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From the Desk of the Director

NSF Budget Would Grow by 13%, Adding Science and Education Programs

By Jeffrey Mervis, Science Insider, www.sciencemag.org

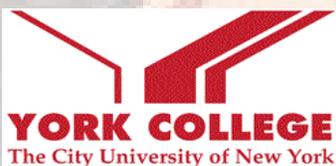
The National Science Foundation (NSF) would receive a 13% increase in President Barack Obama's 2012 budget, to \$7.77 billion. That huge jump in the document that Obama submitted today to Congress would keep it on track for a 10-year (2006 to 2016) doubling that is authorized under last year's America COMPETES Act.

Inside this Issue:

| | |
|-------------------------------|------|
| From the Desk of the Director | 1-2 |
| Policies & Procedures | 3 |
| Research Spotlight | 4 |
| Funding At-A-Glance | 5-6 |
| Funding Opportunities | 7-12 |
| Proposals Awarded/Submitted | 13 |
| Announcements | 14 |
| ORSP Contact Information | 15 |

The request certainly delivers on the president's promise in his State of the Union speech to "out-innovate and out-educate" the rest of the world. But it's a figure that few expect to be reached once Congress has completed work on the request.

The budget would boost research support by 12%, to \$6.23 billion. Several initiatives emphasize interdisciplinary science, an approach that reflects the preferences of the new NSF Director Subra Suresh, who championed such research in his previous position as engineering dean at the Massachusetts Institute of Technology. Among them is a new \$30 million National Robotics Initiative in collaboration with other federal agencies. NSF's 2012 request would also continue work on five major facilities now under construction. But it drops all support for the proposed Deep Underground Science and Engineering Laboratory (DUSEL) in South Dakota, which NSF's oversight board has said is not consistent with the agency's mission.



NSF Budget Would Grow by 13%, Adding Science and Education Programs contd.

The biggest changes from current activities would come within the foundation's education directorate. Although the directorate would receive a boost of only 4%, to \$911 million, several programs aimed at increasing the quality of U.S. science education are being revamped. One shocker would be to eliminate the Graduate STEM Fellows in K-12 Education Program, a decade-long attempt to lure graduate students into the schools that was begun by former NSF Director Rita Colwell. NSF is also phasing out its Science of Learning Centers, which funds several large centers that focus on research to improve student learning.

At the same time, NSF hopes to launch a \$20 million program to improve the training of future teachers and the skills of those already in the classroom. The money for what's dubbed Teacher Learning for the Future is being taken from its Noyce fellowship program, which supports undergraduate science majors who promise to teach, and its Math Science and Partnerships program, which links university researchers and local school districts. The program would complement an \$80 million effort to be run by the Department of Education.

NSF has also proposed expanding its efforts to attract more minorities into science with a \$20 million pilot project called Transforming Broadening Participation through STEM. It is intended to emphasize Hispanic-serving institutions and would complement existing programs aimed at historically black colleges and tribal institutions that Congress has told NSF to preserve.



RESEARCH SPOTLIGHT

Time Warner Cable Awards York \$15,000 Grant for SEMAA Program

Drs. Nazrul Khandaker and Timothy Paglione, Co-directors of the Science, Engineering, Mathematics, & Aerospace Academy (SEMAA) for the last five years recently received a \$15,000 grant from Time Warner Cable to support the arm of the program that introduces students in the community to the National Aeronautics and Space Administration (NASA). The award will also help to continue to engage, inspire and educate over 1,300 first through ninth graders annually, help to enroll more students from underrepresented groups in the Science, Technology, Engineering and Math (STEM) fields, and leverage more partnerships to strengthen the SEMAA program and increase professional development of New York City's science teachers.

The SEMAA program to date has served over 11,000 students mainly from minority groups residing in South Central Queens. Students are provided free school lunch during the summer months because of a partnership with the NYC Department of Education, complete activities with the 4-H Club, and utilize services at the Queens Central Library. These are a few of the activities provided by SEMAA and the partnerships that are helping to make SEMAA such a success.



