



The  
Research Foundation  
of SUNY

OFFICE OF RESEARCH & SPONSORED PROGRAMS

SUNY Oswego  
**GRANTSCENE**

## About SUNY Oswego Grantscene

The SUNY Oswego GRANTSCENE is an on-line publication dedicated to SUNY Oswego faculty and staff who are interested in research and scholarly activity. The GRANTSCENE is published monthly from September to April of each year. You can subscribe to receive a PDF of the newsletter through Oswego's mailing list, found at <http://ls.oswego.edu/mailman/listinfo>. To subscribe, scroll down and click on grantscene-list and, fill in the required information. The Grantscene is also available from the Office of Research and Sponsored Programs homepage, <http://www.oswego.edu/ORSP>.

[www.oswego.edu/ORSP](http://www.oswego.edu/ORSP).

Upcoming funding opportunities can be found in the "An Eye on Funding" section. These funding opportunities are listed under the headings: Arts, Education, Health and Wellness, Humanities, Interdisciplinary, Sciences, and Social/Behavioral. These categories are a result of your keywords. Deadlines are as soon as four weeks away, so check them soon or you may miss a great opportunity. If you are interested in any of the funding opportunities, send Linda Cook an email with the program name and reference number and she will send you complete guidelines.

plete guidelines.

The "Campus News" section is where you will find information about campus grants for faculty and students, award ceremonies, research related events, and campus news.

Information on the back page explains the relationship between the Office of Research and Sponsored Programs (ORSP) and SUNY Oswego. There is also a list of services available to faculty and staff who are searching for funding and/or preparing to submit a proposal. Office hours and contact information can also be found on this page.



## New Faculty

Welcome new faculty, to the fall 2009 semester at SUNY Oswego.

The Office of Research and Sponsored Programs (ORSP) assists faculty and staff to identify appropriate sponsors for external funding, submit applications and administer funded projects.

Jack Gelfand is the Director of Research Administration and Development and will be happy to talk to you about any project ideas that you are seeking external finding for.

Maria Nakamura is the Associate Director of Sponsored Research and will help you formulate a

concise proposal and inclusive budget to conduct all your project activities.

Linda Cook will search for funding opportunities appropriate to your interests and submit your grant applications.

Once a proposal is

*(Continued on page 15)*

### Inside this issue:

Campus News	2
CELT	3
Upcoming Workshops	3
An Eye on Funding	4
ORSP Pre-Award Services Available	20
ORSP Contact Information	20

**ORSP**  
**Penfield Library—Room #4**  
**Office Hours**  
**8:00 am to 12:30 pm**  
**1:30 pm to 4:30 pm**

## Campus News— ‘Best’ Again

Princeton Review names Oswego 'Best' for sixth time

SUNY Oswego is one of the best colleges and universities in the Northeast, according to the Princeton Review. Oswego is one of 218 institutions it recommends in its book “The Best Northeastern Colleges: 2010 Edition,” published Aug. 4 by Random House/Princeton Review Books.

The Princeton Review surveyed SUNY Oswego students to update its profile of the college. The survey, administered every few years at each college, asks students to rate their school on several issues—from the accessibility of their professors to quality of the campus food—and answer questions about themselves, their fellow students, and campus life.

Oswego’s students had many words of praise for their professors and noted that they “have a lot of opportunities to work with professors on research and other projects outside of the classroom to help build real-world experience.”

Much of the information in “The Best Northeastern Colleges: 2010 Edition” is also online in the PrincetonReview.com feature “Best Regional Colleges.”

Robert Franek, Princeton Review’s vice president for publishing, outlined the criteria for selection for the best regional colleges, including institutional data collected from several hundred schools in each region, visits to schools over the years, the opinions of independent and high school-based college advisers, and students’ com-

ments about their campus experiences on the survey.

Nationwide, the colleges that Princeton Review named “regional bests” represent about 25 percent of the nation’s 2,500 four-year colleges.

“The Best Northeastern Colleges: 2010 Edition” is the sixth edition of the book. SUNY Oswego has appeared in every edition.

The Princeton Review is a New York-based company known for its test preparation, college admission and other education services. It is not affiliated with Princeton University, and it is not a magazine.

*Campus News—Posted August 20, 2009*



## Campus Grants & Awards Timeline

For information and application materials for campus grants, visit our web site <http://www.oswego.edu/administration/ORSP/index.html> and look under Campus Grants & Awards.

PROGRAM	DEADLINE
FACULTY—Scholarly & Creative Activity Grants	Fourth Monday in October
STUDENTS—Graduate & Undergraduate Scholarly & Creative Activity Grants	First Monday in November
FACULTY—President’s Award for Scholarly & Creativity and Research	January 31, annually
FACULTY—Provost’s Award for Scholarly & Creativity and Research	January 31, annually
FACULTY—Curriculum Innovation Grants	First Monday in March
FACULTY & STUDENTS—Student/Faculty Collaborative Challenge Grants	Second Monday in February



# Center for Excellence in Learning and Teaching (CELT)

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**Director: Dr. John Kane**

**Location:**

121 and 123 [Penfield Library](#)

SUNY Oswego

Oswego, NY 13126

315-312-2875

Email: [celt@oswego.edu](mailto:celt@oswego.edu)

Web: [http://www.oswego.edu/](http://www.oswego.edu/CELT/)

[CELT/](#)

**The Center for Excellence in Learning and Teaching (CELT)**

provides professional development workshops for faculty and staff, coordinates several faculty learning communities, and provides on-one assistance to faculty members.

**CELT Community Group**

The CELT community group in ANGEL will be used to disseminate information about workshops, and to share links to relevant online resources. There are now a few links to online support resources for ANGEL and Second Life, as well as links to general resources for college teaching. Keep checking back. The list of resources will grow substantially over the course of this semester.

To access this group: Go to <http://oswego.sln.suny.edu>.

Log in using your SUNY-Oswego e-mail prefix and password.

- Scroll down (if necessary) on the left-hand side of the screen until you see the CELT community group link. Click on this.
- Click on the "Content" tab or link to access the resources and discussions available in this group.



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## Upcoming Workshops

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**Open House**

**Place:** ORSP, Penfield Library

**Time:** Noon to 1:00 p.m.

**Dates:** Thursday, September 17, 2009 and Thursday, October 29, 2009



Come join us this semester for two open house forums to discuss your research and scholarly ideas, have questions answered, and talk about potential funding opportunities.

Please feel free to drop in and bring your ideas. We will help you focus your ideas and develop an externally fundable project. The grantsmanship process is not as challenging as it may seem when you put many hands and heads together.

Also this semester:

**White Papers and Elevator Talks**

**Place:** Room 123, Penfield Library

**Time:** Noon to 1:00 p.m.

**Date:** Thursday, October 8, 2009

**Budgets**

**Place:** Room 123, Penfield Library

**Time:** Noon to 1:00 p.m.

**Date:** Thursday, November 12, 2009





## An Eye on Funding—Current Funding Opportunities

### ARTS

#### **Sparkplug Foundation [78937]**

**Deadline:** 10/09/09

**Synopsis:** The sponsor supports projects in music.

**Objectives:** Music--The sponsor aims to support the development of music by helping to launch new voices and ideas. The sponsor funds emerging professional musicians or music-development programs. The funding is intended to help them gain a foothold that makes their work sustainable.

