational research in all areas of energy R&D, including resource identification, extraction, transportation and use, and energy generation, storage, transmission and use in both the transportation and stationary power sectors. Areas of research responsive to this FOA include (but are not limited to) electricity generation by both renewable and non-renewable means, electricity transmission, storage, and distribution; energy efficiency for buildings, manufacturing and commerce, and personal use; and all aspects of transportation, including the production and distribution of both renewable and non-renewable fuels, electrification, and energy efficiency in transportation.
The result of a successful ARPA-E project will be such that at the end of the project the transformational technology will be sufficiently advanced and well defined in terms of performance and risk to promote next-stage development or transfer of the project to next-stage developers. Projects under this FOA must be aimed at more than progress toward identified project goals; the project must be aimed at actual delivery of these project goals. The R&D effort on later-stage technology development projects must carry the risk reduction process for the technology to the point at which entrepreneurial decisions can be made with confidence.

ARPA-E may issue awards in one or both of the following funding categories: "Proof-of-Concept Seedling Project" and "Technology Development Project."

Proof-of-Concept Seedling Project: These projects typically focus on early-stage, proof-of-concept level R&D efforts. Applicants should submit evidence of an idea, described in sufficient technical detail to allow reviewers to meaningfully evaluate the proposed project.

Technology Development Project: These projects typically focus on early-stage prototypes of various technology concepts for which some kind of initial proof-of-concept component demonstration already exists. Applicants should submit concrete data that supports the success of the proposed project.

http://www.grants.gov/search/search.do?mode=VIEW&oppId=148773

FINE ARTS

CWF Grants
Creative Work Fund (CWF)
Due Date: March 1, 2013

The CWF awards grants that range in size for projects in which artists and nonprofit organizations are working closely together to create new art works. Any kind of nonprofit organization is eligible to apply to collaborate with an artist. The Fund takes the idea of a close working relationship between the artist and the organization very seriously and specifically wants to support the creation stage for a new art work.

Each year, the Creative Work Fund invites artists in two broadly-defined artistic categories to apply. To be eligible for grants to be awarded in 2013, the project's lead artist must be a traditional artist or a visual artist. The Creative Work Fund defines these categories as follows:

Traditional artists create in art forms learned as part of the cultural life of a group of people whose members have a common ethnic heritage, language, religion, occupation, or region. These expressions are deeply rooted in and reflect a community's shared standards of beauty, values, or life experiences. Often they are learned orally or by emulation. Traditional artists may excel as individual artists, work as a group, or work collectively. They may produce works in a variety of forms--oral traditions, performances, crafts, multi-disciplinary works, and others.

Visual artists include those with experience in painting, sculpture, photography, printmaking, installation art, public art, drawing, crafts, graphics, ceramics, design, or artists' books. (Video
and sound-based installation artists and artists creating new genre, time-based works should apply as media artists in a future year.)

A traditional arts or visual arts Creative Work Fund project may culminate in any form, but it must feature a lead artist with a strong track record as a traditional artist or a visual artist. (For example, a visual artist might collaborate with a nonprofit theater company to create a visual environment for a performance rather than develop an exhibition.)

http://www.creativeworkfund.org/index.html

**Literature Fellowships: Creative Writing Fellowships**
National Foundation for the Arts and the Humanities
**Due Date: March 1, 2013**

The NEA Literature Fellowships program offers grants in prose (fiction and creative nonfiction) and poetry to published creative writers that enable the recipients to set aside time for writing, research, travel, and general career advancement. The NEA Literature Fellowships program operates on a two-year cycle with fellowships in prose and poetry available in alternating years. For FY 2013, fellowships in poetry are available. Fellowships in prose will be offered in FY 2014 and guidelines will be available in the fall of 2012.

http://www.grants.gov/search/search.do?mode=VIEW&oppId=130713

**NEA GAP: Art Works Applications, FY 2013**
National Foundation for the Arts and the Humanities
National Endowment for the Arts (NEA)
**Due Date: March 8, 2013**

Applicants will be asked to select the outcome that is most relevant to their projects (they also will be able to select a secondary outcome). When making selections, applicants should identify the outcomes that reflect the results expected to be achieved by their project. If a grant is received, grantees also will be asked to provide evidence of those results. Art Works encourages and supports the following four outcomes:
1. Creation: The creation of art that meets the highest standards of excellence. Support is available for projects to create art that meets the highest standards of excellence across a diverse spectrum of artistic disciplines and geographic locations. Through the creation of art, these projects are intended to replenish and rejuvenate America's enduring cultural legacy.

2. Engagement: Public engagement with diverse and excellent art. Support is available for projects that provide public engagement with artistic excellence across a diverse spectrum of artistic disciplines and geographic locations. These projects should engage the public directly with the arts, providing Americans with new opportunities to have profound and meaningful arts experiences.

3. Learning: Lifelong learning in the arts. Americans of all ages acquire knowledge or skills in the arts. Support is available for projects that provide Americans of all ages with arts learning
opportunities across a diverse spectrum of artistic disciplines and geographic locations. These projects should focus on the acquisition of knowledge or skills in the arts, thereby building public capacity for lifelong participation in the arts.

4. Livability: The strengthening of communities through the arts. Support is available for projects that incorporate the arts and design into strategies to improve the livability of communities. Livability consists of a variety of factors that contribute to the quality of life in a community such as ample opportunities for social, civic, and cultural participation; education, employment, and safety; sustainability; affordable housing, ease of transportation, and access to public buildings and facilities; and an aesthetically pleasing environment. The arts can enhance livability by providing new avenues for expression and creativity.

http://www.arts.gov/grants/apply/GAP13/ArtsEdAW.html

HUMANITIES
See also opportunities listed under MULTIPLE DISCIPLINES

John F. Richards Fellowship Program
American Institute of Afghanistan Studies (AIAS)
Due date: Mar 15, 2013

The American Institute of Afghanistan Studies (AIAS) invites applications for support of short-term research or other scholarly projects that will advance the knowledge of Afghanistan. The Institute will be accepting applications for proposed projects that do not involve travel to Afghanistan as well as those which do involve travel to Afghanistan; however, the ability of AIAS to fund projects with travel to Afghanistan will depend on the outcome of pending negotiations with the funding provider.

http://www.bu.edu/aias/fellowships.html

Visiting Humanities Fellowships
University of Windsor
Due date: Mar 15, 2013

Applications are invited for Visiting Humanities Fellowships, tenable at the University of Windsor in the 2011-2012 academic year. Scholars with research projects in traditional humanities disciplines or in theoretical, historical, or philosophical aspects of the sciences, social sciences, arts, and professional studies are invited to apply. Individuals engaged in interdisciplinary research are particularly encouraged to apply.