Nazrul Khandaker
Earth & Physical Sciences



Timothy Paglione
Earth & Physical Sciences

Policies and Procedures of the Office of Research and Sponsored Programs for Submitting Applications and Proposals

The Office of Research and Sponsored Programs (ORSP) is the only office designated to submit grant proposals to funding sources on behalf of York College, the City University of New York. As such, the goal of the office is to ensure all research and sponsored programs proposals are prepared and monitored in accordance with all applicable Federal and State regulations; OMB Circular A21, and College and University policies and procedures. In order to do this effectively and efficiently all who are applying for grants must adhere to the following procedures:

- **Every** proposal whether it requires a signature or not **must** be reviewed and approved by ORSP before submittal
- Proposals **must** be submitted to ORSP **ten business days** prior to the deadline of the funding source for **review, approval and submission**
- Proposals **must** be complete with budget and budget justification in order to allow sufficient time for adequate review and submission
- Proposals being submitted electronically must be received with all information uploaded as electronic files for review which will then be submitted by this office via electronic portal. **Files must be converted to PDF if necessary.**
- Proposal Certification and Conflict of Interest forms **must** accompany proposals at time of submission to the ORSP (forms are located in the ORSP office)

Remember the Office of Research and Sponsored Programs is here to assist you, both in preparing and submitting proposals. Making sure a sound proposal is submitted takes time and teamwork on the part of the Principal Investigator and the office of ORSP.



FUNDING AT-A-GLANCE

| Listing | Funding Agency | Program Title | Deadline | Amount | Page |
|--------------------------------------|--|---|-----------------|------------------------|-------------|
| Accounting & Business | Equipment Leasing and Finance Foundation | Research Grant Program | Open | To Be Determined | 7 |
| Aviation Sciences | National Aeronautics and Space Administration (NASA) | Research Opportunities in Aeronautics (ROA) | 7/15/11 | To Be Determined | 7 |
| Behavioral Sciences | United States Department of Education (ED) | Models of Exemplary, Effective, and Promising Alcohol or Other Drug Abuse Prevention Programs on College Campuses | 5/31/11 | \$125,000 to \$175,000 | 8 |
| Biology | National Science Foundation (NSF) | Undergraduate Research and Mentoring in the Biological Sciences (URM) | 5/1/11 | \$1,000,000 | 8 |
| Collaborative Research | United States Department of Education (ED) | Business and International Business Program | 3/2/11 | See Post | 8 |
| | National Science Foundation (NSF) | Fostering Interdisciplinary Research on Education (FIRE) | 4/29/11 | See Post | 8 |
| Earth & Physical Sciences | Environmental Protection Agency (EPA) | Dynamic Air Quality Management | 4/26/11 | See Post | 9 |
| English | Axe-Houghton Foundation | Grants | 9/1/11 | \$8,000 | 9 |
| General | American Honda Foundation (AHF) | Institutional Grants for Youth and Science Education | 5/1/11 | \$20,000 to \$60,000 | 10 |
| | National Science Foundation (NSF) | Transforming Undergraduate Education in Science, Technology, Engineering and Mathematics (TUES) | 5/26/11 | See Post | 10 |

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|-----------------------------------|---------------------------------------|--|----------------|------------------|-----------|
| Health Professions | American Nurses Foundation (ANF) | Nursing Research Grants Program | 5/2/11 | To Be Determined | 11 |
| Humanities | Gladys Kriebel Delmas Foundation | Humanities Program | Open | To Be Determined | 11 |
| International Studies | US Department of Education (ED) | International Research and Studies Program | 5/1/11 | See Post | 12 |
| Performing & Fine Arts | National Endowment for the Arts (NEA) | Challenge America Fast-Track | 5/26/11 | \$10,000 | 12 |
| Political Sciences | National Science Foundation (NSF) | Political Sciences Program | 8/15/11 | To Be Determined | 12 |



FUNDING OPPORTUNITIES

Accounting & Business

Equipment Leasing and Finance Foundation

<http://www.leasefoundation.org/Grants/About.htm>

Deadline: Open (Proposals can be submitted the 15th of every month)

Research Grant Program

The foundation encourages research to expand the body of knowledge about equipment lease financing in the U.S. economy. In addition, the foundation seeks to broaden its constituency by establishing and maintaining mutually beneficial relationships with individuals in the academic community. Honorariums are available to encourage academics in all fields of scholarship to study topics of interest to the foundation and its constituency. Topics of interest to leasing professionals include, but are not limited to, the following issues: strategic management or planning; accounting; financial reporting; tax; legislative or regulatory developments; contracts and documentation; finance; sales and marketing; electronic commerce; credit and collections; software; economics; portfolio or risk management; operations; and benchmarking or best practices. The subject matter must have practical application to professionals in the leasing and finance business.

