**PURPOSE**

The Comprehensive Program is the primary grant competition of the U.S. Department of Education’s Fund for the Improvement of Postsecondary Education (FIPSE). The Comprehensive Program supports innovative educational improvement projects that respond to problems of national significance.

**AWARDS**

The Department estimates that 50-60 new Comprehensive Program awards will be made in FY 2005 for grants of up to three years. While there is no minimum or maximum grant award, the Department expects to award grants ranging from $150,000 to $600,000 or more over a typical three-year period. The Department may also award a few larger grants for projects making innovative use of new technologies that involve large-scale, multiple partners and wide geographic scope. The average three-year grant in FY 2004 was approximately $446,000. Grant budgets will be considered in the context of the proposed project’s significance and promise as a model for the reform of American postsecondary education. These figures are only estimates and do not bind the Department of Education to a specific number of grants, or to the amount of any grant, unless that amount is otherwise specified by statute or regulations.

**MATCHING**

There is no mandated matching requirement. However, the Department expects grantees and their collaborating partners to share substantially in the cost of funded projects. Most FIPSE projects are expected to continue after the Federal funding period has ended, and grantees should therefore plan eventually to take over the costs of program administration and operations.

**EQUIPMENT/INFRASTRUCTURE**

FIPSE does not expect to provide support for large equipment purchases or for the development of computer networks or other infrastructure. Applicants are encouraged to leverage institutional and private investments to support these costs.

**TWO-STAGE APPLICATION PROCESS AND DEADLINES**

The Comprehensive Program employs a two stage application and review process. All applicants are required to submit a five-page preliminary proposal by the program deadline of November 3, 2004. These preliminary proposals will be reviewed and a select number of applicants will be invited to submit a final proposal up to 25 pages in length. Award decisions will be based upon review of the final proposals.

**WEB SITE**

For information about past and current projects, successfully evaluated projects from previous years, application information, evaluation resources, and more, visit FIPSE’s Web site at: http://www.ed.gov/FIPSE.
If you are interested in any of the following funding opportunities, send an e-mail to lcook@oswego.edu with the program title and reference number if there is one.

ARTS

Blakemore Foundation Asian Art Grants
Scope: Established by Thomas and Frances Blakemore in 1990 to encourage the advanced study of Asian languages and to improve the understanding of Asian fine arts in the United States, the Seattle-based Blakemore Foundation is currently accepting applications for its Frances Blakemore Asian Art Grants program.
Deadline: November 1
Areas: For the purposes of the program, Asia is limited to the countries of China, Japan, Korea, Burma, Cambodia, Indonesia, Laos, Thailand, Malaysia, Vietnam, Philippines, Mongolia, and Tibet. The term "fine arts" refers to paintings, graphic arts, ceramics, sculpture, and textiles.

BMI Foundation Inc.
Deadline: Feb. 1
Scope: Through its general funding program, the Foundation has supported an impressive list of organizations involved in many areas of music, from education to performance, from every region in our nation, and diverse aspects and genres of music. The emphasis is on American music. Funding decisions for this program are made with the aid of the distinguished songwriters, composers and publishers who serve as the Foundation’s Advisory Panel. Grants are generally made to non-profit organizations.

National Endowment for the Arts Makes Grants for Arts Projects Guidelines
Available
Deadlines: Various
Scope: The National Endowment for the Arts has posted FY 2005 guidelines for its Grants for Arts Projects (GAP) program. These are the first online-only GAP guidelines at the NEA Web site, and are designed to provide applicants with earlier access and a more flexible format. The FY 2005 guidelines also mark a return to discipline orientation. Applicants will approach funding through the field or discipline of their project, such as dance, theater, or visual arts. The GAP program supports exemplary projects in dance, design, folk and traditional arts, literature, local arts agencies, media arts (film/radio/television), museums, music, musical theater, opera, presenting, theater, visual arts, and multidisciplinary art forms. Although organizations will apply directly through these fields, each discipline offers granting opportunities in the following categories:
- Access to Artistic Excellence: Grants of $5,000 to $150,000 to foster and preserve excellence in the arts and provide access to the arts for all Americans.
- Challenge America Fast-Track Review Grants: Grants of $10,000 to support small and mid-sized organizations for projects that extend the reach of the arts to underserved populations.
- Learning in the Arts for Children and Youth: Grants of $5,000 to $150,000 to advance learning in the arts for children and youth. Visit the web site at www.nea.gov/

EDUCATION

Teacher Quality-Reading: Math/Science (ED) [2833]
Scope: IES invites rigorous research on teacher quality in reading and writing under parallel programs focusing on reading/writing and math/science.
Deadline: Oct. 8 for letters of intent; Dec. 16 for applications.
Funds: Depending on the type of study, $150,000 to $500,000 a year each for up to three years.
Areas: The goal is to build a bridge from the laboratory to real-world educational practice settings. Applicants must identify a significant education problem for which solutions are likely to be gained by applying principles derived from research in the cognitive sciences. Projects must include research conducted in an education setting but may include laboratory experiments. Therefore, researchers must establish relationships with schools or other education delivery settings and must document the availability and cooperation of the schools that will be involved in the project.
Tip: ED encourages cognitive researchers to collaborate with experts in teacher training, classroom instruction or curriculum development.

Field-Initiated Evaluations of Innovations (ED) [2833]
Scope: IES is looking for applications for evaluations of promising education interventions designed to improve academic outcomes, such as student achievement, grades and graduate, and behaviors that directly affect academic outcomes, for example school attendance, drug use and conduct.
Deadline: Oct. 15 for letters of intent; Dec. 16 for applications.
Funds: Grants range from $200,000 to $500,000 a year each in total costs for three years.
Areas: The program intends to establish the efficacy of existing education interventions used in schools and other settings. Interventions should be fully developed and de...
An Eye on Funding (continued from page 2)

employed, replicable and reflect important implications for practice and policy. ED emphasizes methodological rigor and urges use of randomized trials. High-quality quasi-experimental designs will be considered "only in circumstances in which a randomized trial is not possible."

**Education, Finance, Leadership (ED) [2833]**

**Scope:** The IES invites applications for research on systematic approaches related to education operations that will result in students’ improved education gains and academic achievement.

