SUNY Oswego’s Project SMART is a year-round, collaborative professional development program aimed at improving interdisciplinary core area instruction (aligned with the NYS Learning Standards) for K-12 students.

**Purpose.** Project SMART participants do more than merely learn about teaching strategies and content; they become Project SMART teacher-leaders. As a local superintendent once stated, “If I want to get something done, I know I can count on a Project SMART teacher.” For more than 17 years Project SMART has been providing intensive, long-term, sustained professional development. In this seamless learning community pre-teachers, teachers, administrators, and IHE faculty participate in joint inquiry projects to identify, adapt, implement, and assess proven teaching strategies for helping all students learn the content and skills defined by the New York State Learning Standards. In a rigorous re-view of research-supported professional development models, Wilson and Berne (1999) identified three themes that run across the most respected professional development programs in the country: these projects involve communities of learners that are redefining teaching practice;” they develop programs where “teacher learning is activated, rather than bound and delivered;” and they “privilege teachers” interact with each other” (pp. 194-195). The purpose of Project SMART reflects this research: to provide the highest quality on-site and cross-site professional development opportunities aimed at the simultaneous renewal of K-12 teachers, pre-teachers, and higher education faculty.

**Goals and Intended Outcomes.** Project SMART will continue to build teacher-leaders to help all students achieve high standards of learning. Through on-going, school-based, academic year support, an intensive annual Project SMART Summer Institute for our partners, and a year-round statewide Professional Development School support network. We will:

1. Deepen our existing professional development partnerships with rural and urban high needs schools in order to improve teaching strategies grounded in scientifically based research for increasing student achievement for all students in core curriculum areas. In 2005-6 these include: Huntington K-8*, Delaware* ES and Henninger* HS in the Syracuse District; The Onondaga Nation School* in Onondaga County; MS 56* and PS 188* in Manhattan (District 1); and Altmar/Parish Williamstown District* in Oswego County. * indicates high need school or district.

2. Strengthen a culture of inquiry that includes on-going data driven assessment and decision-

(Continued on page 4)
The mission of the Arts Program is to foster the growth of new artists, invest in established artists and expand access to the arts. As one of the primary outlets of human creativity, art is a vital resource in developing and maintaining healthy communities.

As school budgets are often short on cultural opportunities, the foundation will favor educational programs that encourage students to release their creativity, inspire them to learn and empower them with achievement. The Foundation supports innovation and creativity in the arts, and is particularly interested in encouraging emerging artists and inspiring the development of new artistic work.

Frances Blakemore Asian Art Grants [53569]
Deadline: 11/01/05
Scope: Support is provided to tax-exempt organizations in the U.S., such as museums, universities and other educational or art-related institutions, for programs or activities to improve the understanding of Asian fine arts in the U.S.
Objective(s): The program is designed for institutions which have programs, exhibits or publications dealing with the fine arts of Asia. Asia is limited to the countries of China, Japan, Korea, Burma, Cambodia, Indonesia, Laos, Thailand, Malaysia, Vietnam, Philippines, Mongolia and Tibet. Fine arts refer to paintings, graphic arts, ceramics, sculpture and textiles.

Puffin Foundation [84895]
Deadline: 12/30/05
Scope: The sponsor provides funding to encourage emerging artists in the fields of art, music, dance, photography, theater, and literature whose works, due to their genre and/or social philosophy might have difficulty being aired.
Funds: Average grants range from $1,000 to $2,500.

American Music Center [76596]
Deadline: 11/01/05
Scope: The purpose of the Fund is to support and encourage public performances and recordings of Henry Cowell’s music.

The Fund will award a total of approximately $10,000 - $20,000 biennially to individuals and organizations through this program. Modest grants will generally range from $500 - $5,000.
Objective(s): The purpose of the Fund is to support and encourage public performances and recordings of Henry Cowell’s music. Grants will be awarded on the basis of the artistic quality and performance history of the performing artist(s) or ensemble; the feasibility of the project, including timetable, financial ability to carry the project to completion, and commitments from performers and venues; and the breadth of the potential audience.

Research on Individualized Education (DOEd) [29356]
Deadline: 11/17/05
Scope: The Education Department’s Institute of Education Sciences invites applications for special education research on individualized education programs (IEP).
Funds: Awards vary in size by generic goals consistent across IES programs and scope. Goals applicable to this competition include: - Identification studies — $100,000 to $250,000 a year each in total direct/indirect costs for one to two years. - Development projects — $150,000 to $500,000 each in total costs for two to three years. - Efficacy and replication trials — $250,000 to $750,000 a year each in total costs for up to four years (applicants must argue a compelling case larger budgets). - Effectiveness evaluations of interventions implemented at scale — usually less, but possibly up to $6 million in total costs over five years.
Objective(s): The IES is interested in: developing practices, programs or systems designed to enhance the abilities of education practitioners and administrators to create, implement and monitor appropriate and effective IEPs for students with disabilities pre-K through high school; determining the efficacy of those practices, programs or systems; and providing evidence of their effectiveness when implemented at scale. The program encourages proposals to develop and evaluate professional development that focus on assessment, curriculum planning, intervention strategies and goal-setting targeting specific disabilities and exploiting the best science in each area. Examples of other interests are proposals to develop and test systems for managing and monitoring the IEP process and proposals to develop and validate templates for IEPs that are appropriate for various types of disabilities.

American History and Civics Initiative (CPB) [84541]
Deadline: 11/01/05
Scope: The sponsor will award $2 million in grants to forge unique and sustainable partnerships to create innovative, multi-platform projects that measurably improve learning in the areas of American history and civics.
Objective(s): The sponsor aims to use its educational mandate, research, and creative capacity to address critical shortfalls in middle and high school students' knowledge of American history, our political system, and their roles as citizens. The objective of the program is to catalyze new partnerships among public television, filmmakers and other content developers, the education community, the high technology sector, and others to design new, groundbreaking media projects that measurably improve the learning of American history and enhance civic participation among middle and high school students.

The sponsor welcomes proposals that enhance the teaching and learning of key events, persons, documents, movements, ideas, values, and principles that are fundamental to who we are as Americans. Partnerships could include an array of players including—but not limited to—a public television station or consortium of stations; production companies; experts in new technologies; high technology companies (web, new media, computer games, etc.); curriculum developers; textbook publishers; think tanks; educational/service professionals or associations; national, state, or local educational boards; parent organizations; teachers and/or teachers unions; or history and civic-related non-profit groups.

American Educational Research Association [64551]
Deadline: 03/01/06
Scope: The sponsor provides support for research studies of education policy or practice using quantitative methods which include the analysis of data from at least one of the large-scale, national or international data sets supported by NCES or NSF.
Funds: Awards for Research Grants are up to $20,000 for one-year projects, or up to $35,000 for two-year projects.
Objective(s): The sponsor invites educa-
An Eye on Funding (continued)

tional policy-related research proposals using NCES, NSF, and other national data bases. Research topics may cover a wide range of policy-related issues that include but are not limited to: school persistence and career entry; teachers and teaching, including supply, quality, and demand; policies and practices related to achievement; policies and practices that influence student and parental attitudes; contextual factors (individual, curricular, and school related) in education; education in middle schools; educational participation and persistence (kindergarten through graduate school); at-risk students; early childhood education; US education in an international context; school finance; materials (curriculum) development, research and informal science education; undergraduate science, engineering, and mathematics education; the supply (pipeline) of students taking mathematics and science courses from K-12; research career development; the quality of educational institutions; and methodological studies.

Education Program Grants (NIDDK) [80659]
Deadlines: 02/01/06, 06/01/06, 10/01/06, 02/01/07, 06/01/07

Scope: The sponsor provides support for the development of flexible, curriculum-driven programs which aim to create educational opportunities that will attract undergraduate and graduate students and postdoctoral fellows to careers in areas of biomedical or behavioral research of particular interest to the sponsor and foster their career development.

