

# **Funding Opportunities Bulletin**

## **August 2009**

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### **BUSINESS**

See also opportunities listed under MULTIPLE DISCIPLINES

### **Kauffman Dissertation Fellowship Program**

Ewing Marion Kauffman Foundation

**Deadline: October 1, 2009**

Ph.D., D.B.A. or other students seeking doctoral degrees from accredited U.S. institutions of higher education are eligible to apply for a Kauffman Dissertation Fellowship grant. This program is intended for students who are in the process of formulating their dissertation proposal as well as doctoral candidates with recently approved dissertation proposals. It is expected that applicants will complete the dissertation by the conclusion of the 2009-2010 academic year. Grants will not be distributed until doctoral candidates have received their institution's approval for the dissertation proposal. Kauffman Foundation Employees and family members of Kauffman Foundation employees are not eligible for this program.

For further information: <http://www.kauffman.org/kdfp/>

### **Research Stipends**

Center for the Business of Government

**Deadline: October 1, 2009**

The IBM Center for the Business of Government provides grants to stimulate research and improve the effectiveness of government at the federal, state, local, and international levels. Manuscripts submitted in response to each RFP must address one of the special topics designated

for that funding cycle.

Cross-Cutting Management Issues in 2008-2009 include the following:

1. Citizen-Centric Service Delivery
2. Collaboration: Networks and Partnerships
3. Contracting and Acquisition
4. Cyber-Security and Privacy
5. Financial Management
6. Human Capital Management
7. Innovation
8. Leadership
9. Managing for Performance and Results
10. Market-Based Government
11. Shared Services
12. Supply Chain
13. Web 2.0.: Going Beyond e-Government

Mission and Program Areas for 2008-2009 include the following:

1. Customs, Ports and Border Management
2. Defense Warfighter
3. Environment and Energy
4. Homeland Security
5. Social Services and Social Security

For further information: <http://www.businessofgovernment.org/main/apply/index.asp>

### **Doctoral Fellowship Program**

Deloitte Foundation

**Deadline: October 15, 2009**

The fellowship program provides financial support to outstanding doctoral students in accounting as they complete their coursework and dissertations.

For further information:

<http://www.deloitte.com/dtt/article/0,1002,sid%253D197784%2526cid%253D221174,00.html>

### **Enterprise-based Solutions to Poverty**

S.E.VEN Fund

**Deadline: Required Letters of Interest: October 15, 2009**

S.E.VEN (Social Equity Venture Fund) is a virtual non-profit entity run by entrepreneurs whose strategy is to markedly increase the rate of innovation and diffusion of Enterprise-based Solutions to Poverty. It does this by targeted investment that fosters thought leadership through books, films and websites supporting role models - whether they are entrepreneurs or innovative

firms - in developing nations and shaping a new discourse in government, the press and the academy around private sector innovation, prosperity and progressive human values.

This S.E.VEN Fund RFP has four goals:

1. To expand scientific inquiry to include disciplines fundamental to a deep understanding of entrepreneurship and economic development that are currently unsupported by conventional grant sources. This includes the broad topic area of research that we encourage, as well as the inclusion of qualified “researchers” from various fields and backgrounds that other institutions would not fund. Our goal is to introduce fresh thinking and new directions into the discourse of poverty reduction and sustainable economic development;
2. To forge and maintain useful collaborations between researchers and on-the-ground actors of Enterprise-based Solutions to Poverty;
3. To provide the public with a deeper understanding in this area, and its potential implications;
4. To find, research and analyze role-model entrepreneurs and companies whose lesson may inspire others.

RFP funding therefore favors research that has two characteristics. First it aims at supporting research that is foundational, with potentially significant and broad implications for our understanding of how entrepreneurs lift people out of poverty. Second, this unconventional view will enable research that, because of its speculative, non-mainstream, or high-risk nature, would otherwise go unrealized due to lack of funding.

For further information: <http://www.sevenfund.org/enterprise-solutions-poverty/index.php>

## **EDUCATION**

See also opportunities listed under MULTIPLE DISCIPLINES

### **Chronically Low-Performing Schools Research Initiative - 84.305G**

United States Department of Education (ED)

**Deadline: Letter of Intent: August 3, 2009**

**Full Proposal: October 1, 2009**

To increase research efforts to improve chronically low-performing schools, the Institute is launching its Chronically Low-Performing Schools Research Initiative (Low-Performing Schools Initiative). For the Low-Performing Schools Initiative, the Institute invites applications to develop interventions that target specific problems faced by chronically low-performing schools and test the promise of strategies for successfully addressing those problems within a relatively short time period. Over the five-year project period, grantees will be expected to develop and test a number of practices that principals of low-performing schools, with support from their district, could implement to improve their schools. The Institute views this approach as distinct from comprehensive school reform strategies.

The Institute realizes that chronically low-performing schools may require more than the strategies developed and piloted under this Initiative to fully address the causes of their persistent low performance. At the same time, the Institute recognizes that districts and principals often do not have access to research-based practices to address specific problems in their low-performing schools. By developing a set of such practices, this Initiative seeks to provide them with such options.

Although the Institute has supported research on programs, practices, and policies to improve school performance through its research programs on Middle and High School Reform and Education Policy, Finance, and Systems, the Low-Performing Schools Initiative differs from these programs in its sole focus on schools that are persistently low performing and in its structure and requirements. These differences are due to the importance of the issue, and the multiple and seemingly intractable difficulties that must be overcome to successfully address it. To improve the likelihood of developing strategies that can help improve chronically low-performing schools, the initiative includes

- a requirement to closely collaborate with districts and low-performing schools in the development of the strategies in order to address the specific obstacles faced by and opportunities available to the schools involved;
- funding for development of strategies and their promise for improving school performance, but not for group impact evaluations of them, in order to focus efforts on strategy development which may require many iterations;
- a five-year project length in order to provide more time to address the difficult obstacles faced by such schools; and
- inter-project meetings to support the transfer of ideas on overcoming these obstacles.

For the Low-Performing Schools Initiative, each research team will focus on at least two specific problems faced by chronically low-performing schools by developing and testing the promise of practices to address these problems. The long-term outcomes of this research program will be a better understanding of the processes that contribute to low-performing schools, diagnostic frameworks that principals or districts could use to identify specific problems within their low-performing schools, and an array of practices for improving low-performing schools. The practices are those that could be implemented by a principal of a low-performing school or by a district in conjunction with the principals of low-performing schools.

The FY 2010 competition focuses on development and initial testing of the promise of practices for improving low-performing schools. Each grantee will be expected to develop and test the promise of specific practices for addressing at least two distinct problems of low-performing schools. To foster exchange among the research teams involved in the Low-Performing Schools Initiative, grantees will meet twice each year in Washington, D.C. to discuss their projects and what they are learning in addition to also attending the annual IES research conference.

Finally, a critical aspect of this initiative is the contributions of school and district partners on each research team. Too often researchers develop their interventions without collaborating with district and school personnel who have intimate knowledge of the capacity, constraints, and challenges of teachers, principals, and district staff. A requirement of the Low-Performing

Schools Initiative is the inclusion of school and district staff on each research team. Applicants address the significance of the project by

- presenting a theoretical and empirical rationale for understanding chronically low-performing schools and operationalizing it into a detailed diagnostic framework for evaluating the contributing factors to low performance that is grounded in both theory and data;
- identifying and justifying at least two specific problems that will be the focus of the proposed project including the contribution solving these problems might make to improving school performance; and
- describing an example of a practice that might be employed to address one of these problems along with the theory of change underlying the use of the practice.

For further information: [http://ies.ed.gov/funding/ncer\\_rfas/lowperf.asp](http://ies.ed.gov/funding/ncer_rfas/lowperf.asp)

### **Evaluation of State and Local Education Programs and Policies - 84.305E**

United States Department of Education (ED)

**Deadline: Letter of Intent: August 3, 2009**

**Full Proposal: October 1, 2009**

Through the research program in Evaluation of State and Local Education Programs and Policies, the institute will provide support for rigorous evaluations of education programs or policies that are implemented by state or local education agencies. The institute intends to fund rigorous evaluations to determine the overall impact of fully developed education programs or policies implemented under typical conditions by a state, district, or consortium of states or districts and to determine the impact across a variety of conditions (e.g., different student populations, different types of schools).

By overall impact, the institute means the degree to which an intervention on average has a net positive impact on the outcomes of interest in relation to the program or practice to which it is being compared. By referring to impact across a variety of conditions, the institute conveys the expectation that sub-group analyses of different student populations, types of schools, and other potential moderating conditions will be conducted to determine if interventions produce positive impacts for some groups or under some conditions.

By fully developed, the institute means interventions that are ready to be implemented by schools or districts - that is, all of the materials, manuals, and other supports are ready to be distributed to and used by schools or districts. By typical conditions, the institute means that the program or policy is implemented without special support by developers of the intervention or the research team, to improve, for example, the fidelity of the implementation of the intervention.

First, the institute intends the State/Local Evaluation research program to support the evaluation of education programs and policies that are selected and implemented by state or local education agencies to improve student outcomes directly or indirectly, rather than evaluations of interventions that are selected by researchers from agencies outside of state or local education agencies (e.g., institutions of higher education, research firms). The program or policy to be evaluated may be an education intervention that the state or local education agency is planning to

adopt or an intervention that is already an existing practice but is innovative, has not yet been evaluated, and is not yet universal.

