



MAY 19, 2003

URL: www.hofstra.edu/grants

Dear Faculty:

On May 9, in a memo addressed to all Full Time Faculty, Provost Herman Berliner announced a new initiative to increase grant-seeking activity at Hofstra University. The Provost announced that in recognition of the tremendous time commitment required to prepare a competitive grant proposal, President Stuart Rabinowitz has established a fund that will allow for the payment of stipends, ranging from \$2,500 - \$10,000, in recognition of the work involved in preparing a major new proposal for submission to a juried grant competition. For complete information regarding this new program, please visit www.hofstra.edu/grants or www.hofstra.edu/research.

Colleges and universities worldwide have long relied upon philanthropy and funding through juried competitions to help meet the costs of fulfilling the common tri-fold missions of education, research, and service. It is clear that tuition dollars alone will not suffice for those institutions that seek to excel in carrying out their missions. That, in my view, is what this new grant writing initiative is all about. Grant income, acquired through juried competitions will provide Hofstra University with greater opportunity to excel – to be among the nation's best in a variety of disciplines and activities. In addition to providing you, the faculty member, the opportunity to continue to grow as a professional and to contribute to the advancement of your discipline, juried grant competitions will provide advanced instrumentation for the sciences, paid research experiences for students, and much, much more.

As the academic year comes to a close, please keep in mind that the Office for Research and Sponsored Programs never closes. We are here, year round, to help you identify potential funding sources and to assist you in preparing complete and responsive grant proposals. We are here in June, July and August, and many of our services are available – online – if the mood strikes you at midnight! We wish you a great summer and hope to see you throughout the summer break.

Thomas O. Murphy
Associate Provost for Research and Sponsored Programs
Extension 3-6810

Arts in Education Model: Development and Dissemination Grant Program

Office of Innovation and Improvement

U.S. Department of Education

Application due date: July 10, 2003.

URL: <http://a257.g.akamaitech.net/7/257/2422/14mar20010800/edocket.access.gpo.gov/2003/03-12119.htm>

The Arts in Education Model Development and Dissemination Grant Program supports the development, documentation, evaluation and dissemination of innovative, cohesive models that have demonstrated their effectiveness in (1) integrating arts into the core elementary and middle school curricula, (2) strengthening arts instruction in these grades, and (3) improving students' academic performance, including their skills in creating, performing, and responding to the arts.

The Arts in Education Model Development and Dissemination Grant Program provides resources that local educational agencies (LEAs) and other eligible applicants can use in pursuit of the objectives of the No Child Left Behind Act which aims for all elementary and secondary students to achieve high standards. This program provides an opportunity for eligible entities to develop programs in schools identified for improvement, corrective action, or restructuring under Title I, Part A of the ESEA.

Eligible Applicants include institutions of higher education and partnerships involving IHEs and Local Education Agencies. Estimated Average Size of Awards: 750,000 total for the 3-year project period; equates to an average of \$250,000 per year. Estimated Number of Awards: 33. Although not required, the sponsor requests an e-mail notification of intent to apply by June 16. Applications must be received by July 10.

For further information, visit the URL listed above or contact Tom Murphy in the Office for Research and Sponsored Programs at extension 3-6810.

Approaches to Combat Terrorism (ACT)

Proposal due date: July 17, 2003.

Opportunities in Basic Research in the Mathematical and Physical Sciences with the Potential to Contribute to National Security. A Partnership Between The NSF Directorate of Mathematical and Physical Sciences and The Intelligence Community

URL: http://www.nsf.gov/pubsys/ods/getpub.cfm?ods_key=nsf03569

The National Science Foundation's Directorate for Mathematical and Physical Sciences (MPS) and the nation's Intelligence Community (IC) are coordinating efforts to identify bold new concepts in basic research and workforce development in the MPS disciplines with the potential to contribute to national security. NSF Program solicitation # NSF 03-569 is intended to inform researchers in disciplines supported by the MPS Directorate - the Divisions of Astronomical Sciences, Chemistry, Materials Research, Mathematical Sciences, and Physics - that NSF welcomes proposals that promote the objectives of this ACT pilot program. A number of possible research areas are presented below. The examples provided are only meant to be illustrative and not exhaustive: Unanticipated approaches to enhancing national security are especially valuable.

Astronomical Sciences: Activities involving remote sensing and image reconstruction over the full spectral range are of interest. Advanced optical designs, including miniaturization, adaptive optics, and the measurement and characterization of atmospheric turbulence are all of relevance. Astronomy is well known for its sensitive detectors in radio frequencies. Their further use in personal security applications, surveillance, localization, and tracking are potential areas for development.