Funds: The total annual requested direct costs on the R25 grant are limited to $100,000.

Objective(s): The Education Program grants (R25s) support the development and implementation of curriculum-dependent programs that may focus on educational activities before, during or after the completion of a doctoral level degree (e.g. Ph.D., M.D., D.P.H., D.D.S., O.D.) as long as they address a need that is not fulfilled adequately by any other grant mechanism available from the NIH and are dedicated to areas of high priority to the sponsor. The R25 grant may not be used to conduct traditional biomedical research or as a research training grant. The principal objective of this PAR is to develop the means to attract students (undergraduate and graduate) and/or postdoctoral fellows to sponsor-relevant research. In particular, the participation of students from scientific disciplines that are underrepresented in many disease-oriented biomedical research programs should be encouraged. Programs should also focus on attracting underrepresented minority students and postdoctoral fellows to sponsor-relevant research. The sponsor is especially interested in attracting students and postdoctoral fellows from scientific disciplines underrepresented in disease-oriented biomedical research such as engineering, informatics, computer science, and computational sciences, and encouraging them to apply their expertise to research relevant to diabetes and other endocrine and metabolic diseases, digestive diseases and nutrition, obesity research and prevention, and kidney, urologic and hematologic diseases.

HEALTH

School-Based Interventions to Prevent Obesity (NICHD) [80626]
Deadlines: 2/1/06, 06/01/06, 10/01/06, 02/01/07, 06/01/07, 10/01/07

Scope: The sponsor offers support for the formation of partnerships between academic institutions and school systems in order to develop and implement controlled, school-based intervention strategies designed to reduce the prevalence of obesity in childhood. This PA will use the NIH Research Project Grant (R01), Small Grant (R03) and Exploratory/Developmental Grant (R21) award mechanisms.

Objective(s): This initiative encourages evaluative comparisons of different intervention strategies, as well as the use of methods to detect synergistic interactions between different types of interventions. Possible areas within the school system that might be targeted for controlled interventions include the content of school curricula, teaching methodologies, staff education, physical education programs, the school environment, school food service programs, food service worker education, content and availability of vending machine snacks in school, school administrators, and parents.

Examples of research projects that would be responsive to this solicitation include, but are not limited to: curriculum changes designed to improve knowledge of healthy food choices and active lifestyles, and behavioral modification programs designed to attain healthy diets and active lifestyles.

Specifically, this initiative encourages academic institutions and school systems to work together to develop and implement behavioral interventions designed to increase children's physical activity and/or decrease the amount of time that children devote to sedentary activities, such as watching television or playing computer games. Such interventions might involve curriculum changes or curriculum changes coupled with periods of increased physical activity, either before, during or after school. Interventions also might be designed to reduce and maintain long-term behavioral change regarding eating habits, food choices, exercise habits, and lifestyle; evaluations of various controlled dietary interventions would also be responsive to this PA, for example, changes in school food service programs for school breakfast and/or school lunch. Intervention programs designed for parents who prepare their children's lunches would also be responsive.

Understanding Mechanisms of Health Risk Behavior Change in Children and Adolescents (NICHD) [80160]
Deadlines: 02/01/06, 06/01/06, 10/01/06, 02/01/07

Scope: The sponsors offer support for research that will enhance understanding of the factors and mechanisms that determine changes in health risk behaviors during childhood and adolescence. This PA will use the NIH Research Project Grant (R01) and Exploratory/Developmental Grant (R21) award mechanisms.

Funds: This PA will use the NIH Research Project Grant (R01) and Exploratory/Developmental Grant (R21) award mechanisms. For the R21 award, the applicant may request a project period of up to two years with a combined budget for direct costs of up to $275,000 for the two-year period. For example, the applicant may request $100,000 in the first year and $175,000 in the second year. The request should be tailored to the needs of the project. Normally, no more than $200,000 may be requested in any single year.

Objective(s): The concept of health risk behavior change is used in this program announcement to encompass the evolution of specific health impairing behaviors. Of particular interest are factors and processes that influence the initiation, continuation, and/or cessation of one or more of the following health risk behaviors: substance abuse; inadequate exercise and poor dietary (Continued on page 6)
4. Increase our current efforts at teacher recruitment and retention especially through the efforts of the Center for Urban Schools (now institutionalized and completely supported by SUNY Oswego School of Education funding rather than TLQP), and professional development training through programs such as: GESA, Data Strategies, Data Not Guesswork, Framework for Understanding Poverty, and the Annual National PDS conference.

5. Nurture a cross-site, learning community of educators committed to achievement of all students via the annual 40-hour Summer Institute, ongoing IHE faculty support for 2005-6 in at least eight of our partner schools (Huntington*, Henninger*, Delaware*, JHS 56*, Onondaga Nation School*, Lanigan, Parish*, and APW MS), and maintain involvement with the New York Consortium for Professional Development (NYCPD) and other urban education partners.

6. Play a key role in statewide and national professional development initiatives (GESA, GESA for Parents, and SAGE training and follow-up, PDS benchmarking) with the K-16 Alliance and the NYCPD.

Implementation. In Project SMART’s model, site-based pre-teacher, teacher, administrator, and faculty teams form inquiry groups during the academic year to investigate, identify, adapt, implement, and assess scientifically-based-research supported strategies with the goal of helping all students meet high learning standards. These inquiry groups work in a number of ways through early morning, after school, or weekend meetings. They meet at school, in each other's homes, or attend workshops and conferences together. They meet weekly, bi-monthly, or monthly for at least 40 hours across the academic year. The focus of their investigation and core area curriculum link depends on the teachers' backgrounds, the needs identified in the district Professional Development Plans, and the identified needs of their students. Teacher teams collect data on their meetings, their professional growth, and their students’ performance on NYS Learning Standards assessments, and consider data along with information about proven teaching strategies to plan their activities in their classrooms and school.

Members of Project SMART’s site-based teacher teams (50-75 people) congregate each summer for an intensive, 40-hour Project SMART Summer Institute. During the Institute, these teams form an inter-school district learning community for sharing their professional development and curricular progress within the framework of a three semester-hour graduate course. The focus of the course each summer evolves from the academic year work of the teacher teams, and focuses on a synthesis of core area curriculum, computer technology supported instruction, equity, and effective pedagogy. All teams maintain involvement with the New York Consortium for Professional Development (NYCPD) and other urban education partners. Project SMART teachers often play leadership roles in their schools and districts. Within our professional development efforts teachers learn to apply research based pedagogical strategies that are effective within given contexts and focused on equitable outcomes. All teams will focus on using disaggregated student achievement data to assess their efforts during the 2005-6 and subsequent grant years.

2005 Summer Institute with a waiting list beyond that number. Teams from NYC, the Syracuse City School District, and Oswego County will participate. Project SMART teachers embrace teaching for inquiry; they are committed to teaching for diversity; they show their students how content is applied in real world settings through well-planned field excursions; they use the latest computer technology to provide integrated curriculum instruction; and they tie their curriculum development to NYS Learning Standards and Assessments. As a result of this, Project SMART teachers often play leadership roles in their schools and districts.

In particular, they will discuss how to access information about grants and research opportunities that are on the internet. Also, the various types of internal grants that are available will be discussed.

Let Linda (lcook@oswego.edu) know if you are unable to attend and would like to receive a handout.
Campus News—Student SCAC Awards

**Graduate & Undergraduate Scholarly & Creative Activity Awards**

This program is to support and foster graduate and undergraduate student scholarly and creative activities done in collaboration with a SUNY Oswego faculty or staff sponsor.

**Deadline:** Monday, November 14, 2005, 4:30 p.m. The link to the on-line application form will not be available after this time.

**Funds:** The maximum award will be $1,000. Funds may be used for supplies, stipends, software, equipment or other expenses directly related to the proposed scholarly and creative activity.

**Eligibility:** Graduate students formally accepted into a graduate program and undergraduate students in their freshman, sophomore, junior or senior years at SUNY Oswego may apply.