**Deadline:** Nov. 4 for letters of intent; Dec. 16 for applications.

**Funds:** $100,000 to $750,000 a year each for up to, depending on the scope of the study, four years.

**Areas:** IES will fund projects that identify promising systemic finance, leadership, and management practices for improving the teaching and learning environment and thereby increase student learning; develop new systemic finance, leadership and management strategies; evaluate the efficacy of systemic strategies; and develop and test cost accounting tools and measurement systems that enable education administrators to link student-level resources to student achievement data.

**HUMANITIES**

**Collaborative Research Grants (NEH)**

**Scope:** The National Endowment for the Humanities invites applications for original research projects in the humanities that are beyond the scope of a single investigator or research project.

**Deadline:** Nov. 1.

**Funds:** Grants range from $100,000 to $250,000 a year each for one to three years. Normally, NEH will pick up 80 percent of total project costs.

**Areas:** Projects must involve a team of two or more scholars, or research coordinated by an individual scholar that because of its complexity requires additional staff and resources beyond the individual salary. Grants support full-time or part-time activities and are available for various combinations of scholars, consultants and research assistants; travel; fieldwork; applications of information technology; and technical support and services.

Projects include: research that significantly adds to knowledge and understanding in the humanities; archaeology projects that interpret and communicate the results of archaeological fieldwork (encompassing excavation, materials analysis, laboratory work, field reports and preparation of monographs); translations into English of works that provide insight into the history, literature, philosophy and artistic achievements of other cultures; research that uses the knowledge, methods and perspectives of the humanities to enhance understanding of science, technology and medicine; and research conferences.

**Documenting Endangered Languages (NSF-NEH)**

**Deadline:** November 1

**Scope:** The National Science Foundation and the National Endowment for the Humanities have partnered to offer grants for projects designed to help save endangered languages.

**Funds:** Funding will be available in the form of one- to three-year project grants as well as fellowships for up to twelve months. At least half the available funding will be awarded to projects involving fieldwork. An estimated 18 to 22 grants will be made, including 12 fellowships. The program is expected to provide $2 million annually in funding.

**Eligibility:** Academic institutions and non-profit, non-academic organizations located in the United States are eligible to apply for funding. U.S. citizens and foreign nationals who have been living in the U.S. or its jurisdictions for at least three years are eligible to apply for fellowships.

**Areas:** This multi-year funding partnership will support projects to develop and advance knowledge concerning endangered human languages. Funding will support fieldwork and other activities relevant to recording, documenting, and archiving endangered languages, including the preparation of lexicons, grammars, text samples, and databases.

**INTERDISCIPLINARY**

**Research Infrastructure (NICHD) [2834]**

**Scope:** The National Institute of Child Health and Human Development seeks applications under two solicitations aimed at supporting population research relevant to its Demographic and Behavioral Sciences Branch (Aug. 11 NIH Guide).

**Deadline:** Dec. 15, 2004, Nov. 23, 2005, and Nov. 22, 2006, for developmental infrastructure grants; and Oct. 25, 2004, for letters of intent and Nov. 23,
FIND, APPLY, SUCCEED—About Grants.gov

Grants.gov allows organizations to electronically find and apply for competitive grant opportunities from all Federal grant-making agencies. Grants.gov is the single access point for over 900 grant programs offered by the 26 Federal grant-making agencies. The US Department of Health and Human Services is proud to be the managing partner for Grants.gov, an initiative that will have an unparalleled impact on the grant community. Navigation of Grants.gov is simple. Use the colored tabs and/or links at the top of the screen to access primary sections of the site or the links to the left and below to access information on specific topics.

Find Grant Opportunities
- Search for Grant Opportunities
- Register for Notification of Grant Opportunities
- Resources for Grants
- Find Information on Government Benefits for Individuals

Apply For Grants
- Prepare to Apply for Grants Through Grants.gov (ORSP only)
- Access Active Grant Application Packages
- Download Grant Application Packages
- Complete a Grant Application Package (ORSP only)
- Submit a Completed Grant Application Package (ORSP only)

- Check the Status of an Application Submitted via Grants.gov (ORSP only)

FirstGov.gov
Whatever you want or need from the U.S. government, it’s on FirstGov.gov. You’ll find a rich treasure of online information, services and resources. Click on the tab for Business and Non-Profits and you can sign up for free newsletters. On FirstGov.gov, you can search millions of web pages from federal and state governments, the District of Columbia and U.S. territories. Most of these pages are not available on commercial websites. FirstGov has the most comprehensive search of government anywhere on the Internet.

An Eye on Funding (continued from page 3)

2004, for applications for infrastructure grants.

Funds: Up to 150,000 a year each for five years for developmental infrastructure grants. About $2 million for four resource-related infrastructure support grants, which provide approximately $15,000 for each of multiple investigators involved in a coordinated population research program who can provide evidence of research activity directly relevant to the DBSB mission through previous grants and/or scientific publications.

Areas: Developmental grants are intended to support the organization and demonstrate the feasibility of programs that have potential for advancing population research but are not ready to compete for a research infrastructure award. Infrastructure grants support development and/or research designed to enhance the quality and quantity of population research conducted at an institution and develop new research capabilities to advance population research through innovative approaches.

The DBSB’s mission is to fund research on the processes that determine population size, growth, composition and distribution and on the determinants and consequences of those processes. Interest areas include fertility, mortality and migration and their interrelationships with larger social, economic and cultural processes.

Ideas for Security (DARPA) [2837]
Scope: The Defense Advanced Research Projects Agency is casting for white papers proposing ideas for enabling technologies to counter security threats.
Deadline: The broad agency announcement is open until Sept. 15, 2005.
Funds: Awards are expected to total less than $1 million for a term shorter than one year.
Areas: Interests include next generation space technologies and systems; defenses against chemical, biological, radiological weapons; and tailored surveillance systems, including innovative sensor systems.