Chemistry: New types of energy conversion schemes and catalysts are of considerable interest. Innovations involving high-energy fuels, electrode materials, and membranes and their incorporation into batteries and fuel cells could lead to useful new technologies and applications, including those that involve miniaturization. New types of energy delivery systems may be derived from biological, nuclear, and photochemical sources. Hybrid organic/inorganic nanotechnology might be applied to increase charge storage and to make needed electrochemical cell components and connections. Theory, modeling, and simulation studies can contribute greatly to improving IC capabilities in each of these areas. Spectroscopic advances that could be beneficial include greater understanding and use of terahertz spectroscopy, combinations of spectroscopic signatures of chemical and biological agents and explosives, and improved sources and detectors. Future sensors might be founded on new sensing principles, such as those used by insects. Efforts in molecular electronics could make possible simultaneous recognition and signal transduction in single molecular complexes.

Materials Research: Sensor materials, including those for identification, detection and source location of chemicals, biological species, and radiation, are of interest. Quantum or classical solid state and single-molecule technology for encryption and signal processing have considerable promise for enhancing security, as do materials for energy storage and conversion, including photovoltaics, batteries, fuel cells, thermoelectrics and hybrid materials. Novel nanoscale materials such as quantum dots and nanowires may afford revolutionary performance for portable electronic and photonic components and for devices, communications, and instrumentation. Adaptive or 'smart' materials could provide enhanced surveillance capabilities and human protection.

Mathematical Sciences: Important areas of opportunity are analysis and information synthesis from multiple, large datasets; image recognition and analysis; signal processing for speech; and mathematical modeling of new materials, processes, and devices, often under novel constraints. Key issues in every area are mathematical techniques to represent, manipulate, and analyze data, and effective models, algorithms, and implementations. Analysis and information synthesis involves problems of uncertainty, data fusion, feature extraction, data synopsis and metadata, partial disclosure, and high dimensionality. Image recognition and analysis involves the same issues with the complication that the data are images. Other problems include feature detection, landmarks and registration and characterization of natural images. Data presentation is a critical issue, especially of metadata and in processes that require human mediation. The analysis and design of robust systems in communications, transport, and security is critical.

Physics: Several large Physics Division Programs are involved in basic research that might have applicability to improved detection methods and other intelligence needs. Research in complex systems by mathematical physicists may prove valuable in national security contexts.

Scientific Workforce: An important cross-MPS theme is the development of the scientific workforce. Research proposals that have the potential to contribute to the long-range goal of increasing our workforce capabilities and public understanding of science associated with national security are encouraged. Instrumentation provides an example of a strategy for achieving this goal: Ruggedized, miniaturized and inexpensive versions of scientific instruments would not only make them more practical for security uses, but would have the dual benefit of making them more accessible to schools and homes. Such expanded opportunities for hands-on scientific experimentation could, in turn, attract a larger, more diverse group of talented students to careers in MPS disciplines and enhance science literacy related to national security.

For further information regarding this new program, please visit the URL cited above. The Program Solicitation provides names of and telephone numbers of program officers whom you may contact with remaining questions.

Societal Dimensions of Engineering, Science, and Technology

National Science Foundation

Proposal due date: August 1, 2003.

URL: <http://www.nsf.gov/pubs/2001/nsf01152/nsf01152.html>

The Societal Dimensions of Engineering, Science, and Technology (SDEST) program has two major program areas. One is called Ethics and Values Studies (EVS); the other, Research on Knowledge, Science and Technology (RST). The Societal Dimensions program is in the Division of Social and Economic Sciences (SES) in the Directorate for Social, Behavioral and Economic Sciences (SBE) of the National Science Foundation.

SDEST considers proposals that examine questions that arise in the interactions of engineering, science, technology and society. Ethics and Values Studies supports examinations of the ethical and value dimensions in those interactions. Research on Knowledge, Science and Technology supports research on social and strategic choices that influence knowledge production and innovation and their effects.

Standard Grants include proposals for research, infrastructure or education projects. Applicants should contact the program to discuss their ideas before preparing submissions for education projects. SDEST **Scholar Awards** enable individuals to undertake full time research during part or all of an academic year or summer. Normally, Scholar Awards allow up to \$20,000 for partial support of full time summer research and/or related costs, and up to \$70,000 for partial support of one or more semesters of full time academic year release time and related expenses. The maximum inclusive award in this category is \$150,000; this is expected to extend over at least 24 months

NSF makes approximately 30 new awards each year under this program, with an annual budget of about \$2.75 million. In accordance with the NSF Strategic Plan, program goals include advancing scholarly and scientific work in these areas and making research results of broad use in educational, policy and other settings. For further information, visit the URL cited above or contact Tom Murphy in the Office for Research and Sponsored Programs at 3-6810.

