

OFFICE OF RESEARCH AND SPONSORED PROGRAMS

GRANTS BULLETIN



QUEENS COLLEGE Mike Prasad, Director ♦ Regina Caulfield, Editor ♦ KH 306 ♦ 718-997-5400 Winter 2011/12

GRANT PROPOSAL SUBMISSIONS POLICIES

ORSP cannot stress enough how important it is to contact our office early when preparing a grant proposal. In addition to allowing for the proper institutional review of your application, the internal deadlines exist to address unexpected circumstances such as Internet availability, overloaded servers, and problems with verification. To avoid problems, submit your application early. Applications that are given to ORSP on the day of deadline incur the risk of not being submitted. To ensure proper review and assist in work flow, PIs must complete a **new Internal Approval Checklist** and submitted to ORSP at least 10 days prior to any proposal being submitted. This form is available on the ORSP [website](#) under the Pre-Award Section. We also want to remind faculty that proposals should be ready for submission five days before the agency deadline. However, proposals that include any type of cost-sharing **must** be approved by the Dean and Provost 10 days prior to submission. Budgets must be finalized and reviewed by both the Chairperson and the Dean of the PI and/or co-Investigators. Budgets and justifications that are changed after authorization must be re-reviewed. All budgets are subject to final approval by the Office of Research & Sponsored Programs and must conform to College, University, Research Foundation, and funding agency policies.

NSF CHANGES – NSF proposals are now required to have a data management plan in place. Proposals must include a supplementary document of no more than two pages labeled “Data Management Plan”. This supplement should describe how the proposal will conform to NSF policy on the dissemination and sharing of research, and may include:

- the types of data, physical collections, software, curriculum materials, and other materials to be produced in the course of the project;
- the standards to be used for data and metadata format and content (where existing standards are absent or deemed inadequate, this should be documented along with any proposed solutions or remedies);
- policies for access and sharing including provisions for appropriate protection of privacy, confidentiality, security, intellectual property, or other rights or requirements, including re-use, re-distribution, and the production of derivatives;
- and plans for archiving data, samples, and other research products, and for preservation of access to them.

For more information, please visit the NSF policy pages: <http://www.nsf.gov/pubs/policydocs/pappguide/nsf11001>

PERSONNEL ISSUES – Before You Hire Someone

– If you are hiring someone to work full-time, you must post a Personnel Vacancy Notice (PVN) on the Research Foundation website before you can hire anyone. After you have made an offer of employment the following forms/actions must be completed prior to any work starting: The Wage/Title Acknowledge Form; the I-9 form; and e-verification through Homeland Security and the Social Security Administration. **PAFs that are backdated will not be accepted.** Future employees should complete the I-9 first and then come to our office for E-Verification. This can usually be done between the hours of 11 a.m. and 3 p.m. but you must call ahead and make an appointment. If an employee is not e-verified, they cannot be placed on payroll.

In addition, please note that persons who are re-hired may need to complete a new I-9 form, update their visa status, or may need to be e-verified. If they are being re-hired by a different PI or being paid from a different grant, they may also be required to fill out additional paperwork including:

- Job Duties and Qualifications Form
- Wage/Title Acknowledgment Form (generated from RF website – it must be completed and submitted prior to the employee beginning work)
- Rehire Acknowledgment Form
- Change of Address Form (if applicable)
- Tax Forms
- Direct Deposit Enrollment Form (if applicable)
- Form I-9 (Updating)

Project Directors are responsible for all salary information provided to the Research Foundation, including timesheet maintenance. The Project Director should ensure that all electronic information entered is accurate. Names can be similar or even identical. Please verify that the employee ID or social security number belongs to the person whom you are hiring. If your employee has not been paid, please contact our office and have your employee's ID, account number, and most recent timesheet information available. We cannot assist employees directly unless they have all of this information with them. Do not send your employee to the office for assistance unless you have spoken directly to a grants officer first.

Recent External Awards – June 2011 through September 2011

DEPARTMENT	PRINCIPAL INVESTIGATOR	AGENCY/TITLE	AMOUNT
BIOLOGY	Boissinot, Stephane	NATIONAL INSTITUTES OF HEALTH Population Genomics of LINE Retrotransposons in Vertebrates	\$303,400
	Lahti, David	NATIONAL SCIENCE FOUNDATION Collaborative Research: Multi-Ancessor Coalescent Theory for Cultural Evolution	\$139,387
	Melendez, Alicia	ELLISON MEDICAL FOUNDATION Autophagy and the Relationship Between Lifespan and Fat Metabolism	\$100,000
	Savage-Dunn, Cathy	NATIONAL INSTITUTES OF HEALTH Genetics of Cell Signaling in <i>C.elegans</i> Growth Regulation	\$310,000
	Waldman, John	THE J.M.KAPLAN FUND "Who Hears the Fishes When They Cry"?	\$2,500
	Zakeri, Zahra	NATIONAL INSTITUTES OF HEALTH Characterization of Flavovirus, NS4A Induced Autophagy	\$451,288
CBNS	Eisl, Holger	GEORGE P. JOHNSON COMPANY IBM Centennial Exhibit	\$19,090
	Markowitz, Steven	CDC/NORTH SHORE-LONG ISLAND JEWISH MEDICAL CTR. World Trade Center Health Program	\$523,186
		CENTER FOR DISEASE CONTROL/NIOSH World Trade Center- Heart: Cardiovascular Health Impact and Prediction of Incident (Primary and Subsequent) Cardiovascular Events Among WTC Responders	\$464,098
		NYC DEPT. OF HEALTH & MENTAL HYGIENE New York City Community Air Survey Program	\$632,000
		U.S. DEPARTMENT OF ENERGY Former Worker Surveillance Program	\$3,100,000
CHEMISTRY	Bittman, Robert	NATIONAL INSTITUTES OF HEALTH Role of Spingolipids in the Pathology of Lung Injury	\$81,445
	Evans, Cherice	NATIONAL SCIENCE FOUNDATION Quasi-free Electron Energy in Near Critical Point Atomic and Molecular Fluids	\$140,667

