About SUNY Oswego Grantscene

The SUNY Oswego GRANTSCENE is an online publication dedicated to SUNY Oswego faculty and staff who are interested in research and scholarly activity. The GRANTSCENE will be published monthly from September to April of each academic year.

Upcoming funding opportunities can be found in the “An Eye on Funding” section. These funding opportunities are listed under the headings: Arts, Education, Health & 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 an 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 more information.

The “Campus News” section is where you will find information about campus grants for faculty and students, award ceremonies, and funded projects.

We have added a section this year called “A Word From the Director”. Jack Gelfand will talk about research program development, grant writing, and upcoming workshops. Contact Jack if you have an idea for his column.

Welcome New Faculty

Welcome SUNY Oswego new faculty to the fall 2007 semester.

Those of you interested in pursuing research interests or scholarly activities should contact Linda Cook in the Office of Research & Sponsored Programs (ORSP). Linda needs to know what your interests are so that she can send you appropriate funding information.

Jack Gelfand, Director of Research Admin. and Development, Maria Nakamura, Associate Director and Linda Cook, Admin. Assistant of ORSP will hold a workshop, “Secrets Revealed: Research Program Development and Grant Writing” on September 21 from 3:00 to 4:30 P.M. in Penfield Library’s Instruction Room 2.

Let Linda know if you are unable to attend but would like to receive a handout.

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ORSP
Penfield Library—Room #4
Office Hours
8:00 am to 12:30 pm
1:30 pm to 4:30 pm
Scholarly and Creative Activity Grants

This program is designed to provide support for faculty and staff in the development of their research or creative activity programs. Projects that are expected to result in peer-reviewed output or to have significant impact on local/campus community will have priority.

ELIGIBILITY: A goal of this program is to extend its benefits to as many applicants as possible. All full-time teaching faculty (including librarians), full-time temporary faculty who have multi-year contracts and are not in their final year, and non-teaching professionals on term and continuing appointment in the Division of Academic Affairs, are eligible to apply within this category.

FUNDS: The total money available for any individual grant will be up to $3,000.

DEADLINE: Your proposal must be complete, signed by you, and turned in to your department chair by the deadline. It is the responsibility of your chair to do his/her part within the specified time and deliver it to your dean.

You also need to submit an electronic copy (MS Word format or Adobe Acrobat format) of your proposal by the deadline. You do not need to put signatures on the routing sheet for the electronic copy. The electronic copy should be e-mailed directly to Michael Ameigh, Asst. Provost (e-mail: ameigh@oswego.edu).

For complete guidelines visit the Provost’s web site at http://www.oswego.edu/administration/provost/faculty_grants.html

Campus Grants 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.

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A Word From the Director

This month I would like to briefly review some of the concepts associated with budget preparation. The ORSP office will be happy to help you with the details of preparing budgets for proposals. It is a good idea, though, to have some understanding of the budget process in order to plan for the level of activity that you will propose. Many items in budgets are labeled with abbreviations that only an accountant would understand. I will explain these while going through the concepts. This will be a brief introduction. We will be holding a workshop to review this topic in more detail on Friday, October 5 at 3:00 - 4:30 P.M. in Penfield Instruction Room 2. All are invited to attend.

Expenses listed in a budget fall into a number of categories. These categories are specified by the funding agencies. The principal ones that you will encounter are listed below.

1. Personnel (S&W, Salary and Wages) – These are the cost of the salary and wages of the different personnel that are working on the grant. This could include the senior investigator, other investigators, graduate students, and undergraduate students.

2. Fringe Benefits (FB) – The grant must pay fringe benefits for all employees. Fringe benefits cover things like retirement, long term disability, social security, workman’s compensation, etc. This percentage varies for different employee classifications and changes every year. For example, the fringe benefits for employees working during summer 2008 would be 14.5%.

3. Materials and Supplies (M&S) – These are the costs for all the different kinds of materials used for the execution of the research in the grant. This would include chemicals in a chemistry project, for example. There is a limit on the maximum cost for each item in order to be considered materials or supplies. This depends on the funding entity. The limit for an NSF grant is $4,999. Items costing more than that limit are considered to be equipment.

4. Travel – These are costs associated with traveling to meetings or travel for the execution of the research. This may include funds for travel to meet with the sponsor during the project.

5. Publications and Reports – This category pays for any costs involved in publishing your work and includes page charges from journals. This also includes costs associated with preparing and disseminating reports for the funding agency.

6. Equipment – An item is classified as capital equipment if it is over a certain cost and if it’s life expectancy is over a certain amount of time. These criteria are different for different funding agencies.

The total expenses in these categories, along with others, are known as the total direct costs (TDC). Agencies and foundations have policies which specify how much you can charge for facilities and administration (F&A). For example we can charge for the cost of the library and the cost of the offices that administer your grant. SUNY Oswego has a federally negotiated indirect cost rate that determines how much we are entitled to recover. Sometimes, especially in the case of foundations, there is a written policy that limits how much we can charge. Indirect costs are usually calculated on either a TDC base or certain categories of expenditures. For example, the indirect cost rate for federally funded programs is 76% of salary and wages (S&W).

This brief introduction will allow you to think about the scope of your proposed budgets. Please feel free to contact us at ORSP to discuss this before you begin writing, and come to the workshop to learn more about the process.

Upcoming Workshops

Title: Secrets Revealed: Research Program Development and Grant Writing (panel discussion)  
Date: Friday, September 21, 2007  
Time: 3:00 P.M.  
Location: Penfield Library, Room 123

Title: Getting Started in Human Subject Research  
Date: Friday, October 26, 2007  
Time: 3:00 P.M.  
Location: Penfield Library, Room 123

Title: White Papers and Elevator Talks  
Date: Friday, November 16, 2007  
Time: 3:00 P.M.  
Location: Penfield Library, Room 123
ARTS

Theatre Communications Group, TCG/ITI Travel Grant [73610]
Deadline: 10/26/07
Scope: The sponsor offers travel grants designed to support cultural exchange and artistic partnerships between professionals in the United States and their counterparts in Russia and Eastern and Central Europe. These $3,000 grants will support trips in either direction by theatre artists, administrators and educators, enabling these professionals to share ideas, gain exposure to each other’s cultural traditions and contemporary theatre techniques and/or work together. In addition to fostering existing creative exchanges and partnerships, the grants will enable U.S. theatre professionals to identify potential partners for future work.

Funding: Travel grants of $3,000 may cover transportation, out-of-town living expenses and other expenses essential to the project such as research materials, communication costs, theater tickets, and/or the services of an interpreter.

Objectives: These grants will support travel in either direction between theater professionals in the U.S. and their counterparts in Russia or Central/Eastern Europe, including Albania, Belarus, Bosnia, Bulgaria, Croatia, the Czech Republic, Georgia, Herzegovina, Hungary, Macedonia, Moldova, Mongolia, Poland, Romania, Russia, the Slovak Republic, Slovenia, Ukraine and Yugoslavia.

Meet the Composer, Inc., Creative Connections [70702]
Deadline: 10/01/07
Scope: The sponsor provides support for American composers to participate in public activities related to specific performances of their original music. By supporting the composer's interaction with audiences, performers, arts organizations, and local communities.

Funding: Award amounts range from $250 to $5,000 and are based on the level, extent, and originality of the composer activities described in the application.

Objectives: The sponsor provides support for American composers to participate in public activities related to specific performances of their original music. By supporting the composer's interaction with audiences, performers, arts organizations, and local communities.

COMMUNITY

TD Banknorth Charitable Foundation [93327]
Deadline: 10/31/07, 01/31/08, 04/30/08
Scope: The sponsor provides support for nonprofit organizations with 501(c)(3) status for community support.

Objectives: Community Support--this includes the support of programs and organizations which have proven records of arts and cultural enrichment programs, the development and expansion of programs which foster civic enhancement and address issues related to cultural diversity, and a commitment to programs that promote improvements to community health and human services efforts.

EDUCATION

Sun Microsystems, Inc., Academic Excellence Grant Program [61268]
Deadline: 11/05/07, 02/04/08, 05/05/08
Scope: The sponsor grants equipment to eligible organizations who have developed creative projects that address the sponsor's investment priorities and create partnerships for success. The primary investment priorities are higher education and kindergarten through twelve education.

Funding: Grants are in the form of hardware donations only.