Advanced Soldier Sensor System (DARPA) [2837]
Scope: The Defense Advanced Research Projects Agency solicits proposals for research, development and testing to improve battlefield awareness by exploiting data collected by soldier-worn sensors.
Deadline: Sept. 20 for initial evaluation phase, but proposals will be accepted until Aug. 5, 2005.
Funds: Under the first phase of the initiative, DARPA expects to award four to eight contracts which are expected to total less than $4 million each.

Areas: The goal of the initiative is to demonstrate an integrated system and advanced technologies for processing, digitizing and reporting key observational and experiential data captured by soldiers, particularly in urban terrain. The first phase of the program will focus on baseline system development—emphasizing active information capture and voice annotations exploitation and resulting in a prototype wearable unit and supporting software; and advanced technology research—emphasizing passive collection and automated activity/object recognition and resulting in algorithms, software and tools for system integration in phase two.

Disabilities Research (NSF) [2836]
Scope: The National Science Foundation seeks proposals for basic and applied research and other projects focused on increasing the participation and achievement of persons with disabilities in science, technology, engineering and mathematics (STEM).
Deadline: March 7 for optional letters of intent for research on disabilities demon (Continued on page 6)
Eligibility Criteria:  
Graduate students formally accepted into a graduate program and full-time undergraduate students in their junior or senior years at SUNY Oswego may apply.

Application:  
To download the application, go to www.oswego.edu/administration/ORSP/index.html, select Campus Grants and Awards, then Students. Submit one completed application via e-mail as an RTF attachment to lcook@oswego.edu. Awards will be made in the Fall of 2004 for execution/completion of projects during the spring, summer, and fall of 2005. You may also view 2003 funded proposals by clicking on “Student Grant Awardees”.

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.

<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 15, 2004</td>
</tr>
<tr>
<td>President’s Award for Scholarly &amp; Creativity and Research</td>
<td>January 31, 2005</td>
</tr>
<tr>
<td>Provost’s Award for Scholarly &amp; Creativity and Research</td>
<td>January 31, 2005</td>
</tr>
<tr>
<td>Faculty Enhancement Scholarly &amp; Creative Activity Grants</td>
<td>February 4, 2005</td>
</tr>
<tr>
<td>Faculty Enhancement SCAC New Faculty Incentive Grants</td>
<td>February 4, 2005</td>
</tr>
<tr>
<td>Faculty Enhancement Course Development Grants</td>
<td>February 4, 2005</td>
</tr>
<tr>
<td>Faculty Enhancement Program Innovation Grants</td>
<td>February 4, 2005</td>
</tr>
<tr>
<td>Student/Faculty Collaborative Challenge Grants</td>
<td>February 4, 2005</td>
</tr>
</tbody>
</table>
An Eye on Funding (continued from page 4)

stratation, enrichment and information dissemination (RDE-DEI) and focused-research initiatives (RDE-FRI); Feb. 28 for required preliminary proposals for regional alliances for persons with disabilities (RDE-RAD) proposals; and April 18 for all final proposals.

Funds: $4.4 million for awards of up to $100,000 each for one year for RDE-DEI; up to $300,000 each for three years for RDE-FRI continuation; and up to $3 million each for five years for RDE-RAD grants.

Areas: The RDE program concentrates on research and other activities that promise to: effect changes in academic and professional climates; develop awareness and recognition of needs and capabilities of students with disabilities; promote accessibility and appropriateness of instruction materials, media and educational technologies; and increase availability of enrichment resources, including mentoring activities. Activities include hands-on science experience in pre-college science education settings, identification.

Technology to Access Foreign Info (ED) [2836]
Scope: The Education Department invites applications for projects that will develop innovative techniques or programs using new electronic technologies to collect information from foreign sources (Sept. 3 Federal Register).
Deadline: Nov. 17.
Funds: $1.7 million for awards of $100,000 to $200,000 a year each for up to four years.
Areas: Grants support activities such as accessing, collecting, organizing, preserving and disseminating information on world regions and countries other than the United States that address the nation's teaching and research needs in international and foreign languages.

Aging Through the Lifespan (NIA) [2836]
Scope: The National Institute on Aging seeks applications for research projects using existing longitudinal data and specimens to gain information and answers to important research questions regarding changes during the life span that affect health in old age.

Deadline: Dec. 13 for letters of intent; Jan. 11 for applications.
Funds: $2.5 million in fiscal 2005 for seven to 10 grants of up to $275,000 a year for four years.
Areas: NIA strongly encourages proposals for multidisciplinary research teams spanning the range of expertise needed to address research questions ranging across such topics as effects of age, disease stage, variability among and within individuals in rates of changes in physiologic, pathologic, behavioral, social and functional areas; and the determinants of healthy aging.

U.S. International Educators (DoS) [2838]
Scope: The State Department invites proposals to train international education professionals at U.S. colleges and universities to work effectively with international students, scholars, exchange programs and study-abroad programs (Sept. 23 Federal Register).
Deadline: Nov. 12.
Funds: $535,000 for first-year funding of the cooperative agreement, which may be renewed for two additional years before competing it again. Grants to organizations with less than four years experience are limited to $60,000.
Areas: Program activities—which must be open to staff from any accredited U.S. higher education institution—should be designed to give international education professionals the specific skills and tools to manage and expand their institutions’ international exchange agendas and strengthen their institutions’ exchange programs. Activities also should include helping professionals confront complex new issues, such as security related procedures and the SEVIS (Student Exchange Visitor Information System) information processing system established to screen students and scholars prior to entry and monitor them during their U.S. stay. Proposals must encourage and reinforce cooperation among professionals in the field by providing up-to-date knowledge and acknowledge the Department’s sponsorship at all events. The proposed program may provide cooperative grants to institutions participating in international education training for substantive high-impact activities.

Undergraduate International Studies (ED) [2838]
Scope: The Education Department solicits applications to strengthen and improve undergraduate instruction in international studies and foreign language programs (Sept. 23 Federal Register).
Deadline: Nov. 9.
Funds: $2.2 million for 29 awards of $50,000 to $140,000 a year each for up to three years. The grantee match is: private cash contribution equal to one-third total project costs; or institutional and non-institutional cash or in-kind contributions equal to on behalf of total project costs. The match may be waived or reduced for certain institutions.
Eligibility: Higher education institutions; consortia of higher education institutions; partnerships of nonprofit education organizations and higher education institutions; and public and private nonprofit agencies and organizations, including professional and scholarly associations.
Areas: ED will award up to five extra points for applications that require entering students to have successfully completed at least two years of secondary school foreign
USDA - $150M Agenda Ranges from Obesity to Terrorism

The Agriculture Department’s 2005, $150 million National Research Competitive Grants solicitation, out this month, invites proposals across an increasingly broad range of funding priorities.