#### **National Endowment for the Arts, American Masterpieces: Chamber Music [93280]**

**Deadline:** 10/09/09

**Synopsis:** Grants are available for chamber music performances in conjunction with educational activities that will highlight specific repertoire by American composers and enable ensembles to engage with communities in a variety of settings. The sponsor is particularly interested in projects that have at least one performance and two educational activities.

**Objectives:** The sponsor plans to support a range of projects that reflect the breadth of chamber music. For the purposes of this initiative, chamber music generally is defined as one player to a part, performed without a conductor, with between two and ten players; duos must perform as an ensemble of equal partners. Chamber music encompasses music for traditional ensembles such as string quartets and trios, as well as compositions for mixed ensembles, traditional and indigenous instruments, and jazz. Projects may include recordings and broadcasts. Commissions and premiere performances are not eligible.

Projects must be accompanied by related educational, interpretive, or contextual components. These may include discussions, master classes, seminars, exhibitions, program material, or coop-

erative learning projects with educational or community institutions. Curriculum-based educational components for children and youth must ensure the application of national or state arts education standards.

#### **National Geographic Society, All Roads Seed Grants [95931]**

**Deadline(s):** 09/15/09, 12/15/09

**Synopsis:** The sponsor's program funds film projects from indigenous and underrepresented minority-culture filmmakers year-round and from all reaches of the globe.

**Objectives:** All Roads Seed Grant funds should be used toward the development and production of a feature film, long documentary, short documentary, shorts, animation or music video. These grants are intended to function as primary or secondary support for your film project. They may be used for equipment, travel for field research, editing time, etc.

#### **Kress (Samuel H.) Foundation, History of Art Grants Program [62892]**

**Deadline:** 10/15/09

**Synopsis:** Funding is provided to support scholarly publications, art museum exhibitions and catalogues, international conferences and symposia.

**Objectives:** The History of Art program supports scholarly projects that will enhance the appreciation and understanding of European art and architecture. Grants are awarded to projects that create and disseminate specialized knowledge, including archival projects, development and dissemination of scholarly databases, documentation projects, museum exhibitions and publications, photographic campaigns, scholarly catalogues and publications, and technical and scientific studies. Grants are also awarded for activities that permit art historians to share their expertise through international exchanges, professional meetings, conferences, symposia, consultations, the presentation of research, and other professional events.

### COMMUNITY

#### **Bikes Belong Coalition [90114]**

**Deadline:** 11/23/09

**Synopsis:** The sponsor provides funding to organizations that are committed to putting more people on bicycles more often.

**Objectives:** The goals of the sponsor are to put more people on bicycles more often by awarding grants to important and influential projects that leverage federal, state, and local money and build momentum for bicycling. These projects include paved bike paths and rail-trails as well as mountain bike trails, bike parks, BMX facilities, and large-scale bicycle advocacy initiatives. The Bikes Belong Grants Program funds projects in two categories: Facilities; and Advocacy. For the facility category, Bikes Belong will accept applications from non-profit organizations; and from public agencies and departments at the national, state, regional, and local levels. For the advocacy category, Bikes Belong will only fund organizations whose mission is expressly related to bicycle advocacy.

### EDUCATION

#### **Spencer Foundation, Research Grants [00468]**

**Deadline(s):** 10/02/09, 12/04/09

**Synopsis:** The sponsor provides funding for research projects that study education in the United States and abroad.

**Objectives:** The sponsor has been moving towards more focused grant making in four specific areas of interest: The Relation between Education and Social Opportunity; Organizational Learning in Schools, School Systems, and Higher Education Institutions; Teaching, Learning, and Instructional Resources; and Purposes and Values of Education.

#### **National Science Foundation, Research Experiences for Teachers--Supplements and Sites [65035]**

**Deadline:** 11/06/09

**Synopsis:** Funding is provided to in-

## An Eye on Funding (continued from page 4)

volve middle and high school teachers in engineering research in order to bring knowledge of engineering and technological innovation into their classrooms.

**Objectives:** The goal is to help build long-term collaborative partnerships between K-12 science, technology, engineering, and mathematics (STEM) teachers, community college faculty, and the NSF university research community by involving the teachers in engineering research and helping them translate their research experiences and new knowledge of engineering into classroom activities. Partnerships with inner city schools or other high need schools are especially encouraged, as is participation by underrepresented minorities, women, and persons with disabilities. This announcement features two mechanisms for support of in-service and pre-service K-12 teachers and/or community college faculty: RET supplements to ongoing ENG awards and new RET Site awards. RET supplements may be included in proposals for new or renewed NSF Directorate for Engineering (ENG) grants or as supplements to ongoing NSF ENG funded projects. RET Sites are based on independent proposals from engineering departments, schools or colleges to initiate and conduct research participation projects for a number of K-12 teachers and/or community college faculty.

### **National Endowment for the Arts Foundation for the Improvement of Education [81624]**

**Deadline:** 10/15/09

**Synopsis:** The sponsor provides grants to support public school teachers, public education support professionals, and/or faculty and staff in public institutions of higher education in either Learning & Leadership or Student Achievement.

**Objectives:** Grants are awarded in the following categories:

**Learning & Leadership:** Grants to individuals fund participation in high-quality professional development ex-

periences, such as summer institutes or action research. Grants to groups fund collegial study, including study groups, action research, lesson study, or mentoring experiences for faculty or staff new to an assignment. All professional development must improve practice, curriculum, and student achievement. **Student Achievement:** The sponsor provides grants to improve the academic achievement of students in U.S. public schools and public higher education institutions in any subject area(s). The proposed work should engage students in critical thinking and problem solving that deepen their knowledge of standards-based subject matter. The work should also improve students' habits of inquiry, self-directed learning, and critical reflection. Proposals for work resulting in low-income and minority student success with honors, advanced placement, or other challenging curricula are particularly encouraged. Grant funds may be used for resource materials, supplies, equipment, transportation, software, or scholars-in-residence. Although some funds may be used to support the professional development necessary to implement the project, the majority of grant funds must be spent on materials or educational experiences for students.

### **HEALTH & WELLNESS**

#### **National Institutes of Health, Identifying and Reducing Diabetes and Obesity Related Health Disparities within Healthcare Systems [93493]**

**Deadline(s):** 10/05/09, 01/07/10, 02/05/10, 05/07/10, 06/05/10

**Synopsis:** The sponsor provides support for research designed to identify healthcare system factors leading to disparate diabetes and obesity health outcomes. This program will use the NIH Research Project (R01) award mechanism.

**Objectives:** The goal of this FOA is to encourage research that identifies and or addresses healthcare system factors that contribute or reduce health disparities in individuals with diabetes and/or

obesity. Research is sought that examines at least one of the four key factors in healthcare and/or the interaction between the factors: Healthcare professional factors such as training, screening/assessment practice, referral, knowledge, bias or discriminatory attitudes, and decision making practices; Patient factors such as attitudes, behavioral, cultural, education level, health care seeking, utilization of services, and physiologic or lifestyle differences; Healthcare organizational factors such as processes of care, policies, communication, and opportunities for individualized or tailored prevention, and standardized screening and intervention approaches; and Community factors such as cultural norms and practices related to seeking, accepting, understanding and using healthcare resources. Further, given the nature and complexity of this area, multidisciplinary research is highly encouraged. All research in response to this FOA must focus on factors that influence disparate outcomes and data collection within healthcare systems and must include diabetes or obesity related health outcomes.