Objectives: The sponsor provides equipment to eligible organizations who have developed creative projects that address the sponsor's investment priorities and create partnerships for success. Grants are awarded under the following priorities:

Higher Education: including the teaching of SUN technologies, web-based learning, scientific and engineering computing, and business collaborations.

Primary and Secondary (K-12) Education: including primary and secondary education and university outreach.

NEA Foundation for the Improvement of Education [81624]
Deadline: 10/15/07
Scope: 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.

Funding: For individual Leadership & Learning grants, the award is $2,000. For group Leadership & Learning grants, the award is $5,000. Grant funds may be used for fees, travel expenses, books, or other materials that enable applicants to learn subject matter, instructional approaches, and skills. Student Achievement grants are awarded for $5,000. Grant funds may be used for resource materials, supplies, equipment, transportation, software, or scholars-in-residence.
Objectives: Grants are awarded in the following categories:

Learning & Leadership: Grants to individuals fund participation in high-quality professional development experiences, 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.

DOEd, Grants to Support Education Research -- National Center for Education Research (NCER) [87353]

Deadline: 11/01/07

Scope: A central purpose of the sponsor is to provide parents, educators, students, researchers, policymakers, and the general public with reliable and valid information about education practices that support learning and improve academic achievement and access to education opportunities for all students. In carrying out its mission, the sponsor provides support for programs of research in areas of demonstrated national need.

Funding: The sponsor estimates the range of awards to be $100,000 to $1,200,000 for a project period of up to five years.

Objectives: The National Center for Education Research (NCER) will hold five competitions: two competitions for education research; two competitions for education research training; and one competition for education research and development centers.

Under the two education research competitions, the sponsor will consider only applications that address one of the following education research topics: Reading and Writing; Interventions for Struggling Adolescent and Adult Readers and Writers; Mathematics and Science Education; Teacher Quality in Reading and Writing; Teacher Quality in Mathematics and Science; Cognition and Student Learning; Social and Behavioral Context for Academic Learning; Education Technology; Early Childhood Programs and Policies; Education Leadership; Education Policy, Finance, and Systems; High School Reform; and Postsecondary Education. Under the education research and development centers competition, NCER will consider only applications that address one of the following education research topics: Cognition and Science Instruction; and Instructional Technology.

HEALTH & WELLNESS

General Electric Healthcare [69908]

Deadline: 11/01/07

Scope: The sponsor provides funding to registered, non-profit, tax-exempt organizations focused on youth education and/or promoting healthy lives.

Funding: Grants are made in three levels:

Funding up to $5,000: the funding request focuses on a local community; the program reaches twenty or more clients in providing its services; and the program provides possible opportunities to engage local GE employees in volunteerism.

Funding between $5,000-$25,000: the program engages the community and, if appropriate, a GE Healthcare facility in an integrated and meaningful way on a metropolitan wide or regional basis; and the program delivers services, disseminates information, provides training/outreach and/or builds networks broadly in a major metropolitan area or region.

Funding between $25,000-$50,000: the funding request focuses on a national/global community issue.

Objectives: Areas of Impact include: Youth Education Program Areas: underserved communities with low graduation rates; focus on youth from birth – 18; support core competencies (such as math, science, reading, writing); arts in education—programs must focus on developing student’s life skills and/or support core competencies to increase testing scores and graduation rates; and early childhood development programs that integrate learning and life skills into everyday learning.

Healthy Lives Program Areas: childhood obesity; cardiac care (such as heart disease, etc.); oncology (such as general and specific cancers); neurology (such as Stroke, Parkinson’s disease, Alzheimer’s Disease, etc.); women’s healthcare; diabetes; and other health related issues that address a need for increased awareness and/or community outreach.

Diversity and Service Programs: programs that impact minority populations; and programs that address local community issues (such as poverty, homelessness, the disadvantaged, food programs, training).

HUMANITIES

Red Hen Press, Ruskin Art Club Poetry Award [75558]

Deadline: 09/30/07

Scope: The sponsor provides an award for the best unpublished poem.

Funding: The award is $1000 and publication of the winning poem in the Los Angeles Review published by Red Hen Press.
New York Council for the Humanities, Major Grants [02050]
**Deadline:** 11/01/07
**Scope:** The sponsor provides support of at least $2,500 to New York non-profit, tax-exempt organizations for humanities projects.
**Funding:** Major Grants are for project requests of $2,500 or more. While there is no upper limit on the amount that can be requested, grants awarded rarely exceed $10,000. Appropriate project formats include: lectures; conferences, symposia, and panel discussions intended for the general public; planning or implementation of exhibitions; film screenings combined with interpretive discussion; exhibition brochures; exhibition catalogues with significant humanities scholarship; museum docent scripts or talking points developed through scholarly consultation; readings combined with interpretive discussion; walking tours; radio programs; and internet presentations such as online exhibitions and open dialogues moderated by humanities scholars.
**Objectives:** This program is designed to provide financial support for humanities programming, conceived and implemented by not-for-profit organizations across New York State, that brings humanities scholars and scholarship to a general public audience. Special consideration is given to projects that reach underserved populations; to projects that, without our funding, might not happen; and to organizations that need financial seed money so that they may secure long-term support from other sources.
As branches of learning, the humanities include history, literature, philosophy, ethics, jurisprudence, linguistics, comparative religion, and the history, theory, and criticism of the arts. Social sciences that employ qualitative approaches such as cultural anthropology, archaeology, political science, and interdisciplinary areas such as folklore, women’s studies, and American studies also are considered humanities disciplines.

National Historical Publications & Records Commission, Archives - Basic Projects [92100]
**Deadline:** 10/01/07
**Scope:** The NHPRC supports archives and records projects to carry out fundamental archival activities that promote the preservation and use of America's documentary heritage essential to understanding our democracy, history, and culture.
**Funding:** A grant normally is for one to three years and up to $200,000. The Commission expects to make up to 20 grants in this category, for a total of up to $900,000. The Commission provides no more than 50 percent of project costs for Basic Projects.
**Objectives:** The Commission is particularly concerned that some historical collections in archives and repositories are difficult for most researchers to find because they are not processed or represented in national catalogs. It hopes to encourage repositories to reveal these "hidden collections" by concentrating on materials in their "backlogs." In addition, the NHPRC wishes to continue support for planning for archives, collection development, and appropriate preservation.
As a result, the Commission seeks proposals for projects that support backlog processing and collections cataloging, phased preservation, and/or collections development. Proposed projects must employ the best and most cost-effective archival methods. Activities included under Basic Projects may be any one or combination of the following: Basic Processing, Preservation Planning, Collections Development, and Establishing Archives.

NEH, Summer Stipends (Division of Research Programs) [04700]
**Deadline:** 10/02/07
**Scope:** The sponsor provides support to individuals pursuing advanced research that contributes to scholarly knowledge or to the public’s understanding of the humanities.
**Funding:** Summer Stipends provide $6,000 for two consecutive months of full-time research and writing.
**Objectives:** Summer Stipends support individuals pursuing advanced research that contributes to scholarly knowledge or to the public’s understanding of the humanities. Recipients usually produce scholarly articles, monographs on specialized subjects, books on broad topics, 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. Applicants may be faculty or staff members of colleges, universities, or primary or secondary schools, or they may be independent scholars or writers.

**INTERDISCIPLINARY**

NSF, Cognitive Neuroscience Grants [59209]
**Deadline:** 10/01/07
**Scope:** The sponsor seeks highly innovative and interdisciplinary proposals aimed at advancing a rigorous understanding of how the human brain supports thought, perception, affect, action, social processes, and other aspects of cognition and behavior, including how such processes develop and change in the brain and through time.
**Funding:** Approximately $5 million is available to fund fifteen to forty awards.
**Objectives:** The sponsor seeks innovative proposals aimed at advancing a rigorous understanding of how the human brain supports thought, perception, affect, action, social processes, and other aspects of cognition and behavior. Topics may bear on core functions such as sensory, learning, language, reasoning, emotion, and executive processes, or more specialized processes such as empathy, creativity, representation of self and other, or intentionality, among many other possibilities. Topics may also include how such processes develop and change in the brain.
An Eye on Funding (Continued from page 6)

The program is particularly interested in supporting the development of new techniques and technologies for recording, analyzing, and modeling complex brain activity. Such projects should include a plan for sharing new software and other technologies with the research community at large. Studies of disease states (e.g., brain damaged patients) may be components of projects supported by this program. However, the emphasis in such projects must be to advance basic scientific understanding of neural mechanisms, and not on disease etiology, diagnosis, or treatment.