Deadlines for the huge, staggered grant competition begin Oct 29 this year and extend through June 15 next year for the 29 broad categories that offer funding opportunities for researchers across disciplines and types of support.

Topics run the gamut from biosecurity, which focuses on safeguarding U.S. agriculture from bioterrorism, to human nutrition. Grants under the security category range up to $1 million for three to four years. Researchers looking for support to study human nutrition and obesity may request up to $500,000 for two to four years. That program addresses prevention and covers areas from the influence of social and psychological factors to the influence of economic factors and public policy on the prevalence of obesity.

The solicitation invites applications for research and integrated research, extension and education grants. Grants may focus on fundamental research, mission-linked research that targets specific agricultural problems, multidisciplinary and collaborative projects involving multiple investigators and multi-component projects that combine research, education and extension activities around a particular problem.

Besides research, the program funds agricultural research enhancement awards (AREA) that help institutions develop competitive research environments and attract research talent. AREA grants also support fellowships and new investigators. USDA also funds equipment grants and seed grants.

For further information visit the web site at http://www.csrees.usda.gov/fo/fundview.cfm?fonum=1112

“Research is the process of going up alleys to see if they are blind.” -- Marston Bates

Eye on Funding (continued from page 6)

language instruction; require each graduating student to earn two years of postsecondary credit in a foreign language or have demonstrated equivalent competence in the foreign language; or in the case of a two-year degree-granting institution, offer two years of postsecondary credit in a foreign language.

ED also is interested in applications that: propose projects that provide in-service training for K-12 teachers in foreign languages and international studies and strengthen instruction in international studies and foreign languages in teacher education programs; and propose educational projects that include activities focused on Central and South Asia, the Middle East, Russia, the Independent States of the former Soviet Union and Africa and that integrate these areas into the curricula of the home institutions or organizations.

Distance Learning (HRSA) [2838]

Scope: The Health Resources and Services Administration seeks applications to develop, implement, use, apply and evaluate distance education opportunities to train maternal and child health professionals.

Deadline: Dec. 17.

Funds: $390,000 for three grants.

Areas: The Maternal and Child Health Bureau is particularly interested in topics such as MCH competencies, model leadership curricula, cultural competency and family centered care; best practices in interdisciplinary training; and integration of new evidence-based knowledge into policy and practice.

Alcohol Use and Risk of HIV (NIAAA) [2838]

Scope: The National Institute on Alcohol Abuse and Alcoholism solicits applications for research on structural interventions that reduce the risk of HIV/AIDS transmission by changing the environment of alcohol use (Sept. 17 NIH Guide).

Deadline: Nov. 19 for letters of intent; Dec. 16 for applications.

Funds: $2 million for first-year funding of five to seven awards of varying amounts and duration, including small grants and exploratory development grants. The project period is up to five years.

Areas: The solicitation focuses on intermediate-level factors that directly affect the drinking environment, for example: local zoning of alcohol outlets; the form of alcohol availability; retail prices of alcoholic beverages; alcohol server training programs; the access of underage persons to alcohol; keg registration policies; increased alcohol taxes earmarked for prevention, education and treatment; and enforcement of college and university policies aimed at limiting drinking at campus events.
Hazmat Worker Training [2838]
Scope: The National Institute of Environmental Health Sciences invites proposals to develop model programs to train individuals who work with hazardous materials and waste generation, removal, containment, transportation and emergency response.
Deadline: Oct. 22 for letters of intent; Nov. 22 for applications.
Funds: $32 million in fiscal 2005 for 15 to 20 cooperative agreements. The project period is five years.
Areas: The program helps organizations develop institutional competency to provide appropriate model training in four distinct areas:
- Hazardous waste worker training;
- Minority worker training;
- Brownfields minority worker training; and
- Hazmat disaster preparedness training, developed in response to recent national disasters, including terrorist attacks.

SCIENCE

CCLI Adaptation & Implementation Track (NSF) [2837]
Deadline: December 2, 2004
Scope: The Adaptation and Implementation (A&I) track of the CCLI program promotes the improvement of STEM education in the funded organization(s) through the adaptation and implementation of specific exemplary materials, laboratory experiences, and/or educational practices that have been developed and proven successful at other institutions. CCLI-A&I projects should effect change within or across departments or other institutional units by having broad faculty and administrative support. The ultimate goal is the improvement of undergraduate STEM learning.
This track invites proposals for two types of projects that aim to achieve these goals: those that intend to undertake direct curriculum improvement (Type I projects), and those that enable a group of faculty to explore strategies for overcoming identified challenges and barriers to educational reform (Type II projects).
Funds: A&I: Type I projects: (up to 3 years) with a budget up to $100,000 for a single course and $200,000 for comprehensive projects involving more than one course. Type II projects: (up to 3 years) with a budget up to $75,000.
CCLI Assessment of Student Achievement Track (NSF) [2837]
Deadline: December 8, 2004
Scope: Assessment can promote student learning or provide evidence for accountability requirements through an evaluation of a program's strengths and weaknesses. The CCLI-ASA track supports both of these purposes. In broad terms the CCLI-ASA track is intended to serve faculty, departments, administrators, and education officials interested in the measurement of student achievement in courses, curricula, programs of study, and the cumulative undergraduate experience.
Funds: ASA: (up to 3 years) with a budget up to $500,000.