Fellows are expected to work in residence at the Humanities Research Group, University of Windsor, for the duration of the award and to deliver a public presentation on their research.

http://www.uwindsor.ca/hrg/hrg/visiting-fellowship
**Interdisciplinary Humanities Provost Postdoctoral Fellowship**  
University of Wisconsin-Milwaukee  
**Due date: Mar 16, 2013**

The provost fellowships are designed to further broaden the academic networks of the group of faculty in residence at C21. Fellowships are awarded to support interdisciplinary research projects in the humanities, which include, but are not limited to, philosophy, history, literature, religious studies, and art history. Proposals employing humanistic approaches from the social and natural sciences and the arts are also welcome. Applicants should be working on topics related to this year's theme "What is 21st century studies?"

The provost fellows are expected to be in residence for one academic year and participate in bi-weekly fellows' seminars, public events, and lectures, as well as the center's major annual conference. The fellows are expected to make a public presentation of research at some point during the year.

[http://www4.uwm.edu/c21/pages/opportunities/forFaculty.html](http://www4.uwm.edu/c21/pages/opportunities/forFaculty.html)

**Short-Term Research Fellowships**  
New York Public Library (NYPL)  
**Due date: Mar 18, 2013**

These short-term fellowships are intended to support visiting scholars conducting research in the Library's unique research and special collections. Fellowships will support research in the humanities including but not limited to art history, cultural studies, history, literature, performing arts, and photography. Fellowships will be held in the following areas of the NYPL: Carl H. Pforzheimer Collection of Shelley and His Circle; Dorot Jewish Division and Slavic, Baltic, and Eastern European Collections; Henry W. and Albert A. Berg Collection of English and American Literature; Manuscripts and Archives Division; the Miriam and Ira D. Wallach Division of Art, Prints and Photographs; New York Public Library for the Performing Arts; and Schomburg Center for Research in Black Culture. Fellows are expected to be in continuous residence for the duration of the fellowship award period as specified in the proposal.


**Iran Heritage Fellowship in the Arts of Iran**  
Smithsonian Institution (SI)  
**Due date: Mar 31, 2013**

The Iran Heritage Foundation (IHF) Fellow at the Freer and Sackler Galleries is intended to promote collection-based research and curatorial training in the arts of Iran. During the course of the fellowship, the incumbent will propose, develop, and implement a project on the museums' post-seventh-century Persian collections. These are particularly strong in three areas: ceramics of the thirteenth and fourteenth centuries, illustrated manuscripts from the fourteenth to the
seventeenth century, and late nineteenth and early twentieth-century photographs in the Archives. Preference will be given to projects on Persian manuscript painting. Otherwise, proposals will be evaluated in terms of merit, originality, and methodology that will advance scholarly and public understanding of the arts of Iran.

The incumbent will work with the Freer and Sackler's curator of Islamic art (and other staff members as necessary) and participate in museum activities to gain experience in collections-based research and curatorial responsibilities. The fellowship culminates in a small exhibition, which the incumbent is responsible for conceiving and executing in consultation and collaboration with Freer and Sackler staff.

http://www.asia.si.edu/research/ihf-fellowship.asp

INTERNATIONAL AREA STUDIES
See also opportunities listed under HUMANITES and MULTIPLE DISCIPLINES

Federal Fiscal Policy Student Internships
Center on Budget and Policy Priorities
Due date: Mar 01, 2013

The Federal Fiscal Policy team informs the debate over federal budget priorities by analyzing major federal budget and tax proposals. The team's work places particular emphasis on the adequacy of funding for programs that assist low- and moderate-income families and the effects of tax proposals on households at different income levels. The team also analyzes long-term budget challenges and trends in the level of federal revenues, income distribution, and tax burdens. The federal fiscal policy intern will research specific subjects related to these policy areas, collect and analyze economic data, and assist in the monitoring of related research and policy developments.

http://www.cbpp.org/jobs/index.cfm?fa=internships

BIAAS Grant Program for United States/Austria Studies
Botstiber Institute for Austrian-American Studies (BIAAS)
Due date: Mar 15, 2013

BIAAS seeks grant proposals for projects aimed at promoting an understanding of the historic relationship between the United States and Austria in the fields of history, politics, economics and law. Grant proposals that further the Institute's mission will also be accepted in the fields of literature, poetry, music and translations. Grants may include support for related lectures, seminars, workshops, conferences, and documentaries. Grants for salary replacement will not be considered.

http://www.botstiber.org/austrian/grantsguidelines.html
**Herbert A. Simon Book Award**  
American Political Science Association (APSA)  
**Due date: Mar 15, 2013**

Nominations are now being accepted for the Herbert A. Simon Book Award for significant contributions to public administration scholarship. Books with publication dates of 2006, 2007, and 2008 are eligible.

[http://www.apsanet.org/content_4936.cfm](http://www.apsanet.org/content_4936.cfm)

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**Internships with the Latin American Program**  
Woodrow Wilson International Center for Scholars  
**Due date: Mar 15, 2013**

The Latin American Program of the Woodrow Wilson International Center for Scholars seeks spring, summer, and fall interns with an interest in, coursework related to, and/or experience working on Latin American issues. This internship is designed to provide the individuals selected with the opportunity for practical experience in an environment that successfully mixes academic study with public policy. Interns will gain valuable experience in a variety of projects such as conference organization, library and Internet research, assistance with the preparation of publications, and administrative assignments in support of Center activities. Internships also provide opportunities to attend events within the Woodrow Wilson Center and around Washington.

[http://www.wilsoncenter.org/opportunity/internships-the-latin-american-program](http://www.wilsoncenter.org/opportunity/internships-the-latin-american-program)

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**LEWI Visitorship Programme**  
Hong Kong Baptist University (HKBU)  
**Due date: Mar 15, 2013**

The aim of the David C. Lam Institute for East-West Studies (LEWI) Visitorship Programme is to facilitate exchange among participating member institutions with a view to promote collaborative research and other scholarly activities with an East-West axis.

The successful applicant is expected to present a seminar or deliver a lecture on his/her research in the receiving institution and to submit the seminar paper(s) to the Institute for publication consideration in the LEWI Working Paper Series.

Priority will be given to applicants whose research areas are on the following themes: environment, sustainability, and mobility.

**Korean Studies Grant 2012**  
Academy of Korean Studies (AKS)  
**Due date: Mar 16, 2013**

The Academy of Korean Studies (AKS) has announced "Korean Studies Grant 2012." The aim of Korean Studies Grant is to deepen the world's understanding of Korea by supporting academic activities that will help spread Korean studies and nurture talented scholars of Korean studies. Programs offered are as follows.  

**Visiting Lectureships** The program places qualified Korean studies lecturers in selected universities for promoting Korean studies.  

**Competitive Research Funding** The program supports investigator-chosen individual or collaborative research on Korea-related subjects.  

**Workshop and Conference Support** The program supports academic workshops and conferences on Korea-related subjects which will be held between June 2012 and May 2013. Scholarly Journal Support AKS assists scholarly journals for the broad dissemination and impact of original research results in Korean Studies.  

**Publication Subsidy** The program supports the publication of scholarly books on Korea-related subjects. It is mandated to support scholarship that makes a substantial contribution to knowledge.  