Second, the implementation of the chosen intervention(s) must be at sufficient scale to ensure appropriate generalizability of the findings. There should be sufficient numbers of students, schools, or districts to allow for subgroup analyses of the impact on specific student populations and analyses of moderating conditions that may affect the impact of the intervention. Along with being widely implemented, the intervention is to be implemented under typical conditions.

Third, through the State/Local Evaluation research program, the institute intends to invest in the evaluation of interventions that substantially modify or differ from existing practices. The modest interventions that states and districts make on an ongoing basis, such as small changes in daily schedules or making minor adjustments to teacher certification systems, are not the targets of this research program. For example, although the institute does not intend to fund evaluations of two different versions of the same textbook, an applicant could propose to compare the effects of textbooks from different publishers or using the same textbook with and without an expensive education technology supplement to the textbook.

Fourth, the institute is most interested in interventions that could be transferred to other districts and states. To be considered for State/Local Evaluation awards, applicants must provide a description of the intervention and a clear rationale for the practical importance of the intervention. Specifically, applicants should address the following six topics:

1. What are the components of the intervention and how is it implemented?
2. What is the rationale that justifies the likelihood of the intervention producing educationally meaningful effects (e.g., theory of change, how it is different from what currently occurs)?
3. What outcomes are addressed by the intervention?
4. Is the intervention to be widely applied?
5. Is the intervention designed so that it is feasible and affordable for other states or districts to adopt the intervention should an evaluation show that the intervention improves the intended outcomes?
6. Will the intervention be implemented across a range of education settings?

In addition, applicants must indicate who is responsible for implementing the intervention. By addressing the six topics and describing the implementer, the applicant is presenting the significance of their proposed project.

For further information: <http://ies.ed.gov/funding/10rfas.asp>

**Model Demonstration Projects on Tiered Approaches for Improving the Writing Proficiency of High School Students CFDA 84.326M**

U.S. Department of Education

**Deadline: August 12, 2009**

The purpose of the Technical Assistance and Dissemination to Improve Services and Results for Children with Disabilities program is to promote academic achievement and to improve results

for children with disabilities by providing technical assistance (TA), supporting model demonstration projects, disseminating useful information, and implementing activities that are supported by scientifically based research.

For further information:

<http://www07.grants.gov/search/search.do?&mode=VIEW&flag2006=false&oppId=48401>

### **Steppingstones of Technology Innovation for Students with Disabilities - 84.327A**

United States Department of Education (ED)

**Deadline: September 4, 2009**

The purposes of the Technology and Media Services for Individuals with Disabilities program are to

- improve results for children with disabilities by promoting the development, demonstration, and use of technology;
- support educational media services activities designed to be of educational value in the classroom setting to children with disabilities; and
- provide support for captioning and video description that are appropriate for use in the classroom setting.

The department has made Steppingstones of Technology Innovation for Children with Disabilities awards for several years under the Technology and Media Services for Individuals with Disabilities program. Awards are made in two phases: Development and Research on Effectiveness.

The Steppingstones of Technology Innovation for Children with Disabilities absolute priority requires grantees to develop, implement, and evaluate innovative technology approaches designed to improve results for children with disabilities. Phase 1 projects must develop, refine, and test the feasibility of technology-based approaches. Phase 2 projects must subject technology-based approaches to rigorous field-based research to determine their effectiveness.

Projects funded under Phase 1 must develop and refine a technology-based approach, and test its feasibility for use with children with disabilities. Activities under Phase 1 of the priority may include development, adaptation, and refinement of technology, materials, or methodologies.

Projects funded under Phase 2 must select a promising technology-based approach that has been developed and tested in a manner consistent with the criteria for activities funded under Phase 1, and subject the approach to rigorous field-based research to determine its effectiveness in educational or early intervention settings.

For further information: <http://www.ed.gov/programs/oseptms/applicant.html#84327a>

## **ENGINEERING & COMPUTER SCIENCE**

See also opportunities listed under MULTIPLE DISCIPLINES

### **Multi-Cycle Treasury Program Call for Proposals for Hubble Space Telescope (HST) Observations**

NASA and The Space Telescope Science Institute (STScI)

**Deadline: Non-binding Notice of Intent (NOI): August 9, 2009**

**Full Proposal: November 18, 2009**

NASA and The Space Telescope Science Institute (STScI) are pleased to announce this Multi-Cycle Treasury Program Call for Proposals for Hubble Space Telescope (HST) Observations. Participation in this program is open to all categories of organizations, both domestic and foreign, including educational institutions, profit and nonprofit organizations, NASA Centers, and other Government agencies.

The MCT program provides an opportunity for the HST community to address high impact scientific questions that require observations on a scale that cannot be accommodated within the standard time allocation process.

MCT programs are defined by the following characteristics:

- MCT programs must require at least 450 orbits and can request more than 1,000 orbits
- Up to 500 orbits of GO observations and 250 orbits of Director's Discretionary time will be available in Cycles 18 and 19. Proposers may request additional orbits in future cycles, if scientifically justified.
- MCT programs will only be scheduled as GO observations.
- MCT Programs must clearly specify why the science goals cannot be achieved through the standard TAC process.
- MCT Programs may enable a broad variety of compelling scientific investigations; they may also focus on one specific problem.
- MCT Programs may have more than one Principal Investigator; one PI must be listed as the designated contact.

MCT proposals will be assessed by a dedicated Time Allocation Committee. There will be no restriction or pre-selection of science topics. The MCT TAC may recommend rejection of all proposals if, in their judgment, none require resources beyond those available through the standard TAC process.

Calls for MCT Programs will not be issued on an annual basis. A future call may be issued, depending on the response to the current call and the future health of HST. However, the community should be aware that this may be the only call for proposals of this type.

MCT Proposal Schedule

For further information: <http://www.stsci.edu/institute/org/spd/mctp.html/>

**Recovery Act - Solid-State Lighting Core - Round VI Grant**  
US Department of Energy-National Energy Technology Laboratory  
**Deadline: August 10, 2009**

The Program Areas of Interest for this announcement were chosen by the DOE based on the prioritization of research subtasks in the DOE SSL Multi-Year Program Plan (MYPP) through collaboration with the NGLIA, the current status of projects in the DOE SSL Project Portfolio, and stakeholder input from the DOE SSL Workshops. Each area of interest corresponds to one or more research subtasks identified in the SSL Multi-year Program Plan (MYPP). The SSL MYPP can be found at:

[http://apps1.eere.energy.gov/buildings/publications/pdfs/ssl/ssl\\_determination\\_signed\\_june\\_2005\\_1.pdf](http://apps1.eere.energy.gov/buildings/publications/pdfs/ssl/ssl_determination_signed_june_2005_1.pdf).

The Areas of Interest target innovations in both Light Emitting Diodes (LED) and Organic Light Emitting Diodes (OLED). Each application shall feature a single approach to achieve the desired performance improvements. Multiple approaches shall be proposed in multiple applications, but all applications must offer a research plan that is not dependent on other applications. Applications shall not duplicate existing projects in the DOE SSL Portfolio. Active projects can be found on the Solid-State Lighting Project Portfolio page at <http://www1.eere.energy.gov/buildings/ssl/projects.html>. Applicants shall discuss SSL industry relationships, collaborations, or partnerships in order to provide evidence of corporate commitment.

**Light Emitting Diodes:**

- Area of Interest 1: Internal Quantum Efficiency
- Area of Interest 2: Phosphors and Conversion Materials
- Area of Interest 3: Thermal Components Research
- Area of Interest 4: System Reliability Methods
- Area of Interest 5: Optical Component Materials

**Organic Light Emitting Diodes:**

Applicants shall relate their technical progress and milestones to the SSL Program milestones and device performance projections contained in the DOE SSL MYPP.

- Area of Interest 6: Novel Device Architectures
- Area of Interest 7: High Efficiency OLED Materials
- Area of Interest 8: OLED Electrodes
- Area of Interest 9: OLED and Encapsulation Fabrication

For further information:

<http://www07.grants.gov/search/search.do?&mode=VIEW&flag2006=false&oppId=48218>

**Recovery Act: Geologic Sequestration Training and Research**  
US Department of Energy-National Energy Technology Laboratory  
**Deadline: August 11, 2009**

Grant applications from universities, colleges, and college-affiliated research institutions and Historically Black Colleges and Universities and Other Minority Institutions (HBCU/OMI) are sought to provide training opportunities for graduate and undergraduate students that will provide the human capital and skills required for implementing and deploying CCS technologies. Training can be accomplished through fundamental research in the CCS technology area. Fundamental research is needed to advance science in: simulation and risk assessment; monitoring, verification, and accounting; geological related analytical tools; methods to interpret geophysical models; well completion and integrity for long-term CO<sub>2</sub> storage; and CO<sub>2</sub> capture.