Amount of Award: To Be Determined



Aviation Sciences

National Aeronautics and Space Administration (NASA)

<http://www.grants.gov/search/search.do?mode=VIEW&oppId=54960>

Deadline: July 15, 2010

Research Opportunities in Aeronautics (ROA)

This Research Opportunity in Aeronautics (ROA) NASA Research Announcement (NRA) solicits fundamental research proposals for the five programs within ARMD: the Airspace Systems Program, the Aviation Safety Program, the Fundamental Aeronautics Program, the Integrated Systems Research Program, and the Aeronautics Test Program. The Airspace Systems Program will directly address the Air Traffic Management (ATM) research needs of the Next Generation Air Transportation Systems (NextGen) initiative as defined by the Joint Planning and Development Office (JPDO). The Aviation Safety Program will take a proactive approach to safety challenges with new and current vehicles operating in the Nation's current and future air transportation system. The Fundamental Aeronautics Program will pursue long-term, cutting edge research in all flight regimes to produce data, knowledge, and design tools that will be applicable across a broad range of air vehicles that fly through any atmosphere at any speed. The Integrated Systems Research Program will conduct research at an integrated system-level on promising concepts and technologies and explore/assess/demonstrate the benefits in a relevant environment. The Aeronautics Test Program (ATP) is focused on ensuring a healthy suite of facilities and platforms to meet the nations testing needs including the development of new test instrumentation and test technologies.

Amount of Award: To Be Determined

FUNDING OPPORTUNITIES

Behavioral Sciences

United States Department of Education (ED)
<http://www.grants.gov/search/search.do?mode=VIEW&oppId=52025>

Deadline: March 31, 2011

Models of Exemplary, Effective, and Promising Alcohol or Other Drug Abuse Prevention Programs on College Campuses

The goals of this program are to identify and disseminate information about exemplary and effective alcohol or other drug abuse prevention programs implemented on college campuses. Through this grant program, the U.S. Department of Education (ED) also will recognize colleges and universities whose programs, while not yet exemplary or effective, show evidence that they are promising.

Amount of Award: \$125,000 - \$175,000

Biology

National Science Foundation (NSF)
<http://www.nsf.gov/pubs/2010/nsf10531/nsf10531.htm>

Deadline: March 1, 2011

Undergraduate Research and Mentoring in the Biological Sciences (URM)

The goal of the URM program is to increase the number and diversity of individuals pursuing graduate studies in all areas of biological research supported by the NSF Directorate for Biological Sciences (BIO). Support will be provided to academic institutions to establish innovative programs to engage undergraduates in a year-round research and mentoring activity. Particular emphasis will be placed on broadening participation of members of groups historically underrepresented in science and engineering: African Americans, Alaska Natives, American Indians, Hispanic Americans, Native Hawaiians and other Pacific Islanders, and persons with disabilities.

Amount of Award: \$1,000,000

Collaborative Research

United States Department of Education (ED)
<http://www.ed.gov/programs/iegpsbie>

Deadline: March 2, 2011

Business and International Business Program

The Business and International Education Program provides grants to enhance international business education programs and to expand the capacity of the business community to engage in international economic activities.

Amount of Award: \$2,619,500 for about 31 awards, ranging from \$50,000-\$95,000 each per year, for up to 2 years.

National Science Foundation (NSF)
http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=503479

Deadline: April 29, 2011

Fostering Interdisciplinary Research on Education (FIRE)

FIRE is a strand of the Research and Evaluation on Education in Science and Engineering (REESE) program (NSF 10-586) and it is anticipated that FIRE will eventually be incorporated into the REESE solicitation. The FIRE program seeks to facilitate the process by which scholars can cross disciplinary boundaries to acquire the skills and knowledge that would improve their abilities to conduct rigorous research on STEM learning and education. The primary goal of the strand is to facilitate the development of innovative theoretical, methodological, and analytic approaches to understanding complex STEM education issues of national importance and, by so doing, make progress toward solving them. A secondary goal of the strand is to broaden and deepen the pool of investigators engaged in STEM educational research. In order to address this goal, investigators must pair with a mentoring scholar in a to-be-learned field of interest. Proposals therefore have both a research and a professional development component. Investigators may receive a FIRE award at any point in their post-graduate careers.

Amount of Award: \$3.2 - \$4 million for 8-10 awards in FY 2011, with duration of up to two years.

FUNDING OPPORTUNITIES

Earth & Physical Sciences

Environmental Protection Agency (EPA)

http://epa.gov/ncer/rfa/2011/2011_star_dynamic_air.html

Deadline : April 26, 2011

Dynamic Air Quality Management

The U.S. Environmental Protection Agency (EPA), as part of its Science to Achieve Results (STAR) program, is seeking applications proposing research to lay the scientific foundation for improving the air quality management system. Applications may address increasing the rate at which new information is incorporated into regional and local air quality management or improving management of short-term air pollution episodes. In addition to regular awards, this solicitation includes the opportunity for early career projects. The purpose of the early career award is to fund research projects smaller in scope and budget by early career PIs.