**Distinguished Paper Award** The program gives distinguished paper awards to authors of excellent research papers published in A&HCI, SSCI and SCI, and Scopus listed journals.


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**International Fellows Program (IFP)**  
International Foundation for Education and Self-Help (IFESH)  
**Due date: Mar 18, 2013**

The IFP began in 1988 in response to the need for technical support of international development nonprofit organizations. The IFP is a nine-month internship for talented recent college graduates and graduate students to provide on-the-job development experience in Africa. Currently, IFESH operates or supports programs in Benin, Cote d'Ivoire, Djibouti, Ethiopia, Ghana, Guinea, Kenya, Liberia, Malawi, Nigeria, Senegal, and South Africa. IFP Fellows provide technical assistance and training to community-based grassroots projects including education, literacy, health development, HIV/AIDS, English as a Second Language, agricultural development, proposal development, managerial training, feasibility studies and small business development.

The program partners with leading international development organizations who are implementing sustainable development projects in sub-Saharan Africa including Africare, UNAIDS and other agencies, Opportunities Industrialization Centers International, Save the Children and World Cocoa Foundation. In addition, Fellows also serve under IFESH's USAID and ECHOES projects as well as assisting host organizations in building sustainable projects.

Upon completion of their assignments, returning Fellows are often employed with recognized development organizations, sometimes those to which they were assigned. This program offers a unique opportunity for participants to contribute technical knowledge and gain practical work experience in economic and social development.

[http://www.ifesh.org/what-we-do/international-educators-for-africa-program/international-fellows-program/](http://www.ifesh.org/what-we-do/international-educators-for-africa-program/international-fellows-program/)
MEDICINE & LIFE SCIENCES
See also opportunities listed under MULTIPLE DISCIPLINES

Role of the Microflora in the Etiology of Gastro-Intestinal Cancer (R01)
United States Department of Health and Human Services (HHS)
Due date: Mar 04, 2013

This FOA, issued by the National Cancer Institute (NCI) and the National Institute on Alcohol Abuse and Alcoholism (NIAAA), encourages innovative multidisciplinary research projects that will advance the mechanistic understanding of microflora influences on Gastro-Intestinal (GI) carcinogenesis. This FOA seeks applications that leverage and integrate information from large, meta-omic data sets to guide studies that identify critical microbial activities that can be mechanistically linked to GI carcinogenesis. Applicants may draw from existing large data sets, and may also propose to generate appropriate new data, including but not limited to data from both gene and protein analysis, such as DNA sequence and copy number, post-translational modifications, secreted signals, and protein-protein interaction data between host factors and individual microbial species, or communities of microbes. Applicants are encouraged to take advantage of existing methodologies and technologies developed by the microbiome and integrative cancer biology communities as well as other relevant technology sources, and to apply existing or new sophisticated data analysis, integration, and modeling methodologies to inform and guide hypothesis driven mechanistic studies on the role of the GI microflora during carcinogenesis. The common goal of the projects should be to understand how the resident microbes interact with the host and the host environment to prevent or enhance carcinogenesis in the GI tract.

http://grants.nih.gov/grants/guide/pa-files/PAR-12-140.html

Plant Genome Research Program (PGRP)
National Science Foundation (NSF)
Due date: Mar 05, 2013

This program is a continuation of the Plant Genome Research Program (PGRP) that began in FY 1998 as part of the National Plant Genome Initiative (NPGI). Since the inception of the NPGI and the PGRP, there has been a tremendous increase in the availability of functional genomics tools and sequence resources for use in the study of key crop plants and their models. Proposals are welcomed that build on these resources to develop conceptually new and different ideas and strategies to address grand challenge questions in plants of economic importance on a genome-wide scale. There is also a continued need for the development of novel and creative tools to facilitate new experimental approaches or new ways of analyzing genomic data. Especially encouraged are proposals that provide strong and novel training opportunities integral to the research plan and particularly across disciplines that include, but are not limited to, plant physiology, quantitative genetics, biochemistry, bioinformatics and engineering.

Three kinds of activity will be supported in FY 2012: (1) Genomics-empowered plant research to tackle fundamental questions in plant and agricultural sciences on a genome-wide scale; (2) Development of tools and resources for plant genome research including novel technologies and analysis tools that will enable discovery; and (3) Mid-Career Investigator Awards in Plant
Genome Research (MCA-PGR) to increase participation of investigators trained primarily in fields other than plant genomics. Proposals addressing these opportunities are welcomed at all scales, from single-investigator projects through multi-investigator, multi-institution projects, commensurate with the scope of the work proposed.

http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=5338

Mechanism for Time-Sensitive Drug Abuse Research (R21)
United States Department of Health and Human Services (HHS)
Due date: Mar 06, 2013

This Funding Opportunity Announcement (FOA) is issued by the National Institute on Drug Abuse (NIDA), National Institutes of Health (NIH). The FOA is intended to support pilot, feasibility or exploratory research for up to 2 years in 4 priority areas, including
- responses to unexpected and time-sensitive medical system issues (e.g., opportunities to understand addiction services in the evolving health care system);
- responses to emerging drug abuse-related HIV trends and topics (e.g., rapidly evolving drug abuse-related epidemics, time-sensitive policy or environmental changes);
- responses to unexpected and time-sensitive criminal justice opportunities (e.g., new system and/or structural level changes) that relate to drug abuse and access and provision of health care service; and
- responses to unexpected and time-sensitive prescription drug abuse opportunities (e.g., new state or local efforts).

It should be clear that the knowledge gained from the proposed study is time-sensitive and that an expedited rapid review and funding are required in order for the scientific question to be answered.


Partnerships for Enhancing Expertise in Taxonomy (PEET)
National Science Foundation (NSF)
Due date: Mar 07, 2013

In partnership with academic institutions, botanical gardens, freshwater and marine institutes, and natural history museums, the National Science Foundation (NSF) seeks to enhance taxonomic research and help prepare future generations of experts. Through its Special Biennial Competition in Systematic Biology, NSF will support competitively reviewed projects that target groups of poorly known organisms for modern monographic research. Projects must train new taxonomists (two per project minimally) and must translate current expertise into electronic databases and other products with broad accessibility to the scientific community.

http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=5451
Projects are invited for submission to 21st Century Research Awards in the Brain Cancer Research program area.

Despite some recent cause for optimism for advancing the clinical treatment of brain cancers, for many patients brain tumor remains a devastating diagnosis. Progress against this disease has been stymied by limited understandings of the molecular, metabolic, and physiological characteristics of human brain cancers across multiple temporal and spatial scales and by the failure of many preclinical models to predict patient responses.

Experimentally promising biomolecular therapies often fail to achieve clinic efficacy because preclinical experimental models fail to mimic the real-world clinical needs of patients. Brain cancer survival statistics for the deadliest of tumors such as GBMs have minimally improved over the past two decades and the clinical armamentarium is, to a large extent, still dependent on surgery and radiation therapy - treatments known to leave survivors with devastating cognitive deficits.