Targeted Grants for Research Directed at Poor and Underserved Populations

American Cancer Society

Application due date: October 15, 2003.

URL: http://www.cancer.org/docroot/RES/content/RES_5_2x_Targeted_Grants_for_Research_Directed_at_Poor_and_Underserved_Populations.asp?sitearea=RES

In order to make a significant and specific impact on the control of cancer, the Board of Directors of the American Cancer Society has targeted 10% of the research budget to high priority needs. The Society has identified a critical need for research on prevalence, early detection, prevention, and treatment of cancer in poor and underserved populations. Despite the progress in the fight against cancer that has seen a steady decline in cancer incidence and mortality rates since 1992, some Americans continue to bear a disproportionate share of the cancer burden. Poor Americans, irrespective of race, have a 10 to 15% decreased rate of survival from cancer compared to the general population. Smoking has become increasingly concentrated among socioeconomically disadvantaged Americans. Smoking among adults with less than a high school education decreased by only 14% compared to 58% among adults with at least a college degree. The American Cancer Society is very concerned about this disparity in cancer incidence and mortality and wants to support research to address this problem.

Proposals submitted in response to this RFA must focus on poor or underserved populations, but may address a variety of behavioral, epidemiological, policy, health delivery, clinical and basic science issues. Interdisciplinary collaborations are encouraged and the novelty and uniqueness of the proposed projects will be an important aspect in the evaluation process.

The American Cancer Society has a strong commitment to Behavioral, Psychosocial and Health Policy research and applications dealing with such investigations are particularly welcome. Examples are studies dealing with early detection strategies and outcome, how to achieve broader access and willingness to utilize mammography, PSA determination, colonoscopy, and other early detection procedures. Cancer prevention strategies are another example. These include, but are not limited to, the identification of risk factors and how they might be modified by dietary means, physical activity, protection from sun, and of course abstention from smoking. Also included within this RFA are proposals dealing with national and local policies that affect the availability of health care and health care delivery to specific population groups. Studies to identify molecular determinants that may put poor and underserved populations at higher risk of cancer incidence and progression, with the specific purpose of developing strategies to overcome or eliminate these risks, will also be considered.

For further information, visit the URL listed above or contact Tom Murphy in the Office for Research and Sponsored Programs at extension 3-6810.

**For further information regarding the new
Grant Writing Stipends Program for Full Time Hofstra Faculty
visit www.hofstra.edu/grants**

Developmental and Learning Sciences

National Science Foundation

Proposal due date: July 15, 2003.

URL: <http://www.nsf.gov/pubs/2002/nsf02008/nsf02008.htm>

This program supports studies that increase our understanding of cognitive, linguistic, social, cultural, and biological processes related to children's and adolescents' development. Additional priorities are to support developmental research that: incorporates multidisciplinary, multi-method, microgenetic, and longitudinal approaches; develops new methods and theories; examines transfer of knowledge from one domain to another and from one situation to another; assesses peer relations, family interactions, social identities, and motivation; examines the impact of family, school, and community resources; assesses adolescents' preparation for entry into the workforce; and investigates the role of demographic characteristics and cultural influences on children's development. Research supported by this program will add to our basic knowledge of how people learn and the underlying developmental processes that support learning, with the objective of leading to better educated children and adolescents who grow up to take productive roles as workers and as citizens. For further information, contact the Office for Research and Sponsored Programs (ext 3-6810) or visit the cited URL.

Human Cognition and Perception Program

National Science Foundation

Proposal due date: July 15, 2003.

URL: <http://www.nsf.gov/sbe/bcs/hcp/start.htm>

The Human Cognition and Perception Program supports basic research on human cognitive and perceptual functions, and the development of these functions in children. Specific topics include, but are not limited to, visual, auditory, and tactile perception, perceptual and conceptual development, attention, memory, spatial cognition, learning, language processing, reading, motor control, and reasoning. Research supported by the program encompasses a broad range of theoretical perspectives (e.g., symbolic computation, connectionism, dynamical systems), and a wide variety of methods (e.g., experimental studies of normal or cognitively impaired adults or children, computational modeling, functional neuroimaging). For further information, contact the Office for Research and Sponsored Programs at extension 3-6810 or visit the URL cited above.

Social Psychology Program

National Science Foundation

Proposal due date: July 15, 2003.