**Notes:** The on-line form can be found at [http://www.oswego.edu/administration/ORSP/](http://www.oswego.edu/administration/ORSP/). Click on “Campus Grants & Awards”, then “Students”, then “0506 Graduate & Undergraduate Scholarly & Creative Activity Awards”.

Students must secure a faculty sponsor and provide them with the Faculty Sponsor form which can be found with the application.

Any proposal that also meets the criteria for the Helen Bohmer Daly Memorial Research Grant, will also be considered under these criteria.

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**Campus Grants Timeline**

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

<table>
<thead>
<tr>
<th>PROGRAM</th>
<th>DEADLINE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Graduate &amp; Undergraduate Scholarly &amp; Creative Activity Grants</td>
<td>November 14, 2005</td>
</tr>
<tr>
<td>President’s Award for Scholarly &amp; Creativity and Research</td>
<td>January 2006</td>
</tr>
<tr>
<td>Provost’s Award for Scholarly &amp; Creativity and Research</td>
<td>January 2006</td>
</tr>
<tr>
<td>Faculty Enhancement Scholarly &amp; Creative Activity Grants</td>
<td>February 2006</td>
</tr>
<tr>
<td>Faculty Enhancement SCAC New Faculty Incentive Grants</td>
<td>February 2006</td>
</tr>
<tr>
<td>Faculty Enhancement Course Development Grants</td>
<td>February 2006</td>
</tr>
<tr>
<td>Faculty Enhancement Program Innovation Grants</td>
<td>February 2006</td>
</tr>
<tr>
<td>Student/Faculty Collaborative Challenge Grants</td>
<td>February 2006</td>
</tr>
</tbody>
</table>
practices as they relate to being overweight or obese; and intentional and unintentional injuries. The goal of this PA is to promote optimal physical and mental health in children and adolescents. This may be accomplished by research to enhance our understanding of the origin, evolution, and termination of health risk behaviors and, ultimately, by the development of effective prevention and intervention strategies designed to maintain healthy behaviors and prevent health risk behaviors. Interdisciplinary research is sought to explore the biological, genetic, physiological, psychological, and social/environmental factors and mechanisms that influence health risk behavior change in children and adolescents. A better understanding of theory-driven, causal pathways and recognition of mediators and moderators will aid in the identification of the etiology of health risk behaviors, precursors of health risk behaviors, and associated risk and resilience factors. The research findings will have the potential to inform the development of more comprehensive and effective prevention and intervention strategies in the fields of substance abuse, obesity, and injuries. Studies of interest may be observational, epidemiological, interventional, secondary data analyses (i.e., analysis of existing data), and cost/benefit analyses. A multidisciplinary approach is encouraged and research findings from fields such as developmental pediatrics, psychology, behavioral science, neuroscience, neuropsychology, business, education, public policy, and others will be considered. Focus areas of interest to the sponsors are: biological influences; psychological influences; contextual influences; and co-occurring health behaviors.

HUMANITIES

Wilbur Foundation [29183]
Deadline: 12/31/05
Scope: The sponsor provides funding in the field of humanities, especially history, literature, religion, and philosophy, for projects that are calculated to enhance or preserve the "permanent things" of society.
Funds: Funding for grants will commence July 1st, the year of approval. Normally, grants are paid quarterly over the ensuing twelve months.

Librarians for the 21st Century [73242]
Deadline: 12/15/05
Scope: The sponsor provides support to recruit and educate the next generation of librarians and the faculty who will prepare them for careers in library science. It also supports grants for research related to library education and library staffing needs, curriculum development, and continuing education and training.
Funds: Amount of grants will range from $50,000 to $1 million for a grant period of up to three years. Matching requirements are fifty percent of total project costs, excluding funds requested for student support.
Objective(s): Priorities for funding are as follows:
Priority 1: Master’s Level Programs -- Educate the next generation of librarians. In particular, increase the number of students enrolled in nationally accredited graduate library programs preparing for careers in libraries.
Priority 2: Doctoral Programs -- Develop faculty to educate the next generation of library professionals. In particular, increase the number of students enrolled in doctoral programs that will prepare faculty to teach master’s students who will work in school, public, and academic libraries. Develop the next generation of library leaders. In particular, increase the number of students enrolled in doctoral programs that will prepare them to assume positions as library managers and administrators.
Priority 3: Pre-Professional Programs -- Recruit future librarians. In particular, attract promising high school and college students to consider careers in librarianship through recruitment strategies that are cost effective and measurable.
Priority 4: Research -- Provide the library community with information needed to support successful recruitment and education of the next generation of librarians. In particular, through funded research, establish baseline data on professional demographics and job availability, and evaluate current programs in library education for their capacity to meet the identified needs.
Priority 5: Programs to Build Institutional Capacity -- Develop or enhance curricula within graduate schools of library and information science. In particular, these programs develop or enhance courses or programs of study for library, museum, and archives professionals in the creation, management, preservation, presentation, and use of digital assets. Develop or enhance courses or programs of study related to the development of critical thinking skills, such as organization leadership and research methods. Broaden the library and information science curriculum by incorporating perspectives from other disciplines and fields of scholarship, such as public policy, ethics, American studies, urban planning, mass communication, and instructional design.
Priority 6: Continuing Education and Training -- Develop or enhance programs of continuing education and training in library and information science for librarians and library staff.

Major Grants (New York Council for the Humanities) [02050]
Deadline: 11/01/05
Scope: The sponsor provides support of at least $2,500 to New York non-profit, tax-exempt organizations for humanities projects.
Funds: 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.
Objective(s): 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,
institutions and organizations secure long-term improvements in and support for their humanities programs and resources. Awards are made to museums, public libraries, colleges, research institutions, historical societies and historic sites, public television and radio stations, universities, scholarly associations, state humanities councils, and other nonprofit entities. Because of the matching requirements, these awards also strengthen the humanities by encouraging nonfederal sources of support. Challenge grants are offered only when sponsor funds will help institutions carry out long-term plans and enhance their financial stability. Both federal and nonfederal funds must provide long-term benefits to the humanities. Challenge grant funds should not merely replace funds already being ex-

"The only way to discover the limits of the possible is to go beyond them into the impossible." Arthur C. Clarke

Eye on Funding (Continued from page 6)

and interdisciplinary areas such as folklore, women’s studies, and American studies also are considered humanities disciplines.

**Challenge Grants (NEH-NFAH) [00607]**

**Deadline:** 11/01/05

**Scope:** The sponsor provides support to help institutions and organizations secure long-term improvements in and support for their humanities programs and resources. These challenge grants require applicants to match federal funding.

**Funds:** The requested grant amount should be appropriate to the humanities needs and the fund-raising capacity of the institution. The federal portions of challenge grants have ranged in recent years from $30,000 to $700,000. Although up to $1 million may be requested, final awards larger than $500,000 are unusual. The federal portion of a challenge grant is offered over three years, but the period allowed for raising matching funds is 56 months. Federal funds are released as fund-raising proceeds, according to a formula that allows donations from as early as five months prior to the application deadline and can include donations from as late as one year beyond the last-released federal funds. The first year’s allocation will be released as matched one-to-one. Allocations for the second and third years will be released as matched one-to-one but only after the remaining prior-year’s match is completed.

**Objective(s):** Challenge grants help institutions and organizations secure long-term improvements in and support for their humanities programs and resources. Awards are made to museums, public libraries, colleges, research institutions, historical societies and historic sites, public television and radio stations, universities, scholarly associations, state humanities councils, and other nonprofit entities. Because of the matching requirements, these awards also strengthen the humanities by encouraging nonfederal sources of support. Challenge grants are offered only when sponsor funds will help institutions carry out long-term plans and enhance their financial stability. Both federal and nonfederal funds must provide long-term benefits to the humanities. Challenge grant funds should not merely replace funds already being ex-

Chancellor’s Awards for Excellence—Distinguished Professorships

Nominations for 2005-2006 Chancellor’s Awards for Excellence; nominations for Distinguished Professorships

Each year the State University of New York recognizes outstanding scholarship and creative activity, faculty service, teaching, librarianship, and distinguished service and research through the conferral of Chancellor’s awards for excellence and the appointment of faculty to distinguished professorships.