Centers for Learning and Teaching (NSF)
Deadline: February 20, 2005
Scope: The Centers for Learning and Teaching (CLT) program focuses on the advanced preparation of science, technology, engineering, and mathematics (STEM) educators, as well as the establishment of meaningful partnerships among education stakeholders, especially Ph.D.-granting institutions, school systems, and informal education performers. Its goals are to renew and diversify the cadre of leaders in STEM education; to increase the number of K-16 educators capable of delivering high-quality STEM instruction and assessment; and to conduct research into STEM education issues of national import (e.g., the nature of learning, teaching strategies, and reform policies and outcomes).
Funds: $4,000,000 in Fiscal Year 2004, pending availability of funding - $2,000,000 will be allocated per year per Center - award duration will be up to 5 years. Funding information for 2005 is not available yet.

Nanoscale Science and Engineering (NSF) [2834]
Scope: The National Science Foundation invites applications for collaborative research and education under the flagships solicitation for the government-wide coordinated nanoscale science and engineering initiative solicitation.
Deadline: Nov. 10 for preliminary proposals for nanoscale science and engineering centers; Nov. 12 for full proposals for nanoscale interdisciplinary research teams; Nov. 18 for nanoscale exploratory research; and March 1, 2005, for invited nanoscale science and engineering centers full proposals.
Funds: $81.6 million in fiscal 2005 for 100 to 130 awards of $100,000 to $20 million each across categories.
Eligibility: U.S. academic institutions with significant research and degree-granting education programs in disciplines normally supported by NSF for nanoscale interdisciplinary research team proposals, which may be submitted by a single organization or group of organizations comprising a lead entity in partnership with one or more partner organizations; U.S. academic institutions with undergraduate and/or Ph.D. programs in NSF mission areas for nanoscale exploratory research (NER) projects; single U.S. academic institutions or a lead institution in partnership with other institutions for nanoscale science and engineering centers (NSEC).
For centers, U.S. academic institutions with undergraduate and Ph.D. programs may submit one preliminary proposal—and one full proposal only if invited by NSF—as the lead institution. NSF encourages partnerships between the lead institution and other colleges and universities. A single institution may not be the lead institution in more than one preliminary or full proposal.
Areas: The initiative features eight scientific themes linked by the overarching goals of achieving systematic control of phenomena at the nanoscale (one billionth of a meter), exploiting new phenomena and functions that do not extrapolate outside the nanoscale domain and applying such capabilities in areas of national interest.
Proposals may address more than one scientific theme, but all proposals should address the integration of research and education, including course development and student fellowships. Themes are: - Biosystems at the nanoscale; - Nanoscale structures, novel phenomena and quantum control; - Nanoscale devices and system architecture; - Silicon nanoelectronics and beyond; - Nanoscale processes in the environment; - Multiscale, multiphenomena theory, modeling and simulation at the nanoscale; - Manufacturing processes at the nanoscale; and Societal and educational implications of scientific and technological advances on the nanoscale.
Interdisciplinary research teams will support small collaborative groups of three or
An Eye on Funding (Continued from page 8)

more investigators at the faculty level or equivalent (at least three principal investigators). Exploratory research projects focus on research and education at the frontiers of nanoscale science; address all themes but nanoscale structures; and concentrate on preliminary work on untested, novel and far-reaching ideas. Nanoscale centers focus on only two themes: manufacturing processes and societal and educational implications of advances. Centers address opportunities that are too complex for individual or small group research.

Coastal Hypoxia Research (DoC/NOAA)

Scope: The Commerce Department’s National Oceanic and Atmospheric Administration invites proposals for coastal hypoxia research to help coastal resource managers assess strategies for dealing with low-oxygen levels in aquatic systems and its effects on the ecosystem. Deadline: Oct. 27.

Funds: Typically up to $500,000 a year each for four to eight projects.

Areas: Priorities are projects that address hypoxia in the U.S. Great Lakes and estuaries and coastal regions, except for the Louisiana continental shelf, which is the focus of an ongoing U.S. research program. Topics of interest include: development of a predictive capability for the spatial and temporal extent of hypoxia; determination of the current ecological and economic impacts of hypoxia in a region and development of ecological forecasts and valuations of the impacts of changes in a hypoxic region’s spatial or temporal extent through the range of possible scenarios; and development of models that predict susceptibility of coastal systems to formation of hypoxic waters.

Harmful Algal Blooms (DoC/NOAA) [2834]

Scope: The National Oceanic and Atmospheric Administration invites applications for research focused on monitoring harmful algal blooms that pose the potential for economic damage in almost every coastal state. Deadline: Dec. 1.

Funds: Typically, up to $100,000 a year each for three years for shorter-term targeted research projects; and up to $600,000 a year each for longer-term intensive regional monitoring projects up to five years.

Areas: The focus of targeted research projects is to incorporate products from past or ongoing harmful algal bloom research programs into operational components of existing monitoring programs in affected regions. Efforts include: developing and integrating technology to enhance monitoring programs; field testing technologies to detect algal species, toxin or toxicity, or monitor environmental conditions that support HAB; and developing and testing tools to rapidly detect HABs and their toxins, track and monitor them and supporting conditions. Intensive monitoring programs seek to increase regional capabilities for HAB monitoring; include annual studies involving multidisciplinary collaborative teams of investigators; include regional stakeholder input and participation; pursue comprehensive data analysis and integration that advances the state of science and management.

Outstanding Junior Investigator (OJI) Program (DOE) [N9104]

Scope: The Office of High Energy Physics of the Office of Science (SC), U.S. Department of Energy, hereby announces its interest in receiving grant applications for support under its Outstanding Junior Investigator (OJI) Program. Applications should be from tenure-track faculty investigators who are currently involved in experimental or theoretical high energy physics or accelerator physics research, and should be submitted through a U.S. academic institution. Deadline: November 10, 2004

Areas: The purpose of this program is to support the development of individual research programs by outstanding scientists early in their careers. Awards made under this program will help to maintain the vitality of university research and assure continued excellence in the teaching of physics.

Education Grants (NIDDK)

Scope: The National Institute of Diabetes and Digestive and Kidney Diseases seeks applications to create curriculum-driven programs that will attract undergraduate, graduate or postdoctoral students to NIDDK-related research careers (Aug. 27 NIH Guide). Deadline: Feb. 1, June 1, and Oct 1

Funds: Grants are limited to $100,000 a year each for five years.