Amount of Award: \$2 million for about 3 regular and 2 early career awards. Potential funding per award: up to a total of \$500,000 for regular awards and \$250,000 for early career awards, including direct and indirect costs, with a maximum duration of 3 years. Cost-sharing is not required.



English

Axe-Houghton Foundation

<http://foundationcenter.org/grantmaker/axehoughton/index.html>

Deadline: September 1, 2011

Grants

The foundation is operated exclusively for charitable, educational, and scientific purposes. Its principal purposes are to foster and encourage an appreciation of the English language, with major emphasis on the spoken language. Priority is given to projects for the improvement of speech and its uses in the areas of public affairs, education, theatre, poetry, debate, and the oral interpretation of literature. A portion of available funds may be devoted to speech remediation and to scientific research relating to speech. Grants requests must be for a specific project or program. Grants are not given for, and therefore requests will not be considered for, general or capital support, scholarships, or fellowships.

Amount of Award: \$8,000



FUNDING OPPORTUNITIES

General

American Honda Foundation (AHF)

<http://corporate.honda.com/america/philanthropy.aspx?id=ahf>

Deadline: May 1, 2011

Institutional Grants for Youth and Science Education

The Foundation's mission is to help meet the needs of American society in the areas of youth and scientific education by awarding grants to nonprofits, while strategically assisting communities in deriving long-term benefits. The American Honda Foundation engages in grant making that reflects the basic tenets, beliefs and philosophies of Honda companies, which are characterized by the following qualities: imaginative, creative, youthful, forward-thinking, scientific, humanistic and innovative. The Foundation supports youth education with a specific focus on the STEM (science, technology, engineering and mathematics) subjects in addition to the environment.

Amount of Award: The grant range is from \$20,000 to \$60,000 over a one-year period.



National Science Foundation (NSF)

http://www.nsf.gov/funding/pgm_summ.jsp?pi_ms_id=5741

Deadline: May 26, 2011

Transforming Undergraduate Education in Science, Technology, Engineering and Mathematics (TUES)

The Transforming Undergraduate Education in Science, Technology, Engineering, and Mathematics (TUES) program seeks to improve the quality of science, technology, engineering, and mathematics (STEM) education for all undergraduate students. This solicitation especially encourages projects that have the potential to transform undergraduate STEM education, for example, by bringing about widespread adoption of classroom practices that embody understanding of how students learn most effectively. Thus transferability and dissemination are critical aspects for projects developing instructional materials and methods and should be considered throughout the project's lifetime. More advanced projects should involve efforts to facilitate adaptation at other sites. The program supports efforts to create, adapt, and disseminate new learning materials and teaching strategies to reflect advances both in STEM disciplines and in what is known about teaching and learning. It funds projects that develop faculty expertise, implement educational innovations, assess learning and evaluate innovations, prepare K-12 teachers, or conduct research on STEM teaching and learning. It also supports projects that further the work of the program itself, for example, synthesis and dissemination of findings across the program. The program supports projects representing different stages of development, ranging from small, exploratory investigations to large, comprehensive projects.

Amount of Award: \$35.8 million for 94-108 awards.

FUNDING OPPORTUNITIES

Health Professions

American Nurses Foundation (ANF)

<http://www.anfonline.org/MainCategory/NursingResearchGrant.aspx>

Deadline: May 2, 2011

Nursing Research Grants Program

The ANF Nursing Research Grants Program was founded 56 years ago to encourage the research career development of nurses. This program continues to grow with contributions for nursing research, from organizations and individuals. Each year, through its Nursing Research Grants program, ANF provides funds to beginner and experienced nurse researchers to conduct studies that contribute toward the advancement of nursing science and the enhancement of patient care. Awards are given in all areas of nursing, including healthy patient outcomes, health care policy development, critical care, gerontology, women's health, community and family intervention.