SUNY Oswego is authorized to submit three nominations for the Chancellor’s Awards for Excellence in Librarianship, Excellence in Scholarship and Creative Activity, and Excellence in Faculty Service.*

In addition, one nomination each is authorized for the Distinguished Teaching Professorship and the Distinguished Service Professorship. The latter constitutes elevations in rank for Full Professor to Distinguished Professor.

Anyone interested in making nominations can review and download guidelines from the SUNY Provost’s website:

http://www.sysadmin.suny.edu/provost/facultyawards.htm

A call for nominations to serve on the Chancellor’s Awards campus review committee will be distributed shortly. This committee will meet in early February to consider nominations and forward recommendations to the President.

The nominator is responsible for submitting all credentials and supporting materials to the Office of the Assistant Provost by Friday, December 9, 2005.

You may address questions about the Chancellor’s awards nomination and review process to in care of the Assistant Provost.

*Not listed here is the Chancellor’s Award for Excellence in Professional Service, administered through the Office of Student Affairs.

"The only way to discover the limits of the possible is to go beyond them into the impossible." Arthur C. Clarke

**Eye on Funding (Continued from page 6)**

and interdisciplinary areas such as folklore, women’s studies, and American studies also are considered humanities disciplines.

**Challenge Grants (NEH-NFAH) [00607]**

**Deadline:** 11/01/05

**Scope:** The sponsor provides support to help institutions and organizations secure long-term improvements in and support for their humanities programs and resources. These challenge grants require applicants to match federal funding.

**Funds:** The requested grant amount should be appropriate to the humanities needs and the fund-raising capacity of the institution. The federal portions of challenge grants have ranged in recent years from $30,000 to $700,000. Although up to $1 million may be requested, final awards larger than $500,000 are unusual. The federal portion of a challenge grant is offered over three years, but the period allowed for raising matching funds is 56 months. Federal funds are released as fund-raising proceeds, according to a formula that allows donations from as early as five months prior to the application deadline and can include donations from as late as one year beyond the last-released federal funds. The first year’s allocation will be released as matched one-to-one. Allocations for the second and third years will be released as matched one-to-one but only after the remaining prior-year’s match is completed.

**Objective(s):** Challenge grants help institutions and organizations secure long-term improvements in and support for their humanities programs and resources. Awards are made to museums, public libraries, colleges, research institutions, historical societies and historic sites, public television and radio stations, universities, scholarly associations, state humanities councils, and other nonprofit entities. Because of the matching requirements, these awards also strengthen the humanities by encouraging nonfederal sources of support. Challenge grants are offered only when sponsor funds will help institutions carry out long-term plans and enhance their financial stability. Both federal and nonfederal funds must provide long-term benefits to the humanities. Challenge grant funds should not merely replace funds already being ex-
An Eye on Funding (Continued from page 7)

Funds: In 2004, the Foundation made 110 grants totaling $3,802,650.

Research Grants (National Academic Advising Association) [66444]
Deadline: 11/01/05
Scope: Support is provided for proposals contributing to the field of advising-related research. Practicing professionals (administrators and faculty) as well as graduate students seeking support for dissertation research are eligible.
Funds: Up to $5,000 may be awarded to support a single proposal. Multiple-year awards are also granted.
Objective(s): The sponsor makes grants in the areas of education, workforce and economic development, civil legal services, criminal justice, reproductive rights, and the environment.

Global Population Health Research Training (NIH) [2936]
Deadlines: 12/13/06 for letters of intent; 01/13/06 for applications.
Scope: The National Institutes of Health invites applications for advanced training of population health researchers from low- and middle-income countries.
Funds: $1.5 million for six to eight awards of up to $139,000 in direct costs for new applications and $185,000 each for recompeting applications.
Objective(s): The program aims to build research capacity in developing countries to address: population health issues, including demographic processes (aging, child health, adult health, mortality, morbidity, fertility, migration, urbanization and social, behavioral and economic factors that influence population dynamics); as well as reproductive processes, fertility and contraceptive development.

Center for Credit Union Research [18435]
Deadline: 12/31/05
Scope: Support is provided for research projects that simultaneously provide material for academic publication and material that provides meaningful and compelling findings for credit union practitioners, financial consumers, and policy-makers.
Objective(s): The sponsor carries out its work by contracting with researchers in a variety of fields, which include management, human resources, marketing, accounting, finance, entrepreneurship, economics, consumer science, actuarial science, and statistics. At the present, the sponsor is interested in projects dealing with mergers and long-term business relationships.

Scholarly Sabbatical Grant (Society for Academic Emergency Medicine) [68657]
Deadline: 11/03/05
Scope: The sponsor offers a sabbatical grant to provide the opportunity for an individual to learn unique research or educational methods or procedures which require day-to-day, in-depth training under the direct supervision of a knowledgeable mentor.
Funds: The grant will be awarded at a rate of up to but not greater than $10,000 per month for not less than two months and not less than $5,000 per month for not more than twelve months of support. Fringe benefits should be twenty percent of the requested salary. Specifically, funds can be used for payment for clinical release time, for living expenses, and for purchase of supplies and other resources needed for the successful completion of the sabbatical period.
Objective(s): This program is intended to enhance the academic potential and career of an individual emergency medicine academician and to stimulate the academic growth of his or her department. Its specific purposes are: to provide the opportunity for an individual to learn unique research or educational methods or procedures which require day-to-day, in-depth training under the direct supervision of a knowledgeable mentor; to develop a knowledge base that can be shared with the home Department to further enrich its scholarly endeavors; and to ultimately enhance the academic development of the specialty of Emergency Medicine.

Summer/Short-Term Research Publication Grants (AAUW) [15276]
Deadline: 11/15/05
Scope: The sponsor provides support for women college and university faculty and independent researchers to prepare research for publication. Applicants must be U. S. citizens or permanent residents.
Funds: Awards of $6,000 are available for an eight-week period.
Objective(s): The sponsor provides support to prepare research for publication.

Goodman (Andrew) Foundation [79518]
Deadline: 11/15/05
Scope: The sponsor considers proposals from projects that are: working against oppression based on class, race, gender, and social issues; organizing in communities and workplaces around basic social and economic issues; limited in their access to traditional funding sources; and involving...
An Eye on Funding (Continued from page 8)

youth in community and government activities.
Funds: Grants generally range from $100 to $1,000.
Objective(s): The sponsor’s areas of interest include: civil and human rights; constituency organizing; cultural activism; economic justice; performing arts; youth activism.

Research on High School Reform (Department of Education) [85244]
Deadline: 11/10/05
Scope: Support is provided for research on approaches, programs, and practices that enhance the potential of at-risk students to complete high school with the skills necessary for success in the workplace, college, or the military. The long-term goal of the program of Research on High School Reform is to provide an array of effective high school reform practices that have been shown to be effective for improving student outcomes.
Funds: The size of the award depends on the scope of the project:
Typical awards for projects under Goal One are $100,000 to $250,000 (total cost) per year for one or two years. The size of the award depends on the scope of the project.
Typical awards for projects under Goal Two are $150,000 to $500,000 (total cost) per year for two to three years. The size of the award depends on the scope of the project.
Typical awards for projects under Goal Three will be $250,000 to $750,000 (total cost) per year for up to four years. Larger budgets will be considered if a compelling case can be made for such support. The size of the award depends on the scope of the project.
Awards for Goal Four projects may go up to a limit of $6,000,000 (total cost) over a five year period. Typical awards are less. Awards depend in part on the number of sites, cost of data collection, and cost of implementation. The size of the award depends on the scope of the project.
Typical awards under Goal Five will be $150,000 to $400,000 (total cost) per year for up to four years. Larger budgets will be considered if a compelling case can be made for such support. The size of the award depends on the scope of the project.
Objective(s): This research program is designed to support crosscutting reform efforts. It will complement the Institute’s existing research programs on teacher quality, education in the core academic disciplines, and finance and management, each of which includes high school education. For the Research on High School Reform initiative, the Institute is interested in approaches, such as mentoring and structural reforms, that can augment the effects of better instruction and higher quality teachers in the core academic subjects by serving the needs of students who are poorly prepared academically and motivationally for the demands of high school.