All proposals submitted to the foundation must clearly link the experimental models and questions to the realities of human disease. Proposals primarily intending to characterize basic mechanisms of growth and development that may plausibly but are not yet known to be contributory to human brain cancer are not encouraged. Proposals testing molecules as possible treatment interventions should consider including tests designed to uncover unintended biological effects of such molecules that would disqualify future clinical usefulness. Research with in vitro or in vivo model systems must demonstrate that the model has predictive value for human tumors.

The foundation is particularly interested in supporting novel research that will generate new knowledge leading to increased rates of survival and improve functional recovery for individuals with brain cancer. In prior years, the foundation has funded about six or fewer research applications. Keeping true to the foundation's mission, applicants are asked to refrain from submitting proposals better suited to programs at NINDS or NCI.

Support awarded through the 21st Century Science Initiative is intended to encourage new ideas and approaches, early in their development, that are unlikely to be funded from traditional sources. 21st Century Research Awards are designed to support research projects with a high probability of generating new knowledge and insights. Projects submitted for funding consideration should be at an early, even preliminary stage of development, and should be intended to break new ground or to revisit commonly held assumptions that upon examination are not sufficiently supported by data. Projects submitted should be sufficiently cross-disciplinary or heterodox to have a strong likelihood of influencing the development of new ways of thinking about important problems. 21st Century Research Awards provide adequate, flexible funding over a sufficient time period to allow investigators to pursue and develop new directions to their research programs.

http://www.jsmf.org/apply/research/index.htm
**Ebbe Nielsen Prize**  
Global Biodiversity Information Facility (GBIF)  
**Due date: Mar 15, 2013**

The Ebbe Nielsen Prize will be awarded for the eleventh time in 2012 to a person or small team that is demonstrating excellence in combining biodiversity informatics and biosystematics research.

The Prize is intended to allow the recipient(s) to engage in biosystematics/biodiversity informatics research outside his/her/their country of residence.

The recipient(s) will be invited to present a lecture at the GBIF Science Symposium during the annual Governing Board meeting on their research, with an emphasis on placing the research in its broader societal perspective. The public shall be invited to attend the lecture.


**Research Grants**  
National MPS Society  
**Due date: Mar 15, 2013 (LOI); May 01, 2013 (full proposal)**

Mucopolysaccharidoses (MPS) and related diseases are genetic lysosomal storage diseases (LSD) caused by the body's inability to produce specific enzymes. The society is seeking to fund research projects that would be likely to generate strong preliminary data for major funding in the following areas:
1. The support of basic or clinical research for MPS II
2. The support of basic or clinical research for MPS IV
3. MPS III Grand Challenge Grant with support from Team Sanfilippo - this grant is offered in support of an MPS III clinical trial, or to study either a therapy or a biomarker that has passed the proof of concept stage but requires further pre-clinical or clinical testing. Biomarkers must be potentially useful in monitoring the therapeutic response in the central nervous system in clinical trials. Proposals for therapies or biomarkers for other MPS and related diseases will be considered, provided they are applicable to MPS III.


**Raymond H. Stetson Scholarship in Phonetics and Speech Science**  
Acoustical Society of America (ASA)  
**Due date: Mar 15, 2013**

The scholarship is for graduate study and research in scientific areas related to the field of phonetics and speech production. The purpose of this scholarship is to facilitate the research efforts of promising graduate students.
Research areas to be supported, in preferential order, are:
1. Motor speech production
   a. Motor coordination of speech organs
   b. Kinematics of speech articulation
   c. Aerodynamics of speech production
   d. Combined acoustic/kinematic modeling of speech

2. Phonetics
   a. Linguistic issues related to speech production
   b. Articulatory phonology, experimental phonology

3. Bio-developmental factors in speech
   a. Neural function for speech communication
   b. Infant/child development for speech communication

http://acousticalsociety.org

**Soy Health Research Program (SHRP)**  
United Soybean Board (USB)  
**Due date: Mar 15, 2013**

The USB plans to award incentive awards to selected researchers for the development of complete research proposals on soy and human health to be submitted to the National Institutes of Health (NIH). Proposed research must be new and innovative and lead to greater understanding of how soy can affect human health. Applications on any aspect of soy and human health will be accepted, including, but not limited to obesity/metabolism, prostate health, bone health, cognitive function, heart health, women's health, hormone replacement therapy (HRT), breast cancer, menopause, and reproductive health. In addition to welcoming proposals dealing with soy protein, isoflavones, etc., funds have been earmarked for at least two proposals dealing with soybean oil and human health. If oil proposals of high merit are not received, the earmarked funds will be used for other types of proposals.

http://www.soyconnection.com/shrp/

**PCF-Honorable A. David Mazzone Special Challenge Award Research Program 2012**  
Prostate Cancer Foundation (PCF)  
**Due date: Mar 16, 2013**

Challenge Awards support large-scale research projects. Proposals must be from teams capable of providing unique scientific expertise to the solution of a significant problem in prostate cancer research. A team may be assembled from one institution, or several institutions, from across the globe. These awards focus on funding Treatment Sciences: Investigations of new ideas in man or laboratory support of a high impact clinical investigation.

Treatment Sciences research with a high probability of near-term patient benefit is required in the following topic areas:
1) Translational research in metabolism/adiposity/nutrition/survivorship
2) Molecular imaging in both primary and metastatic disease
3) Co-targeting tumor microenvironment
4) First-in-field research on new targets in metastatic disease systemic treatment
5) Mechanisms of resistance to new treatments for advanced prostate cancer
6) Diagnostics and biomarkers that differentiate indolent from metastatic prostate cancer

http://www.pcf.org/site/c.leJRlROrEpH/b.5849007/k.F70A/Open_RFAs.htm

Long-Term Ecological Research (LTER)
National Science Foundation (NSF)
Due date: Mar 21, 2013

To address ecological questions that cannot be resolved with short-term observations or experiments, NSF established the Long Term Ecological Research Program (LTER) in 1980. Three unique components differentiate LTER research from projects supported by other NSF programs: (1) the research is located at specific sites chosen to represent major ecosystem types or natural biomes; (2) it emphasizes the study of phenomena over long periods of time, based upon data collection in five core areas; and (3) projects include significant integrative, cross-site, network-wide research. Research at LTER sites provides experiments, databases, and research programs for use by other scientists. It must test important ecological or ecosystem theories including, but not limited to, ecosystem stability, biodiversity, community structure, and energy flow. Recognizing that the value of long-term data extends beyond use at any individual site, NSF requires that data collected by all LTER sites be made broadly accessible.

Since its origin in 1980, the LTER program has grown in size and mandate. It currently supports 26 active sites representing major biotic regions of the continental USA and Alaska, the marine environment, and the Antarctic continent. Its disciplinary scope includes population and community ecology, ecosystem science, evolutionary biology, phylogenetic systematics, social and economic sciences, urban ecology, oceanography, mathematics, computer science, and science education. The existence of a network across sites allows for continental-scale questions to be addressed.

http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=7671

Targeted Research Initiative for Cognitive and Psychiatric Aspects of Epilepsy
Epilepsy Foundation of America
Due date: Mar 21, 2013

The Targeted Research Initiative for Cognitive and Psychiatric Aspects of Epilepsy supports research leading to new insights into the diagnosis etiology, complications and treatment of persons with epilepsy and mood disorders including comorbid cognitive disorders; depression, anxiety, suicidality, other psychiatric symptoms; and psychogenic non-epileptic seizures.