#### **Agency for Healthcare Research and Quality, Exploratory and Developmental Grant to Improve Health Care Quality through Health Information Technology [99425]**

**Deadline(s):** 10/16/09, 02/16/10, 06/16/10

**Synopsis:** The sponsor provides support for short-term preparatory, pilot or feasibility studies that will reform larger scale real world health IT implementation and use or the conduct of more comprehensive health IT implementation research. This program will use the NIH Exploratory/Developmental (R21) grant mechanism.

**Objectives:** AHRQ is most interested in applications which, if funded, can lead to future demonstrations of the effects of health IT interventions on quality and safety outcomes of national priority. Given the challenges of

## An Eye on Funding (Continued from page 5)

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achieving successful implementation and use of health IT at various organizational levels, integration of organizational, human factors, systems engineering, and/or behavioral theories in addition to traditional health care and analytical theories and frameworks are encouraged.

This FOA is focused on three research areas of interest: Health IT to improve the quality and safety of medication management via the integration and utilization of medication management systems and technologies; Health IT to support patient-centered care, the coordination of care across transitions in care settings, and the use of electronic exchange of health information to improve quality of care; and, Health IT to improve health care decision making through the use of integrated data and knowledge management. Each application must clearly identify one of these research areas as the primary research area to be addressed.

### **Agency for Healthcare Research and Quality, Small Research Grant to Improve Health Care Quality through Health Information Technology [99421]**

**Deadline(s):** 10/16/09, 02/16/10, 06/16/10

**Synopsis:** The sponsor provides support for a wide variety of research designs in order to improve the quality, safety, effectiveness, and efficiency of health care through the implementation and use of health IT. These designs include: small pilot and feasibility or self-contained health IT research projects; secondary data analysis of health IT research; and economic (prospective or retrospective) analyses of health IT implementation and use. Through economic analyses estimates of health IT implementation and use costs and benefits will be generated. This program will use the NIH Small Research Grant (R03) award mechanism.

**Objectives:** The sponsor seeks to support health IT-oriented small research grants that will contribute to health care

providers' ability to offer high quality health care and/or to support the use of health IT applications that enable patients and/or family members to be better informed and engaged in managing their health and health care. This FOA supports the exploration of a wide variety of research designs in order to generate information regarding the design, development, testing, cost or impact of health IT. These research projects may generate information necessary for future health IT implementation projects or evaluations. They may involve new, on-going, or completed (in the case of retrospective data analysis) health IT implementation activities. These applications must demonstrate how findings of the R03 research project will inform future development of health IT applications, strategies for health IT implementation in real world settings and/or the conduct of future health IT implementation and/or research activities. Depending on the research design and intent of the project, applicants may receive support for: (1) small pilot and feasibility or self-contained health IT research projects; (2) secondary data analysis of health IT research; or (3) economic (prospective or retrospective) analyses of health IT implementation and use. This FOA is focused on three research areas of interest: Health IT to improve the quality and safety of medication management via the integration and utilization of medication management systems and technologies; Health IT to support patient-centered care, the coordination of care across transitions in care settings, and the use of electronic exchange of health information to improve quality of care; and, Health IT to improve health care decision making through the use of integrated data and knowledge management. Each application must clearly identify one of these research areas as the primary research area to be addressed.

### **National Institutes of Health, Using Systems Science Methodologies to**

### **Protect and Improve Population Health [98139]**

**Deadline(s):** 10/16/09, 01/07/10, 02/16/10, 05/07/10, 06/16/10

**Synopsis:** The sponsors provide support for applications from institutions/organizations that propose to apply one or more specific system science methodologies to public health and health care systems problems and contribute knowledge that will enhance effective decision making around the development of and prioritization of policies, interventions, and programs to improve population health, especially where resources are limited and only a limited number of programs/policies/interventions can be implemented.

Applicants are encouraged to submit projects that tackle "policy resistant" health problems (i.e., ones in which the effects of planned interventions, programs or policies tend to be delayed, diluted or defeated by responses of the system to the intervention itself) using a systems science methodology. This program will use the NIH Exploratory/Developmental (R21) grant mechanism.

**Objectives:** This FOA solicits Exploratory/Developmental (R21) applications from institutions/organizations that propose to apply one or more specific system science methodologies to "policy resistant" public health problems and contribute knowledge that will enhance effective decision making around the development of and prioritization of policies, interventions, and programs to improve population health in the U.S. and abroad, especially where resources are limited and only a limited number of programs/policies/interventions can be implemented. Systems science methodologies are specific methodologies that have been developed to understand connections between a system's structure and its behavior over time; these methods are often capable of illuminating a range of "policy resistant problems" where interventions, programs, or policies typically have unexpected, unintended,

## An Eye on Funding (Continued from page 6)

or counter-intuitive consequences. A system, in this context, refers to the particular configuration of all relevant entities, resources, and processes that together adequately characterize the problem space under study (i.e., a system is defined the boundaries that stakeholders use to determine which facts/observations are relevant for their inquiry as well as the interpretations/judgments that they use to guide decisions or actions) (Ulrich, 2002).

Applications funded under this FOA are encouraged to extend the understanding of public health problems and contribute knowledge that will enhance effective decision making around the prioritization of policies, interventions, and programs, especially where resources are limited and only a limited number of programs/policies/interventions can be implemented. The objectives of this research program are to provide funding for applicants to use system science methodologies to address one or more specific opportunities to protect and improve population health. Applicants are encouraged to plan projects that tackle “policy resistant” health problems (i.e., ones in which the effects of planned interventions tend to be delayed, diluted or defeated by responses of the system to the intervention itself) using a systems science methodology.

### HUMANITIES

#### **Kress (Samuel H.) Foundation, History of Art Grants Program [62892]**

**Deadline:** 10/15/09

**Synopsis:** Funding is provided to support scholarly publications, art museum exhibitions and catalogues, international conferences and symposia.

**Objectives:** The History of Art program supports scholarly projects that will enhance the appreciation and understanding of European art and architecture. Grants are awarded to projects that create and disseminate specialized knowledge, including archival projects, development and dissemination of scholarly databases, documentation

projects, museum exhibitions and publications, photographic campaigns, scholarly catalogues and publications, and technical and scientific studies. Grants are also awarded for activities that permit art historians to share their expertise through international exchanges, professional meetings, conferences, symposia, consultations, the presentation of research, and other professional events.

#### **British Institute in East Africa, Minor Research Grants [79086]**

**Deadline:** 10/31/09

**Objectives:** The sponsor provides awards to assist scholars undertaking original research in Eastern Africa broadly defined, in any field of the humanities and social sciences with some emphasis on archaeology, African history, anthropology and related subjects.

#### **National Historical Publication and Records Commission, Professional Development Grants for Archives and Historical Publishing [93197]**

**Deadline:** 10/05/09

**Synopsis:** The sponsor seeks proposals designed to improve the training and education of professionals in the archival and historical publishing communities.