Modeling Life-Cycle Engineering (NSF) [2937]
Deadline: 03/01/06
Scope: The National Science Foundation seeks applications for research projects to advance the knowledge base needed to support high-fidelity computer modeling and simulation capabilities for engineering sciences, decision making and manufacturing.
Funds: $3 million for eight to 12 awards. With Sandia National Laboratories, focuses on four areas: thermal transport and fluid mechanics; solid mechanics and structural dynamics; icro/nanoscale phenomenology and metrology; predictive modeling for manufacturing and process optimization; and micro/nanomanufacturing technologies.

Methodology and Measurement in the Behavioral and Social Sciences (NIH) [65684]
Deadlines: 02/01/06, 06/01/06, 10/01/06, 02/01/07, 06/01/07, 10/01/07, 02/01/08
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.
Funds: This PA will use the NIH R01, R03, and R21 award mechanisms and competitive supplements to funded R01, R37, R01 and U01 awards. The NIH Small Research Grant (R03) mechanism should be used for support of pilot and/or feasibility studies for concepts that are sound and justifiable, but not sufficiently developed for the R01 (research project grant) mechanism. A project period of up to two years and a budget for direct costs of up to $50,000 per year may be requested for the R03 mechanism. The NIH Exploratory/Developmental Research Grant (R21) mechanism is intended to encourage new exploratory and developmental research projects and/or exploration of novel hypotheses or strategies. The applicant may request a project period of up to two years with a combined budget for direct costs of up to $275,000 for the two year period. For example, the applicant may request $100,000 in the first year and $175,000 in the second year. The request should be tailored to the needs of the project. Normally, no more than $200,000 in direct costs may be requested in any single year. For this Program Announcement, the competitive supplement mechanism is intended to add a component of methodological development to a current NIH award. Facilities and administrative costs requested by consortium participants are not included in the direct cost limitation.
Objective(s): 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 eco-
Objective(s):

The sponsor offers support for new initiatives that offer promising models for replication and address critical issues in education and international affairs, public service, environment and natural resources management, and human rights. **Objective(s):** The sponsor focuses its grant-making in the following four areas, giving priority consideration to programs of national significance and/or scope or to those which offer promising models for replication: education and advanced research in international affairs; public service; environment and natural resource management; and human rights. Priority is given to programs in human rights and international affairs. The environment and public service programs have been greatly reduced.

**Analysis of Existing Justice Data (DoJ/NIJ) [2937]**

**Deadline:** 11/15/05, but prospective applicants should register as soon as possible with the agency’s automated grants management system.

**Scope:** The Justice Department’s National Institute of Justice invites proposals to replicate findings from previous research or conduct original research using date from the National Archive of Criminal Justice Data.

**Funds:** Up to $35,000 each.

**Objective(s):** NIJ is particularly interested in secondary analysis that informs criminal justice policy and practice and addresses compelling crime/justice questions.

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**Captain Planet Foundation [67603]**

**Deadlines:** 12/31/05, 03/31/06

**Scope:** The sponsor’s mission is to fund and support hands-on environmental projects for children and youth.

**Funds:** The range of grants awarded by the sponsor is generally $250 to $2,500. Grants for organic gardens are generally no more than $500; adopt-a-stream no more than $400.

**Objective(s):** The sponsor seeks to encourage innovative programs that empower children and youth around the world to work individually and collectively to solve environmental problems in their neighborhoods and communities. All projects must: promote understanding of environmental issues; focus on hands-on involvement; involve children and young adults age six through eighteen (elementary through high school); promote interaction and cooperation within the group; help young people develop planning and problem solving skills; include adult supervision; and commit to follow-up communication with the sponsor.

**Research Initiation Grants (Society of Manufacturing Engineers (SME) Education Foundation) [30672]**

**Deadline:** 01/01/06

**Scope:** Support is provided to expand the research activities of manufacturing educators.

**Funds:** Grants will provide seed money for the development and definition of research projects in manufacturing. Faculty salary benefits, student assistant salaries, supplies, and materials required for prototype development may be included.

**Objective(s):** Grants give faculty members the resources to conduct preliminary research on an idea that has the potential to be submitted to a major funding agency. Subjects for consideration include, but are not limited to the following: manufacturing processes; manufacturing systems; and human factors.

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

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

**Deadline:** 12/01/05

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

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**Captain Planet Foundation [67603]**

**Deadlines:** 12/31/05, 03/31/06

**Scope:** The sponsor's mission is to fund and support hands-on environmental projects for children and youth.

**Funds:** The range of grants awarded by the sponsor is generally $250 to $2,500. Grants for organic gardens are generally no more than $500; adopt-a-stream no more than $400.

**Objective(s):** The sponsor seeks to encourage innovative programs that empower children and youth around the world to work individually and collectively to solve environmental problems in their neighborhoods and communities. All projects must: promote understanding of environmental issues; focus on hands-on involvement; involve children and young adults age six through eighteen (elementary through high school); promote interaction and cooperation within the group; help young people develop planning and problem solving skills; include adult supervision; and commit to follow-up communication with the sponsor.

**Research Initiation Grants (Society of Manufacturing Engineers (SME) Education Foundation) [30672]**

**Deadline:** 01/01/06

**Scope:** Support is provided to expand the research activities of manufacturing educators.

**Funds:** Grants will provide seed money for the development and definition of research projects in manufacturing. Faculty salary benefits, student assistant salaries, supplies, and materials required for prototype development may be included.

**Objective(s):** Grants give faculty members the resources to conduct preliminary research on an idea that has the potential to be submitted to a major funding agency. Subjects for consideration include, but are not limited to the following: manufacturing processes; manufacturing systems; and human factors.

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**Analysis of Existing Justice Data (DoJ/NIJ) [2937]**

**Deadline:** 11/15/05, but prospective applicants should register as soon as possible with the agency’s automated grants management system.

**Scope:** The Justice Department’s National Institute of Justice invites proposals to replicate findings from previous research or conduct original research using date from the National Archive of Criminal Justice Data.

**Funds:** Up to $35,000 each.

**Objective(s):** NIJ is particularly interested in secondary analysis that informs criminal justice policy and practice and addresses compelling crime/justice questions.

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**Secondary Data Analyses Based on the NICHD Study of Early Child Care and Youth Development (NICHD) [83292]**

**Deadlines:** 02/01/06, 06/01/06, 10/01/06, 02/01/07, 06/01/07, 10/01/07, 02/01/08, 06/01/08

**Scope:** The sponsor offers support for research to address questions about family, child care, school, and child development through analyses of existing data sets from the NICHD Study of Early Child Care and Youth Development. In particular, the sponsor would like to see the data sets used by psychologists, sociologists, economists, statisticians, educators, policy makers, and physician scientists.

**Funds:** This PA will use the NIH Research Project Grant (R01) and the NIH Small Grant (R03) award mechanisms. Applicants for an R01 may request a period of support of up to five years. Applicants for an R03 award may request a project period of up to two years and a budget for direct costs of up to two $25,000 modules or $50,000 per year. Small grant support is for new projects only; competing continuation applications will not be accepted. 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. Facilities and administrative costs requested by consortium participants are not included in the direct cost limitation.