The Epilepsy Foundation of America also has the following programs available:
  Targeted Research Initiative for Youth
Distinguished Scientist Awards
Sontag Foundation
Due date: Mar 21, 2013

The foundation is looking for increased survival rates and improved recovery for patients. The foundation is looking for a cure or at the very least, treatments to make brain cancer a manageable chronic disease. These awards are presented to the most outstanding early career scientists with inspiring, potential-laden brain cancer research proposals.

Grants
Foundation Jerome Lejeune
Due date: Mar 25, 2013

The Jerome Lejeune Foundation funds research into treatments for intellectual disabilities of genetic origin, especially, but not limited to, Down syndrome. The Foundation's specific research interest is to discover a means to prevent and/or treat genetic intellectual disabilities in order to improve the memory, speech, and cognition of patients.

The Jerome Lejeune Foundation will consider all proposals which have as their goal advancing scientific knowledge which leads to the discovery of treatments to improve the intellectual capacities of those affected by genetic illness. The Foundation provides no funding for research into autism. Therapeutically oriented projects will be given priority and may receive consideration for larger grants.

Funding for research congresses and teaching programs may also be considered.

Beta Cell Therapies: The Formation of a Collaborative Consortium to Address Encapsulation for Beta Cell Replacement
Juvenile Diabetes Research Foundation International (JDRF)
Due date: Mar 26, 2013 (LOI); Jun 18, 2013 (full proposal)

One of JDRF's therapeutic goals is to restore beta cell function in type 1 diabetes (T1D) by replacement/transplantation of beta cells/islets. Pancreatic islet transplantation has been efficacious in selected patients in improving metabolic control and quality of life, and in preventing severe hypoglycemia in patients with medically unstable T1D. Despite improvements
in cadaveric pancreas procurement, islet isolation, and islet purification, major scientific and technical challenges remain that must be addressed before beta cell replacement will be widely incorporated into the clinical management of established T1D; examples include serious side effects from chronic immunosuppression, islet sensitivity to certain immunosuppressants, the insufficient human islet supply from cadaveric pancreata, incomplete development status of islets from a pluripotent cell source, and the desire for an alternative transplantation site. JDRF’s role is to enable the scientific community to address these challenges with the ultimate goal of developing safe and effective transplantation approaches available to large numbers of individuals with T1D.

JDRF is soliciting EOIs to encourage collaborations among bioengineers, chemists, immunologists, transplant researchers, and pancreatic beta cell biologists to incorporate engineering concepts and designs into current efforts toward improving islet encapsulation as a key component of cell replacement therapy for T1D. Ultimately, the funded projects should have established milestones and make progress toward making encapsulated human islets/porcine islets/hESC-derived pancreatic progenitors a translatable technology applicable in the clinical setting.

http://www.jdrf.org/index.cfm?page_id=114027

**Senior Research Awards**
Multiple Myeloma Research Foundation (MMRF)
**Due date: Mar 27, 2013**

The Multiple Myeloma Research Foundation (MMRF) seeks proposals for the 2012 Senior Research Award Program, an initiative supporting researchers who have more than five years experience in blood cancer research. The goal of this initiative is to accelerate the development of therapeutic approaches for myeloma and may include proposals in basic science or translational research. The Award Committee will consider most favorably translational research proposals that will identify or contribute to novel therapeutic approaches for myeloma in an accelerated timeframe.

http://www.themmrf.org/research-programs/for-academic-researchers/grant-opportunities.html

**PHYSICAL SCIENCES & MATHEMATICS**
See also opportunities listed under MULTIPLE DISCIPLINES

**Stewardship Science Academic Alliances Program**
United States Department of Energy (DOE)
**Due date: Mar 12, 2013**

The Office of Stockpile Stewardship, under Defense Programs within the Department of Energy's (DOE's) National Nuclear Security Administration (NNSA), created the Stewardship Science Academic Alliances (SSAA) Program to support fundamental science at U.S. universities in the areas of (1) Materials Under Extreme Conditions; (2) Low-Energy Nuclear Science (LENS); (3) Radiochemistry; and (4) High Energy Density Physics (HEDP). This FOA
includes a call for Cooperative Agreements for the SSAA Centers of Excellence in the fields of Materials Under Extreme Conditions, Low-Energy Nuclear Science, Radiochemistry, and High-Energy-Density Physics. This FOA also includes a call for research grants in the fields of Materials Under Extreme Conditions, Low-Energy Nuclear Science, and Radiochemistry, but will fund no research grants in High-Energy-Density Physics.

http://www.grants.gov/search/search.do?mode=VIEW&oppId=136213

**Heliophysics Research: Solar and Heliospheric Science**  
National Aeronautics and Space Administration (NASA)  
**Due date: Mar 16, 2013 (preliminary proposal); May 18, 2013 (full proposal)**

The Solar and Heliospheric Physics (SHP) program has as its objective the comprehensive study of all five solar and heliospheric research areas, namely  
- solar interior;  
- solar photosphere;  
- solar chromospheres, transition region, and corona;  
- inner heliosphere; and  
- outer heliosphere and the interstellar boundary.

This program has four main research thrusts: nonflight Supporting Research (SR); a Guest Investigator Program; Instrument and Technology Development (ITD) that may be carried out in the laboratory and/or observatory; and payloads on balloons, sounding rockets, or as secondary, rocket-class payloads on flights of opportunity that is generically referred to as Low Cost Access to Space (LCAS). These studies support NASA's strategic goal to understand the Sun and its interaction with Earth and the Solar System. Proposals in interdisciplinary research areas (e.g., solar-stellar connections) are appropriate for this program if the proposed research has clear application to Heliophysics program goals.

http://nspires.nasaprs.com/external/solicitations/summary.do?method=init&sollId={09BA5099-4A75-31AD-5B27-82A31B4879D3}&path=open

**Centers for Chemical Innovation (CCI)**  
National Science Foundation  
**Due Date: March 26, 2013**

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 informal science communication 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 FY 2013 will seek Phase II funding in FY 2016. This solicitation is also open to the renewal of Phase II CCIs initiated in FY 2008.

The FY 2013 CCI competition is open to projects in fields supported by the NSF Division of Chemistry. Projects responsive to current priorities in Sustainable Chemistry, Engineering and Materials (SusChEM), Cyberinfrastructure Framework for the 21st Century (CIF-21) and Cyber-enabled Materials, Manufacturing and Smart Systems (CEMMSS) are particularly encouraged.

http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=13635

**Research and Development for Next Generation Nuclear Physics Accelerator Facilities**
United States Department of Energy (DOE)
**Due date: Mar 30, 2013**

The Office of Nuclear Physics (NP), Office of Science (SC), U.S. Department of Energy (DOE), hereby announce their interest in receiving applications for Research and Development (R&D) efforts directed at challenges for next generation NP accelerator facilities.