The program also intends to foster projects that integrate perspectives across disciplines, e.g., from the cognitive sciences, developmental sciences, biology, computer science, engineering, education, anthropology, physics, mathematics and statistics. For example, projects that involve collaborations among individuals with expertise in one of the cognitive sciences, neuroimaging, neural microcircuity, and modeling complex systems are strongly encouraged. Other interdisciplinary emphases are also of keen interest.

**America Honda Fd. [09372]**
**Deadline:** 11/01/07, 02/01/08, 05/01/08

**Scope:** The sponsor provides grant support for projects in the areas of youth and scientific education.

**Funding:** Average grants range from $10,000 to $100,000 per year.

**Objectives:** Programs related to youth and scientific education should be: dedicated to improving the human condition of all mankind; soundly managed and administered by enthusiastic and dedicated individuals who approach their jobs in a youthful way; look to the future or foresightful programs; and innovative and creative programs that propose untried methods which ultimately may result in providing solutions to the complex cultural, educational, scientific and social concerns currently facing the American society.

**Electronic Data Systems Foundation [83264]**
**Deadline:** 10/15/07

**Scope:** The sponsor provides grants to non-profit, charitable organizations for programs that provide solutions for narrowing the "digital divide." Program elements include: access to technology; content; technical infrastructure; professional development; and evaluation.

**Funding:** Organizations based outside of the United States require a minimum request of $10,000. The Foundation does not approve multi-year grants, but organizations may re-apply annually.

**Objectives:** The sponsor is interested in supporting programs that provide solutions for narrowing the "digital divide." Program elements would include: access to technology (only in combination with the following program elements); content; technical infrastructure; professional development; and evaluation.

Other program categories include: arts and culture; health and human services; and general education.

**Walker (Alex C.) Foundation [82050]**
**Deadline:** 10/01/07

**Scope:** The Foundation awards grants to: investigate the causes of economic imbalances; investigate the effect of the monetary system in fostering a sustainable economy; investigate causes tending to destroy or impair the free-market system; explore and develop free-market solutions; and disseminate information on these issues. Projects must either address issues of national economic importance or investigate causes tending to impair or destroy the global free-market system.

**Objectives:** The Foundation funds two categories of projects: traditional economics and ecological economics with a free-market orientation. The Foundation seeks market approaches for addressing economic imbalances and protecting our environment. Applicants should explain how their project either addresses an issue of national economic importance or investigates causes tending to impair or destroy the global free-market system. The Foundation funds projects of national significance to the United States within the context of the global economy.

**EDS Foundation [84005]**
**Deadline:** 10/15/07

** Scope:** The sponsor provides funding to nonprofit or charitable organizations to ensure information technology champions cultural and civic change, enriching the education of current and future generations, while enhancing the communities they serve.

**Funding:** Non-U.S. applications require a minimum request of $10,000. Multi-year funding will not be considered, but organizations may re-apply annually.

**Objectives:** The sponsor supports nonprofit organizations involved in education, health & human services, and arts & culture. The majority of foundation funds will be directed to these organizations in support of the productive use of technology in programs and processes. The remainder of the funding will be directed to general program support. The sponsor is interested in supporting comprehensive technology solutions that increase performance and productivity in educational institutions and community organizations globally. A technology solution would integrate the following components: access to technology (only in combination with the following program elements); content; technical infrastructure; professional development; and evaluation.

**DOEd, Grants to Support Education Research -- National Center for Special Education Research (NCSER) [87354]**
**Deadline:** 11/01/07

**Scope:** A central purpose of the sponsor is to provide parents, educators, students, researchers, policymakers, and the general public with reliable and valid information about education practices that support learning and improve academic achievement and access to education opportunities for all students. In carrying out its mission, the sponsor
provides support for programs of research in areas of demonstrated national need.

**Funding:** The sponsor estimates the range of awards to be $200,000 to $2,000,000 for a project period of up to five years.

**Objectives:** The National Center for Special Education Research (NCSER) will hold four competitions: two competitions for special education research; one competition for special education research training; and one competition for special education research and development centers.

Under the first special education research competition, NCSER will consider only applications that address one of the following special education research topics: Early Intervention, Early Childhood Special Education, and Assessment for Young Children with Disabilities; Mathematics and Science Special Education; Reading, Writing, and Language Development; Serious Behavior Disorders; Individualized Education Programs and Individualized Family Service Plans.

Under the second special education research competition, NCSER will consider only applications that address one of the following special education research topics: Secondary and Transition Services; Autism Spectrum Disorders; Response to Intervention; and Related Services.

Under the special education research training competition, NCSER will consider only applications for Postdoctoral Research Training.

Under the special education research and development centers competition, NCSER will consider only applications that address one of the following special education research topics: Serious Behavior Disorders at the Secondary Level; Response to Intervention in Early Childhood Special Education.

**Scope:** The sponsor provides opportunities to outstanding scientists and engineers at recent postdoctoral and experienced senior levels for tenure as guest researchers. Awardees must hold the PhD, ScD, or other earned research doctoral degree recognized in US academic circles as equivalent to the PhD. An annual stipend is awarded.

**Funding:** Postdoctoral Research Associateships are made initially for one year. Although awards to Senior Research Associates are usually for one year, awards for periods of three months or longer may be considered. The current annual stipend for a Postdoctoral Research Associate is $56,000. An appropriately higher stipend will be offered to Senior Research Associates. A suitable relocation reimbursement is determined for each awardee. Funds are also available for limited professional travel during tenure.

**Objectives:** The objectives of the program are to provide postdoctoral scientists and engineers of unusual promise and ability opportunities for research on problems, largely of their own choice that are compatible with the interests of the U.S. Army Research Office, and to contribute thereby to the overall efforts of the federal laboratories.

Areas of interest are: Advanced Computational Multiscale Materials Modeling under Dynamic Loading Conditions; Epitaxial Growth of Wide-Bandgap Semiconductors; Experimental Research on Interfaces of Electronic Materials and Nanostructures; Frameworks for Multisensor Fusion; Materials Design; Mathematical Modeling of Complex Phenomena; Mechanics of Stimulus Responsive Polymers; Mitochondrial DNA Replication and Repair, Regulation of Copy Number, and Oxidative Stress; Oligonucleotide Synthesis and Electron-Transfer Chemistry in DNA; Optical Studies of III–V Semiconductor Materials and Device Structures; Optoelectronic Environmental Sensing Based on Fiber Optics and Planar Waveguides; Physics and Sensing Based on Fiber Optics and Planar Waveguides; Physics and

**Upjohn (W.E.) Institute for Employment Research, Mini Grants [53354]**

**Deadline:** 10/17/07

**Scope:** The sponsor will consider proposals for funds to conduct research and write papers on innovative research topics relative to employment issues.

**Funding:** Funds up to $5,000 could be used as summer compensation or to acquire special data sets, meet unusual computer processing or programming needs, or to cover travel to collect primary data.

**Objectives:** The purpose of this program is to provide flexibility to meet special funding needs that, without support, would prevent researchers from pursuing the project.

**SCIENCES**

**NSF, Microbial Observatories (MO) and Microbial Interactions and Processes [46147]**

**Deadline:** 10/08/07

**Scope:** The Microbial Observatories (MO) and Microbial Interactions and Processes (MIP) activities will support research to discover and characterize novel microorganisms, microbial consortia, communities, activities and other novel properties, and to study their roles in diverse environments.

**Funding:** The sponsor expects to fund approximately ten awards in each category per year, depending on the quality of submissions and the availability of funds. For MO projects, awards are expected to be for five years, while CSREES awards are expected to be four years (with the possibility of a
An Eye on Funding (Continued from page 8)

one-year no-cost extension), and total award size (all years, whether single institution or collaborative) is expected to range between $500,000 and $2 million. For MIP projects, awards are expected to be for up to four years and total award size is expected to range up to $500,000. All awards will be made as grants subject to specified reporting procedures.

Objectives: The guiding themes of the Microbial Observatories (MO) and Microbial Interactions and Processes (MIP) program are: discovery of large numbers of as yet undescribed microorganisms and microbial consortia from diverse habitats; and characterization of novel biochemical, metabolic, physiological, genomic and other properties and processes of newly described or poorly understood microbes and microbial communities. Both MO and MIP proposals must describe how the work will make a substantial impact on scientific understanding of the diversity of microorganisms and microbial communities and their role in diverse environments. By contrast, explicitly discouraged are those that lack a dimension beyond species discovery and routine phylogenetic characterization, or those addressing the molecular and cellular biology of a microorganism in the absence of a direct environmental context.