**Objective:** This initiative is aimed at encouraging scientists to answer their research questions pertaining to family, child care, school and child development by analyzing the detailed, comprehensive and well documented longitudinal data sets from the National Institute of Child Health and Human Development (NICHD) Study of Early Child Care and Youth Development (SECCYD). The sponsor expects that the use of data sets from the NICHD SECCYD will lead to original papers by scientists with different interests, trained in different disciplines. Research questions that may be answered with data from the NICHD SECCYD pertain to many topics including, but not limited to the following: family demographic characteristics and their stability over time; family social/psychological processes and their stability over time; social processes among the sub-sample of African American families; social processes in White families; patterns of mothers’ employment when their children are infants, toddlers, preschoolers and at school; the tapestry of childcare arrangements used for infants, toddlers and older children; child-adult interaction from infancy onwards; peer interaction; specific aspects of the child-rearing environment in the family context, in childcare and at school as predictors of theoretically relevant aspects of child development at one developmental period or over time; the quality of academic instruction; the quality physical education; the after-school experiences of children; developmental patterns of social, cognitive,
An Eye on Funding (Continued from page 10)

language, achievement and health outcomes; the relations between different outcomes (e.g., attention and sociability) as they unfold over time; and/or mediators and moderators of children's developmental outcomes.

SCIENCE

Systematic Biology and Biodiversity Inventories Cluster (NSF) [70415]

Scope: The sponsor supports the general science of systematics, whose three main missions are: to discover, describe, and inventory global species diversity; to analyze and synthesize the information derived from this global discovery effort into predictive classification systems that reflect the history of life; and to organize the information derived from this global program in efficiently retrievable forms that best meet the needs of science and society.

Objectives: Funding is provided under the following focus areas: Systematic Biology: Supports the scientific study of biological species diversity, and encompasses taxonomy, classification, and phylogenetics, for all groups of organisms and for all habitats on Earth, including marine environments. Activities include the discovery and description of species, the organization of taxonomic information into hierarchical predictive classifications associated with efficient, reliable identification keys, and the analysis of evolutionary relationships among groups of species and across the tree of life. Biodiversity Surveys and Inventories: Supports expeditionary work to discover, describe, and document plant, animal, and microbial diversity throughout the world, whether terrestrial, freshwater, or marine, and with emphasis on well-voucher natural history collections, or stocks and cultures including associated databases. Supported surveys may be primarily area-based (i.e., focusing on species inventory and discovery, including biogeographic or evolutionary hypothesis testing), clade-based (i.e., continental-scale to global species inventory for a particular taxonomic group), or guild-based (i.e., surveys that couple species inventory and discovery with ecological hypothesis testing).

Research and Education with Small Telescopes (NSF) [78647]

Deadline: 01/20/06

Scope: The sponsor provides funding and modest operational support for modern, instrumented telescopes in the range of 0.5 to 2.5 meters aperture to organizations or consortia presenting an integrated program of research, student training, and educational programming.

Funding: It is anticipated that $1.2 million (four to eight awards) will be available. Eligible projects include the following: acquisition of telescopes or necessary facility infrastructure, such as domes; instrumentation for new or existing telescopes; and refurbishment, improvements or enhancements of existing telescopes, instrument systems, telescope operations systems or other improvements that increase the telescope and instrument capabilities, including enhanced ease of visitor use. While the primary intent of this activity is to provide funds for facilities, the sponsor recognizes that many organizations or consortia may be unable to secure immediate funding for the full operational costs for such facilities. As a result, proposers may also request support for up to $50,000 per year in operating costs for facilities being constructed or enhanced through this program.

Objective(s): This program will provide funding and modest operational support for modern, instrumented telescopes in the range of 0.5 to 2.5 meters aperture to organizations or consortia presenting an integrated program of research, student training, and educational programming.

Radiation Belt Storm Probes Investigations and Geospace-Related Missions of Opportunity (NASA) [84885]

Deadline: 11/22/05

Scope: The sponsor will support an opportunity to conduct space science investigations through the Radiation Belt Storm Probes (RBSP) mission, which is part of the Living with a Star (LWS) Geospace Program. In particular, the opportunity is to provide understanding, ideally to the point of predictability, of how populations of relativistic electrons and ions in space are formed or changed in response to the variable inputs of energy from the Sun.

Objective(s): Of special interest are the controlling mechanisms of particle and field variations responsible for energetic particle acceleration, transport, and loss processes. Proposed investigations must provide identical pairs of individual instruments or identical pairs of suites of instruments. This program also invites proposals for Missions of Opportunity that effectively fulfill LWS Geospace specific objectives through an investigation that is carried on a mission sponsored by an organization other than the sponsor's Science Mission Directorate.

Rare Isotope Accelerator (DoE) [2937]

Deadline: 10/25/05

Scope: The Energy Department seeks proposals for research and development projects in identified areas and tasks related to an initiative to develop a new accelerator facility to address emerging research opportunities in nuclear structure, nuclear astrophysics, fundamental interactions and symmetries.

Funds: $4 million for multiple awards. The project period is one year with up to two years additional support for tasks requiring multyear effort.

Eligibility: DoE encourages collaboration among university, other nonprofits and industry.

Objective(s): Proposers should address one or more specific tasks within the following needs categories: beam simulation; front end; driver linac; isotope-separator-on-line; fragment separation-for fragment separators; fragment separation-for gas cell; post-acceleration; and enumerated multi user considerations.

Math, High-Performance Computing (DoE) [2937]

Deadline: 10/31/05 for required letters of intent; 01/31/06 for applications.

Scope: The Energy Department seeks applications in the beginning stages of academic careers in advanced mathematics and computer science.

Funds: $2 million for 20 awards up to $100,000 a year each for three years.

Eligibility: Applicants must hold a Ph.D. or equivalent degree and be employed full-time in a tenure-track position or equivalent position as assistant professor at a U.S. institution.

Objective(s): DoE encourages applications in certain areas.

- Applied mathematics—on the underlying basis and numerical algorithms for enabling effective description and prediction of important physical, chemical and biological systems, such as protein molecules.

- Computer science that focuses on program development and tools; operating system software and tools, visualization and data management systems; performance meas-
- High performance networks and middleware—such as, ultra high-speed network protocols; agile system-level optical networks; cybersecurity systems; high-performance middleware; and optimization techniques for complex networks.

**Physical Anthropology (NSF) [61319]**  
**Deadline:** 12/03/05  
**Scope:** Support is provided to universities and colleges, nonprofit, non-academic organizations, for-profit organizations, state and local governments, and unaffiliated individuals for research in physical anthropology.  
**Objectives:** The sponsor supports basic research in areas related to human evolution and contemporary human biological variation. Research areas supported by the program include, but are not limited to, human genetic variation, human adaptation, human osteology and bone biology, human and nonhuman primate paleontology, functional anatomy, and primate socioecology. Grants supported in these areas are united by an underlying evolutionary framework, and often a consideration of adaptation as a central theoretical theme. Many proposals also have a biocultural orientation.

**Tectonics (NSF) [61272]**  
**Deadline:** 12/01/05  
**Scope:** This program supports a broad range of field, laboratory, computational, and theoretical investigations aimed at understanding the evolution and deformation of continental lithosphere and how deformational processes have modified the lithosphere through geologic time.  
**Objectives:** This program supports a broad range of field, laboratory, computational, and theoretical investigations aimed at understanding the evolution and deformation of continental lithosphere and how deformational processes have modified the lithosphere through geologic time. Because understanding such large-scale phenomena commonly requires a variety of expertise and methods, this program supports integrated research involving the disciplines of structural geology, petrology, geochronology, sedimentology, stratigraphy, geomorphology, rock mechanics, paleomagnetics, geodesy, and other geophysical techniques. Proposals to elucidate the processes that act on the lithosphere at various time-scales, either at depth or the surface, are encouraged.