URL: <http://www.nsf.gov/sbe/bcs/socpsy/start.htm>

The Social Psychology Program at NSF supports basic research on human social behavior, including cultural differences and development over the life span. Among the many research topics supported are: attitude formation and change, social cognition, personality processes, interpersonal relations and group processes, the self, emotion, social comparison and social influence, the social psychology of health, and the psycho-physiological correlates of social behavior. The scientific merit of a proposal depends on four important factors: (1) The problems investigated must be theoretically grounded. (2) The research should be based on empirical observation or be subject to empirical validation. (3) The research design must be appropriate to the questions asked. (4) The proposed research must advance basic understanding of social behavior. For further information, contact the Office for Research and Sponsored Programs at extension 3-6810 or visit the URL cited above.

Doctoral Dissertation Research Grants

American Psychological Association

Proposal due dates: September 15, 2003.

URL: <http://www.apa.org/science/dissinfo.html>

The Science Directorate of the American Psychological Association sponsors an annual competition for dissertation research funding. The purpose of the Dissertation Research Award program is to assist science-oriented doctoral students of psychology with research costs. Fifty grants are expected to be awarded in this round of competition. Applicants must be student affiliates or associate members of the American Psychological Association. Students who are not affiliates must apply for affiliation when submitting materials for the Dissertation Research Award. Each psychology department (i.e., not individual programs within a department) may endorse no more than three students per year. A brief proposal is required, including: (1) a 1-page maximum typed cover letter describing your research interests and experience, as well as your career plans; (2) a page maximum summary of the dissertation research, including an explanation of research design and other important aspects of the project, and a brief explanation of proposed use of funds (i.e., a budget); (3) a 2-page maximum Curriculum Vitae; and, (4) a letter of recommendation from your academic advisor or professor.

Academic Research Enhancement Award Program (AREA Grants)

National Institutes of Health

Application receipt dates: September 25, January 25 and May 25 annually.

URL: <http://grants1.nih.gov/grants/guide/pa-files/PA-03-053.html>

The Academic Research Enhancement Award (AREA) program of the National Institutes of Health (NIH) is a special grant program designed to stimulate research in educational institutions that concentrate heavily on baccalaureate training. It is expected that investigators supported under the AREA program will benefit from the opportunity to conduct independent research and that the grantee institution will benefit from a research environment strengthened through AREA grants. In particular, it is intended that undergraduate students are to benefit from exposure to and participation in AREA research and, in the process, are encouraged to pursue graduate education in these fields of study. Through the AREA grant mechanism, researchers are provided \$150,000 in direct costs which can be used over periods of one to three years. Allowable direct costs include salaries for the principal investigator and other research personnel (including students), supplies, equipment, travel and other items specifically associated with the proposed research project. In a recent year, 174 of 441 AREA grant applications were awarded – an approval rate of just less than 40 percent. A review of NIH project abstracts reveals that AREA grants are frequently awarded to faculty in chemistry, biology, psychology and the speech-language-hearing sciences. For further information on the NIH AREA grant program, contact Tom Murphy at extension 3-6810, or visit the URL cited above.

Research in Undergraduate Institutions (RUI)

National Science Foundation

Proposal due date: Varies. September 30 for most programs.

URL: http://www.nsf.gov/pubsys/ods/getpub.cfm?ods_key=nsf00144

Predominantly undergraduate institutions play a critically important role in U.S. science and technology through their substantial contributions to research and education. NSF encourages research by faculty members of these institutions, both to ensure a broad national base for research and to help faculty members stay at the cutting edge of their disciplines. The Research in Undergraduate Institutions (RUI) activity supports research by faculty members of predominantly undergraduate institutions through the funding of (1) individual and collaborative research projects, (2) the purchase of shared-use research instrumentation, and (3) Research Opportunity Awards for work with NSF-supported investigators at other institutions. The specific objectives of RUI are to (1) support high-quality research by faculty members of predominantly undergraduate institutions, (2) strengthen the research environment in academic departments that are oriented primarily toward undergraduate instruction, and (3) promote the integration of research and education. The involvement of undergraduate students is an important feature of RUI, providing them with research-rich learning environments. However, the overriding purpose of RUI is the support of faculty research, which maintains faculty members' intellectual vibrancy in the classroom and research community. Awards for faculty research projects will usually be for a period of 3 years. The generally accepted deadline for submission of RUI proposals to NSF is September 30, however, many NSF programs have deadlines or target dates to allow time for consideration by review panels that meet periodically. Therefore, potential applicants are urged to confirm a proposal due date by referring to the program's page on the NSF Web or by consulting with an appropriate NSF program officer.