Examples of additional aspects of microbial diversity research that either MO or MIP proposals might address but are not limited to: studies to determine the phylogenetic, physiological, metabolic and genomic properties and mechanisms responsible for microbial growth, adaptation and survival in natural and managed environments; studies of the mechanistic basis of interactions among microbes in communities and multispecies biofilms, and of microbes with co-habiting non-microbial species, including mechanisms for the exchange of genetic material; studies of the diversity of microbial processes for anaerobic and aerobic flow of energy and cycling of nutrients, including aquatic, soil/
rhizosphere, foliar and sediment ecosystems; studies that characterize the microbial diversity and composition of microbial communities associated with healthy and diseased hosts or how microbial diversity and community composition change with different management systems; patterns of microbial distribution in time and space, and in response to specific environmental gradients; and integrative studies of the diversity, physiology, biochemistry and genomics of microorganisms and microbial communities and the processes that they carry out in the environment.

NSF, Dynamical Systems [16742]
Deadline: 10/01/07

Scope: The sponsor provides funding supporting fundamental and innovative advances in the understanding, design and operation of dynamic systems, such as nonlinear, hybrid, time-varying, multi-energy domain and distributed dynamical systems; examples of application areas include acoustics and vibration analysis, noise and vibration control technologies, kinematic relationships, biological systems, micro and nano-scale systems, multi-scale dynamic systems, large-scale interconnected complex systems, integrated analysis and design of dynamic systems, theory and application of dynamical systems (modeling, analysis, simulation and synthesis), and simulation-based engineering and science.

NSF, Division of Civil, Mechanical & Manufacturing Innovation [01358]
Deadline: 10/01/07

Scope: Support is provided for research across a wide range of topics and issues that span civil and mechanical engineering, and engineering design and manufacturing. The Division also has a focus on the reduction of risks induced by earthquakes and other natural and technological hazards. The Division encourages cross-disciplinary partnerships at the intersections of traditional disciplines to promote discoveries using technologies such as adaptive systems, nanotechnology and simulation aimed at revolutionary advances in civil and mechanical systems and manufacturing technologies.

Objectives: The mission of the Division is the advancement of science and technology, the promotion of innovation in civil, mechanical, materials, and manufacturing engineering disciplines to enable the Nation’s global competitiveness, security, welfare, and excellence in education for an adaptable, creative, and knowledge-enabled engineering workforce. The CMMI Division is organized into three program clusters, each of which contains six to seven program elements. These include: Materials Transformation and Mechanics Cluster; Innovation Sciences and Decision Engineering Cluster; and Engineering Infrastructure Systems Cluster.

NSF, Geography and Regional Science [61299]
Deadline: 10/15/07, 01/15/08, 02/15/08

Scope: Support is provided for research in geography and regional science.

Objectives: The sponsor supports basic research on the geographic distributions and interactions of human, physical, and biotic systems on the Earth's surface. Investigations are encouraged into the nature, causes, and consequences of human activity and natural
environmental processes across a range of scales. Projects on a variety of topics (both domestic and international) qualify for support if they offer promise of contributing to scholarship by enhancing geographical knowledge, concepts, theories, methods, and their application to societal problems and concerns. Support also is provided for projects that explicitly integrate undergraduate and graduate education into the overall research agenda.

**NRC, Research Associateship Programs—U.S. Army Research Laboratory [58604]**

**Deadline:** 11/01/07

**Scope:** The sponsor provides opportunities to outstanding scientists and engineers at recent postdoctoral and experienced senior levels for tenure as guest researchers. Awardees must hold the PhD, ScD, or other earned research doctoral degree recognized in US academic circles as equivalent to the PhD. An annual stipend is awarded.

**Funding:** Postdoctoral Research Associateships are made initially for one year. Although awards to Senior Research Associates are usually for one year, awards for periods of three months or longer may be considered. The current annual stipend for a Postdoctoral Research Associate varies by directorate, as follows: Computational and Information Sciences Directorate--$62,000-$65,000; Human Research and Engineering--$55,000; Sensors and Electron Devices--$65,000; US Military Academy Teaching/Research $68,000; US Military Academy Photonics Research $68,000; Weapons and Materials Research $61,000. Some directorates provide a $5,000 supplement for doctorates in engineering and computer science. An appropriately higher stipend will be offered to Senior Research Associates. A suitable relocation reimbursement is determined for each awardee. Funds are also available for limited professional travel during tenure.

**Objectives:** The sponsor provides opportunities to outstanding scientists and engineers at recent postdoctoral and experienced senior levels for tenure as guest researchers. The objectives of the program are to provide postdoctoral scientists and engineers of unusual promise and ability opportunities for research on problems, largely of their own choice that are compatible with the interests of the U.S. Army Laboratory (ARL) and to contribute thereby to the overall efforts of the federal laboratories.

ARL’s primary business is research and technology development; its second major function is the independent analysis of weapon-system performance in survivability and lethality, human factors, and battlefield-environmental effects. In short, ARL’s mission is to provide America’s soldiers the technological edge through scientific research, technology development, and analysis.

**NRC, Research Associateship Programs—U.S. Geological Survey [58609]**

**Deadline:** 11/01/07

**Scope:** The sponsor provides opportunities to outstanding scientists and engineers at recent postdoctoral and, in some programs, experienced senior levels for tenure as guest researchers. Awardees must hold the PhD, ScD, or other earned research doctoral degree recognized in US academic circles as equivalent to the PhD. A cash award is provided.

**Funding:** Postdoctoral Research Associateships are made initially for one year. Although awards to Senior Research Associates are usually for one year, awards for periods of three months or longer may be considered. The annual rate of the stipend is $45,000 for associates with advisers in Biology Discipline. In the the Hydrology Discipline and Geography Discipline, the current annual stipend is $53,000. Applicants should check with their potential adviser to see which rate would apply. An associate may be entitled to payment of certain relocation expenses. Funds are also available for limited professional travel during tenure.

**Objectives:** The sponsor provides opportunities to outstanding scientists and engineers at recent postdoctoral and experienced senior levels for tenure as guest researchers. The objectives of the program are to provide postdoctoral scientists and engineers of unusual promise and ability opportunities for research on problems, largely of their own choice that are compatible with the interests of the U.S. Geological Survey (USGS) and to contribute thereby to the overall efforts of the federal laboratories. Areas of interest to the USGS divisions are as follows:

**BIOLOGY DISCIPLINE--The mission is to work with others to provide the scientific understanding and technologies needed to support the sound management and conservation of the nation’s biological resources. Research is distributed among five scientific areas: status and trends of biological resources; investigations of biological systems; threats to biological resources; application of scientific information to resources conservation and management; and management and distribution of biological resource data and information.**

**GEOGRAPHY DISCIPLINE--The mission is to meet the Nation’s need for basic geospatial data, ensuring access to and advancing the application of these data and other related Earth science information for users worldwide. In support of this mission, GD: ensures the production and availability of basic framework cartographic and geographic spatial data for the country; coordinates national geospatial data policy and standards; provides leadership for the management of Earth science data and for information management; acquires, processes, archives, manages, and disseminates the land remote-sensing data of the Earth; and improves the understanding and application of geospatial data and technology.**

**HYDROLOGY DISCIPLINE--The mission is to appraise the nation’s water**
A $10,000 grant is paying SUNY Oswego meteorology students to help the National Weather Service better forecast and understand lake-effect snowstorms.

Given the unpredictable nature of lake-effect storms and the crippling effect they can have on Upstate New York communities, this work is of great interest in the professional field and an outstanding educational opportunity, said SUNY Oswego Professor Robert Ballentine, the lead project investigator.

Working with the Buffalo office of the National Weather Service, students study different configurations of the weather researching and forecasting modeling system -- which, while state-of-the-art and created by experts, still needs refinement in the tricky task of predicting where and when the most intense lake-effect snow events will happen.

"We're trying to figure out whether and why the model is making errors along the band," Ballentine explained. "This is an optimization attempt to take what the National Weather Service is doing now and use it as a control."

The grant comes from the University Corporation for Atmospheric Research, a nonprofit consortium of North American colleges, under the Cooperative Program for Operational Meteorology, Education and Training.

Ballentine said that virtually all of the funding goes to stipends for eight students who compare the data from an actual storm with what the forecasting system predicted the weather pattern would do.