Areas: These gap-filling grants provide support for curriculum-based, multidisciplinary and interdisciplinary didactic and other education experiences in a variety of areas, as long as activities address a need that is not met by other NIH grant mechanisms. For example, programs may focus on: a specific disease process of interest to NIDDK, such as diabetes or obesity; translation of basic science discoveries to patient care; or molecular techniques that may be applied to NIDDK-relevant diseases and research.

Blood Disease Pilots (NIDDK)

Scope: The National Institute of Diabetes and Digestive and Kidney Diseases seeks proposals for pilot studies related to hematology and diseases within the institute's purview (Aug. 20 NIH Guide). Deadline: Feb.1, June 1, and Oct. 1

Funds: Up to $275,000 each over two years.

Areas: Studies could focus on determining the molecular mechanisms by which agents induce fetal hemoglobin production; examine mechanisms leading to congenital anemias; or assess the role of various cell populations in creating and maintaining adult stem cell niches in tissues, for example.

Cooperative Agreement Notice (CAN) Applied Sciences Program (NASA)

Scope: The National Aeronautics and Space Administration (NASA) is announcing opportunities to participate in the Applied Sciences Program of the Science Mission Directorate. The Program requests innovative solutions to evaluate, verify and validate, and benchmark solutions that integrate NASA Earth and Space science programs; field testing technologies to rapidly detect HABs and their toxins, track and monitor them and supporting conditions. Intensive monitoring programs seek to increase regional capabilities for HAB monitoring; include annual studies involving multidisciplinary collaborative teams of investigators; include regional stakeholder input and participation; pursue comprehensive data analysis and integration that advances the state of science and management.

Education Grants (NIDDK)

Scope: The National Institute of Diabetes and Digestive and Kidney Diseases seeks applications to create curriculum-driven programs that will attract undergraduate, graduate or postdoctoral students to NIDDK-related research careers (Aug. 27 NIH Guide). Deadline: Feb. 1, June 1, and Oct 1

Funds: Grants are limited to $100,000 a year each for five years.

Areas: These gap-filling grants provide support for curriculum-based, multidisciplinary and interdisciplinary didactic and other education experiences in a variety of areas, as long as activities address a need that is not met by other NIH grant mechanisms. For example, programs may focus on: a specific disease process of interest to NIDDK, such as diabetes or obesity; translation of basic science discoveries to patient care; or molecular techniques that may be applied to NIDDK-relevant diseases and research.

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Cooperative Agreement Notice (CAN) Applied Sciences Program (NASA)

Deadline: Pre-proposal, Oct. 22 – Final, Dec. 17

Scope: The National Aeronautics and Space Administration (NASA) is announcing opportunities to participate in the Applied Sciences Program of the Science Mission Directorate. The Program requests innovative solutions to evaluate, verify and validate, and benchmark solutions that integrate NASA Earth and Space science results into decision-support tools of partnering organizations. Proposals are invited in two main areas: 1) Integrated Systems Solutions to integrate NASA Earth and Space science results into applications of national priority, demonstrate prototypes, and benchmark performance, and 2) Solutions Networks to improve the collective ability of Earth science organizations to interact and harness the results of NASA Earth and Space science research.
Paul Beeson Development Awards (NIA) [2836]
Scope: The National Institute on Aging seeks proposals to support research careers of clinically trained individuals who are pursuing research careers in aging.
Deadline: Oct. 22 for intent; Nov. 22 for applications.
Funds: $2.5 million in fiscal 2005 for 12 grants of up to $200,000 a year each for three, four or five years.
Eligibility: Junior to mid-career clinically trained faculty members seeking mentored training in a strong research environment to gain skills for independent research careers.
Areas: Proposed training and research must focus on clinically relevant research on aging and/or the aged in: basic sciences, research on animal models; use and analysis of primary and secondary data; and clinical and patient-focused research methods.
Tip: Candidates must identify a mentor or mentors, who are senior research in aging and/or geriatrics, who agree to commit time to supervising and guiding the research training.

IT for Teachers and Students (NSF) [2836]
Scope: The National Science Foundation seeks proposals to provide opportunities for preK-12 children and youths and their teachers to build skills and knowledge needed to encourage students’ study and improve their capacity to function in and contribute to an increasingly technological society.
Deadline: Nov. 1 for required preliminary proposals; Feb. 9 for full proposals.
Funds: $20 million for eight to 12 awards.
Areas: The program, which is a direct response to current and future workforce needs, aims to create opportunities for students and teachers to learn about, experience and use information technologies within the context of science, technology, engineering and mathematics courses. The Information Technology Experiences for Students and Teachers (ITEST) program has two components: youth-based projects with strong emphasis on career and education paths; and comprehensive projects for students and teachers.

Gender Divide in Science (NSF) [2836]
Scope: The National Science Foundation invites applications totaling to fund research and other projects aimed at explaining and overcoming the underrepresentation of girls and women in K-16 science learning and careers.
Deadline: Preliminary proposals are required by Oct. 18 for research and Jan. 6 for extension services, with full proposals due Nov. 16 for dissemination proposals; Feb. 1 for full-scale research proposals; and April 22 for full service and dissemination proposals.
Funds: $6 million for 25 grants of up to $500,000 for one to three years.
Areas: Research grants are meant to increase knowledge of education factors that result in differences in student interest, performance and career choice. Studies may focus on teaching approaches, curriculum, student services and aspects of institutional culture that widen or bridge the gender divide. Beyond schooling, researchers will consider the broader societal, formal and informal educational systems' interactions with individuals that abet or impede the pursuit of study or careers in certain fields.

Computer Systems Research (NSF) [2836]
Scope: The National Science Foundation solicits proposals for innovative research and education projects that significantly improve the performance of advanced complex computer systems.
Funds: $27 million for 41 to 57 awards (35 to 45 small and 6 to 10 team awards) with project periods of two to four years, depending upon scope and complexity.
Areas: The program supports research with potential to: lead to significant improvements in existing computer systems by increasing fundamental understanding of such systems; produce systems software that is qualitatively and quantitatively more reliable and efficient; and/or produce innovative curricula or educational materials that better prepare the next generation of computing professionals. NSF also is interested in projects that expand the capabilities of existing systems by exploiting the potential of new technologies or developing innovative ways to use existing technologies. Specific topics of interest include: embedded systems software composition, such as algorithms, middleware, virtual machines and system services; parallel; parallel and distributed operating systems; such as systems for resource management, system architecture and system properties, including security; and advanced execution systems.