<http://www07.grants.gov/search/search.do?&mode=VIEW&flag2006=false&oppId=48212>

**Recovery Act: Advanced Energy Efficient Building Technologies**  
U. S. Department of Energy-National Energy Technology Laboratory  
**Deadline: August 18, 2009**

The Department of Energy (DOE), National Energy Technology Laboratory (NETL), on behalf of the Office of Energy Efficiency and Renewable Energy's (EERE) Building Technologies Program (BTP), is seeking applications under six broad Areas of Interest. Each Area of Interest includes several specific Technical Subtopics (which are described in further detail throughout this section) as follows:

Area of Interest 1: Advanced Building Control Strategies, Communications and Information Technologies for Net-Zero Energy Buildings (Technical Subtopic 1.1: Advanced Building Control Strategies and Interfaces; Technical Subtopic 1.2: Advanced Whole-Building Control Systems and Information Technology; Technical Subtopic 1.3: Advanced Component Level Software and Hardware Development; Technical Subtopic 1.4: Energy Control and Optimization Algorithms and Tools).

Area of Interest 2: Analysis, Design and Technical Tools (Technical Subtopic 2.1: Systems Engineering Tools for Very-Low Energy Buildings; Technical Subtopic 2.2: Scientific and Engineering Foundations for Designing and Operating Very-Low Energy Buildings; Technical Subtopic 2.3: Miscellaneous Electric Load (MEL) Prediction and Modeling).

Area of Interest 3: Building Envelope and Windows (Technical Subtopic 3.1: Window and Daylighting Technology Development; Technical Subtopic 3.2: Envelope Technology Development; Technical Subtopic

<https://www.fedconnect.net/FedConnect/MemberHome/Opportunity/OpportunityList.aspx>

**Highway IDEA (Innovations Deserving Exploratory Analysis)**  
National Cooperative Highway Research Program (NCHRP)  
**Deadline: September 1, 2009**

A project of the National Cooperative Highway Research Program (NCHRP), the NCHRP Highway IDEA program seeks proposals with potential to advance the construction, safety, maintenance, and management of highway systems. The program is sponsored by the member states of the American Association of State Highway and Transportation Officials.

The NCHRP Highway IDEA program is managed by the NCHRP and is sponsored by the member states of AASHTO. The program seeks advances in the construction, safety, maintenance, and management of highway systems, including

Security of Highway Facilities and Services  
Highway Design, Construction, and Quality Control  
Maintenance and Renewal of Service Life  
Highway Operations  
Highway and Worker Safety  
Pavement and Bridge Performance and Management  
Environment and Resource Conservation

In addition to the focus areas identified above, the NCHRP IDEA Program will select two special interest areas each year.

The topics for the 2009 spring and fall review cycles are

Innovative materials and techniques for construction and maintenance;  
Work zone safety; and  
Transportation safety and security.

For further information: <http://www.trb.org/Studies/Programs/IDEAHighway.asp>

**Recovery Act - Systems Level Technology Development, Integration, and Demonstration for Efficient Class 8 Trucks (SuperTruck) and Advanced Technology Powertrains For Light-Duty Vehicles (ATP-LD)**  
National Energy Technology Laboratory  
**Deadline: September 9, 2009**

The goal is to develop and demonstrate a 50% improvement in overall freight efficiency on a heavy-duty Class 8 tractor-trailer measured in ton-miles per gallon. This improvement will be achieved through the application of advanced vehicle system technologies and advanced engine technologies. At least 20% of the improvement will be through the development of an engine capable of achieving 50% Brake Thermal Efficiency (BTE). Over the 3 to 5 year period of this activity, the selected participants will develop, test, and ultimately demonstrate these advanced technologies on a full-scale vehicle. A pathway to compliance with prevailing federal safety and

environmental regulations must be shown. Candidate vehicle system technologies may include reductions in aerodynamic drag, vehicle mass, and rolling resistance, and other technologies as appropriate. Electrical or mechanical drive train hybridization, including energy storage/regeneration and main engine idle and other ancillary load reductions, may also be considered. In an effort to bring the best possible resources to bear on this transformational vehicle development, teams are expected to include but are not limited to a vehicle OEM, engine manufacturers and critical suppliers.

<http://www07.grants.gov/search/search.do?&mode=VIEW&flag2006=false&oppId=47867>

### **Energy for Sustainability**

National Science Foundation (NSF); Directorate for Engineering (ENG); Division of Chemical, Bioengineering, Environmental, and Transport Systems (CBET); Environmental Engineering and Sustainability

**Deadline: September 17, 2009;** March 3, 2010

This program supports fundamental research and education in energy production, conversion, and storage and is focused on energy sources that are environmentally friendly and renewable. Most world energy needs are currently met through the combustion of fossil fuels. With projected increases in global energy needs, more sustainable methods for energy production will need to be developed, and production of greenhouse gases will need to be reduced. Sources of sustainable energy include sunlight, wind/wave, biomass, and geothermal.

Hydrocarbons, alcohols, and hydrogen are potential energy carriers that can be derived from renewable sources. Research that generates enabling science and technologies for more efficient hydrogen generation and storage is supported by the program. Potential sources of hydrogen include conversion from biomass and from electrolysis, photolysis or thermolysis of water. Biomass is available from agricultural crop residues, forest products, aquatic plants, and municipal wastes. In addition to hydrogen, biomass can be a source of liquid and gaseous hydrocarbons and alcohols.

In the long term, fuel cells have the potential to convert fuels such as hydrogen and alcohols to electricity at high efficiencies and should play an increasing role in energy conversion. Critical components of fuel cells requiring additional research include catalysts and electrolytes. Development of these components also requires fundamental research on the reaction and transport mechanisms at the catalyst and membrane electrolyte interface. Advances in these areas are needed to address key challenges in efficiency, durability, power density, and environmental impacts. The engineering aspects of fuel-cell design and operation also require further study in areas such as water and thermal management.

Wind power is a growing source of electrical energy. Increased efficiency requires a fundamental knowledge of the interaction of wind with the blade structure. Understanding the fluid flow, and optimizing blade design are important aspects in developing more efficient wind generators. Photovoltaic devices have the potential to supply a significant fraction of electrical energy to the power grid. Although silicon-based materials have been most widely used, other semiconducting,

quantum and organic materials also have potential. New materials and novel fabrication techniques for solar energy conversion are supported by the program.

For further information: [http://www.nsf.gov/funding/pgm\\_summ.jsp?pims\\_id=501026](http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=501026)

### **Transit IDEA (Innovations Deserving Exploratory Analysis)**

National Cooperative Highway Research Program (NCHRP)

**Deadline: October 1, 2009**

The Transit IDEA program, which is part of the Transit Cooperative Research Program and supported by the FTA, seeks innovations to improve the efficiency, safety, security, maintenance, and ridership of transit systems. Proposers are encouraged to work with transit agencies in developing IDEA proposals and to include participation by transit agencies in testing innovative methods. Evidence from transit agencies that they would want to use the proposed concepts and products and to participate in testing prototypes strengthens proposals. Any letters from transit agencies confirming their participation in Transit IDEA proposals should be addressed to the proposer and should briefly describe what that participation would be. Possible areas of investigation are described on the next pages.

#### High-Priority Focus Areas

The panel that reviews Transit IDEA proposals is encouraging proposals for innovative methods that address one of the following four high-priority focus areas. The panel developed these focus areas in cooperation with FTA and the American Public Transportation Association (APTA):

1. Increasing transit ridership;
2. Improving transit safety, security, or emergency preparedness;
3. Improving transit capital or operating efficiencies; and
4. Protecting the environment or promoting energy independence.

#### Other Possible Areas of Investigation

Transit IDEA proposals may also be submitted in other areas identified below with application to transit practice.

Transit Operations

Service Configuration

Transit Vehicles and Equipment

Engineering of Fixed Transit Facilities

Transit Vehicle Maintenance

Human Resources

Administration

Policy and Planning

For further information: <http://www.trb.org/Studies/Programs/IDEATransit.asp>

## **FINE ARTS**

### **Research Grants**

National Art Education Association (NAEA)

**Deadline: October 1, 2009**

The Research Grants endorse NAEA's efforts to initiate and encourage research in art education. This program provides major grants to support research in art education specifically relating to one of the recommendations in Creating a Visual Arts Research Agenda Toward the 21st Century identified by NAEA's Commission on Research in Art Education.

Foundation grants are made to NAEA members only.

For further information: [http://www.arteducators.org/olc/pub/NAEA/grants/grants\\_page\\_8.html](http://www.arteducators.org/olc/pub/NAEA/grants/grants_page_8.html)

### **Summer Stipends**

National Foundation for the Arts and the Humanities

**Deadline: October 1, 2009**

Summer Stipends support individuals pursuing advanced research that is of value to scholars and general audiences in the humanities. Recipients usually produce articles, monographs, books, digital materials, archaeological site reports, translations, editions, or other scholarly tools. Summer Stipends support full-time work on a humanities project for a period of two months. Summer Stipends support projects at any stage of development. Summer Stipends are awarded to individual scholars. Organizations are not eligible to apply.

Applications may address the holdings or activities of a single institution or may involve collaboration. In all cases, projects should be designed to facilitate sharing, exchange, and interoperability of humanities information and products.

As a taxpayer-supported federal agency, NEH endeavors to make the products of its awards available to the broadest possible audience. NEH's goal is for scholars, educators, students, and the American public to have ready and easy access to the wide range of NEH grant products. For the Summer Stipends program, such products may include digital tools, websites, and the like. For projects that lead to the development of websites, all other considerations being equal, NEH gives preference to those that provide free access to the public.