**Objectives:** Projects can be for professional education curriculum development; for basic and advanced institutes; or research seminars. Surveys, focus groups, and other activities to understand these professions and their educational and training needs are also eligible.

#### **National Historical Publication and Records Commission, Strategies and Tools for Archives and Historical Publishing Projects [93232]**

**Deadline:** 10/06/09

**Synopsis:** The sponsor seeks proposals to develop new strategies and tools that can improve the preservation, public discovery, or use of historical records.

**Objectives:** Project may also focus on techniques and tools that will improve the professional performance and effec-

tiveness of those who work with such records, such as archivists, documentary editors, and records managers. Applications must: Present evidence for the need for improvement in current methods; Demonstrate that the project staff has the skills, educational background, and experience appropriate to the project; Describe which reliable research-and-development methodologies and techniques will be used to produce practical outcomes; Describe how the applicant will test the outcomes with practitioners; Describe how the outcomes will be evaluated; Indicate that the applicant will document the costs and benefits of employing the new strategies or tools; and Describe how the project will publicize the results and make them available to the appropriate professions at minimal or no cost.

### INTERDISCIPLINARY

#### **NYS Energy Research and Development Authority, Technical Assistance [49890]**

**Deadline:** 11/30/09

**Synopsis:** The sponsor provides support for energy efficiency technical evaluations, Peak-Load reduction studies, energy procurement analysis, proposals that study the feasibility of implementing combined heat & power (CHP) and renewable generation, and Peak-Load Curtailment Plans. This solicitation is divided into three separate components: Energy Efficiency Technical Assistance; CHP and Renewable Generation Technical Assistance; and, Peak-Load Curtailment Plan Technical Assistance.

**Objectives:** The overall program goal is to increase productivity and economic competitiveness of participating facilities through implementation of cost-effective, energy efficiency measures, peak-load curtailment and CHP & renewable generation projects.

**ENERGY EFFICIENCY PROJECT--** Applicants may propose projects in one or more of the following energy efficiency project classifications: peak load

## Eye on Funding (Continued from page 7)

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reduction and management studies; energy feasibility studies; energy procurement studies; energy efficiency retro-commissioning (RCx) studies; long term energy management studies; industrial process energy analysis; and sustainable energy planning/project development services studies.

**CHP & RENEWABLE GENERATION PROJECT--**Applicants may propose to undertake one of the following electrical generation project classifications: combines heat and power studies; and renewable generation studies.

**PEAK-LOAD CURTAILMENT PLAN TECHNICAL ASSISTANCE PROJECT--**Service Providers may submit an application for funds for the development of a Peak-Load Curtailment Plan. The purpose of this program component is to encourage service providers to develop comprehensive protocols which allow their Customers, in the Con Edison service territory, to respond to load curtailment calls from the NY ISO during periods of New York electrical system capacity constraints.

### **US Institute of Peace, Annual Grant Competition [05305]**

**Deadline:** 10/01/09

**Synopsis:** Support is provided for research, education and training, and information dissemination in the areas of international peace and conflict resolution. Duration is usually one to two years. Awards range from \$50,000 to \$120,000 each.

**Objectives:** Topics of interest include, but are not limited to: Conflict analysis and prevention; Mediation and conflict resolution; Postconflict peace and stability operations; Religion and peace-making; Rule of law and transitional justice; International organizations and collective security; Economies and conflict; Social, psychological, and physical impacts of war and conflict; Media and conflict. The Institute sets no disciplinary

### **Jackson (Henry M.) Foundation [59173]**

**Deadline:** 12/01/09

**Synopsis:** The sponsor provides grants which are intended as support and seed funding for new initiatives that offer promising models for replication and address critical issues in international affairs; human rights; public service; and environment and natural resources management.

**Objectives:** The sponsor focuses its grantmaking in the following four areas: international affairs education; public service; environment and natural resource management; and human rights.

### **Club Foundation, Faculty Research Grant [69957]**

**Deadline:** 11/03/09

**Synopsis:** The sponsor provides research grants to university faculty members for industry-intensive research on any topic that fulfills the sponsor's mission.

**Objectives:** The sponsor's mission is "to financially support the professional development of club managers through education, training and research initiatives".

### **American Honda Foundation, Initiation Grant [70212]**

**Deadline:** 11/02/09

**Synopsis:** The sponsor provides one-time funding to help make conceptual ideas a reality. The award program provides researchers with considerable freedom in their respective areas of study, as well as opportunities to interact with Honda researchers, and the potential for further collaboration.

**Objectives:** The program will support exploratory research in areas of science and technology outlined below. The research should have potential applications within 5 to 10 years. The following topics are welcome for 2010 funding:

In the automotive, motorcycle & power sport-related area: Active-electronic engine/transmission mounting, as well as suspension, steering and brake-related control systems; Active chassis components to improve balance of low-

frequency dynamics and high-frequency NV issues; High Accuracy GPS solutions in urban or heavy foliage environments; Novel technology to achieve downsized motor-drive component that produces lower losses and has efficient cooling system; Isolation systems to reduce <100 Hz Powertrain input forces to vehicle body; Light weight, cost effective methods for vehicle braking; Technology to help reduce young driver collision events; Technology related to adaptive restraints based on occupant characteristics and crash event severity; New chassis concept that breaks the compromise between ride and handling; Road vehicle energy harvesting or recovery concepts; In-car services such as remote guidance and diagnostics support; New GPS and communication-based safety concepts; Novel ITS concepts that will substantially improve the driving experience Unique body, interior and chassis structure concepts (lighter, stronger, cost efficient); Advanced automotive aerodynamic improvements; Advanced CAE simulation and modeling techniques focused on enhancing state-of-the-art complete vehicle performance prediction for Vehicle Dynamics, Durability, Crashworthiness, Noise, and Vibration phenomena; Component/system construction for the achievement of advanced interior and exterior styling concepts.

In the green technology and advanced materials area: Environmentally-friendly (bio-degradable and recyclable) materials for vehicle applications; Advanced materials and processes for significant weight savings (through material replacement, part integration, etc.); New materials/processing methods targeted at cost reduction or improved manufacturing efficiency; Advanced material and processing for improved performance, safety, and smart functions; Highly aesthetic materials for advanced interior and exterior design and feeling; Novel concept of energy conversion & storage in the area of: solar energy utilization with high cost efficiency; electrochemical cells

## An Eye on Funding (Continued from page 8)

and components for power generation; electric power storage that replaces existing secondary battery and achieves superior power/energy density, lifetime & safety; efficient energy management in total system; Novel catalyst concept for sustainable energy applications; New theoretical and experimental approach of energy-related applications using quantum confinement effect; Characterization method of catalytic surface chemistry on nano-scale materials.

In the computer science/humanoid robotics area: Visual cognition and machine vision for scene understanding; Human-like and commonsense reasoning; Developmental learning and knowledge acquisition; Speech and hearing; Language-based communication for advanced man-machine interactions; Dynamics and control of humanoid robots; Computational Photography; Human Robot Interaction.

### **Environmental Research and Education Foundation, Unsolicited Proposals Grants Program [92766]**

**Deadline:** 10/01/09

**Synopsis:** The sponsor provides support for research projects or educational initiatives that fit within the EREF's mission statement but may not fit within the foundation's Strategic Research Plan or annual research agenda.