"Since it's a very new model, we're trying to determine what kinds of biases it may have," said Joe Wegman, a sophomore meteorology major from Chantilly, Va., who came to Oswego because of the strong storms and the college meteorology program. Forecasting systems tend to have biases in at least one factor, such as temperature or direction, he noted.

By plotting and comparing observed storm data with what meteorologists predicted, students will help forecasters understand what the biases of the model are and correct for them, thus making future forecasts more reliable, Wegman explained.

Students are studying large weather events, including the recent fall storm in the Buffalo area, that feature bands coming off Lake Ontario or Lake Erie.

Co-project investigators include Al Stamm, Steven Skubis and Scott Steiger of the meteorology faculty.

Researchers also hope to figure out how much certain factors -- such as wind speed, moisture, temperature and the diurnal (time of day) cycle -- influence the development of lake-effect storms. Ballentine said the study looks at other issues, such as how the hilly terrain east of Lake Ontario contributes to the severity of storms in that area.

"Part of the purpose of this is to get students interested in research, learning about types of technology and the types of work meteorologists do," Ballentine said.

PHOTO CAPTION: Snow tracks -- Joe Wegman, a sophomore meteorology major from Chantilly, Va., is one of eight SUNY Oswego students helping improve how lake-effect storms are forecast under a $10,000 grant. Students compare data from actual lake-snow events with how the weather researching and forecasting modeling system predicted the storms would behave.

(Posted Nov 29, 2006 in Campus News)
resources and to provide the hydrologic information needed for its management. The division's research is generally interdisciplinary in nature; hydrology, mathematics, chemistry, physics, biology, geology, and engineering are applied in six major fields of study: surface-water hydrology, groundwater hydrology, surface-water chemistry, groundwater chemistry, geomorphology and sediment transport, and ecology.

**NRC, Research Associateship Programs—Environmental Protection Agency [58607]**

**Deadline:** 11/01/07

**Scope:** The sponsor provides opportunities to outstanding scientists and engineers at recent postdoctoral and experienced senior levels for tenure as guest researchers. Awardees must hold the PhD, ScD, or other earned research doctoral degree recognized in US academic circles as equivalent to the PhD. An annual stipend is awarded.

**Funding:** Postdoctoral Research Associateships are made initially for one year. Although awards to Senior Research Associates are usually for one year, awards for periods of three months or longer may be considered. The current annual stipend for a Postdoctoral Research Associate ranges from $38,000 to $50,000. An appropriately higher stipend is offered to Senior Research Associates. For the 2007 program year, supplements of up to $10,000 may be added to the basic stipend of Postdoctoral Research Associates holding recognized doctoral degrees in engineering, computer science and geochemistry along with the specialty of remote-sensing science. In addition the National Exposure Research Laboratory offers supplements to Associates with degrees in environmental statistics. A suitable relocation reimbursement will be determined for each awardee. Funds are also available for limited professional travel during tenure.

**Objectives:** The sponsor provides opportunities to outstanding scientists and engineers at recent postdoctoral and experienced senior levels for tenure as guest researchers at the participating laboratories. The objectives are to provide postdoctoral scientists and engineers of unusual promise and ability opportunities for research on problems, largely of their own choice that are compatible with the interests of the Environmental Protection Agency (EPA) and to contribute thereby to the overall efforts of the federal laboratories. Environmental research and development are required to gain knowledge of emerging issues, devise solutions to immediate environmental problems, and identify the threats and problems of the future so that they may be mitigated or avoided. Within the EPA, the Office of Research and Development leads the science and engineering research program in pursuit of three major goals: perform research and development to identify, understand, and solve current and future environmental problems; interpret and integrate scientific information to help organizations at all levels make better decisions about improving the environment; and provide national leadership in addressing emerging environmental issues and in advancing the science and technology of risk assessment and risk management.

**NSF, Information Technology and Infrastructure Systems [60602]**

**Deadline:** 10/01/07

**Scope:** Support is provided to create scientific and engineering knowledge for the intelligent renewal of civil infrastructure systems, such as transportation, water supply, sanitation, power generation, and the built environment, by promoting broad application of advanced information technologies to condition assessment, deterioration, and asset management sciences. This program creates scientific and engineering knowledge for the intelligent renewal of civil infrastructure systems, such as transportation, water supply, sanitation, power generation, and the built environment, by promoting broad application of advanced information technologies to condition assessment, deterioration, and asset management sciences. It also creates scientific and engineering knowledge for the intelligent design, construction, maintenance, operation and decommissioning of the built environment.

Important areas of inquiry are: intra- and inter-dependencies in infrastructure systems, health monitoring of infrastructure elements and systems, hydrogen fuel vehicles and transportation systems, infrastructure for hydrogen fuel storage and distribution, civil infrastructure protection, intelligent transportation systems, crash causation and crash avoidance measures in ground transportation, mobility in ground transportation through reduction or crash-caused delays and increases in the amount of vehicle throughput, fully automated and integrated project management processes across all life-cycle phases of the built environment, lean construction, engineering and management of job-site field operations through advanced information technologies.

**NSF, Advanced Technological Education (ATE)—Targeted Research on Technician Education [91041]**

**Deadline:** 10/11/07

**Scope:** With an emphasis on two-year colleges, the Advanced Technological Education (ATE) program focuses on the education of technicians for the high-technology fields that drive our nation's economy. The program involves partnerships between academic institutions and employers to promote improvement in the education of science and engineering technicians at the undergraduate and secondary school levels. The ATE program supports curriculum development; professional development of college faculty and sec-
An Eye on Funding (Continued from page 12)

secondary school teachers; career pathways to two-year colleges from secondary schools and from two-year colleges to four-year institutions; and other activities. A secondary goal is articulation between two-year and four-year programs for K-12 prospective teachers that focus on technological education. The program also invites proposals focusing on applied research relating to technician education.

**Funding:** The sponsor anticipates funding approximately five to eight new awards, ranging from $100,000 to $300,000 per year for up to four years.

**Objectives:** The ATE program supports targeted research on technician education, employment trends, the changing role of technicians in the workplace, and other topics that advance the knowledge base needed to make technician education programs more effective and more forward-looking. Employing rigorous standards of research and scholarship, project proposals should pose a research question or outline a topic of broad interest, survey previous research and scholarship on the issue, conduct original research and compile data, prepare cogent analyses, present conclusions, and describe how the results can inform practices in technician education programs. The results must be broadly disseminated to researchers and practitioners. Projects must represent a true collaboration—reflected in the activities, the leadership, and the budget—between well-qualified researchers and two-year college educators and, when appropriate, participants from four-year colleges and universities, secondary schools, business and industry, professional societies, and other non-profit organizations.

**NSF, Sensor Innovation and Systems [91007]**

**Deadline:** 10/01/07

**Scope:** The sponsor provides funding supporting research on acquiring and using information about civil and mechanical systems to improve their safety, reliability, cost and performance; knowledge base for development of advanced sensors for engineering solutions and strategic decision making for safety, security, and reliability and for implementation of real time adaptive system performance through dynamic response control, smart sensing and innovative actuating capabilities that use the sensed information; innovative sensor technology development including micro devices based on five senses and their embedment, micro and wireless networks, analytical tools and strategies for health monitoring and diagnosis, and engineering for smart structures.

**Objectives:** Funding is provided supporting research on acquiring and using information about civil and mechanical systems to improve their safety, reliability, cost and performance; knowledge base for development of advanced sensors for engineering solutions and strategic decision making for safety, security, and reliability and for implementation of real time adaptive system performance through dynamic response control, smart sensing and innovative actuating capabilities that use the sensed information; innovative sensor technology development including micro devices based on five senses and their embedment, micro and wireless networks, analytical tools and strategies for health monitoring and diagnosis, and engineering for smart structures.

**Funding:** Postdoctoral Research Associateships are made initially for one year. Although awards to Senior Research Associates are usually for one year, awards for periods of three months or longer may be considered. The current annual stipend for a Postdoctoral Research Associate is $50,000. An appropriately higher stipend will be offered to Senior Research Associates. Supplements of up to $5,000 may be added to the basic stipend in Postdoctoral Research Associates holding recognized doctoral degrees in engineering and computer science. A suitable relocation reimbursement will be determined for each awardee. Funds are also available for limited professional travel during tenure.