...to build skills and knowledge needed to encourage students’ study and improve their capacity to function in and contribute to an increasingly technological society.”
An Eye on Funding (continued from page 10)

Funds results and research findings to national audiences, particularly the education community. A new twist in the program is funding for "extension" service grants, which NSF says will "offer proactive dissemination, consultation, implementation assistance" tailored to the needs of educators in a region.

Geologic Mapping Education (DoI) [2836]
Scope: The Interior Department's U.S. Geological Survey seeks applications to support graduate and undergraduate training in geologic mapping.
Deadline: Nov. 19.
Funds: $483,872 total for 61 awards.
Areas: The program seeks to support academic research projects that involve geologic mapping as a major component and in the process expand the educational capacity of academic earth science programs that teach students the techniques of geologic mapping and field data analysis.

Nuclear Physics Junior Researchers (DoE) [2836]
Scope: The Energy Department invites applications to support development of individual research programs of outstanding scientists early in their careers.
Deadline: Nov. 16.
Funds: $250,000 total for multiple awards. Awards vary in size and are made for three to five years.
Areas: Projects should be aligned with at least one of the following priorities: making precision measurements of fundamental properties of the proton, neutron and simple nuclei for comparison with theoretical calculations; investigation of new regions of nuclear structure and interactions in nuclear matter; and measurement of fundamental properties of neutrinos.

Nuclear Physics Research (DoE) [2836]
Scope: The Energy Department solicits research grant applications under its ongoing program of support for nuclear physics basic research and technical developments.
Deadline: Nov 1.
Funds: $70 million total in fiscal 2005, including up to 30 percent for new awards.
Areas: Subprograms include medium energy nuclear physics; heavy ion nuclear physics; low-energy nuclear physics and nuclear theory.

Space Applied Sciences (NASA) [2836]
Scope: The National Aeronautics and Space Administration requests innovative solutions to evaluate, verify and validate, and benchmark solutions that integrate NASA Earth and Space science results into decision-support tools of partnering organizations.
Deadline: Oct. 22 for letters of intent; Dec. 17 for proposals.
Funds: Funding details will be in the formal solicitation, which will be available Sept. 17.
Areas: Interests are projects to integrate NASA Earth and space science results into applications and prototypes; and networks to improve the ability of earth science organizations to interact and capitalize on the results of NASA research.

Superfund Research/Training (NIEHS) [2836]
Scope: The National Institute of Environmental Health Sciences invites applications for university based research and training projects focusing on the health risks and challenges posed by addressing Superfund hazardous waste sites (Aug. 27 NIH Guide)
Deadline: Feb. 14 for letters of intent; April 21 for applications.
Funds: $24 million in fiscal 2006 for seven to 10 grants of up to $2.1 million in first-year funding. The project period is five years.
Areas: The program focuses on: methods and technologies to detect hazardous substances in the environment; advanced techniques to detect, assess and evaluate the effect on human health of hazardous substances; methods to assess the risks to human health presented by hazardous substances; and basic biological, chemical and physical methods to reduce the toxicity of hazardous substances. Broad categories of interest are: mechanism-based studies; susceptibility and predisposition research; exposure assessment research; remediation studies; ecosystems research; investigations of mixtures and simultaneous exposure to multiple hazardous substances; and risk assessment.
Tip: The program currently funds 19 grants for a total of 234 research projects and involves 70 collaborating universities and institutions.

Behavioral Sciences Centers (NIMH) [2836]
Scope: The National Institute of Mental Health seeks applications to create translational research centers in the behavioral sciences to advance work from basic behavioral science research and relevant neuroscience research to pressing practical treatment and other issues (Aug 27 NIH Guide)
Deadline: Sept. 22 for letters of intent; Nov. 15 for applications.
Funds: Center awards are limited to $1.5 million a year each in direct costs for five years.
Areas: Centers should transcend discipline boundaries integrating research teams drawn from basic behavioral and social sciences, neuroscience, epidemiology, prevention, academic mental health and mental health services delivery. Centers develop hypothesis-driven approaches to important quests or a focused set of research issues, such as cognition (learning, memory and perception), affective processes (emotion, mood and motivation); attitudes and persuasion; and biobehavioral processes such as sleeping and eating.

Environmental Education Grants (EPA) [2837]
Scope: The Environmental Protection Agency invites proposals for education projects that promote environmental stewardship (Sept. 15 Federal Register).
Deadline: Nov. 15.
Funds: Fiscal 2005 funding is not yet set, but the agency says approximately $3 million a year usually is available. The program involves two competitions: for proposals requesting $50,000 or less, which are submitted to EPA regional offices; and requests for more than $50,000, which must be submitted to EPA headquarters. Grants totaling more than 100,000 are rare and awards may not exceed $150,000. The...
An Eye on Funding (continued from page 11)

proposals for outreach activities such as workshops and conferences to provide state and tribal environmental personnel the latest tools to implement water quality monitoring and data collection.

**Deadline:** Nov. 8.
**Funds:** $850,000 for one award over three years.

**Areas:** The awardee will provide state/tribal personnel with the latest water quality monitoring technology developed by the EPA’s Environmental Monitoring and Assessment Program (EMAP).

**Ecosystem Research Partnerships (EPA) [2837]**

**Scope:** The Environmental Protection Agency’s Western Ecology Division seeks cooperative agreement proposals for outreach activities such as workshops and conferences to provide state and tribal environmental personnel the latest tools to implement water quality monitoring and data collection.

**Deadline:** Nov. 8.
**Funds:** $850,000 for one award over three years.

**Areas:** The awardee will provide state/tribal personnel with the latest water quality monitoring technology developed by the EPA’s Environmental Monitoring and Assessment Program (EMAP).