**Objectives:** The mission of the EREF is to promote environmental solutions for the future through research and education explicitly as it relates to developing and evaluating new approaches to manage solid waste. Long-term research initiatives are separated into nine areas of specialization: landfills; transport/collection; policy/economics; recycling/waste minimization; combustion/waste-to-energy; equipment/safety; conversion technologies; life cycle inventory/analysis; and education. Any proposals for educational initiatives must be used to develop tools (e.g. software, websites, curricula, webinars, seminars, etc.) that specifically promote awareness or increase knowledge of the solid waste industry.

### **National Institute for Mental Health, Research on Interventions for Child Abuse and Neglect [94214]**

**Deadline(s):** 10/05/09, 01/07/10, 02/05/10, 05/07/10, 06/05/10, 09/07/10

**Synopsis:** The sponsors provide support for research project grant (R01) applications focused on conducting efficacy and effectiveness trials of child abuse and neglect interventions. Specifically, this FOA solicits grant applications that include various levels of interventions. Of particular interest is the development of large scale trials designed to target either or both the victims or perpetrators of child abuse and neglect, including preventive interventions. Child abuse and neglect is a complex public health issue likely caused by a myriad of factors, including individual-, family-, and community-level elements. Thus, a research program focused on understanding and addressing these problems must necessarily draw upon interdisciplinary theories and approaches. One of the goals of this FOA is to bring together multidisciplinary and translational perspectives encompassing basic biomedical, behavioral and social science research in mental health, physical health, public health and prevention, alcohol and substance abuse, neurology, injury, trauma and child development, to advance our knowledge of child abuse and neglect. This program will use the NIH Research Project (R01) award mechanism.

**Objectives:** This Funding Opportunity Announcement (FOA) solicits research project (R01) grant applications to conduct efficacy or effectiveness trials of child abuse and neglect interventions. This announcement also supports research on understanding effective strategies to prevent child abuse and neglect (CAN), and on the amelioration of the biological and behavioral effects of CAN on its victims. Only projects proposing rigorous scientific research designs will be considered. For purposes of this announcement, an intervention is broadly defined as any action that assists in changing the biological and behavioral negative health effects

of child abuse and neglect. Interventions may target individuals or group of individuals (e.g., dyad, family, community, or service systems). In order to reduce the overall level of abuse and neglect, it is advisable to interrupt, at an early stage, the biological and behavioral trajectories that can lead to serious neglect and abuse, and to direct efforts at biological and behavioral risk and protective factors. There is a need for effective programs for screening children and families, and training doctors, teachers, and other community members to recognize signs and symptoms of abuse and neglect. Also needed are interventions that disrupt the stability of abusive and/or neglectful behavior and possible biological, psychological, and developmental effects through culturally appropriate strategies at times of critical risk.

Potential interventions include targeting: the victims and/or perpetrators of child abuse and neglect (CAN); the dynamics of the relationship between perpetrator and victim; the relationship of drugs and alcohol to CAN; the family system in which CAN occurs; and the larger social contexts of CAN, such as individual or family support systems, neighborhood and community programs and resources (e.g., health care systems); and mandated community response agencies (e.g., police, protective service agencies, treatment providers). Innovations in neuroscience, animal models, social and cultural factors, government, business, economic practices, and technology are all potentially valid targets for intervention. The translation of basic biomedical science to dissemination of effective interventions through clinical research is a high priority area articulated in activities such as the NIH Roadmap and is strongly encouraged for this FOA.

### **National Institutes of Health, Collaborative HIV/AIDS Studies in the Middle East and North Africa [97069]**

**Deadline(s):** 10/16/09, 01/07/10,

## An Eye on Funding (Continued from page 9)

02/16/10, 05/07/10, 06/16/10, 09/07/10

**Synopsis:** The sponsors provide support for collaborations for exploratory and developmental work on HIV/AIDS in the low and middle income countries of the Middle East and North Africa (MENA), as defined by the World Bank: Algeria, Djibouti, Egypt, Iran, Iraq, Jordan, Lebanon, Libya, Morocco, Oman, Syria, Tunisia, West Bank and Gaza, and Yemen. Specific areas of research include, but aren't limited to, epidemiologic studies, prevention research from both biomedical and social/behavioral perspectives, studies of social factors affecting the spread of HIV in the region, and research on women and youth. Collaborations must involve U.S. investigators from a partnering U.S. organization and one or more research teams in the MENA region. The collaborative effort supported through the R21 should help foster the development of HIV-relevant research infrastructure and expertise in the region and have the potential to lead to further research and improvements in public health. This program will use the NIH Exploratory/Developmental (R21) grant mechanism.

**Objectives:** The aim of this FOA is to invite applications for collaborations for exploratory and developmental work on HIV/AIDS in the low and middle income countries of the Middle East and North Africa (MENA), as defined by the World Bank: Algeria, Djibouti, Egypt, Iran, Iraq, Jordan, Lebanon, Libya, Morocco, Oman, Syria, Tunisia, West Bank and Gaza, and Yemen. Specific areas of research include, but aren't limited to, epidemiologic studies, prevention research from both biomedical and social/behavioral perspectives, studies of social factors affecting the spread of HIV in the region, and research on women and youth.

### SCIENCES

#### **National Science Foundation, Biomaterials [00740]**

**Deadline:** 10/31/09

**Synopsis:** The Biomaterials Program supports fundamental research at the intersection of the physical, chemical, and biological sciences. Proposals focused on the preparation, characterization, structure-property relationships, and applications of biomaterials are encouraged.

**Objectives:** Emphasis is on novel design of biomaterials, including bio-derived, bioinspired, biomimetic and biocompatible materials, discovery of new phenomena, and the combination of experiment with theory and/or simulation. General areas of interest include, but are not restricted to, self- and directed molecular assemblies, surfaces and interfaces, membranes and vesicles, gels and networks, carriers and drug delivery systems, smart and self-healing systems, tissue culture scaffolds, mineralization, hybrids and composites, multi-functional biomaterials such as photonic and electronic biomaterials, biomaterials for energy harvesting, conversion and storage, and biomaterials for sensors and actuators.

#### **National Science Foundation, CreativeIT Program [93009]**

**Deadline:** 10/13/09

**Synopsis:** The CreativeIT Program solicits proposals for projects that explore synergistic cross disciplinary research in creativity and computer science and information technology.

**Objectives:** The following research areas elaborate on these potential types of advances as guidelines for describing how the objectives of the project contribute to CreativeIT:

Understanding Creative Cognition and Computation. Research in this area develops or applies cognitive models that serve as inspiration for computational models of creativity, support for human creativity, or approaches for educating people to be more creative. This research is typically done by adopting or adapting a model of cognition and evaluating its creative performance in different contexts, or developing a new model of creativity based on empirical or ethnographic

studies. The emphasis in this area is the development of new models of cognition and computation that explain or simulate creativity and how these models open up new research areas in computing and cognitive science.