The Summer Stipends program accepts applications from researchers, teachers, and writers, whether they have an institutional affiliation or not. Applicants with college or university affiliations must, however, be nominated by their institutions. Only individual applicants are eligible to apply for Summer Stipends.

For further information: <http://www.neh.gov/grants/guidelines/stipends.html>

**Picturing America School Collaboration Projects**  
National Foundation for the Arts and the Humanities  
**Deadline: October 7, 2009**

Building on the national distribution of Picturing America, the National Endowment for the Humanities invites proposals for local and regional projects that foster collaboration between K-12 educators and humanities scholars to encourage engagement with the rich resources of American art to tell America's story.

The Picturing America School Collaboration Projects grant opportunity is designed to help teachers and librarians whose schools display the Picturing America images form connections with courses in the core curriculum. These projects will be grounded in the great works of art included in Picturing America, which is part of the endowment's We the People program.

The images in Picturing America reflect a variety of media spanning several centuries, ranging from the work of early American Indian artists to painters such as Mary Cassatt and Jacob Lawrence, from photographers such as Dorothea Lange to architects such as Frank Lloyd Wright. These images will help students better understand America's diverse people and places and connect them to the nation's travails and triumphs. This history is reflected in the themes of Picturing America: Leadership, Freedom and Equality, Democracy, Courage, Landscape, and Creativity and Ingenuity.

Goals of the Picturing America School Collaboration Projects grants are

- to strengthen understanding of the connections between great works of American art and significant events, themes, and topics in the American experience;
- to encourage local and regional collaboration between K-12 educators and humanities experts who can bring appropriate knowledge to the integration of American artworks in core subjects;
- to foster discussion of how to use the Picturing America images among K-12 educators within a locality or region; and
- to provide access to rich scholarly resources and primary materials that support teaching.

For further information:

<http://www07.grants.gov/search/search.do;jsessionid=LP7dKc0XndX6Thj1RTVKsn5bB5ChYzrbMQmhjLCq3N2GLyLn5Lv5!1834325596?oppId=47559&flag2006=false&mode=VIEW>

**Senior Fellowships and Associate Appointments**

National Gallery of Art, Center for Advanced Study in the Visual Arts (CASVA)  
Senior Fellowship Program  
**Deadline: October 15, 2009**

The Center for Advanced Study in the Visual Arts (CASVA), a part of the National Gallery of Art, announces its program for Senior Fellowships. Fellowships are for full-time research, and scholars are expected to reside in Washington, District of Columbia, United States of America, throughout their fellowship period and participate in the activities of the center. Lectures, colloquia, and informal discussions complement the fellowship program.

The Paul Mellon and Ailsa Mellon Bruce Senior Fellowships are intended to support research in the history, theory, and criticism of the visual arts (painting, sculpture, architecture, landscape architecture, urbanism, prints and drawings, film, photography, decorative arts, industrial design, and other arts) of any geographical area and of any period. The Samuel H. Kress Senior Fellowships are intended primarily to support research on European art prior to the early nineteenth century. The Frese Senior Fellowship is intended for study in the history, theory, and criticism of sculpture, prints and drawings, and the decorative arts of any geographical area and of any period. Applications are also solicited from scholars in other disciplines whose work examines artifacts or has implications for the analysis and criticism of physical form.

The center will consider the appointment of associates who have obtained awards for full-time research from other granting institutions (other than one's home institution) and would like to be affiliated with the center. Qualifications and selection for associate status are the same as for Senior Fellows

For further information: <http://www.nga.gov/resources/casvasen.htm>

## **HUMANITIES**

See also opportunities listed under MULTIPLE DISCIPLINES

### **Field Research Grants**

Tinker Foundation, Inc.

**Deadline: October 1, 2009**

The Tinker Field Research Grants competition was initiated in 1979 within the foundation's institutional grants program. These awards are available to recognized centers or institutes of Ibero-American or Latin American studies with graduate doctoral programs at accredited United States universities.

The grants provide graduate students with travel funds (international and in-country) to Latin America, Spain, and Portugal to acquire a comprehensive knowledge of language and culture, to gather research data, and to develop contacts with scholars and institutions in their field. They are awarded by the university institutes or centers for brief periods of research in Iberia or Latin America and should reflect primarily the major interests of the Tinker Foundation, i.e., economic policy and governance and those targeted social science disciplines having strong public policy implications, and environmental policy studies. Awards are limited to graduate students conducting pre-dissertation research.

For further information: <http://foundationcenter.org/grantmaker/tinker/field.html>

## **ACLS Digital Innovation Fellowships**

American Council of Learned Societies (ACLS)

**Deadline: October 2, 2009**

This program supports digitally based research projects in all disciplines of the humanities and humanities-related social sciences. Appropriate fields of specialization include, but are not limited to, American studies; anthropology; archaeology; art and architectural history; classics; economics; film; geography; history; languages and literatures; legal studies; linguistics; musicology; philosophy; political science; psychology; religious studies; rhetoric, communication, and media studies; science, technology, and medicine studies; sociology; and theater, dance, and performance studies. Proposals in the social science fields listed above are eligible only if they employ predominantly humanistic approaches (e.g., economic history, law and literature, political theory). Proposals in interdisciplinary and cross-disciplinary studies are welcome, as are proposals focused on any geographic region or on any cultural or linguistic group. It is hoped that projects of successful applicants will help advance digital humanistic scholarship by broadening understanding of its nature and exemplifying the robust infrastructure necessary for creating further such works.

The fellowships are intended to support an academic year dedicated to work on a major scholarly project that takes a digital form. Projects may involve development of new digital tools that further humanistic research (such as digital research archives or innovative databases), research that depends on or is greatly enhanced by the use of such tools, the representation of research that depends on or is greatly enhanced by the use of such tools, or some combination of these features.

ACLS does not support creative works (e.g., novels or films), textbooks, straightforward translations, or purely pedagogical projects.

The aim of this program is to provide scholars the means to pursue intellectually significant projects that deploy digital technologies intensively and innovatively. The fellowship therefore includes a stipend to allow an academic year's leave from teaching, and funds that may be used for purposes such as the following:

1. Access to tools and personnel for digital production. This could include acquiring hardware and software, engaging consultants, or purchasing access to digital collections. Preference will be given to project plans that make the most efficient use of existing cyberinfrastructure, either on the applicant's campus or beyond.
2. Collaborative work. Applications are encouraged that include, where appropriate, plans for contact with centers for humanities computing or with disciplinary and interdisciplinary research centers (such as campus and national humanities centers).
3. Dissemination and Preservation. Applicants must specify how their projects will be presented and preserved. Applicants should also outline strategies for raising the visibility of their projects at workshops, seminars, conferences, and meetings of their field or discipline.

For further information: <http://www.acls.org/grants/Default.aspx?id=508>

## **Strategies and Tools for Archives and Historical Publishing Projects**

National Archives and Records Administration (NARA)

**Deadline: October 5, 2009**

The National Historical Records and Publications Commission (NHPRC) seeks proposals to develop new strategies and tools that can improve the preservation, public discovery, or use of historical records. Project may also focus on techniques and tools that will improve the professional performance and effectiveness of those who work with such records, such as archivists, documentary editors, and records managers. Projects concerning records may focus on methods of working with any format including born-digital records. Publishing of historical records must focus on methods of presenting archival records as primary sources. The commission does not fund projects focused on artifacts or books.

For further information: <http://www.archives.gov/nhprc/announcement/strategies.html>

## **Digital Humanities Start-Up Grants**

National Endowment for the Humanities

**Deadline: October 6, 2009**

The National Endowment for the Humanities (NEH) invites applications to the Digital Humanities Start-Up Grants program. This program is designed to encourage innovations in the digital humanities. By awarding relatively small grants to support the planning stages, NEH aims to encourage the development of innovative projects that promise to benefit the humanities. Proposals should be for the planning or initial stages of digital initiatives in any area of the humanities. Digital Humanities Start-Up Grants may involve

- research that brings new approaches or documents best practices in the study of the digital humanities;
- planning and developing prototypes of new digital tools for preserving, analyzing, and making accessible digital resources, including libraries' and museums' digital assets;
- scholarship that examines the philosophical implications and impact of the use of emerging technologies;
- innovative uses of technology for public programming and education utilizing both traditional and new media; and
- new digital modes of publication that facilitate the dissemination of humanities scholarship in advanced academic as well as informal or formal educational settings at all academic levels.

Innovation is a hallmark of this grant category. All applicants must propose an innovative approach, method, tool, or idea that has not been used before in the humanities. These grants are modeled, in part, on the "high risk/high reward" paradigm often used by funding agencies in the sciences. NEH is requesting proposals for projects that take some risks in the pursuit of innovation and excellence.

Digital Humanities Start-Up Grants should result in plans, prototypes, or proofs of concept for long-term digital humanities projects prior to implementation.

Two levels of awards will be made in this program.

Level I awards are small grants designed to fund brainstorming sessions, workshops, early alpha-level prototypes, and initial planning. Level II awards are larger grants that can be used for more

fully-formed projects that are ready to begin implementation or the creation of working prototypes. Applicants must state in their narrative which funding level they seek. Applicants should carefully choose the funding level appropriate to the needs of the proposed project. See Section II, Award Information, for more details.