**Bioengineering and Bioinformatics (NSF/NIH) [2937]**  
**Deadline:** 11/29/05  
**Scope:** The National Science Foundation and the National Institutes of Health’s National Institute of Biomedical Imaging and Bioengineering solicit proposals for summer institutes in bioengineering and bioinformatics for undergraduate and early-stage graduate students.  
**Funds:** $2 million for 12 to 15 awards. The project period is three years.  
**Objective(s):** The purpose is to provide students majoring in the biological sciences, computer sciences, engineering, mathematics and physical sciences with well planned, interdisciplinary bioengineering or bioinformatics research and education experiences. Funders are interested in proposals for institutes that address tissue engineering, biomaterials, drug delivery systems, implant sciences, biosensors, platform technology development, computational modeling, algorithm development, medical imaging and image analysis. New areas of particular interest include dynamics of complex physical and/or chemical systems, biomimetic systems, genomics and systems biology, among others.

**Project AWARE Foundation [69244]**  
**Deadline:** 11/06/05  
**Scope:** The sponsor supports projects that have a direct benefit to the aquatic environment such as: public education (formal and informal); grass roots conservation and enhancement projects; environmentally focused research that leads to conservation measures; public awareness initiatives; environmental assessment and monitoring projects; and volunteer-supported community activism.  
**Funds:** The sponsor provides two types of grants. Micro grants provide up to U.S. $1,000. Macro grants provide up to U.S. $10,000.  
**Objective(s):** The sponsor provides two types of grants: Micro Grant Program—Provides funding for localized grass roots efforts, including but not limited to, beach and underwater clean-ups, mooring buoy programs, research projects, local education and public awareness programs. Macro Grant Program—Provides funding for large-scale regional, national or international efforts, including but not limited to, broad-based education and public awareness programs and high profile conservation projects.

**Condensed Matter and Materials Theory Program (NSF) [83927]**  
**Deadline:** 11/04/05  
**Scope:** The sponsor supports theoretical and complementary computational research in the topical areas represented in DMR programs, including condensed matter physics, polymers, solid-state chemistry, metals, electronic materials, and ceramics.  
**Objective(s):** The program supports fundamental research that advances conceptual, analytical, and computational techniques for materials research. A broad spectrum of research is supported using electronic structure methods, many-body theory, statistical mechanics, and Monte Carlo and molecular dynamics simulations, along with other techniques, many involving advanced scientific computing. Emphasis is on approaches that begin at the smallest appropriate length scale, such as electronic, atomic, molecular, nano-, micro-, and mesoscale, required to yield fundamental insight into material properties, processes, and behavior and to reveal new materials phenomena. Areas of recent interest include strongly correlated electron systems; low-dimensional systems; nonequilibrium phenomena, including pattern formation, microstructural evolution, and fracture; high-temperature superconductivity; nanostructured materials and mesoscale phenomena; quantum coherence and its control; and soft condensed matter, including systems of biological interest.

**Chemistry Research Instrumentation and Facilities: Instrument Development (NSF) [77819]**  
**Deadline:** 01/24/06  
**Scope:** The sponsor provides funds for the design and construction of instruments that will enable new chemical measurements or will significantly broaden the use of chemical instrumentation.  
**Funds:** It is anticipated that $1 million will be available to fund five to six awards with durations of up to three years.  
**Objective(s):** The sponsor encourages proposals for the design and construction of instruments of importance to the chemistry community. Specifically, the program supports the development of two categories of instrumentation: (a) innovative, state-of-the-art instrumentation that permits new kinds of measurements; and (b) new ver-
sions of instrumentation that substantially broaden access to measurement capabilities. Examples of instrument development in the first category might include ultra fast diffraction or spectroscopic measurements. In the second category the instrumentation might advance capabilities in real-time reaction monitoring, use of cyber infrastructure, or chemistry education, as through the development of miniaturized and/or networked spectrometers. In all cases, the major effort must focus on instrument development; simply combining off-the-shelf instrumentation does not constitute a significant development project. Although the focus should be on development or construction, research projects that utilize the finished product may be described in the final year of the proposal as a means of demonstrating wide potential impact.

Centers for Teaching and Learning (NSF) [52717]
Deadline: 01/06/06, 06/19/06, 08/21/06
Scope: The sponsor provides funding for the Accumulating What We’ve Learned initiative intended to document CLT program contributions to a growing knowledge base supporting science, technology, engineering, and mathematics (STEM) education.
Funds: Approximately $1.0 million is available to fund six to ten awards.
Objective(s): The results of this initiative are intended to complement findings of the CLT program evaluation (See Final Report on the Evaluation of the National Science Foundation’s Centers for Learning and Teaching Program. Volume I: Technical Report. Cambridge, MA: Abt Associates and SRI International, March 2005). The CLT program intends to evaluate the overall impact of what is produced by the activities funded by these supplements. Additionally, the program intends to provide support within the next year for a longitudinal study of the impact of the program on CLT doctoral graduates.

It is expected that the syntheses and reports of findings will focus on issues addressed by more than one center; therefore, proposals for supplemental funding must involve collaboration of two or more centers. The proposed work may also incorporate findings from other large-scale NSF projects (e.g., Math and Science Partnership-Research, Evaluation, and Technical Assistance projects and Curriculum Dissemination and Implementation projects supported under the Instructional Materials Development program) whose efforts contribute to the particular domains of research and/or practice being addressed.

IT Experiences for Students, Teachers (NSF) [2938]
Deadline: 11/02/05 for required preliminary proposals; 02/24/06 for full applications.
Scope: The National Science Foundation seeks applications for projects that expand the opportunities for students and teachers to learn about and use information technologies within the context of science and math courses.
Funds: $20 million for 10 to 12 applications in each of two funding categories: youth-based projects, up to $300,000 a year each; and comprehensive projects for students and teachers, up to $400,000 a year each. The project period is three years.
Eligibility: All organizations with an education mission. NSF encourages projects with a focus on minorities, individuals with disabilities and women.
Objective(s): The program will support year-round youth based projects that include a summer component. Projects should include after-school and/or weekend activities that focus on IT or IT-intensive science, technology, engineering or mathematics subject areas and place strong emphasis on career and educational paths. Applicants should present well-designed strategies for recruitment, learning experiences and high quality materials—newly developed or off-the-shelf—to engage middle-and high-school students. Comprehensive projects for students and teachers should infuse appropriate information technologies into STEM courses in middle and high schools and may include development of teacher materials on information technologies, whether or not they are linked to STEM courses.

High Energy Physics (DoE) [2938]
Deadline: 11/15/05
Scope: The Energy Department invites applications to support outstanding junior investigators early in their research careers in the field of high energy physics.
Funds: $500,000 for first-year funding of seven awards of $70,000 a year each. DoE expects to fund grants for multiple years.
Objective(s): The high energy physics program funds research that explores the fundamental nature of matter, energy, space and time, focusing on investigations of elementary particles and their interactions.

Plant Genome Research Program (NSF) [37648]
Deadline: 11/01/05
Scope: The sponsor provides support for basic research in plant genomics, and to accelerate the acquisition and utilization of new knowledge and innovative approaches to elucidate fundamental biological processes in plants. The focus is on plants of economic importance and plant processes of potential economic value.
Funds: Approximately $35 million is available to fund thirty new awards in FY2006.
Objective(s): Three areas of opportunity will be offered as components of the Plant Genome Research Program in fiscal year 2006: Genome-Enabled Plant Research (GEPR) awards to tackle major unanswered questions in plant biology on a genome-wide scale; Translational Research from Model Systems (TRMS) to transfer findings made using model systems to plants of economic importance; and Tools and Resources for Plant Genome Research (TRPGR) awards to support development of novel tools to enable discovery in plant biology.

Geoscience Education (NSF) [36732]
Deadline: 11/17/05
Scope: The sponsor provides funding to improve the quality of geoscience education through one of two tracks: Pilot Projects and Integrative Collaborations.
Funds: It is anticipated that approximately forty-five awards will be made in FY 2006. 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.
Objective(s): The goals of the program are to: improve the quality of geoscience education at all educational levels; increase the number and competency of Earth and Space Science teachers at K-12 levels; demonstrate the relevance of the geosciences by...
An Eye on Funding (Continued from page 13)

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 Professoriate (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).