**Objectives:** The sponsor makes awards to outstanding scientists and engineers at recent postdoctoral and experienced senior levels for tenure as guest researchers. The program objectives are to provide postdoctoral scientists and engineers of unusual promise and ability opportunities for research on problems, largely of their own choice that are compatible with the interests of the U.S. Army TACOM Armament Research Development and Engineering Center and to contribute thereby to the overall efforts of the federal laboratories.

Areas of interest are: Artificial Intelligence and Control; Dynamic Mechanical Properties of Filled Polymer Composites; Kinetics and Mechanism of Fast Decompositions in Explosive Initiation; Science and Application of Carbon Nanostructures; Spectroscopy of Propellant Combustion; Studies of the Fracture of Composites by X-Ray Photoelectron Spectroscopy; and Synthesis and Chemistry of Cubane-Based High-Energy Material.

**NRC, Research Associateship Programs—US Army Research, Development and Engineering Command/Armament Research Development and Engineering Center [58606]**

**Deadline:** 11/01/07

**Scope:** The sponsor makes awards to outstanding scientists and engineers at recent postdoctoral and experienced senior levels for tenure as guest researchers. Awardees must hold the PhD, ScD, MD, or other earned research doctoral degree recognized in US academic circles as equivalent to the PhD. Awards of up to one year are available. An annual stipend is awarded.

**Funding:** Postdoctoral Research Associateships are made initially for one year. Although awards to Senior Research Associates are usually for one year, awards for periods of three months or longer may be considered. The current annual stipend for a Postdoctoral Research Associate is $50,000. An appropriately higher stipend will be offered to Senior Research Associates. Supplements of up to $5,000 may be added to the basic stipend in Postdoctoral Research Associates holding recognized doctoral degrees in engineering and computer science. A suitable relocation reimbursement will be determined for each awardee. Funds are also available for limited professional travel during tenure.

**Objectives:** The sponsor makes awards to outstanding scientists and engineers at recent postdoctoral and experienced senior levels for tenure as guest researchers. The program objectives are to provide postdoctoral scientists and engineers of unusual promise and ability opportunities for research on problems, largely of their own choice that are compatible with the interests of the U.S. Army TACOM Armament Research Development and Engineering Center and to contribute thereby to the overall efforts of the federal laboratories.

Areas of interest are: Artificial Intelligence and Control; Dynamic Mechanical Properties of Filled Polymer Composites; Kinetics and Mechanism of Fast Decompositions in Explosive Initiation; Science and Application of Carbon Nanostructures; Spectroscopy of Propellant Combustion; Studies of the Fracture of Composites by X-Ray Photoelectron Spectroscopy; and Synthesis and Chemistry of Cubane-Based High-Energy Material.

**NRC, Research Associateship Programs—US Army Research, Development & Engineering Command, Night Vision & Electronic Sensors Directorate [58596]**

**Deadline:** 11/01/07
**An Eye on Funding** (Continued from page 13)

**Scope:** The sponsor provides opportunities to outstanding scientists and engineers at recent postdoctoral and experienced senior levels for tenure as guest researchers. Awardees must hold the PhD, ScD, or other earned research doctoral degree recognized in US academic circles as equivalent to the PhD. An annual stipend is awarded.

**Funding:** Research Associateships are made initially for one year. The current annual stipend for a Postdoctoral Research Associate is $65,000. A suitable relocation reimbursement will be determined for each awardee. Funds are also available for limited professional travel during tenure. No additional monetary aid or other remuneration may be accepted from another appointment, fellowship, or similar grant, except for sabbatical leave, during the period of the Associateship.

**Objectives:** The sponsor provides opportunities to outstanding scientists and engineers at recent postdoctoral and experienced senior levels for tenure as guest researchers at participating laboratories. The objectives of the Programs are to provide postdoctoral scientists and engineers of unusual promise and ability opportunities for research on problems, largely of their own choice that are compatible with the interests of the US Army Research, Development & Engineering Command, Night Vision & Electronic Sensors Directorate and to contribute thereby to the overall efforts of the federal laboratories.

Areas of interest are: Advanced Countermeasures Sensors for the Army; Amorphous Silicon Microbolometer Material; Characterization and Modeling of Electrical Transport in Infrared Materials and Devices; Characteristics of Sets of Thermal Imagery; Cooled Infrared Focal Plane Arrays; Electrochemical Research; Eye-safe Micro Solid-State Lasers; Eye-safe Solid-State Lasers; II-VI Compound Semiconductor Growth for Infrared Detection and Imaging; II-VI Compound Semiconductor Growth and Characterization; Information Transport; Micromechanical Theory and Techniques; Modeling Theorist; Nondestructive Analysis of Epitaxial Material and Devices; Statistical Analysis of Human Thermal Signature Features; Third Generation FLIR Modeling; and Three-Dimensional Imaging Laser Radar.

**NRC, Research Associateship Pro-**

**grams--National Oceanic and Atmo-**

**spheric Administration [58545]**

**Deadline:** 11/01/07

**Scope:** The sponsor provides support to outstanding scientists and engineers at recent postdoctoral and experienced senior levels for tenure as guest researchers. Awardees must hold the PhD, ScD, or other earned research doctoral degree. An annual stipend is awarded.

**Funding:** Postdoctoral Research Associateships are made initially for one year. Although awards to Senior Research Associates are usually for one year, awards for periods of three months or longer may be considered. The current annual stipend for a Postdoctoral Research Associate is $45,000, except for the following locations:

- National Severe Storms Laboratory--Norman, Oklahoma--$46,000;
- Pacific Marine Environmental Laboratory--Seattle, Washington--$46,000;
- National Oceanographic Data Center--Silver Spring, Maryland--$46,000;
- Office of Research and Applications--Camp Springs, Maryland--$46,000;
- Southwest Fisheries Science Center--Pacific Grove, California--$47,400;
- Southwest Fisheries Science Center--Santa Cruz, California--$47,400;
- National Center for Environmental Prediction--$55,000; and the Office of Hydrologic Development--Silver Spring, Maryland--$46,000. An appropriately higher stipend will be offered to Senior Research Associates. A suitable relocation reimbursement will be determined for each awardee. Funds are also available for limited professional travel during tenure.

**Objectives:** The sponsor provides support to outstanding scientists and engineers at recent postdoctoral and experienced senior levels for tenure as guest researchers at participating laboratories. The objectives are to provide postdoctoral scientists and engineers of unusual promise and ability opportunities for research on problems, largely of their own choice that are compatible with the interests of the National Oceanic and Atmospheric Administration (NOAA) and to contribute thereby to the overall efforts of the federal laboratories. The missions of the components of NOAA that are participating in this program are described below:

--NOAA Research Laboratories: consist of a group of associated laboratories conducting research in the oceans and Great Lakes, and the lower and upper atmosphere. These laboratories seek the scientific understanding required by NOAA to meet its missions.
--National Weather Service makes atmospheric measurements, gauges rivers, and makes forecasts of atmospheric conditions and the flow of rivers. Its research is concerned primarily with developing instruments, techniques, and systems to improve the effectiveness of its main mission: to predict weather in which the importance of the mesoscale forecast has moved into the foreground, particularly in the wake of disasters from floods, hurricanes, and severe storms.
--National Environmental Satellite, Data, and Information Service: The overall research goal of the National Environmental Satellite, Data, and Information Service is to improve understanding of the environment through the application of satellite data and to provide new and improved satellite techniques for measuring relevant environmental parameters and phenomena. These investigations are undertaken with the immediate or ultimate goal of improving weather analysis and forecasts on both short- and long-range bases. With regard to other environmental sciences, possible applications of satellite data are explored to improve understanding of the earth and ocean sciences, the upper atmosphere, and the space environment.
--National Ocean Service: works to observe, understand, and manage our nation’s coastal and marine resources. NOS measures and predicts coastal and ocean phenomena, protects large areas of the oceans, works to ensure safe navigation, and provides tools and information to protect and restore coastal and marine resources.

--National Marine Fisheries Service: The mission of the National Marine Fisheries Service is to promote the protection and rational use of living marine resources for their aesthetic, economic, and recreational value to the American people. The Service administers programs to determine the consequences of the naturally varying environment and human activities on living marine resources; to provide knowledge and service to foster their efficient and judicious use; and to achieve domestic and international management, use, and protection of living marine resources.