The Nuclear Physics (NP) program supports a broad range of activities aimed at research and development (R&D) related to the science, engineering, and technology of heavy-ion, electron, and proton accelerators and associated systems.

This FOA is in support of pre-conceptual accelerator R&D aimed at technological challenges for the next generation NP facilities or improved performance of existing facilities. Accelerator R&D intended for this announcement should fall in the following general categories:
- Accelerator R&D with the potential for the development of future generation of NP accelerators not under construction or design.
- Accelerator R&D with the potential for improved performance and/or upgrades to existing NP national user facilities that will lead to new capabilities.

http://www.grants.gov/search/search.do?mode=VIEW&oppId=144214

**Rapid Response and Novel Research in Earth Science**
National Aeronautics and Space Administration (NASA)
**Due date: Mar 31, 2013**

In order to address its strategic goals and objectives, the Earth Science Division (ESD) of the Science Mission Directorate (SMD) acknowledges that there are important and highly relevant research topics and opportunities that cannot be anticipated in annual disciplinary and cross-disciplinary ROSES elements. In particular, it is usually not possible to solicit the following two types of activities:
- research on Earth system events or opportunities to collaborate that occur unpredictably as rare and valuable targets of opportunity and that require rapid provision of resources to enable immediate research activity to take advantage of that target of opportunity, and
- first-time investigations applying novel and innovative ideas to advance Earth remote sensing in a previously undeveloped area of remote sensing theory, technology utilization, or scientific application.

In the past, SMD has supported such research through unsolicited proposals and/or the former Innovative Research Program. Beginning with the issuance of this solicitation, SMD Earth Science will no longer consider such unsolicited proposals and instead is calling for them in response to this program element. ESD has not reserved any funds to dedicate to this solicitation, but anticipates that each of its individual programs will be able to consider meritorious proposals at approximately the same levels that unsolicited proposals were considered in the past - that is, only a very small number of proposals can be funded each year.

This program element solicits proposals that advance the goals and objectives of NASA's Earth Science Division by conducting unique research to investigate (1) unforeseen or unpredictable Earth system events and opportunities that require rapid response, and (2) novel new ideas of potential high merit and relevance for ESD science that have not otherwise been solicited by NASA in the past three years.

1. Targets of Opportunity: Rapid Response to Earth System Events and Opportunities to Collaborate (Rapid Response) - This topic is focused on research proposals having great urgency for action (1) involving quick-response research on natural or anthropogenic extreme events, disasters, and/or similar unanticipated or unpredictable events, and (2) requiring a quick funding decision to take advantage of an opportunity for research collaboration that is only available for a short time. Examples of unanticipated or unpredictable events are major fires, volcanic eruptions, 100-year floods, episodes of severe and large-scale environmental pollution, harmful algal blooms, coral bleaching events, and other events causing large-scale and rapid environmental change.

The research activities proposed must require rapid, near-term data acquisition, field work, and/or other such research activities. Proposers are strongly encouraged to contact the NASA program officer(s) whose expertise best matches the proposal topic before submitting a proposal in order to determine whether the proposed work is appropriate for this ROSES program element and if funding is likely to be available for a meritorious proposal.

The proposal must include clear statements as to why the proposed research is of an urgent nature and why this ROSES program element is the only feasible mechanism to request NASA support for the proposed work. Requests submitted under this solicitation to take advantage of an opportunity for collaborative research must explain why a rapid response is essential.

Opportunities to collaborate that were known well in advance and could have been pursued through other ROSES program elements may not be proposed here because of a failure to engage in timely planning.

2. First-Time Development of Innovative, Novel Ideas in Earth Remote Sensing (Novel Earth Science) - This topic is intended to provide an open, systematic, competitive process for NASA's ESD to consider proposals to conduct highly novel scientific research that cannot be considered as relevant under any other NASA solicitations. ESD believes it is vital to its future that such proposals come forward and have an opportunity to be considered for funding. While research on
any such novel topic area might not be considered a high priority for near-term investment in NASA ESD's mainstream program elements focused on accomplishing specific objectives, ESD also recognizes that such proposals offer the possibility for major scientific breakthroughs and brand-new remote sensing approaches. A vital research and analysis program must provide a mechanism for researchers with novel ideas to develop those ideas and to make their case as to why near-term investment is warranted and could lead to an important new capability or scientific application that will advance ESD goals and objectives.


**SOCIAL SCIENCES**

See also opportunities listed under HUMANITIES; INTERNATIONAL AREA STUDIES: and MULTIPLE DISCIPLINES

**East European Studies Summer Research Scholarships**

Woodrow Wilson International Center for Scholars

**Due Date:** March 1, 2013

EES offers summer research scholarships to scholars working on policy relevant projects on East Europe. While Southeast Europe remains a primary focus, projects on Central Europe and the Baltic states are again eligible. Projects should focus on fields in the social sciences and humanities including, but not limited to: Anthropology, History, Political Science, Slavic Languages and Literatures, and Sociology. All projects should aim to highlight their potential policy relevance.

http://www.wilsoncenter.org/opportunity/east-european-studies-summer-research-scholarships

**Public Health Services and Systems Research: Building Evidence for Decision-Making**

Johnson Foundation, Robert Wood (RWJF)