International Collaborative Research Grants (Wenner-Gren Foundation) [18004]
Deadline: 12/01/05
Scope: Awards are available to assist anthropological research projects undertaken jointly by two or more investigators from different countries. Projects must involve at least one principal investigator from outside the U.S., Canada, Western Europe, Australia or New Zealand.
Funds: Awards are up to $30,000. Grants cover research expenses directly related to and essential to the project, i.e., travel, living expenses during fieldwork, equipment, supplies, research assistance, expenses of communication between the investigators, and other relevant expenditures.

Objective(s): The sponsor supports anthropological research projects undertaken jointly by two or more investigators from different countries. The purpose of the program is to encourage new collaborations in which the principal investigators bring different and complementary perspectives, knowledge, and/or skills. Projects must be primarily for research.

General Research Grants (Leakey Louis S.B.) Foundation [09328]
Deadline: 12/15/05
Scope: The sponsor provides support for projects related to understanding human origins. Advanced doctoral students as well as established scientists are eligible for general research grants.
Funds: The majority of the sponsor's General Research Grants to doctoral students are in the $3,000 to $13,500 range; however, larger grants, especially to post-doctoral students and senior scientists, may be funded up to $22,000.
Objective(s): Recent priorities include research into the environments, archaeology, and human paleontology; into the behavior, morphology, and ecology of the great apes and other primate species; and into the behavioral ecology of contemporary hunter-gatherers. Other areas of study are rarely considered.

Gender in Science and Engineering (NSF) [2936]
Deadlines: 11/04/05 for required preliminary proposals; 03/13/06 for applications.
Scope: The National Science Foundation invites applications for instructional materials development to enhance science, technology, engineering and math knowledge, as well as thinking skills and problem solving abilities, in students from pre-kindergarten through high school.
Funds: $7 million for 15 to 18 grants of $300,000 to $1 million each. School districts and state education agencies, and for profit firms.
Objective(s): Four program components are:
- Learning Progressions—supports design of instructional frameworks centered on learning progressions in science and technology education and the development of associated teacher resources and models for professional development.
- Instructional Materials for Students—supports the creation and substantial revision of comprehensive curricula and supplemental instructional materials that are research-based, enhance pre-K through 12 classroom instruction and reflect standards for science, math and technology education developed by national professional organizations.
- Assessment—supports the creation of tools for assessing student learning that are tied to nationally developed standards and reflect the most current thinking on how students learn mathematics and science. Projects also focus on developing resources that provide technical assistance to schools and districts in implementing new assessments.
- Applied Research—supports the research for development of the IMD program and projects; provides evidence for the effec-
tiveness of materials and feedback for strengthening the portfolio; and identifies possible new directions in instructional materials and assessment. Proposals may be submitted for projects in any field of science, technology, engineering, or mathematics (STEM) education typically supported by NSF.

Nanostructures and Nanosystems (NSF) [2936]

Deadline: 11/29/05

Scope: The National Science Foundation seeks proposals for collaborative research and education activities in the area of active nanostructures and nanosystems and on long-term social change associated with these innovations.

Funds: $542 million for 70 awards, including $250,000 to $400,000 a year each for four years for nanoscale interdisciplinary team research; and $130,000 each for one year for exploratory research.

Eligibility: For team research, U.S. academic institutions with significant research and degree-granting education programs in disciplines normally supported by NSF. The agency encourages principal investigators to collaborate with other research organizations, including private and public sector organizations and foreign organizations, where appropriate. Grants require three PIs with funded time committed in the budget. Other U.S. academic organizations with undergraduate and/or Ph.D. programs in NSF-funded disciplines may apply for exploratory research.

Objective(s): The initiative focuses on four high-risk/high reward research and education themes: fundamental nanoscale phenomena and processes in active nanostructures; nanoscale devices and system architecture; hierarchical nanomanufacturing; and societal and educational issues associated with long-term nanoscale science and engineering advances.

Science and Engineering Information Integration and Informatics (NSF) [77631]

Deadline: 12/15/05

Scope: This program focuses on advancing the state of the art in the application of advanced information technology to science and engineering problems in specific domains, such as astronomy, biology, the geosciences, public health and health care delivery.

Funds: It is anticipated that $14.5 million will be available to fund twenty-five to thirty projects.

Objective(s): The goal of this program is to focus information technology research on addressing problems that will enable scientific discovery via analysis of large data sets or information resources. Specifically, this program encompasses two related components: (a) Science and Engineering Informatics (SEI); and (b) Information Integration (II). The SEIII program has the following two objectives: I: Stimulation of multi-disciplinary research in Science and Engineering Informatics (SEI) that addresses significant, real requirements of an application domain. Understanding of the requirements should be derived through collaboration with the domain scientists or engineers. An ideal project will have three key elements: a) a significant domain challenge; b) a significant computer science problem that is a barrier to achieving the domain challenge; and c) demonstrated expertise in these two aspects. II: Information Integration (II) research that leads to a uniform interface to a multitude of heterogeneous, independently developed data sources. The goal is to free users from having to locate the data sources, interact with each data source in isolation, and manually combine data from multiple formats and multiple sources.

To develop, maintain, and enhance educational infrastructure, all proposals must include an educational component. Appropriate goals include integration of research and education, promotion of knowledge transfer, reaching diverse populations and promoting diversity. Sample activities include: developing materials to integrate SEIII into existing courses; providing access to science data, both raw and refined, to the general public; mentoring faculty of K-12 institutions; creating tutorial material to bring an understanding of the applicability of state-of-the art information technology to specific scientific communities; and developing online resources for faculty and students.

National Oceanographic Partnership (ONR) [2938]

Deadline: 01/24/06

Scope: The Office of Naval Research seeks proposals for research projects aimed at identifying workforce needs in ocean sciences, technology and operations, and collaborative activities to develop community coastal sediment-transport modeling systems.

Funds: $3.3 million for multiple projects over three years.

Eligibility: Teams that comprise at least two of three sectors — academia, industry and non-government organizations; and state, local and other governments.

Objective(s): The announcement addresses two of four strategic priorities under the ongoing National Oceanographic Partnership Program: to increase student and public awareness and knowledge of the oceans through support of science education; and collaborate to strengthen interagency efforts and connections around ocean-related operations. Under the workforce priority, proposed research should: characterize the current workforce in ocean/coasts and Great Lakes science; provide initial predictions—10 to 20 years down the road—for evolution of the workforce over time, with attention to ocean observing systems and other innovations; consider alternatives for education and training programs that respond to workforce needs, with particular focus on higher education. Research addressing education and training alternatives should consider existing and future training programs needed to fill workforce gaps; employers’ interest in programs that establish standards for skills and abilities; and mechanisms to foster a diverse and representative workforce. Under the coastal sediment transport collaboration, the emphasis is on development of a community coastal modeling system. The numerical model should couple hydrodynamics, sediment transport and morphodynamics suitable for diagnostic simulations of coastal processes extending downstream, from the limit of tidal influence in rivers through the surf zone and at a scale of tens of kilometers out onto the continental shelf up to decades.

Tip: Other priorities, which may be addressed in future announcements, include: implementation of a sustained integrated ocean observing system for U.S. global and coastal interests; modernization of the nation’s oceanographic infrastructure, excluding construction; and providing access to state-of-the-art tools and facilities for use by national ocean programs.
The Office of Research and Sponsored Programs (ORSP) is responsible for the development, coordination and financial management of all contracts and grants at the College. All externally sponsored projects for research, scholarly / creative activity, curriculum development or services utilizing SUNY Oswego facilities and / or personnel must be processed and administered through ORSP.

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

**ORSP Pre-Award Services Available**

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

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

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