Creativity to Stimulate Breakthroughs in Science and Engineering. This area considers the role and performance of creative professionals in developing new technologies, discovering new patterns in information, and in finding new ways of seeing, knowing, and doing computing, science and engineering. This area seeks to foster research that is conducted with groups of people from different backgrounds in which the creative synergy is focused on a specific context, problem, or perceived need. The result of this research is a new product, new model, or new area of research. The evaluation of the results of this kind of research does not follow directly from existing metrics or performance criteria and therefore may need to redefine relevant performance criteria.

Educational Approaches that Encourage Creativity. This area considers a broad range of approaches to learning that encourages creativity: multi-disciplinary teaching and learning, design studio environments, skills development through making and doing, serious games, and open-ended problem-based learning. This area includes the development and evaluation of innovative computational environments for learning that reward creativity leading to transformative changes in curriculum objectives and structure.

Supporting Creativity with Information Technology. This area develops new software and interaction design to support people in being more creative and evaluates their performance through user studies either in controlled environments with empirical studies or in the context of a complex problem or situation with ethnographic studies. The emphasis in this area is the development of new computing environments where the environment itself may be a creative product, and the en-

## An Eye on Funding (Continued from page 10)

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vironment is intended to support people in their creative activities.

There are two types of projects: Pilot and Major.

Pilot Projects typically have a single PI and a single undergraduate or graduate student for a duration of one to three years. A pilot project identifies a synergy from understanding creativity in a specific context in which a computing environment has the potential to lead to innovative and creative advances in one or more disciplines. These projects will start with a set of objectives that are consistent with the CreativeIT program and will pursue a methodology, including a plan for evaluation, that is consistent with the claims or objectives in the proposal. The outcomes of a Pilot Project may be an innovative solution, model, or area of research that will benefit from further development.

Major Projects have one or more PIs and multiple undergraduate and graduate students. A Major project brings together a group of people to develop a synergistic effect that can transform our understanding of models, computing environments or education relevant to CreativeIT. While the research may use a design approach in which the specifics of the problem and solution may change during the life of the project, the overall objectives and methods are well defined. This type of project is well founded on previous research in the individual or combined disciplines involved in the project.

### **National Science Foundation, Nano and Bio Mechanics [93834]**

**Deadline(s):** 10/02/09, 02/15/10

**Synopsis:** The NBM program supports fundamental research in biomechanics and nanomechanics.

**Objectives:** Research on biomechanics focuses on the mechanical properties and behavior of biological materials and structures, including cells, tissue, muscles, bones, and prosthetic implants. Research on nanomechanics focuses on the unique properties of nano-scale particles and microstructural features and their effects on the macro-

scopic mechanics and properties of materials, surfaces, and structures that contain them.

### **National Science Foundation, Operations Research Program [93835]**

**Deadline(s):** 10/01/09, 02/15/10

**Synopsis:** The OR program supports research leading to advances in the science of models and algorithms that are applicable to the operation and optimization of large-scale systems.

**Objectives:** Topic areas include advances in the theory of optimization and heuristic approaches to NP-hard optimization problems, simulation and stochastic modeling, and on the development of novel, enterprise-wide models requiring advanced high-end computing.

### **National Science Foundation, Electronic and Photonic Materials [93918]**

**Deadline:** 10/31/09

**Synopsis:** The goal of this program is to advance the field of electronics and photonics through basic, potentially transformative materials science research.

**Objectives:** The scope of the program encompasses the discovery and understanding of materials and material combinations with potential for major technological advantages. Program focus is on identification and understanding of fundamental atomic and molecular level mechanisms and phenomena associated with synthesis and processing of electronic and photonic materials.

High risk, high payoff research is encouraged. For example, novel materials are sought that may offer new paradigms in critical computing and communications components, or enable low cost, highly efficient, and stable photovoltaics, solid state lighting, and displays. Research topics include, but are not limited to, nucleation and growth of thin films and nanostructures; self-assembly; nanostructure definition and etching processes; interface bonding and structure; crystal and interface defects; doping; bulk crystal growth; and interrelationships between synthesis/

processing, structure, and properties.

### **National Science Foundation, Condensed Matter Physics [93919]**

**Deadline:** 10/30/09

**Synopsis:** The Condensed Matter Physics program supports experimental, as well as combined experiment and theory projects investigating the fundamental physics behind phenomena exhibited by condensed matter systems.

**Objectives:** Representative research areas in such systems include:

Phenomena at the nano- to macro-scale including: transport, magnetic, and optical phenomena; classical and quantum phase transitions; localization; electronic, magnetic, and lattice structure or excitations; superconductivity; and nonlinear dynamics.

Low-temperature physics: quantum fluids and solids; 1D & 2D electron systems.

Soft condensed matter: partially ordered fluids, granular and colloid physics.

Understanding the fundamental physics of new states of matter as well as the physical behavior of condensed matter under extreme conditions e.g., low temperatures, high pressures, and high magnetic fields.

Questions of current interest that span these research areas are: How and why do complex macroscopic phenomena emerge from simple interacting microscopic constituents? What new physics occurs far from equilibrium and why? What is the physics behind the behavior of matter confined to the nanoscale in one or more dimensions? What is the physics of spin systems and quantum states of matter that could lead to their coherent manipulation and control?

### **National Science Foundation, Analysis [93922]**

**Deadline:** 10/06/09

**Synopsis:** The sponsor provides funding to support basic research in that area of mathematics whose roots can be traced to the calculus of Newton and Leibniz. Given its centuries-old ties to

## An Eye on Funding (Continued from page 11)

physics, analysis has influenced developments from Newton's mechanics to quantum mechanics and from Fourier's study of heat conduction to Maxwell's equations of electromagnetism to Witten's theory of supersymmetry. More generally, research supported by Analysis provides the theoretical underpinning for the majority of applications of the mathematical sciences to other scientific disciplines.

**Objectives:** Funding is provided to support basic research in that area of mathematics whose roots can be traced to the calculus of Newton and Leibniz. Given its centuries-old ties to physics, analysis has influenced developments from Newton's mechanics to quantum mechanics and from Fourier's study of heat conduction to Maxwell's equations of electromagnetism to Witten's theory of supersymmetry. More generally, research supported by Analysis provides the theoretical underpinning for the majority of applications of the mathematical sciences to other scientific disciplines. Current areas of significant activity include: nonlinear partial differential equations; dynamical systems and ergodic theory; real, complex and harmonic analysis; operator theory and algebras of operators on Hilbert space; mathematical physics; and representation theory of Lie groups/algebras. Emerging areas include random matrix theory and its ties to classical analysis, number theory, quantum mechanics, and coding theory; and development of noncommutative geometry with its applications to modeling physical phenomena. It should be stressed, however, that the underlying role of the Analysis Program is to provide support for research in mathematics at the most fundamental level. Although this is often done with the expectation that the research will generate a payoff in applications at some point down the road, the principal mission of the Program is to tend and replenish an important reservoir of mathematical knowledge, maintaining it as a dependable resource to be drawn upon by engineers, life and physical scientists, and

other mathematical scientists, as need arises.

### **National Science Foundation, Probability [93924]**

**Deadline:** 11/07/09

**Synopsis:** The sponsor provides funding to support research on the theory and applications of probability.

**Objectives:** Funding is provided to support research on the theory and applications of probability. Subfields include discrete probability, stochastic processes, limit theory, interacting particle systems, stochastic differential and partial differential equations, and Markov processes. Research in probability which involves applications to other areas of science and engineering is especially encouraged.