Predominantly undergraduate institutions are defined in terms of the nature of the institution, not solely on the basis of highest degree offered; thus, Hofstra University is eligible for RUI competition. For further information, contact Tom Murphy in the Office for Research and Sponsored Programs at extension 3-6810 or visit the URL cited above.

Fellowships in the Social Sciences and Humanities

Woodrow Wilson International Center for Scholars

Application due date: October 1, 2003.

URL: <http://wwics.si.edu/index.cfm?fuseaction=fellowships.welcome>

The Woodrow Wilson International Center for Scholars has announced the opening of its 2004-2005 Fellowship competition. The Center awards academic year fellowship awards to men and women with outstanding project proposals on national and/or international issues. Projects should have relevance to the world of public policy or provide the historical framework to illumine policy issues of contemporary importance. Fellows are provided offices, access to the Library of Congress, Windows-based personal computers, and research assistants. Stipends provided in 2002 ranged from \$26,200 to \$85,000. In 2002-2003, the Center expects to be able to award a few fellowships at a higher stipend level, up to a maximum of \$85,000. The Center awards approximately 20-25 residential fellowships annually. For further information, contact Tom Murphy in the Office for Research and Sponsored Programs at extension 3-6810 or visit the URL cited above.

Summer Stipends Program, National Endowment for the Humanities

Self-nominations due: Between September 1-12. Full proposal submission date: October 1, 2003.

NEH Summer Stipends provide opportunities for individuals to pursue advanced work in the humanities. Each Summer Stipend provides \$5,000 for two consecutive, uninterrupted months of full-time independent study and research. Summer Stipends normally support work carried out during the summer months, but arrangements can be made for holding tenure at other times of the year. Persons planning to begin after April 30, 2004, should apply to the October 1, 2003 deadline. Projects may contribute to scholarly knowledge or to the general public's understanding of the humanities. Recipients might eventually produce scholarly articles, a monograph on a specialized subject, a book on a broad topic, an archaeological site report, a translation, an edition, or other scholarly tools. Summer Stipend awards may be used to support either projects that can be completed during the tenure of an award or those that are part of a long-term endeavor. Each college and university in the United States may nominate two members of its faculty for the competition. Of the two, at least one should be a junior nominee, i.e., a person who holds the rank of instructor or assistant professor or who is at a comparably early stage of her/his career. Any faculty member who wishes to be considered as a candidate for a NEH Summer Stipend should submit her/his self-nomination to Thomas O. Murphy (ext. 3-6810) in the Office for Research and Sponsored Programs between September 1 and 12, 2003.

NEH Summer Stipend applicants from colleges and universities, must be selected by their home institution... This process begins with a self-nomination process in early September.

Looking ahead...

A Selection of Upcoming Institutional/Program Improvement Grant Competitions

Consistently successful grant applicants know that with many government-sponsored grant competitions you can dramatically improve your chances of success simply through reasoned planning.

We know that certain grant competitions have been held annually for many years and are likely to continue in Fiscal Year 2004. So, why wait another three or four months for new application guidelines to be released in the Federal Register? Wouldn't it make sense to become familiar with existing materials now and begin preliminary work and planning months this summer? *Perhaps with one of the University's new grant writing stipends?*

If you would like to try this approach, give us a call. Following is a sampling of grant competitions of potential interest to the Hofstra community - all sponsored by agencies of the Federal government over the past several years. In each case, we can reasonably expect that the grant competition will be held, again, in Fiscal Year 2004.

The Office for Research and Sponsored Programs can provide you a copy of last year's guidelines for any of these competitions and many more. If you would like our assistance in learning about ongoing programs supported through these grant competitions at other universities across the nation, give us a call. And, if you would like our assistance in planning a telephone conversation or an in-person meeting with an agency representative concerning the next round of grant competition, we welcome the chance to help. By planning ahead in this fashion, Hofstra University's chances for funding through competition in Federal Fiscal Year 2004 will be greatly improved. Fall/Winter 2003 competitions include:

Research Experiences for Undergraduates

National Science Foundation (Application due date: September 15, 2003).

Undergraduate Mentoring in Environmental Biology

National Science Foundation (Application due date: October 31, 2003).

Undergraduate International Studies and Foreign Language Program

U.S. Department of Education (Approximate due date: Early November 2003).

Business and International Education Program

U.S. Department of Education (Approximate due date: Early November 2003).

Initiatives for Minority Student Development: Bridges to the Baccalaureate

National Institutes of Health (Approximate due date: Mid-November 2003).

Major Research Instrumentation Program

National Science Foundation (Application due date: January 25, 2004).