Amount of Award: To Be Determined



Humanities

Gladys Kriebel Delmas Foundation

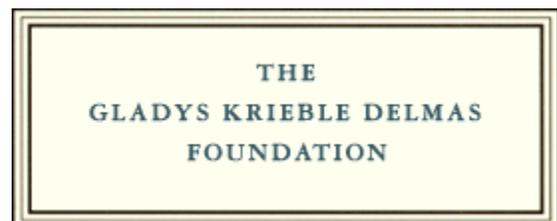
<http://www.delmas.org/programs/humanities.html>

Deadline: Open, Must submit letter of inquiry

Humanities Program

The Foundation intends to further the humanities along a broad front, supporting projects which address the concerns of the historical studia humanitatis: a humanistic education rooted in the great traditions of the past; the formation of human beings according to cultural, moral, and aesthetic ideals derived from that past; and the ongoing debate over how these ideals may best be conceived and realized. Programs in the following areas are eligible: history; archaeology; literature; languages, both classical and modern; philosophy, ethics; comparative religion; the history, criticism, and theory of the arts; and those aspects of the social sciences which share the content and methods of humanistic disciplines. The Foundation welcomes projects that cross the boundaries between humanistic disciplines and explore the connection between the humanities and other areas of scholarship.

Amount of Award: To Be Determined



FUNDING OPPORTUNITIES

International Studies

US Department of Education (ED)

<http://www.ed.gov/programs/iegpsirs>

Deadline: March 1, 2011

International Research and Studies Program

The International Research and Studies Program (IRS) provides grants to conduct research and studies to improve and strengthen instruction in modern foreign languages, area studies, and other international fields. Competitive Preference Priority 1--Instructional Materials Applications. Competitive Preference Priority 2--Research, Surveys, and Studies Applications.

Amount of Award: It is expected that about 11 awards will be made, each ranging from \$50,000-\$225,000 per year, for up to 3 years.

Performing & Fine Arts

National Endowment for the Arts

<http://www.arts.gov/grants/apply/GAP12/Challenge.html>

Deadline: May 26, 2011

Challenge America Fast-Track

The Challenge America Fast-Track category offers support primarily to small and mid-sized organizations for projects that extend the reach of the arts to underserved populations – those whose opportunities to experience the arts are limited by geography, ethnicity, economics, or disability. Age alone (e.g., youth, seniors) does not qualify a group as underserved; at least one of the underserved characteristics noted above also must be present. Grants are available for professional arts programming and for projects that emphasize the potential of the arts in community development.

Amount of Award: \$10,000

Political Sciences

National Science Foundation (NSF)

http://www.nsf.gov/funding/pgm_summ.jsp?pi_ms_id=5418

Deadline: August 15, 2011

Political Science Program

The program supports scientific research that advances knowledge and understanding of citizenship, government, and politics. Research proposals are expected to be theoretically motivated, conceptually precise, methodologically rigorous, and empirically oriented. Substantive areas include, but are not limited to, American government and politics, comparative government and politics, international relations, political behavior, political economy, and political institutions. In recent years, program awards have supported research projects on bargaining processes; campaigns and elections, electoral choice, and electoral systems; citizen support in emerging and established democracies; democratization, political change, and regime transitions; domestic and international conflict; international political economy; party activism; and political psychology and political tolerance. The program also has supported research experiences for undergraduate students and infrastructural activities, including methodological innovations, in the discipline.

Amount of Award: To Be Determined



Proposals Submitted
January 1, 2011 – January 31, 2010

| Name | Project Title | Agency | Amount |
|---|---|--|---------------|
| Chemistry | | | |
| Prachi Anand | Synthesis and characterization of novel peptides from terebrid snails | City University of New York (CUNY) Postdoctoral Development Program | \$1,100 |
| Yolanda Small | Collaborative Research: Cyber-Enabled Search and Characterization of Polar Oxide Surfaces with Optimal Water-Splitting Photo-Catalytic Activity | National Science Foundation (NSF) | \$300,000 |
| Mathematics and Computer Science | | | |
| Lidia Gonzalez | Tensor Community Project | American Association of University Women Educational Foundation (AAUW) | \$6,000 |
| Social Sciences | | | |
| Mark Schuller | NGOs and Nation Building: Impact of NGO on Haiti's internally displaced people (IDP) camp committees | National Science Foundation (NSF) | \$113,922 |

Proposals Awarded
January 1, 2011 – January 31, 2010

| Name | Project Title | Agency | Amount |
|------------------------------------|---------------------------------|-------------------|---------------|
| Earth and Physical Sciences | | | |
| Timothy Paglione | SEMAA General Operating Support | Time Warner Cable | \$15,000 |

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To set up a profile go to
<http://www.cos.com/rfcuny.shtml>

For more information log onto
<http://www.rfcuny.org>

or contact ORSP at
(718) 262-2060



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