Digital Humanities Start-Up Grants support full-time or part-time activities for periods up to eighteen months. Support is available for various combinations of scholars, consultants, and research assistants; project-related travel; and technical support and services. Up to 20 percent of the total grant may be used for the acquisition of computing hardware and software. All grantees are expected to communicate the results of their work to appropriate scholarly and public audiences. In order to facilitate dissemination and increase the impact of the projects that are ultimately developed through Digital Humanities Start-Up Grants, applicants are strongly encouraged to employ open-source and fully accessible software.

Successful applicants will be expected to create a “lessons learned” white paper. This white paper should document the project, including lessons learned, so that others can benefit from the grantees’ experience. This white paper will be posted on the NEH Web site.

For further information: <http://www.neh.gov/grants/guidelines/digitalhumanitiesstartup.html>

### **Transcribing the Founders Papers for Online Access: Pilot Project**

National Archives and Records Administration (NARA)

**Deadline: October 15, 2009**

The National Historical Publications and Records Commission is seeking proposals for a pilot project to develop a model for a cost-effective process for transcribing handwritten papers collected by the Founders editions and for providing online access to the remaining unpublished papers of the Founders in a timely manner. These documents will come from the papers of John Adams, Benjamin Franklin, Thomas Jefferson, James Madison, and George Washington.

For further information: <http://www.archives.gov/nhprc/announcement/transcribing.html>

### **Grants**

National Center for Preservation Technology and Training

**Deadline: October 15, 2009**

The National Center for Preservation Technology and Training (NCPTT) seeks innovative projects that advance the application of science and technology to historic preservation. The PTT Grants program funds projects that develop new technologies or adapt existing technologies to preserve cultural resources.

Projects may include, but are not limited to

- laboratory or field research that explores or assesses novel or adaptive methods;
- training activities, including workshops, and course or curriculum development that promote the use of new or adaptive technologies;
- documentation using new methods;
- manuscript or website development that disseminates innovative preservation technologies; and

- meetings that convene experts to discuss the use of technologies to address preservation problems.

NCPTT funds projects within several overlapping disciplinary areas. These include

- archaeology,
- collections management,
- architecture,
- engineering,
- historic landscapes, and
- materials research.

Although any proposal will be considered that advances NCPTT's mission, NCPTT will give preference to proposals that advance technologies or methods to

- conserve cultural resources of the "recent past,"
- monitor and evaluate preservation treatments,
- investigate minimally invasive techniques to inventory and assess cultural resources,
- protect cultural resources against natural and human threats,
- preserve cemeteries and places of worship, and
- safeguard resources from effects of pollution and climate.

The successful proposed project should thoroughly address an identifiable national need in preservation technology, present innovate technologies, demonstrate a technically sound methodology, have a principal investigator well qualified to conduct the proposed work, disseminate project results effectively, be cost effective given the scope of work and the audience, and result in tangible grant products that disseminate information beyond traditional ways (e.g., online web based training, webinars, podcasts, videos, DVDs, electronic publishing, etc.).

For further information: <http://www.ncptt.nps.gov/grants/call-for-proposals-2009/>

### **INTERNATIONAL AREA STUDIES**

See also opportunities listed under HUMANITIES and MULTIPLE DISCIPLINES

#### **Projects That Enhance Korean Studies Teaching**

Association for Asian Studies, Inc. (AAS)

**Deadline: October 1, 2009**

The NEAC of the Association for Asian Studies (AAS), in conjunction with the Korea Foundation, offers a grant program in Korean studies designed to assist the research of individual scholars based in North America, to improve the quality of teaching about Korea on both the college and precollege levels, and to integrate the study of Korea into the major academic disciplines. Under the category of Projects that Enhance Korean Studies Teaching, support is available for planning, workshops, and instructional materials related to teaching about Korea or integrating Korean studies topics in broader categories of instruction. Awards are intended to assist in the development of larger projects. Proposals for grants to teachers for instructional

materials are also accepted within this category. Instructional material grants may include books, CD-ROMS, videos, and other materials that would assist faculty at small institutions who would otherwise be unable to obtain audiovisual materials for their Korea-related courses.

For further information: <http://www.aasianst.org/grants/main.htm>

### **Short-Term Travel to Japan for Professional Purposes**

Association for Asian Studies, Inc. (AAS)

**Deadline: October 1, 2009**

The NEAC, in conjunction with the Japan-United States Friendship Commission, supports a variety of grant programs in Japanese studies designed to facilitate the research of individual scholars, to improve the quality of teaching about Japan on both the college and precollege levels, and to integrate the study of Japan into the major academic disciplines. Under the Short-Term Travel to Japan for Professional Purposes category, grants are available to cover expenses while in Japan conducting a specific project explicitly related to Japan that can be accomplished in the period of time requested. These grants are intended for short-term research trips by scholars who are already familiar with Japan and with their topic, but who need time in Japan in order to complete their work.

For further information: <http://www.aasianst.org/grants/main.htm>

### **Title VIII Southeastern Europe Language Program**

American Councils for International Education - ACTR/ACCELS

**Deadline: October 1, 2009**

Funded by the U.S. Department of State's Program for the Study of Eastern Europe and the Independent States of the Former Soviet Union (Title VIII), the American Councils Southeastern Europe Language Program provides language training in Albania, Bosnia-Herzegovina, Bulgaria, Croatia, Macedonia, Montenegro, Romania, and Serbia. Academic year, semester, and summer programs feature instruction in the target language by members of university faculty; seminars focusing on vocabulary expansion, development of conversational skills, and stylistics and syntax; and graduate-level academic credit through Bryn Mawr College. Graduate students, faculty, and scholars in a wide range of fields (including literature, history, and linguistics) have received Title VIII support for language study.

For further information: [http://www.americancouncils.org/programs.php?program\\_id=Nzg=](http://www.americancouncils.org/programs.php?program_id=Nzg=)

## **MEDICINE & LIFE SCIENCES**

See also opportunities listed under MULTIPLE DISCIPLINES

### **Mentor-Predocctoral Fellow Research Award for noninvasive Cancer Ablation Research Only**

Department of Defense (DOD); Peer Reviewed Cancer research Program (PRCRP)

**Deadline: Required Pre-Application: August 5, 2009**

**Full Proposal: December 9, 2009**

Promotes new ideas that are still in the early stages of development while training outstanding candidates in the topic area of noninvasive cancer ablation treatment research including selective targeting with nanoparticles. The research should have the potential to yield highly impactful data and new avenues of investigation in the PRCRP topic area of noninvasive cancer ablation treatment research including selective targeting with nanoparticles. This mechanism supports conceptually innovative research that could ultimately lead to critical discoveries or major advancements that will accelerate the field of noninvasive cancer ablation treatment including selective targeting with nanoparticles. Research projects should include a well-formulated, testable hypothesis based on strong scientific rationale. Mentored training of an outstanding Predocctoral fellow is an important aspect of this award, and inclusion of a Predocctoral Fellow is a requirement.

#### *Focus Areas:*

- Development of approaches for deep organ access for ablation technologies
- Validation of nanoparticle targeting

The PRCRP Mentor-Predocctoral Fellow Research Award supports high-impact, innovative research that will drive the field forward.

Important aspects of the Mentor-Predocctoral Fellow Research Award are as follows:

*1. Innovation:* Research deemed innovative may represent a new paradigm, challenge existing paradigms, or look at existing problems from new perspectives. Research may be innovative in study concept, research methods or technology, clinical interventions, or adaptations of existing methods or technologies. Research that represents an incremental advance on previously published work is not considered innovative.

*2. Impact:* The proposed research should have a significant impact on the concepts or methods that drive the field of noninvasive cancer ablation treatment including selective targeting with nanoparticles research. The proposed research is expected to make original and important contributions to the goal of advancing this area of research.

*3. Predocctoral Fellow:* A Predocctoral Fellow is a requirement. The intent of the Predocctoral Fellow is to foster the next generation of noninvasive cancer ablation treatment investigators through mentored research training of doctoral degree candidates who are committed to a career in noninvasive cancer ablation treatment including selective targeting with nanoparticles research

For further information: <http://cdmrp.army.mil/funding/pdf/09prcrprefable.pdf>

## **IDEA Award for Genetic Cancer Research Only**

Department of Defense (DOD); Peer Reviewed Cancer research Program (PRCRP)

**Deadline: Required Pre-Application: August 5, 2009**

**Full Proposal: December 9, 2009**

The PRCRP Idea Award is intended to promote the exploration of ideas that are still in the early stages of development yet have the potential to yield high-impact results and open new avenues of investigation in genetic cancer research and its relation to exposure to the various environments that are unique to a military lifestyle. This mechanism supports conceptually innovative, high-risk/high-reward research that could ultimately lead to critical discoveries or major advancements.

### **Focus Areas:**

- Identification and characterization of changes in gene structure and/or expression resulting from physical, biological, chemical or psychological exposures, and stressful environments that, alone or in concert, are known or suspected to increase cancer risk. Although not all inclusive, hazards encountered by the military population include:
  - Radiation (UV and other radiation sources)
  - Biological Agents
  - Chemicals
  - Physical and/or Psychological Stress
  - Other Environmental Conditions (e.g., noise, heat, altitude)
- Investigation of biological pathways involved in carcinogenic mechanisms which are affected by military exposures
- Investigation of the trans-generational cancer risk of military exposures
- Evaluation of differences in genetic susceptibility to cancer among ethnic groups affected by military exposures

Important aspects of the PRCRP Idea Award are as follows:

**1. Innovation:** Research deemed innovative may represent a new paradigm, challenge existing paradigms, or look at existing problems from new perspectives. Research may be innovative in study concept, research methods or technology, or adaptations of existing methods or technologies. Research that represents an incremental advance on previously published work is not considered innovative.