**NRC, Research Associateship Programs--Air Force Research Laboratory [58542]**  
**Deadline: 11/01/07**  
**Scope:** The sponsor provides opportunities to outstanding scientists and engineers at recent postdoctoral and experienced senior levels for tenure as guest researchers. The program objectives are to provide postdoctoral scientists and engineers of unusual promise and ability opportunities for research on problems, largely of their own choice that are compatible with the interests of the Air Force Research Laboratory, and to contribute thereby to the overall efforts of the federal laboratories.

**Objectives:** The sponsor provides opportunities to outstanding scientists and engineers at recent postdoctoral and experienced senior levels for tenure as guest researchers. The objectives are to provide postdoctoral scientists and engineers of unusual promise and ability opportunities for research on problems, largely of their own choice that are compatible with the interests of the Air Force Research Laboratory, and to contribute thereby to the overall efforts of the federal laboratories.

**Funding:** Postdoctoral Research Associateships are made initially for one year. Senior Research Associateships are usually for one year, although awards for periods of three months or longer may be considered. The current annual starting stipend for a Postdoctoral Research Associate at NETL is $50,000. An appropriately higher stipend will be offered to Senior Research Associates. Supplements of up to $5,000 may be added to the basic stipend of Postdoctoral Research Associates holding recognized doctoral degrees in engineering and computer science. A suitable relocation reimbursement will be determined for each awardee. Funds are also available for limited professional travel during tenure.

**Objectives:** The sponsor provides opportunities to outstanding scientists and engineers at recent postdoctoral and experienced senior levels for tenure as guest researchers. The program objectives are to provide postdoctoral scientists and engineers of unusual promise and ability opportunities for research on problems, largely of their own choice that are compatible with the interests of the National Energy Technology Laboratory and to contribute thereby to the overall efforts of the federal laboratories.

Research interests of the agencies comprising the NETL are as follows: Advanced Materials in Support of the Hydrogen Economy; Capture of Carbon Dioxide; Carbon Dioxide Sequestration by Direct Mineral Carbonation; Carbon Dioxide Sequestration in Oil Fields; CO2 Sequestration; Damage of Brittle Materials by Indentation and Impact; Development, In Situ Repair, and Recycling of Advanced Refractories; Dynamics of Combustion and Energy Conversion Systems; Engineering Uses of Surfactants, Microemulsions, and Emulsions; Environmental Remediation and Groundwater Cleanup; Filtration of Particulates from High-Temperature Gases; Fluidization and Solids Transport Research; Fracturing of Natural and Man-Made Porous Media; High-Temperature Kinetics and Combustion Studies; High-Temperature Oxidation and Corrosion for Power Generation Applications; Hydrogen Production and Reforming Technologies; Ignition and Combustion Sciences; Materials Development through a Coupled Thermodynamic-Kinetic Approach to Microstructural Modeling; Microstructure-Property Relationships in Advanced Materials; Modeling Flow and Sediment Transport in Rivers, and Predicting Engineering Parameters of Underground Reservoirs; Natural Gas Hydrates and Production and Storage of Natural Gas: Simulator Development and Experiments; Novel Capture/
Separation Techniques for Carbon Dioxide; Optical Diagnostic Methods for Combustion; Research and Development in Advanced Solid Oxide Fuel Cell and Hybrid Fuel Cell Systems; Sequestration of Carbon Dioxide by Injection into Deep Brine-Saturated Formations: Modeling and Experiments; Sorbent/Catalyst Development for Removal of Pollutant Green House Gases from Fuel Gas Streams and Surface Science; and Synthesis and Joining of Advanced Materials.

**An Eye on Funding** (Continued from page 15)

**NSF, Cyber Trust [63149]**
**Deadline:** 11/14/07
**Scope:** The sponsor provides funding to promote a vision of a society in which people can justifiably rely on: computer systems to perform critical functions securely; computer systems to process, store and communicate sensitive information securely; and a diverse, well-trained workforce able to use, develop, configure, modify and operate computer-based systems. It is anticipated that $34 million will be available to fund eighty awards.

**Funding:** Up to fifteen team awards, and up to fifty single investigator and small team awards, and up to twenty exploratory research awards will be made. Exploratory Research awards last up to two years and do not exceed $250,000 total. Single Investigator and Small Group awards last up to three years and do not exceed $500,000 total. Team awards last up to four years and do not exceed $2,000,000 total.

**Objectives:** The program promotes a vision of a society in which people can justifiably rely on: computer systems to perform critical functions securely; computer systems to process, store and communicate sensitive information securely; and a diverse, well-trained workforce able to use, develop, configure, modify and operate computer-based systems.

To achieve the CT vision and simultaneously improve the Nation’s cybersecurity posture, CT will support a portfolio of projects that: contribute to the cybersecurity knowledge base and advance cybersecurity technologies; address trustworthiness at all levels of system design, implementation and use; consider the social, economic, organizational and legal factors influencing the successful adoption of new cybersecurity approaches and technologies; and build national education and workforce capacity, addressing undergraduate, graduate, and faculty development and training. Proposals funded will cover a broad range of disciplines contributing to the CT vision. Three types of CT projects will be supported: Exploratory Research projects; Single Investigator or Small Group projects; and Team projects.

**NSF, Geoscience Education (GeoEd) [36732]**

**Deadline:** 11/15/07
**Scope:** The sponsor provides funding to improve the quality of geoscience education through one of two tracks: Pilot Projects and Integrative Collaborations.

**Funding:** It is anticipated that approximately forty-five awards will be made in FY 2008. Forty of the awards per competition are anticipated to be made to Track 1 proposals and five are anticipated to be made to Track 2 proposals. The maximum amount that can be requested by a Track 1 proposal is $150,000, but the average award size is anticipated to be on the order of $75,000. The maximum amount that can be requested by a Track 2 proposal is $500,000, but the average award size is anticipated to be on the order of $400,000. Track 1 projects can have a maximum duration of two years. Track 2 projects can have a maximum duration of four years.

**Objectives:** The goals of the program are to: improve the quality of geoscience education at all educational levels; increase the number and competitiveness of Earth and Space Science teachers at K-12 levels; demonstrate the relevance of the geosciences by identifying and promoting traditional and non-traditional career opportunities in the field; increase the number of students enrolling in geoscience courses and degree programs at all educational levels; increase the number of students drawn from groups underrepresented in science, technology, engineering and mathematics (STEM) fields in geoscience courses and degree programs; and increase the public’s understanding of geoscience-related issues.

**Track 1 Pilot Projects:** Proposals should describe a plan to initiate or pilot innovative geoscience education activities. Track 1 projects should integrate research and education. Proposals for projects that will make use of current geoscience research results and/or methods are sought, as are proposals that will promote the geosciences and geoscience careers as highly relevant to modern society. Projects that are informed by the results of current education-related research or will conduct new educational research within a geoscience education venue will be considered under this solicitation. Awards are intended to provide start-up or proof-of-concept funding to enable projects to reach a level of maturity that will allow them to compete for longer-term funding from other sources or become self-sustaining. All proposed projects should have strong evaluation and dissemination plans.

Proposals should describe a plan to integrate geoscience research and education activities into existing Louis Stokes Alliances for Minority Participation (LSAMP), Alliances for Graduate Education and the Professorate (AGEP), and/or Centers of Research Excellence in Science and Technology (CREST) projects. Track 2 proposals must provide documentation of collaboration between the proposed GeoEd project and the associated LSAMP, AGEP, and/or CREST project(s).
An Eye on Funding (Continued from page 16)

NSF, Advanced Technological Education (ATE)—Projects [06857]
Deadline: 10/11/07

Scope: With an emphasis on two-year colleges, the program focuses on the education of technicians for the high-technology fields that drive our nation’s economy. The program involves partnerships between academic institutions and employers to promote improvement in the education of science and engineering technicians at the undergraduate and secondary school levels. This program supports curriculum development; professional development of college faculty and secondary school teachers; career pathways to two-year colleges from secondary schools and from two-year colleges to four-year institutions; and other activities. A secondary goal is articulation between two-year and four-year programs for K-12 prospective teachers that focus on technological education. Additionally, the program invites proposals focusing on applied research relating to technician education.

Funding: The sponsor anticipates funding approximately forty-five new awards, ranging from $25,000 to $300,000 per year and having a duration of up to three years, except for Large Scale Materials Development (LSMD) projects, which are limited to $500,000 per year for four years.