### **National Science Foundation, Topology [93925]**

**Deadline:** 11/03/09

**Synopsis:** The sponsor provides funding to support research on algebraic topology, including homotopy theory, ordinary and extraordinary homology and cohomology, cobordism theory, and K-theory; topological manifolds and cell complexes, fiberings, knots, and links; differential topology and actions of groups of transformations; geometric group theory; and general topology and continua theory.

**Objectives:** Funding is provided to support research on algebraic topology, including homotopy theory, ordinary and extraordinary homology and cohomology, cobordism theory, and K-theory; topological manifolds and cell complexes, fiberings, knots, and links; differential topology and actions of groups of transformations; geometric group theory; and general topology and continua theory.

### **National Science Foundation, Computational Mathematics [93927]**

**Deadline:** 12/15/09

**Synopsis:** The sponsor supports mathematical research in areas of science where computing plays a central and essential role, emphasizing algorithms

design, numerical methods and their analysis, and symbolic methods. The prominence of computation in the research is a hallmark of the program. **Objectives:** Proposals ranging from single-investigator projects that develop and analyze innovative computational methods to interdisciplinary team projects that not only create new mathematical and computational techniques but use them to model, study, and solve important application problems are encouraged.

### **National Science Foundation, Foundations [94036]**

**Deadline:** 10/06/09

**Synopsis:** The sponsor provides funding to support research in mathematical logic and the foundations of mathematics, including proof theory, recursion theory, model theory, set theory, and infinitary combinatorics.

**Objectives:** Funding is provided to support research in mathematical logic and the foundations of mathematics, including proof theory, recursion theory, model theory, set theory, and infinitary combinatorics.

### **National Science Foundation, Cyber-Enabled Discovery and Innovation [94647]**

**Deadline:** 12/08/09

**Synopsis:** The Cyber-Enabled Discovery and Innovation (CDI) initiative has been designed to yield revolutionary science and engineering research outcomes made possible by innovations and advances in computational thinking.

**Objectives:** CDI seeks ambitious, transformative, multidisciplinary research proposals within or across the following three thematic areas: From Data to Knowledge - enhancing human cognition and generating new knowledge from a wealth of heterogeneous digital data; Understanding Complexity in Natural, Built, and Social Systems - deriving fundamental insights on systems comprising multiple interacting elements; and Building Virtual Organizations - enhancing discovery and inno-

## An Eye on Funding (Continued from page 12)

vation by bringing people and resources together across institutional, geographical and cultural boundaries. Two types of CDI awards will be supported as a result of the FY 2009 CDI competition: Type I awards will require efforts up to a level roughly comparable to: summer support for two investigators with complementary expertise; two graduate students; and their collective research needs (e.g. materials, supplies, travel) for three years; and Type II awards will require larger (than Type I) efforts up to a level roughly comparable to: summer support for three investigators with complementary expertise; three graduate students; one or two senior personnel (including post-doctoral researchers and staff); and their collective research needs (e.g. materials, supplies, travel) for four years. The integrative contributions of the Type II team should clearly be greater than the sum of the contributions of each individual member of the team.

### **National Science Foundation, Manufacturing Enterprise Systems [94762]**

**Deadline(s):** 10/01/09, 02/15/10

**Synopsis:** The MES program supports research on design, planning, and control of operations in manufacturing enterprises.

**Objectives:** Research is supported that impacts the analytical and computational techniques relevant to extended enterprise operations and that offer the prospect of implementable solutions. Topics of interest include analytical and computational tools for planning, monitoring, control, and scheduling of manufacturing and distribution operations, and development of methods for optimization of manufacturing enterprises in the presence of a high degree of uncertainty and risk.

### **National Science Foundation, Engineering Design and Innovation [95032]**

**Deadline(s):** 10/01/09, 02/15/10

**Synopsis:** The EDI program supports research leading to design theory and to

tools and methods that enable implementation of the principles of design theory in the practice of design across the full spectrum of engineered products.

**Objectives:** The program focus is on gaining an understanding of the basic processes and phenomena underlying a holistic, life-cycle view of design. The program funds advances in basic design theory, tools and software to implement design theory, and new design methods that span multiple domains, such as design for the environment and for manufacturability.

### **National Science Foundation, Control Systems Program [95034]**

**Deadline(s):** 10/01/09, 02/15/10

**Synopsis:** The CS program supports innovative research on control theory and control technology driven by real life applications.

**Objectives:** The program accepts proposals on transformative research in established topic areas such as model-based control. However, the program emphasis is on paradigm-shifting ideas for control strategies that may be inspired by nature, unconventional applications, and the combined role of feedback and uncertainty in systems that incorporate large numbers of sensors and actuators. New sensor and actuator concepts that integrate feedback and signal processing to achieve a sensing or actuation objective are also funded.

### **National Science Foundation, Geotechnical Engineering [95038]**

**Deadline(s):** 10/01/09, 02/15/10

**Synopsis:** The GTE program supports fundamental research on geotechnical aspects of the civil infrastructure, such as foundation engineering, site characterization, underground construction, tunneling, drilling, and mining engineering.

**Objectives:** Also included is research on geoenvironmental engineering, geotechnical earthquake engineering that does not involve the use of George E. Brown, Jr. Network for Earthquake Engineering Simulation (NEES) facili-

ties, and geohazards such as tsunamis, landslides, mudslides and debris flows, scour, and erosion. Emphasis is on issues of sustainability and resilience.

### **National Science Foundation, Mechanics of Materials [95039]**

**Deadline(s):** 10/01/09, 02/15/10

**Synopsis:** The MOM program supports fundamental research on solid mechanics including theoretical, analytical, and computational approaches, model-based simulation, and the development of constitutive models.

**Objectives:** It also supports research to link the nanostructure and microstructure mechanical behavior of materials across time and length scales, including experimental and analytical research on deformation, fatigue, and fracture, and the underlying molecular and microstructural states.

### **National Evolutionary Synthesis Center, Working Groups [96963]**

**Deadline:** 12/01/09

**Synopsis:** The sponsor provides support for Working Groups involving small groups of scientists (ten to twelve participants) collaborating intensively on the analysis or synthesis of data, models or both, to address a major question in evolutionary biology. The working groups will typically meet three to four times over two years, with each meeting lasting three to seven days; however the number of participants, number of meetings, and duration of each meeting is flexible, depending on the needs and goals of the group.

**Objectives:** Meetings should focus on synthetic scientific or educational research in evolutionary biology. Products from working groups might include (but are not restricted to): synthetic papers and reviews; databases allowing others to build on your foundation; and software or mathematical tools that solve a major analytical problem.

## An Eye on Funding (Continued from page 13)

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### **National Science Foundation, Manufacturing and Construction Machines and Equipment [97486]**

**Deadline(s):** 10/01/09, 02/15/10

**Synopsis:** The MCME program supports fundamental research leading to improved machines and applications for both manufacturing and construction.

**Objectives:** Key goals are to advance the transition of these industries from skill-based to knowledge-based activities and to develop them as activities with minimal environmental and societal impact. To accomplish these goals the program emphasizes research leading to a fundamental understanding of the relevant physical processes resulting in better predictive models and improved manufacturing and construction decision making. The program also supports research on solid freeform fabrication encompassing scales from microns to meters (nanometer scale additive manufacturing is supported under the Nanomanufacturing program).