**2. Impact:** The proposed research should have a significant impact on the concepts or methods that drive the field of genetic cancer research and its relation to exposure to the various environments that are unique to a military lifestyle. The proposed research is expected to make original and important contributions to the goal of advancing this area of research.

For further information: <http://cdmrp.army.mil/funding/pdf/09prcrpactable.pdf>

## **New Investigator Award for Genetic Cancer Research Only**

Department of Defense (DOD); Peer Reviewed Cancer research Program (PRCRP)

**Deadline: Required Pre-Application: August 5, 2009**

**Full Proposal: December 9, 2009**

The PRCRP New Investigator Award supports independent Principal Investigators (PIs) in the early stages of their careers, and it strongly encourages a designated collaborator. The PRCRP seeks to support the career transition and/or continued development of promising PIs who have innovative, high-impact ideas or new technologies applicable to genetic cancer research and its relation to exposures to the various environments that are unique to a military lifestyle.

### *Focus Areas:*

- Identification and characterization of changes in gene structure and/or expression resulting from physical, biological, chemical or psychological exposures, and stressful environments that, alone or in concert, are known or suspected to increase cancer risk.
- Investigation of biological pathways involved in carcinogenic mechanisms which are affected by military exposures
- Investigation of the trans-generational cancer risk of military exposures
- Evaluation of differences in genetic susceptibility to cancer among ethnic groups affected by military exposures

Important aspects of the PRCRP New Investigator Award are as follows:

- 1. Personnel:* The PI is emphasized in this award. The PI's record of accomplishment will be evaluated regarding his or her potential for contributing to the area of genetic cancer research and its relation to exposures to the various environments that are unique to a military lifestyle.
- 2. Collaborator:* Submission to this award mechanism strongly encourages a **collaborator** (or collaborators), appropriate to the application, who has experience as demonstrated by a record of funding and publications in the area of genetic cancer research and its relation to exposures to the various environments that are unique to a military lifestyle.
- 3. Innovation:* Research deemed innovative may represent a new paradigm, challenge existing paradigms, or look at existing problems from new perspectives. Research may be innovative in study concept, research methods or technology, or adaptations of existing methods or technologies. Research that represents an incremental advance on previously published work is not considered innovative.
- 4. Impact:* The proposed research should have a significant impact on the concepts or methods that drive the field of genetic cancer research and its relation to exposures to the various environments that are unique to a military lifestyle. The proposed research is expected to make original and important contributions to the goal of advancing this area of research.

For further information: <http://cdmrp.army.mil/funding/pdf/09prcrpactable.pdf>

## **Multiple Sclerosis Research Program-- Metric Development and Validation Award**

Department of Defense Congressionally Directed Medical Research Programs

**Deadline: Required Pre-Application: August 13, 2009**

**Full Proposal: November 24, 2009**

The Metric Development and Validation Award is designed to develop and/or validate readily accessible, cost-effective, analytical methods that may be utilized to quantify the disease, monitor disease progress, and/or evaluate the efficacy of disease therapies. Particular emphasis is laid on the development of measurement processes with regard to reproducibility and accuracy and/or the validation of existing and novel measures. Resulting metrics should have broad clinical and/or research applications, as well as the potential for high impact on the MS clinical and/or research community.

The overall goal of this award is to accelerate advances in MS research. The following are significant features of this award mechanism:

*1. Impact:* High-impact measurements, if successful, will significantly improve the sensitivity and/or specificity of current methods, or provide methods specific to novel targets, and thereby will enable improved experiments toward the MSRP vision of preventing the occurrence, reversing or slowing the progression and disability, and lessening the impact of MS. Proposals should address a central critical problem or question in MS research.

*2. Clinical/Research Metrics:* It is critical that each proposal address at least one area of MS research in which current measures are inadequate for clinical and/or research needs

*3. Preliminary Data:* Submission of preliminary data relevant to MS and the proposed project is encouraged but not required. If preliminary data is provided, it must have been generated from the laboratory of the Principal Investigator (PI) or collaborators listed on this award application. Although groundbreaking research often involves a degree of risk due to unforeseen difficulties or results, proposals should be based on a sound scientific rationale that is established through logical reasoning and/or critical review and analysis of the literature.

For further information: <http://cdmrp.army.mil/funding/msrp.htm>

## **Multiple Sclerosis Research Program--Synergistic Idea Award**

Department of Defense Congressionally Directed Medical Research Programs

**Deadline: Required Pre-Application: August 13, 2009**

**Full Proposal: November 24, 2009**

The Synergistic Idea Award is designed to promote innovative ideas and scientific collaborations by supporting novel approaches to MS research that will move the field toward the MSRP vision of preventing the occurrence, reversing or slowing the progression and disability, and lessening the impact of MS. This award mechanism is designed to support new ideas, not ideas that are extensions of existing collaborative efforts. Collaborative partnerships must involve at least two, and up to a maximum of four, Principal Investigators (PIs) from different research disciplines.

Each collaborative partnership should use synergistic and multidisciplinary perspectives to address a central critical problem or question in MS research.

Proposals should have a high probability of revealing new avenues of investigation. Applications must clearly identify the synergy that will enable or greatly accelerate the evaluation of a single innovative hypothesis through a multidisciplinary approach.

The Synergistic Idea Award requires that the PIs of the collaborative partnership jointly design a single project. However, each partner will be recognized as a PI, submit a separate application, and receive an individual award. The research project should be supported by the unique expertise of each PI, and clearly define the synergistic components that will facilitate and accelerate progress in a way that could not be accomplished through independent efforts. The collaborative partnership should be multidisciplinary; multi-institutional projects are allowed. It is important that each proposed study include clearly stated plans for interactions among all PIs and institutions involved. The plans must include the means to be used for ongoing communication, coordination of research progress and results, and data transfer. Additionally, collaborative partnerships involving multi-institutional applications must provide an intellectual and material property plan to resolve potential intellectual and material property issues and to remove institutional barriers that might interfere with achieving high levels of cooperation to ensure the successful completion of this award.

For further information: <http://cdmrp.army.mil/funding/msrp.htm>

### **Advanced Technology/Therapeutic Development Award**

DoD; Defense Centers of Excellence for Psychological Health and Traumatic Brain Injury (DCoE)

**Deadline: Pre-Application Letter of Intent: August 14, 2009**

**Proposal: October 28, 2009**

Supports the assessment of scientific and/or military field deployment feasibility for promising new products, pharmacologic agents, behavioral interventions, devices, clinical guidance, and/or emerging approaches and technologies.

The goal of this mechanism is to accelerate improved therapies, treatments, devices, or technologies for PH/TBI into the clinical setting.

Preference will be given to proposals with preliminary and/or published data, but omission of these will not be a disqualifying factor.

Proposals should focus on basic, translational, clinical, and/or preventive medicine research within PH/TBI. The intended or target population (Active Duty, Reserve Component, National Guard and/or Veterans) should be noted. Specific areas of interest are those listed below.

1. Studies aimed at improving the understanding of military-related psychological health issues in specific areas of interest.
2. Studies to examine cellular regrowth and interconnection strategies and therapies in the central nervous system (brain and spinal cord).

3. Research on evidence-based prevention and rehabilitation strategies for TBI, PTSD, and co-occurring conditions encompassing cognitive, motor, emotional, psychological, and sensory functioning.
4. Three-dimensional models of Improvised Explosive Device (IED) blast waves to develop equipment to mitigate injury to Service members.
5. PH and/or TBI research exploring the use of advanced neuroimaging, behavioral and/or genetic information to identify biomarkers and to develop diagnostics and treatments for semi-acute, acute, and chronic injury stages, and for the possible integration of informatics and advanced computational research to better understand the intersection of psychological health and TBI.

For further information: <http://cdmrp.army.mil/funding/phtbirp.htm>

### **Investigator-Initiated Research Award**

DoD; Defense Centers of Excellence for Psychological Health and Traumatic Brain Injury (DCoE)

**Deadline: Pre-Application Letter of Intent: August 14, 2009**

**Proposal: October 28, 2009**

Supports research projects from basic laboratory through translational research.

Preference will be given to proposals with preliminary and/or published data, but omission of these will not be a disqualifying factor.

Proposals should focus on basic, translational, clinical, and/or preventive medicine research within PH/TBI. The intended or target population (Active Duty, Reserve Component, National Guard and/or Veterans) should be noted. Specific areas of interest are those listed below.

6. Studies aimed at improving the understanding of military-related psychological health issues in specific areas of interest.
7. Studies to examine cellular regrowth and interconnection strategies and therapies in the central nervous system (brain and spinal cord).
8. Research on evidence-based prevention and rehabilitation strategies for TBI, PTSD, and co-occurring conditions encompassing cognitive, motor, emotional, psychological, and sensory functioning.
9. Three-dimensional models of Improvised Explosive Device (IED) blast waves to develop equipment to mitigate injury to Service members.
10. PH and/or TBI research exploring the use of advanced neuroimaging, behavioral and/or genetic information to identify biomarkers and to develop diagnostics and treatments for semi-acute, acute, and chronic injury stages, and for the possible integration of informatics and advanced computational research to better understand the intersection of psychological health and TBI.