**Fingerprint/Palm Print Technology (DoJ) [2837]**

**Scope:** The Justice Department’s National Institute of Justice invites proposals to advance the current state of technology for capturing fingerprints and/or palm prints for use in national security and anticrime efforts.

**Deadline:** Nov. 8.
**Funds:** Funding varies and depends on the number and quality of proposals.

**Areas:** Research should overcome current limitations, such as: the need to have a trained technician take prints; rolled prints can be taken only one at a time; small amounts of contamination and excessively dry/moist skin can hamper capture of an acceptable image; prints of some persons with fine or worn friction ridges cannot be captured; the current process is too slow, taking five to 10 minutes to take a print; and acquisition and maintenance costs limit widespread deployment of current techniques.

**Earth Sciences Research (NSF) [2837]**

**Scope:** The National Science Foundation’s Division of Earth Sciences invites proposals for a variety of research and education projects.

**Deadline:** Annual deadlines vary by activity, including: (preliminary proposals) Nov. 15 for continental dynamics; (full proposals) Dec. 1 and July 16 for geobiology, environmental geochemistry, geophysics, hydrologic sciences, instrumentation, facilities, sedimentary geology and paleobiology; June 1 for geophysics, hydrologic sciences, petrology, geochemistry and tectonics; July 16 for EarthScope; and Aug. 17 for Research Experiences for Undergraduate site proposals to the Education and Human Resources Program.

**Funds:** NSF estimates $500 to 600 awards will be made in the Earth sciences totaling $150 million. Award sizes vary, but there are budget limitations on certain types of grants, for example, $50,000 for equipment requests linked to research projects.

**Areas:** The division supports research and education focused on understanding earth
dynamics and centering on the earth's interior and terrestrial surface, including freshwater systems and interactions with the biosphere and atmosphere. Funds support field, laboratory and theoretical studies in any discipline of earth science, including geology, geobiology, geophysics, geochemistry; geodesy, geolimnology, geomorphology, economic geology, environmental science, hydrology, paleontology, petrology, sedimentology, seismology, stratigraphy, structural geology, tectonics and volcanology.

Long-Range Science, Technology (ONR) [2837]

Scope: The Office of Naval Research seeks proposals for long-range science and technology projects with potential for advancing and improving Navy and Marine Corps operations.


Funds: Awards may take the form of grants, cooperative agreements or other transaction agreements. Award type, size and duration will vary by research area.

Areas: The announcement is restricted to work involving basic and applied research and that portion of advanced technology development not related to a specific system or hardware. Interest areas from ocean sciences to force protection are listed on the ONR home page (www.onr.navy.mil/sci_tech/).

The National Geographic

Scope: The National Geographic Society (NGS) awards grants for scientific field research and exploration through its Committee for Research and Exploration. All proposed projects must have both a geographical dimension and relevance to other scientific fields and be of broad scientific interest. Applications are generally limited to the following disciplines: anthropology, archaeology, astronomy, biology, botany, geography, geology, oceanography, paleontology, and zoology. In addition, the committee is emphasizing multidisciplinary projects that address environmental issues (e.g., loss of biodiversity and habitat, effects of human-population pressures). The committee will not consider applications seeking support solely for laboratory work or archival research. While grants are awarded on the basis of scientific merit and exist independent of the Society’s other divisions, grant recipients are expected to provide the Society with rights of first refusal for popular publication of their findings.

Eligibility: Applicants are expected to have advanced degrees (Ph.D. or equivalent) and be associated with an educational organization or institution.

Funds: While grant amounts vary greatly, most range from U.S. $15,000 to $20,000. There is no set quantity of grants awarded, but budget constraints keep the number to approximately 250 per year. As NGS funds are intended to function as complementary support, the committee strongly encourages applicants to seek additional, concurrent funding from other funding agencies. Committee grants tend to act as seed money and are given for one year's research. Sometimes, but rarely, the committee will fund a maximum of two years of research. If the project director in your project feels that there are distinctive and substantive reasons for submitting a two-year application, he or she should understand that competition is keen, and awards for two years are scarce.

Cybersecurity Research (DHS) [2838]

Scope: The Homeland Security Department seeks white papers and proposals for research on development and deployment of technologies to protect the nation's cyber infrastructure, including the Internet.


Funds: $4.5 million total for multiple awards.

Areas: The solicitation focuses on: performing research and development aimed at improving the security of existing deployed technologies and to ensure the security of new emerging systems; developing new and enhanced technologies to detect, prevent and respond to cyber attacks on the information infrastructure; and integrating the technologies into the national infrastructure.

Explorer Institutes Focus Groups (NASA) [2838]

Scope: The National Aeronautics and Space Administration's Informal Education Division invites applications to conduct science education focus groups that will help identify the capabilities of the informal education community to inspire a new generation of space explorers through access to NASA's staff, research, technology, information and/or facilities.

Deadline: Oct. 15 for letters of intent; Nov. 12 for proposals.

Funds: Up to $50,000 per project for 10 awards.

Areas: Grants will provide guidance for the new national level program—NASA Explorer Institutes—which will encourage and support projects to: improve the public’s understanding and appreciation of science, technology, engineering and mathematics (STEM) disciplines; establish links that promote new relationships between providers of informal and formal education, resulting in improved and creative STEM education; expand STEM informal education to underserved communities; and encourage parents to support children’s learning endeavors.

Fulbright-Hays Group Project Abroad (ED) [2838]

Scope: The Education Department seeks applications for short-term seminars, curriculum development or group research abroad (Sept. 23 Federal Register).

Deadline: Nov. 2.

Funds: $4.3 million for 61 awards of $50,000 to $80,000 each for short-term seminars, curriculum development or group study; or $50,000 to $310, for advanced overseas intensive language projects. The project period is up to three years.

Areas: ED will fund only group project applications that address: Africa, East Asia, South Asia, Southeast Asia and the Pacific, the Western Hemisphere (Central and South America, Mexico and the Caribbean), East Central Europe and Eurasia and the Near East. Additional, ED will give an extra five points to applications for short-term seminars that develop and improve foreign language and area studies at K-12 schools. ED also encourages group study projects that provide opportunities for nationally recruited undergraduate students to study in a foreign country for a semester or a full academic year.
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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