**Due Date:** March 7, 2013 (LOI); March 26, 2012 (Full Proposal)

Public Health Services and Systems Research (PHSSR) is a multidisciplinary field of study that examines the organization, financing, delivery and quality of public health services within communities and the resulting impact on population health. Significant changes are occurring in the delivery of public health services as a result of external forces and public health policies, creating opportunities to study the impact of these changes on population health. This solicitation seeks to expand the evidence base for effective decision-making in public health practice and policy through research that utilizes natural experiments to respond to the questions defined in the National Agenda for PHSSR: http://www.publichealthsystems.org/cphssr/Research/PHSSR_Research_Agenda. This solicitation seeks to produce evidence to inform public health practice and policy decisions through natural experiments that will compare systems with change in organizational structures, legal infrastructure, financing mechanisms, and service delivery strategies to systems without changes. Research funded under this solicitation will examine ongoing, naturally occurring, or imminently approaching changes in public health organization, financing, or delivery that have
the potential for large effects on public health practice and population health. Studies may also focus on laws and policies that precipitate changes in the organization, financing, or delivery of public health services. Studies should examine the effects of these changes on public health practice as well as population health outcomes to the extent feasible. Effects on costs, productivity, and efficiency also are of interest under this solicitation, as are studies of the adverse effects and unintended consequences associated with these types of change. Studies should focus on at least one of the following aspects of system change: 1. Organization and Governance: Economic constraints are motivating state and local health departments to restructure their operations through mergers and consolidations, umbrella agency configurations, use of fiscal intermediaries, regional and district organizational models, cross-jurisdictional sharing, multi-agency cooperation, and other structural changes. Moreover, policy changes occurring under the federal ACA and related state health reform efforts are leading public health agencies to restructure their relationships with health care delivery systems, potentially resulting in new roles and responsibilities for public health agencies within accountable care organizations, health/medical homes, health insurance exchanges, federally qualified health centers, and community health alliances. Research is needed to assess the impact of these structural changes on affected organizations' strategic direction and decision-making; the communication and coordination within and between the affected organizations; and the effectiveness and efficiency of resulting public health actions. Additionally, research is needed to investigate the impact of changes in the governance and decision-making structures that provide oversight and direction for public health organizations, including changes in governing board composition, powers, and duties; changes in agency reporting relationships with local and state government officials; changes in intergovernmental administrative relationships; and changes in the use of community advisory board structures. 2. Financing and Resource Allocation: The economic downturn has led many state and local governments to reduce and/or re-allocate their investments in public health programs and services. The magnitude and timing of these reductions vary widely across states and communities and depend not only on macroeconomic conditions and competing policy initiatives but also on the mix and volatility of revenue sources. Some public health agencies have experienced infusion of new federal funding under provisions in the American Recovery and Reinvestment Act of 2009 and the Patient Protection and Affordable Care Act of 2010, while other public health programs are experiencing or anticipating significant cuts to local, state, and federal funding. At the same time, new accreditation standards, practice guidelines, and quality improvement initiatives are leading some public health agencies to deploy their available resources in new and different ways. As a result of these forces, some state and local governments have introduced changes in the funding levels, sources, and mechanisms used to distribute funds to organizations that provide public health services. Research is needed to investigate the impact of these types of changes on the resource allocation decisions made by public health organizations; on the scope, scale, and quality of public health activities performed by public health organizations; and on the health risks and health outcomes experienced by the populations served by these organizations. 3. Staffing and Delivery Models: Economic constraints and funding reductions are forcing many public health organizations to reconfigure their use of the most valuable and costly resource—human capital—to design and implement public health strategies. These actions are producing significant changes in the size and composition of the workforce used and needed by many public health organizations, as well as changes in the roles and responsibilities assigned to personnel. Changes in the mix of clinical, analytic, and managerial staff, professional versus non professional lay workers, employed versus contracted labor, and paid versus volunteer labor are under way in many public health settings. Expanded use of staffing and training innovations, including crosstraining; task-shifting;
shared staffing and regional staffing models; embedded and co-located staff; technology-assisted staffing models; and professional and cultural competency development initiatives are also occurring. At the same time, some communities, states, and federal agencies are experimenting with integrated or bundled approaches to public health service delivery supported by more flexible financing mechanisms. Research is needed to investigate the effects of these changes on the availability, reach, and quality of public health activities performed by public health organizations; on the cost, productivity, and efficiency of public health practice; and on the population health outcomes that result. Study Guidelines for Natural Experiments. Studies should focus on ongoing, naturally occurring, or imminent changes and innovations implemented at the organization, policy, or systems level that are hypothesized to have significant effects on public health practice and population health. Investigators are particularly encouraged to identify opportunistic, natural experiments wherein accessible, comparable control data can be assembled and confounders and biases can be limited through study design, sample selection, and statistical analysis. Contemporaneous comparison groups may include public health settings that experience augmented, delayed, or diminished exposure to the change under study. Studies may use both retrospective and prospective designs and are encouraged to make use of multiple pre-change and post-change observation periods whenever possible to limit threats to internal validity including history, maturation, and regression to the mean. Investigators are encouraged to examine various potential modifiers and mediators of change, including leadership; economic climate; organizational culture; legal and policy environment; and workforce capacity. In the absence of randomized exposure assignment, investigators should employ quasi-experimental research design features and analytic techniques to address the likelihood of systematic nonequivalence between the public health settings that are exposed and not exposed to the changes under study. Specifically, proposed studies should demonstrate the ability to characterize analytically the nonrandom exposure assignment mechanisms that determine which settings are exposed to what levels of innovation and change. Analytic techniques may include propensity-score methods; fixed-effects and difference-in-difference estimation; instrumental variables estimation; hierarchical modeling; and network analysis. Studies that focus on public health innovation and change precipitated by economic conditions should pay careful attention to resolving simultaneity bias and unobserved confounding due to the direct effects of economic conditions on population health risks, as well as the indirect effects that accrue through financing for public health and other social programming. Proposals should specify assumptions about effect sizes along with sample size estimates and power analyses necessary to evaluate the statistical feasibility of the proposed analytic methods. Depending on the levels of observation and units of analysis employed within the study, investigators may need to consider strategies for including sufficient numbers of public health practice settings and/or panels of longitudinal observations in order to ensure sufficient statistical power for the analysis.

http://www.rwjf.org/applications/solicited/cfp.jsp?ID=21389&cid=XEM_206615

Social Science Research
US Dept. of the Interior
Due Date: March 15, 2013

The Bureau of Land Management (BLM) is looking for a partner to help it comply with the Government Performance and Results Act (GPRA), and better meet the needs of the public; through assisting with a visitor satisfaction survey that will annually be conducted at 24 BLM
recreation sites in 13 states during the next five fiscal years. The survey will be developed to measure each site's performance related to BLM GPRA Goal 3.1 - Provide for a quality recreation experience, including access, and enjoyment of natural and cultural resources on DOI managed and partnered lands and waters; and Goal 3.2 - Provide for and receive fair value in recreation.

The project objective is to create, distribute and collect visitor satisfaction surveys, analyze the results and prepare reports. The BLM will select the sites, handout and collect the completed surveys (or document the refusal to participate) and return the completed surveys to the cooperator. The GPRA specific results of the visitor satisfaction surveys conducted across the BLM system will be summarized into site specific and national reports.

BLM will be substantially involved with the project. The BLM Project Coordinator will provide guidance, technical consultation and supervision to bureau employees collecting data, and will cooperate with the Project Coordinator in making management decisions on the agreement on an ongoing basis. This level of ongoing support will help the recipient communicate and coordinate most effectively with both BLM field and Washington office personnel. The BLM will select the sites to be surveyed, BLM employees at participating sites coordinate the survey on the ground by administrating, collecting surveys and to shipping the completed surveys back for analysis.

This level of involvement is necessary to ensure close and effective coordination and cooperation between the recipient's personnel, participating BLM site and Washington office personnel. BLM expertise and familiarity with management and planning requires direct involvement to ensure outputs will enhance public support and stimulation, while providing BLM access to social science research data that may be utilized in management decisions.

http://www.grants.gov/search/search.do?mode=VIEW&oppId=144360

APF Visionary and the Drs. Rosalee G. and Raymond A. Weiss Research and Program Innovation Grants
American Psychological Association (APA)
Due date: Mar 15, 2013

The grants seek to seed innovation through supporting research, education and intervention projects and programs that use psychology to solve social problems in the following priority areas:
1. Understanding and fostering the connection between mental and physical health to ensure well-being.
2. Reducing stigma and prejudice to promote unity and harmony.
3. Understanding and preventing violence to create a safer, more humane world.
4. Supporting programs that address the long-term psychological needs of individuals and communities in the aftermath of disaster.