For further information: <http://cdmrp.army.mil/funding/phtbirp.htm>

## **Concept Award**

DoD; Defense Centers of Excellence for Psychological Health and Traumatic Brain Injury (DCoE)

**Deadline: Pre-Application Letter of Intent: August 21, 2009**

**Proposal: August 28, 2009**

Supports the exploration of highly innovative and potentially groundbreaking concepts relevant to PH issues and/or TBI.

Projects involving human subjects or human biological substances must be exempt under 32 CFR 219.101(b) or eligible for expedited review under 32CFR 219.110 or 21 CFR 56.110.

Proposals should focus on basic, translational, clinical, and/or preventive medicine research within PH/TBI. The intended or target population (Active Duty, Reserve Component, National Guard and/or Veterans) should be noted. Specific areas of interest are those listed below.

11. Studies aimed at improving the understanding of military-related psychological health issues in specific areas of interest.
12. Studies to examine cellular regrowth and interconnection strategies and therapies in the central nervous system (brain and spinal cord).
13. Research on evidence-based prevention and rehabilitation strategies for TBI, PTSD, and co-occurring conditions encompassing cognitive, motor, emotional, psychological, and sensory functioning.
14. Three-dimensional models of Improvised Explosive Device (IED) blast waves to develop equipment to mitigate injury to Service members.
15. PH and/or TBI research exploring the use of advanced neuroimaging, behavioral and/or genetic information to identify biomarkers and to develop diagnostics and treatments for semi-acute, acute, and chronic injury stages, and for the possible integration of informatics and advanced computational research to better understand the intersection of psychological health and TBI.

For further information: <http://cdmrp.army.mil/funding/phtbirp.htm>

## **PHYSICAL SCIENCES & MATHEMATICS**

See also opportunities listed under MULTIPLE DISCIPLINES

### **Research Opportunities in Combustion Science**

National Aeronautics and Space Administration (NASA); Exploration Systems Mission Directorate (ESMD)

**Deadline: August 18, 2009**

This is a National Aeronautics and Space Administration (NASA) Research Announcement (NRA) which solicits ground-based proposals to conduct low gravity research on the combustion of materials.

Proposals are solicited by the Exploration Systems Mission Directorate (ESMD) Advanced

Capabilities Division for fundamental studies of material flammability as a function of gravity, flow and orientation; investigations of the relevance of existing flammability test methods for low and partial gravity environments; development and validation of test approaches for assessment of material flammability under microgravity and partial gravity conditions; and quantification of low-gravity gaseous and particulate products of combustion for materials used in the habitable volume of spacecraft developed in NASA's Constellation program. This call is for ground-based research that may eventually lead to research on the International Space Station (ISS).

For further information:

<http://www.grants.gov/search/search.do?mode=VIEW&flag2006=false&oppId=47157>

### **Chemical Sciences, Geosciences, and Biosciences**

United States Department of Energy (DOE); Office of Science; Office of Basic Energy Sciences (BES)

**Deadline: September 30, 2009**

The objective of this subprogram is to support fundamental research enabling the understanding of chemical transformations and energy flow in systems relevant to DOE missions. This knowledge serves as a basis for the development of new processes for the generation, storage, and use of energy and for mitigation of the environmental impacts of energy use. New experimental techniques are developed to investigate chemical processes and energy transfer over a wide range of spatial and temporal scales, from atomic to kilometer spatial scales and from femtosecond to millennia time scales. Theory, modeling, and computational simulations are performed, from detailed quantum calculations of chemical properties and reactivity to multi-scale simulations of combustion devices.

The main research activities within the subprogram are fundamental interactions; photo- and biochemistry; and chemical transformations. In fundamental interactions, basic research is supported in atomic, molecular and optical sciences; gas-phase chemical physics; ultrafast chemical science; and condensed phase and interfacial molecular science. Emphasis is placed on structural and dynamical studies of atoms, molecules, and nanostructures, and the description of their interactions in full quantum detail, with the aim of providing a complete understanding of reactive chemistry in the gas phase, condensed phase, and at interfaces.

For further information: <http://www.science.doe.gov/grants/FAPN09-01.html>

### **Recovery Act - Fish Passage**

U. S. Fish and Wildlife Service

**Deadline: September 30, 2009**

The U.S. Fish and Wildlife Service is announcing the availability of funding under the American Recovery and Reinvestment Act of 2009 for habitat restoration through the National Fish Passage Program. The Fish and Wildlife Coordination Act authorizes the Secretary of Interior to

provide technical and financial assistance through the National Fish Passage Program to partners interested in restoring, enhancing, and managing fish and wildlife habitats. Under the American Recovery and Reinvestment Act of 2009 additional funding is available for habitat restoration through the National Fish passage Program These Recovery Act funds are available for habitat restoration projects that address high priority aquatic habitats. Projects must provide direct benefits to Federal Trust species (i.e., migratory birds, threatened and endangered species, inter-jurisdictional fish, certain marine mammals, and species of international concern). It is a goal of the program to secure at least 50 percent of project costs from non-Service sources, but this goal applies regionally as a whole, and does not have to be achieved on a project-by-project basis. If you are interested in requesting assistance for a potential project under the National Fish Passage Program you must contact your Regional Coordinator for information about funding and technical assistance availability. A listing of Regional Fish Passage Coordinators is available at <http://www.fws.gov/fisheries/fwco/fishpassage/contacts.html>

For further information:

<http://www07.grants.gov/search/search.do?&mode=VIEW&flag2006=false&oppId=47761>

### **Recovery Act - National Fish Habitat Action Plan**

U. S. Fish and Wildlife Service

**Deadline: September 30, 2009**

The U.S. Fish and Wildlife Service is announcing the availability of funding under the American Recovery and Reinvestment Act of 2009 for habitat restoration through the National Fish Habitat Action Plan Program. The Fish and Wildlife Coordination Act authorizes the Secretary of Interior to provide technical and financial assistance through the National Fish Habitat Action Plan Program to partners interested in restoring, enhancing, and managing fish and wildlife habitats. Under the American Recovery and Reinvestment Act of 2009 additional funding is available for habitat restoration through the National Fish Habitat Action Plan. These Recovery Act funds are available for habitat restoration projects that address high priority aquatic habitats. Projects must provide direct benefits to Federal Trust species (i.e., migratory birds, threatened and endangered species, inter-jurisdictional fish, certain marine mammals, and species of international concern). It is a goal of the program to secure at least 50 percent of project costs from non-Service sources, but this goal applies regionally as a whole, and does not have to be achieved on a project-by-project basis. If you are interested in requesting assistance for a potential project under the National Fish Habitat Action Plan you must contact your Regional Coordinator for information about funding and technical assistance availability. A listing of Regional National Fish Habitat Action Plan Coordinators is available at <http://www.fws.gov/fisheries/fwco/nfhap/>

For further information:

<http://www07.grants.gov/search/search.do?&mode=VIEW&flag2006=false&oppId=47768>

## **SOCIAL SCIENCES**

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

### **Minerva Research Initiative (MRI) - W911NF-08-R-0007**

United States Department of Defense (DOD)

**Deadline: October 3, 2009**

The Minerva Research Initiative is a DoD-sponsored, university-based social science research program initiated by the Secretary of Defense. It focuses on areas of strategic importance to U.S. national security policy. It seeks to increase the department's intellectual capital in the social sciences and improve its ability to address future challenges and build bridges between the department and the social science community. Minerva will bring together universities, research institutions, and individual scholars and support multidisciplinary and cross-institutional projects addressing specific topic areas determined by the department.

For further information:

<http://www.grants.gov/search/search.do;jsessionid=LHMYvH5HRXCHj51NZL7q0nJH06vCcCTlpNQyZbZp6yyrbP2tBVTT!-728925704?oppId=42011&flag2006=false&mode=VIEW>

### **Methodology and Measurement in the Behavioral and Social Sciences (R01)**

Department of Health and Human Services (HHS) National Institutes of Health (NIH)

**Deadline: October 5, 2009**

The goal of this Funding Opportunity Announcement (FOA) is to encourage research that will improve the quality and scientific power of data collected in the behavioral and social sciences, relevant to the missions of the participating NIH institutes and centers. The participating NIH institutes and centers invite qualified researchers to submit research grant applications aimed at improving and developing methodology and measurement in the behavioral and social sciences through innovations in research design, data collection techniques, measurement, and data analysis techniques. Research that addresses methodology and measurement issues in diverse populations, issues in studying sensitive behaviors, issues of ethics in research, issues related to confidential data and the protection of research subjects, and issues in developing interdisciplinary, multimethod, and multilevel approaches to behavioral and social science research is particularly encouraged, as are approaches that integrate behavioral and social science research with biological, physical, or computational science research or engineering

For further information: <http://grants.nih.gov/grants/guide/pa-files/PAR-08-212.html>

## **Sociology Program**

National Science Foundation (NSF)

**Deadline: October 15, 2009**

This program supports basic research on all forms of human social organization - societies, institutions, groups, and demography - and processes of individual and institutional change. The program encourages theoretically focused empirical investigations aimed at improving the explanation of fundamental social processes. Included is research on organizations and organizational behavior, population dynamics, social movements, social groups, labor force participation, stratification and mobility, family, social networks, socialization, gender roles, and the sociology of science and technology. The program supports both original data collections and secondary data analysis that use the full range of quantitative and qualitative methodological tools. Theoretically grounded projects that offer methodological innovations and improvements for data collection and analysis are also welcomed. The program also funds doctoral dissertation research to defray direct costs associated with conducting research, for example, dataset acquisition, additional statistical or methodological training, meeting with scholars associated with original datasets, and fieldwork away from the student's home campus.