Objectives: Projects focus on one of the five activities described below:

- Program Improvement: These projects should increase the relevance of technician education to modern practices and assure an increased number of students entering the high performance workplace with enhanced competencies. Proposed activities should enhance a curriculum in multiple ways, producing a coherent sequence of classes, laboratories, and work-based educational experiences that revitalize the learning environment, course content, and experience of instruction for students preparing to be science and engineering technicians. Employers must be involved, and the resulting program should constitute a model that will be disseminated broadly. The improved program should lead students to an appropriate associate degree or specific occupational competency or certification embedded in an associate degree program, provide business and industry and public sector agencies with a larger pool of skilled technicians, and induce an increased proportion of students who enroll to complete programs.

- Professional Development for Educators: The program supports projects that provide current secondary school teachers and college faculty with opportunities for continued professional growth in areas that directly impact technician education. Projects should be designed to enhance the educators' disciplinary capabilities, teaching skills, vitality, and understanding of current technologies and practices. Activities typically include workshops, intensive seminars, industrial internships, or a combination of these. Such activities typically last from a few days to several weeks and are usually conducted in the summer, with follow-up activities during the academic year. To effect long-term change, these projects should normally span at least two academic years. The program particularly encourages activities that involve secondary school teachers and two-year college faculty working together. Evaluation should demonstrate use in the classrooms and changes in practice of participating faculty and teachers.

- Curriculum and Educational Materials Development (for National Dissemination): Proposed activities should affect the learning environment, course content, and experience of instruction for students preparing to be science and engineering technicians and for their teachers. Projects develop new print, electronic, and multimedia materials, including simulations, scenarios, web searches, etc. as well as laboratory experiments and manuals. It is expected that products will be developed with input from business, industry, and government, validated by experts from these organizations, field tested in diverse locations, and validated in terms of their effectiveness in meeting learning goals.

- Teacher Preparation: These projects help to prepare a future K-12 teaching workforce that understands the technological workplace and can prepare students to use a variety of approaches to solving real world technology related problems using design processes and principles. A project may be designed to prepare either future middle and high school technology teachers that also have strong backgrounds in mathematics and science or future K-12 mathematics and science teachers who understand how processes and principles of technology may be used to help students learn material and reinforce concepts presented in mathematics, science, and computer classrooms or future middle and high school technology teachers that also have strong backgrounds in mathematics and science.

- Small Grants for Institutions New to the ATE Program: The primary objective of this category of ATE Project grants is to increase the incentive and opportunity for community colleges that have little or no previous experience with the ATE program to undertake projects to improve science and engineering technician education programs or teacher preparation programs that focus on technological education. This small grants opportunity is designed to stimulate implementation, adaptation, and innovation in all areas supported by the ATE program and to broaden the base of community colleges participating in the program.

Association for Women in Mathematics Travel Grants [61580]
Deadline: 10/01/07

Scope: The grants program enables women to attend research conferences in their fields, thereby providing a valuable opportunity to advance their research activities and their visibility in the research community.

Funding: Grants provide full or partial support for travel and subsistence for a meeting or conference in the applicant's field of specialization. A maximum of
An Eye on Funding (Continued from page 17)

$1,500 for domestic travel and of $2,000 for foreign travel will be available. For foreign travel, U.S. air carriers must be used.

Objectives: The grants program enables women to attend research conferences in their fields, thereby providing a valuable opportunity to advance their research activities and their visibility in the research community.

NSF, Solid Mechanics and Materials Engineering (SMME)
Program [00662]
Deadline: 10/01/07
Scope: Support is provided for research into deformation, fracture, fatigue, friction, wear and corrosion of all types of materials, including composites, nanostructured materials, coatings and surface modification for service under extreme conditions.

Objectives: Two program elements run as follows:
The Mechanics and Structures of Materials (MSM) program element supports research on computational, theoretical, analytical and experimental solid mechanics, biomechanics, and nanomechanics; model based simulation and constitutive models; and the link of microstructure to nano-, meso- and macro-scale structural behavior. The program also supports experimental and analytical research on deformation, fatigue, and fracture and underlying nano- and micro-structural states and their origin, transformation and evolution.
The Surface Engineering and Material Design (SEM) program element supports generic research on links between microstructure design and control and properties, performance, and engineering of materials and surfaces for novel applications in civil and mechanical systems and components. Research is also included that expands the knowledge base on: the design of materials, coatings, and surface treatments for service under extreme conditions; tribology, corrosion, friction and wear; novel materials solutions for life-cycle design, ecomaterials, nano-technology, and biomedical applications and related model based simulation and computational materials engineering.

SOCIAL / BEHAVIORAL

NIH, Methodology And Measurement In The Behavioral And Social Sciences (R03) [87761]
Deadline: 10/16/07, 02/16/08
Scope: 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.

Funding: This program will use the NIH Small Research Grant (R03) award mechanism. Applications submitted in response to this announcement must be submitted electronically through Grants.gov, using the SF424 Research and Related (R&R) forms and SF424 (R&R) Application Guide. Applicants may request a project period of up to two years and budget for direct costs of up to $50,000 per year. Because the nature and scope of the proposed research will vary from application to application, it is anticipated that the size and duration of each award will also vary. F&A costs requested by consortium participants are not included in the direct cost limitation.

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 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.

NSF, Sociology [25922]
Deadline: 10/15/07, 01/15/08, 02/15/08
Scope: Support is provided to universities and colleges, nonprofit, nonacademic organizations, for-profit organizations, state and local governments, and unaffiliated individuals 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.

NIH, Social and Cultural Dimensions of Health (R01) [64329]
Deadline: 10/05/07, 01/07/08
Scope: The sponsor offers support for research grant applications to: elucidate basic social and cultural constructs and processes used in health research; clarify social and cultural factors in the etiology and consequences of health and illness; link basic research to practice for improving prevention, treatment, health services, and dissemination; and explore ethical issues in social and cultural research related to health. The R01 award mechanism will be used.

Funding: This program will use the NIH Research Project (R01) award mechanism. Applications submitted in response to this announcement must be submitted electronically through Grants.gov, using the SF424 Research and Related (R&R) forms and SF424 (R&R) Application Guide. Because the nature and scope of the proposed research will vary from application to application, it is anticipated that the size and duration of each award will also vary. F&A costs requested by consortium participants are not included in the direct cost limitation.

Objectives: The goal of this PA is to encourage development of health research that integrates knowledge from the biomedical and social sciences. This involves the further development of health-related social science research relevant to the missions of the NIH Institutes and Centers (ICs) and the development of multi- or interdisciplinary research that blends the theories and approaches of the social and biomedical sciences. This program announcement invites applications for research on the social and cultural dimensions of health in five areas: basic social and cultural constructs and processes used in health research; etiology of health and illness; consequences of poor health for individuals and social groups; linking science to practice to improve prevention, treatment, health services, and dissemination; and ethical issues in social and cultural research.

NSF, Methodology, Measurement and Statistics—General Research and Infrastructure Activities [76933]
Deadline: 01/16/08
Scope: The sponsor supports the development of innovative methods and models for the social and behavioral sciences.

Objectives: The sponsor supports a broad portfolio of research and infrastructure activities that fall within the following areas: The development, application, and extension of formal models and methodology for social and behavioral research, including methods for improving measurement. The proposed research must have implications for one or more of the social and behavioral sciences. The development of formal models that cross traditional disciplinary boundaries, including research on statistical methodology or statistical modeling having direct implications for one or more of the social and behavioral sciences.

Research on methodological aspects of new or existing procedures for data collection, including methodology for survey research, and research to evaluate or compare existing data bases and data collection procedures. The collection of unique databases with cross disciplinary implications, especially when paired with developments in measurement or methodology. The organizational infrastructure of social and behavioral research.

NSF, Behavioral Systems [91747]
Deadline: 01/12/08
Scope: The sponsor supports research on the development, function, mechanisms and evolutionary history of behavior, with emphasis on a vertically integrated understanding of the behavioral phenotype.

Objectives: The sponsor supports research on the development, function, mechanisms, and evolutionary history of behavior, with emphasis on a vertically integrated understanding of the behavioral phenotype. To foster this integrative goal, the sponsor specifically encourages projects that seek to understand how combinations of neural, hormonal, physiological, and developmental mechanisms act synergistically as a system from which behavior emerges.

NSF, Sociology [25922]
Deadline: 10/15/07, 01/15/08, 02/15/08
Scope: Support is provided to universities and colleges, nonprofit, nonacademic organizations, for-profit organizations, state and local governments, and unaffiliated individuals 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.
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.

### ORSP Contact Information

#### PRE AWARD

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#### POST AWARD

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