MULTIPLE DISCIPLINES

Unsolicited Research Program
WateReuse Foundation
Due Date: March 7, 2013

The WateReuse Foundation is seeking preproposals for funding consideration under its 2011 Unsolicited Research Program. The Foundation's research program is designed to meet the future needs of the water reuse and desalination communities. In an effort to identify those needs, the Foundation polled its Subscribers to identify their most important challenges. The mission of the Foundation's Unsolicited Research Program is to provide individuals in the research community with the opportunity to propose research projects that they feel will best address the challenges identified. Only projects that address one or more of these challenges will be funded. Proposers are encouraged to address emerging issues and propose original concepts or novel techniques, but research funded by the Foundation must have the potential for a practical application and wide applicability. The Foundation would like to maximize the amount of research supported under its program. As a result, support for the project budget by other partners or alternatives will increase the likelihood of funding for a particular project. Key Research Challenges in Water Reuse and Desalination as Identified by Subscribers 1. Addressing known & unknown contaminants that persist in recycled water 2. Defining the risks of recycled water (risk assessment) 3. Progression from non-potable to potable reuse 4. Defining environmental benefits/drawbacks of recycled water 5. Inland salt management 6. Data/approaches to support development of public health criteria for recycled water 7. Energy-water nexus for recycled water 8. Project implementation issues (e.g., public acceptance, financing) 9. Defining public health benefits & disadvantages of recycled water 10. Data/approaches to support development of end use/ performance criteria for recycled water 11. Energy-water nexus for desalination The Foundation encourages research teams to include the participation of water and wastewater utilities in research efforts.

http://www.watereuse.org/foundation/research/programs

Climate Change Impacts to Built Infrastructure in Alaska
US Dept. of Defense (DOD)
Strategic Environmental Research and Development Program (SERDP)
Due Date: March 7, 2013

The objective of this Statement of Need (SON) is to improve our understanding and capacity to respond to potential climate change impacts on DOD built infrastructure in Alaska and similar climates. Research proposals are sought that improve our ability to predict the potential impacts to and vulnerability of existing and future infrastructure, and mitigate these impacts through improved decisions, design, and assessment tools. Both buildings and horizontal infrastructure such as roads and runways are of interest.

Research needs include but are not limited to the following:
1. Scenario and climate modeling output relevant to the potential impacts to built infrastructure. Scenarios should address time-frames of interest (for example, near term or 10 to 20 years in the future; long term or 40 to 50 years, or longer if appropriate, in the future) typically considered
when assessing built infrastructure decisions and should support a range of built infrastructure
design issues such as location, expected lifetime, and detailed design requirements.

2. Technologies for detecting environmental conditions impacted by climate change that may
adversely affect built infrastructure. An example includes an enhanced capability to detect
(within) ground ice over large areas relevant to military infrastructure projects.

3. Improved understanding of the interrelationships between built infrastructure and the
environment that become more acute under plausible future climate change scenarios. An
example includes how the thermal profile of built infrastructure and the immediately adjacent
land use affect permafrost freeze-thaw cycling, in the presence and absence of ground ice, and
ultimately lead to differential settlement and heaving.

4. Improved infrastructure vulnerability and impact assessment tools, including sensitivity
analyses, that incorporate the potential effects of climate change and climate variability on built
infrastructure. Examples of issues of concern include the effects of permafrost thawing on
infrastructure and roof loading requirements.

Proposals submitted in response to this SON may address one or more of the research needs
listed above. Proposals should justify any identified earth system models, regional climate
models, or scenarios used as a basis for the proposed work.

The desired outcomes are technologies, models, and tools for design engineers and built
infrastructure managers to use scenario planning to conduct vulnerability and impact assessments
related to built infrastructure in Alaska and similar climates; guide design, operation, and
maintenance considerations for existing and new built infrastructure under non-stationary climate
conditions; and efficiently and accurately detect environmental conditions that may affect built
infrastructure siting considerations.

SERDP supports environmental research relevant to the management and mission of the DOD
and supports efforts that lead to the development and application of innovative environmental
technologies or methods that improve the environmental performance of DOD by improving
outcomes, managing environmental risks, and/or reducing costs or time required to resolve
environmental problems.

http://www.serdp.org/Funding-Opportunities/SERDP-Solicitations/Core-SONs-FY14

Transforming STEM Learning
National Science Foundation
Due Date:  March 7, 2013

TSL combines interests and resources of separate programs in the Division of Research on
Learning in Formal and Informal Settings (DRL) to explore the opportunities and challenges
implied by innovative visions of the future for science, technology, engineering, and
mathematics (STEM) learning. The TSL program invites interdisciplinary teams of STEM
content specialists, experts in relevant technologies, STEM formal and informal education
specialists, researchers with expertise in the learning sciences, and specialists in education
research and evaluation methods to submit proposals for research projects that (1) study efficacy of existing prototypes for innovations like virtual schools, special STEM schools, and educational programs that combine opportunities of formal and informal learning resources in their communities; or (2) design and conduct exploratory development of new potentially transformative models for STEM learning environments. The crosscutting proposals will draw from work in the four primary DRL programs: Discovery Research K-12 (DR K-12), Informal Science Education (ISE), Research and Evaluation on Education in Science and Engineering (REESE), and Innovative Technology Experiences for Students and Teachers (ITEST). However, proposals submitted in response to this solicitation must have a scope that extends well beyond any of those programs individually.

http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=503571

**Scholar Awards in Complex Systems Science (Scholar Awards-CS)**
McDonnell Foundation, James S. (JSMF)
**Due date: Mar 14, 2013**

Projects are invited for submission to 21st Century Research Awards in the Studying Complex Systems program area (Complex Systems program). The Complex Systems program supports scholarship and research directed toward the development of theoretical and mathematical tools that can be applied to the study of complex, adaptive, nonlinear systems. It is anticipated that research funded in this program will address issues in fields such as biology, biodiversity, climate, demography, epidemiology, technological change, economic development, governance, or computation. While the program's emphasis is on the development and application of the theory and tools used in the study of complex research questions and not on particular fields of research per se, JSMF is particularly interested in projects attempting to apply complex systems approaches to coherently articulated questions. Proposals intending to apply complex system tools and models to problems where such approaches are not yet considered usual or mainstream are appropriate to the RFA.

21st Century Research Awards are designed to support research projects with a high probability of generating new knowledge and insights. Projects submitted for funding consideration should be at an early, even preliminary stage of development, and should be intended to break new ground or to revisit commonly held assumptions that upon examination are not sufficiently supported by data. Projects submitted should be sufficiently cross-disciplinary or heterodox to have a strong likelihood of influencing the development of new ways of thinking about important problems. 21st Century Research Awards provide adequate, flexible funding over a sufficient time period to allow investigators to pursue and develop new directions to their research programs.

http://www.jsmf.org/apply/scholar-cs/