### **National Science Foundation, Computer and Network Systems (CNS): Core Programs [97687]**

**Deadline(s):** 11/28/09, 12/17/09

**Synopsis:** The sponsor's Division of Computer and Network Systems (CNS) supports research and education projects that develop new knowledge in two core programs: The Computer Systems Research (CSR) program; and The Networking Technology and Systems (NeTS) program.

**Objectives:** The sponsor supports two core programs as described below: Computer Systems Research (CSR) - The sponsor seeks advances that are specific to an application domain or a particular hardware platform as well as generic across domains and/or platforms. Also sought are proposals focused on advancing the state-of-the-art in systems and software research for compute-intensive applications and hardware.

Networking Technology and Systems (NeTS) - The Networking Technology

and Systems (NeTS) program supports the exploration of innovative and possibly radical network architectures, algorithms, protocols, and technologies that are responsive to the evolving requirements of current and yet to be discovered network services and applications operating in various environments. The NeTS program will enable scientific and technological advances leading to the development of future generation, high performance networks. The scope of the program ranges from personal area and home networks, to wireless and sensor networks, to enterprise, core and optical networks, and peer-to-peer and application-level networks.

### **National Science Foundation, Physics at the Information Frontier [90842]**

**Deadline:** 10/28/09

**Synopsis:** This program (PIF) is intended to provide support for physics proposals in three subareas: computational physics; information intensive physics; and quantum information science and revolutionary computing.

**Objectives:** The computational physics subarea focuses on computational problems in physics requiring significant long-term code development, and/or medium to large laboratories involving physicists or physicists interacting with applied mathematicians and computer scientists. Priority will be given to proposals which: advance computational capabilities crossing intellectual boundaries in physics; result in dramatic new computational advances within a specific sub-area of physics; or provide generally useful software tools for the physics community.

Information intensive physics seeks proposals to develop rapid, secure and efficient access to physics data stores rising from Petabytes (today) to Exabytes (in 10 years) via heterogeneous and distributed computing resources and networks of varying capability and reliability and to develop internally consistent approaches to the usage of common resources required in the multiple collaborations and serving virtual science organizations on a global scale.

Priority will be given to proposals which: develop tools which can serve a broad community within physics or reach out to other communities in need of rapid, secure access to large data stores; or which bring dramatic new capabilities to a specific sub-area of physics.

Quantum information and revolutionary computing supports theoretical and experimental proposals that explore applications of quantum mechanics to new computing paradigms for physics or that foster interactions between the physical, mathematical and computer scientists which push the frontiers of quantum-based information, transmission and manipulation. Priority will be given to proposals which utilize the tools of modern physics to foster new approaches to our understanding of quantum computation, quantum cryptography and/or quantum communication.

### **National Science Foundation, Metallic Materials and Nanostructures [99718]**

**Deadline:** 10/31/09

**Synopsis:** Using the combined tools of experiment, theory and computer simulations, the goals of this program are to enable the advancement of fundamental understanding of metallic materials from the atomic to nano-structural to bulk length scales via imaginative and, especially, transformational research.

**Objectives:** A primary objective of this program is to foster the expansion of the activities of synthesis, processing and characterization so that advanced metallic materials and nanostructures with superior physical, mechanical, and/or chemical properties can be predicted and designed, leading to enhanced knowledge of nano- and micro-structure/composition/property relationships at all the relevant length scales.

The broad intellectual scope of this program covers the science of advanced structural, high-temperature, hybrid and multifunctional metallic materials; phase transitions, equilib-

## An Eye on Funding (Continued from page 14)

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rium and non-equilibrium structures, defects, and phenomena; thermodynamics, kinetics, diffusion, and cooperative behavior across length scales leading to fundamental insights into material properties, nano- and microstructure evolution; tailored surfaces and interfaces; oxidation; metal-based transducer materials utilizing novel principles for energy conversion; magnetic structures and their interaction with electron transport; metallic clusters and nanoparticles, linear chains and nanowires, low-dimensional structures that exhibit new behavior, quantized electronic, magnetic, or thermal effects, and enhanced physical, mechanical, and chemical properties.

### SOCIAL / BEHAVIORAL

#### **National Institutes of Health, Methodology & Measurement In The Behavioral And Social Sciences [87761]**

**Deadline(s):** 10/16/09, 01/07/10, 02/16/10, 05/07/10, 06/16/10

**Synopsis:** The sponsor offers support for 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. 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. This program will use the NIH Small Research Grant (R03) award mechanism.

**Objectives:** This program announcement encourages applications addressing four general areas of methodology and measurement research in the social and behavioral sciences. These areas,

discussed in detail below, 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.

**National Science Foundation, Sociol-**

**ogy [25922]**

**Deadline(s):** 10/15/09, 01/15/10, 02/15/10

**Synopsis:** Support is provided for research in sociology.

**Objectives:** The sponsor 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.

## New Faculty (Continued from page 1)

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funded, ORSP Post Award staff, Michele Frazier, Lorie Robert and Andrea Ross will help you with purchasing, payroll and reporting requirements.





THE RESEARCH FOUNDATION  
The State University of New York

## OFFICE OF RESEARCH & SPONSORED PROGRAMS

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**The Office of Research and Sponsored Programs (ORSP) is responsible for the development, coordination and financial management of all contracts and grants at the College. All externally sponsored projects for research, scholarly / creative activity, curriculum development or services utilizing SUNY Oswego facilities and / or personnel must be processed and administered through ORSP.**

A project is externally sponsored if a grant or contract is awarded to the College in support of a specific activity. For example, external sponsors consist of federal and state agencies, private foundations, business and industrial enterprises, local and state governments and professional organizations. Sponsored projects include, but are not limited to, research, conferences, curriculum development, workshops, meetings, special events and scholarly and creative activities.

### ORSP Pre-Award Services Available

- 1) Maintain a faculty/staff profile of research and special projects interests
- 2) Match faculty/staff projects with potential sponsors
- 3) Notify faculty/staff of funding opportunities appropriate to their interests
- 4) Maintain a current resource collection of funding sources
- 5) Obtain guidelines and application forms
- 6) Assist with interpret guidelines and preparation of agency forms
- 7) Provide technical and editorial critique of proposals
- 8) Discuss budget categories and provide assistance with the development of an appropriate inclusive budget
- 9) Assist with the development of competitive proposals
- 10) Submit assurance reports and policies to maintain an approved institutional animal care and use committee and human subject committee in compliance with state and federal procedures
- 11) Review of final application
- 12) Obtain administrative approvals
- 13) Submit proposals by mail or electronically per sponsor specifications
- 14) Negotiate grant awards and contracts
- 15) Establish a Research Foundation project account

ORSP Pre-Award works in conjunction with other campus resources such as Penfield Library, Instructional Computing Center, Learning Resources, Center for Excellence in Learning and Teaching to provide necessary services to project activity and appropriate reimbursements. It is essential that Project Directors discuss their anticipated needs during budget development prior to proposal submission to ensure adequate funds are allocated for these campus services.

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