For further information: [http://www.nsf.gov/funding/pgm\\_summ.jsp?pims\\_id=5369](http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=5369)

## **Methodology and Measurement in the Behavioral and Social Sciences (R21)**

Department of Health and Human Services (HHS), National Institutes of Health (NIH)

**Deadline: October 16, 2009**

This Funding Opportunity Announcement (FOA) encourages applications addressing four general areas of methodology and measurement research in the social and behavioral sciences. These areas include research design, data collection techniques, measurement, and data analysis.

Within the broad spectrum of research defined by these areas, applicants are particularly encouraged (but are not required) to consider studies that address one or more of the following key issues:

- Methodology and measurement issues in developing innovative interdisciplinary, multimethod, and multilevel research designs for use in behavioral and social science research, with special emphasis on both developing new technologies and addressing the analytical complexities associated with the integration of behavioral, social, and biological data
- Methodology and measurement issues in research relating to diverse populations, for example, populations that are distinctive by virtue of age, gender, sexual orientation, ethnicity, culture, including culture-specific medical systems, socio-economic status, literacy, language, or disability
- Methodology and measurement issues in studying how dramatic changes in economic, social, environmental, physical, or political context affect human health and well-being, including developing new methods if older ones are no longer valid in the face of significant changes in populations and societies over the last several decades
- Methodology and measurement issues in studying potentially sensitive behaviors, such as sexual behavior and abortion, and covert or illegal behaviors such as drug use, abuse, and violence

- Methodology and measurement issues that facilitate incorporating measures of social environment with genetic data or enhance bringing genetic measures into studies of social epidemiology
- Methodology and measurement issues concerning ethics in research, with emphasis on the topics of informed consent, assessment of risk and benefit, and selection and retention of subjects, and ensuring subjects' confidentiality

Multidisciplinary and interdisciplinary approaches are strongly encouraged. Potential applicants are urged to explore the ideas and methods developed in social science and behavioral fields other than their own and to consider the development and integration of behavioral and social science measures with those of the biomedical, physical, or computational sciences or engineering. Consulting relevant literature and collaborating with colleagues from other disciplines may provide important opportunities for cross-fertilization in developing improved methodology and measurement.

For further information: <http://grants1.nih.gov/grants/guide/pa-files/PA-08-213.html>

## **MULTIPLE DISCIPLINES**

### **Basic Research for Combating Weapons of Mass Destruction**

#### **HDTRA1-08-10-BRCWMD-BAA**

Research and Development Enterprise Basic and Applied Sciences Directorate

**Deadline: Registration at the DTRA Proposal Submission Website: September 21, 2009**  
**Phase I White Paper: November 2, 2009**

This BAA is focused on soliciting basic research projects that support the DTRA mission to safeguard America and its allies from WMD (e.g., chemical, biological, radiological, nuclear, and high yield explosives) by providing capabilities to reduce, eliminate, and counter the threat and mitigate its effects. To this end, DTRA seeks research across broad strategic thrust areas:

***Science of WMD Sensing and Recognition:*** The basic science of WMD sensing and recognition is the fundamental understanding of materials that demonstrate measurable changes when stimulated by energy, molecules, or particles from WMD in the environment. This research thrust involves exploration and exploitation of interactions between materials and various electromagnetic frequencies, molecules, nuclear radiation or particles. These interactions and the specific form of recognition they provide are used for subsequent generation of information that provides knowledge of the presence, identity, and/or quantity of material or energy in the environment that may be significant.

***Cognitive and Information Science:*** The basic science of cognitive and information science is the convergence of computer, information, mathematical, natural, and social science. This research thrust expands our understanding of social networks and advances knowledge of adversarial intent with respect to the acquisition, proliferation, and potential use of WMD. The methods may include analytical, computational or numerical, or experimental means to integrate

knowledge across disciplines and improve rapid processing of intelligence and dissemination of information.

***Science for Protection:*** Basic science for protection involves advancing knowledge to protect life and life-sustaining resources and networks. Protection includes threat containment, decontamination, threat filtering, and shielding of systems. The concept is generalized to include fundamental investigations that reduce consequences of WMD, assist in the restoration of life-sustaining functions, and support forensic science.

***Science to Defeat WMD:*** Basic science to defeat WMD involves furthering the understanding of explosives, their detonation, and problems associated with accessing the target WMDs. This research thrust includes the creation of new energetic molecules/materials that enhance the defeat of WMDs, the improvement of modeling, and simulation of these materials and various phenomena that affect success and estimate the impact of defeat actions, and investigation of novel methods that may yield order-of-magnitude improvements in energy and energy release rate.

***Science to Secure WMDs:*** Basic science to support securing WMD includes: (a) environmentally responsible innovative processes to neutralize chemical, biological, radiological, nuclear, or explosive (CBRNE) materials and components; (b) discovery of revolutionary means to secure components and weapons; and (c) studies of scientific principles that lead to novel physical or other tags and methods to monitor compliance and disrupt proliferation pathways. The identification of basic phenomena that provide verifiable controls on materials and systems also helps arms control.

For further information:

<http://www07.grants.gov/search/search.do;jsessionid=bvbWKJMhvhX2NyQ273S3VG1SQlyG1GFcPxDK4DD9yv2vNvITsncF!1115390264?oppId=45272&flag2006=false&mode=VIEW>

### **Epidemiology of Drug Abuse (R01)**

Department of Health and Human Services (HHS)

**Deadline: October 5, 2009**

This Funding Opportunity Announcement (FOA) is intended to support projects with that enhance the understanding of drug use patterns and trends within and across populations; interplay of social interactions, social environment, and structural context with individual behavioral characteristics and genetic vulnerability; the phenotypic heterogeneity of drug abuse; causal mechanisms leading to onset, maintenance, and remittance of drug abuse and HIV risk behaviors, as well as protective mechanisms that reduce these risk behaviors; drug abuse over the life course, including developmental processes that influence drug use and HIV risk trajectories and behavioral, health, and social consequences of drug abuse and HIV; and medical consequences of drugs of abuse and co-occurring viral and bacterial infections (e.g., HIV, HCV, TB, STIs). In addition, research is encouraged to develop methodologies to improve the accuracy, efficiency, scope, timeliness, and analytic yield of drug abuse epidemiologic data.

Because of the breadth of epidemiology research, applications are anticipated to reflect diverse and multidisciplinary putative approaches and multiple levels of causation. To take advantage of the strength of specific research fields in an efficient manner, and to maximize the

generalizability of findings, researchers are encouraged to develop or incorporate innovations in epidemiologic study design. Such designs may include nesting of biological or basic research, contextual analysis, and contemporary longitudinal analyses.

Research indicates that there are significant gender-specific differences in biological factors in drug abuse and related risk behaviors, antecedents, and consequences of drug abuse, and responses to prevention and treatment. Investigators should, wherever germane, include adequate numbers of both male and female subjects in their studies in order to make meaningful gender comparisons. Researchers are also encouraged to design studies to explore gender differences in the nature and extent of drug-using behaviors, including sexual risk behavior associated with injecting and non-injecting drug abuse, in the pathways and determinants of initiation, progression, and maintenance of drug abuse, and the behavioral and social consequences of drug abuse.

Epidemiologic research is also needed to inform prevention and intervention strategies aimed at reducing and eliminating drug-related health disparities, as well as services research on access, utilization, and retention of racial and ethnic minority populations in drug abuse treatment. This announcement therefore encourages research that focuses on identifying risk factors and consequences that are unique to or more prevalent in subpopulations in socioeconomically disadvantaged (i.e., low education level, poverty) and medically underserved rural and urban communities.

The epidemiologic drug abuse research program is further organized into major program areas that are described below. Examples of the types of research topics include, but are not limited to, the following:

1. Emerging and current trends in drug abuse and drug-related disorders
2. Social epidemiology of drug abuse and drug-related problems
3. Genetic liability and phenotypic heterogeneity
4. Drug abuse and psychopathology: vulnerability and comorbidity
5. Human development in adolescence and adulthood
6. Family processes and early risks for drug use
7. Social and behavioral consequences of street drugs
8. Drug markets and behavior economics
9. Health and medical consequences of drugs of abuse and co-occurring infections

For further information: <http://grants1.nih.gov/grants/guide/pa-files/PA-08-124.html>

### **Health Research with Diverse Populations (R01)**

Department of Health and Human Services (HHS)

National Institutes of Health (NIH)

**Deadline: October 5, 2009**

The purpose of this Funding Opportunity Announcement (FOA) is to invite grant applications for biological, behavioral, social, addictive, and mental health research related to the health of

lesbian, gay, bisexual, transgender, intersex, and other diverse populations. Proposed research should be appropriate for the missions of one or more of the participating institutes.

For further information: <http://grants1.nih.gov/grants/guide/pa-files/PA-07-409.html>