CHEMISTRY	Jang, Seogjoo	U.S. DEPARTMENT OF ENERGY Computational Modeling & Theory Development of Energy Charge Flow Dynamics in Photosynthetic Units and Conjugated Polymer Systems	\$82,491
	Mirkin, Michael	NATIONAL SCIENCE FOUNDATION Charge Transfer Processes at Electrochemical Nano Interfaces	\$88,600
		NATIONAL SCIENCE FOUNDATION International Collaboration in Chemistry: Nucleation/Growth of Catalytic Nanoclusters	\$71,094
CLASSICAL, MIDDLE EASTERN & ASIAN LANGUAGES	Mcclure, William	U.S. DEPARTMENT OF EDUCATION New Ground, Critical Languages: Middle Eastern Studies at Queens College	\$41,839
COLLEGE PREP	Gaudette, Helen	NEW YORK CITY BOARD OF EDUCATION The Townsend Harris/Queens College Collaboration	\$399,846
COMPUTER SCI	Huenerfauth, Matthew	NATIONAL SCIENCE FOUNDATION HCC: Medium: Collaborative Research: Generating Accurate, Understandable Sign Language Animations Based on Analysis of Human Signing	\$105,803
		NATIONAL SCIENCE FOUNDATION HCC: Medium: Collaborative Research: Generating Accurate, Understandable Sign Language Animations Based on Analysis of Human Signing	\$139,269
	Wee, Hoeteck	NATIONAL SCIENCE FOUNDATION CAREER: Secure Public-Key Cryptography	\$100,333
EDUCATIONAL & COMMUNITY PROGRAMS	Lopez, Emilia	U.S. DEPARTMENT OF EDUCATION Project Multicultural Matters: Training School Psychologists in Culturally Responsive Practices	\$198,171
	Wang, Peishi	U.S. DEPARTMENT OF EDUCATION Culturally Aligned and Responsive Early Intervention (Project I-CARE)	\$250,000
KUPFERBERG CENTER	Charlop, Vivian	MILTON & SALLY AVERY ARTS FOUNDATION Revelations Series	\$3,000
		MUSIC FOR YOUTH FUND at UJA FEDERATION The Jazz Project	\$6,400
		THE KUPFERBERG FOUNDATION Performance Season 2011-2012	\$70,000
		THE NEW YORK COMMUNITY TRUST Presentation of Music, Dance, Theatrical Performances and Literary Readings	\$30,000

MATHEMATICS	Jiang, Yunping	SIMONS FOUNDATION Research in Dynamical Systems and Complex Analysis	\$35,000
	Saric, Dragomir	NATIONAL SCIENCE FOUNDATION Complex Structures, Hyperbolic Invariants, Infinitesimal Currents and Intersection Numbers for Deformation Spaces	\$51,610
		SIMONS FOUNDATION Collaborations in Teichmuller Theory	\$35,000
PHYSICS	Kuskovsky, Igor	HYBRID PHOTONICS Reconfigurable Optical Elements Based on Single and Coupled Microdisk Resonators with Quantum Dot Active Media	\$50,000
		NATIONAL SCIENCE FOUNDATION Aharonov-Bohm Excitons in Stacked Type-II Quantum Dots: Physics, Storage and Manipulation	\$110,000
PSYCHOLOGY	Borod, Joan	NIH/UNIVERSITY OF COLORADO Efficacy of Voice Treatment for Parkinson's Disease	\$34,407
	Brumberg, Joshua	NATIONAL INSTITUTES OF HEALTH Barrels XXIV Meeting	\$13,000
	Chacko, Anil	CENTER FOR DISEASE CONTROL Enhancing Fathers' Ability to Support their Preschool Child	\$236,525
		NATIONAL INSTITUTES OF HEALTH Combined Cognitive Remediation and Behavioral Intervention for Treatment of ADHD	\$230,175
	Halperin, Jeffrey	NATIONAL INSTITUTES OF HEALTH ADHD: Neural Correlates of Adult Outcomes	\$23,899
		NATIONAL INSTITUTES OF HEALTH Neurodevelopmental Perspectives on ADHD	\$683,572
	Johnson, Ray	NATIONAL INSTITUTES OF HEALTH The Effects of Age on the Cognitive ERP/CD/ECG Wave effect	\$47,971
	Jones, Emily	C.W. POST/Long Island University Weekend Program at the Center for Community Inclusion	\$5,617
		ORGANIZATION FOR AUTISM RESEARCH The Effects of Support and Training on Reciprocal Social Interactions Between Siblings	\$2,000
	Nomura, Yoko	NATIONAL INSTITUTES OF HEALTH Perinatal Risk Factors and Genetic Susceptibility for Childhood Psychopathology	\$175,754

PSYCHOLOGY	Pytte, Carolyn	NATIONAL INSTITUTES OF HEALTH Effects of Statins on the Neurobiology of Learning and Memory Across the Lifespan	\$18,600
	Sneed, Joel	NATIONAL INSTITUTES OF HEALTH Vascular Depression in African Americans: Phenomenology, Treatment, and Course of Illness	\$190,385
SECONDARY ED	Gunn, John	NEW YORK CITY BOARD OF EDUCATION Teaching American History: Our American Democracy	\$48,624
SCHOOL of EARTH & ENVIRONMENTAL SCIENCES	Bird, Jeffrey	NATIONAL SCIENCE FOUNDATION Collaborative Research: Linking the Chemical Structure of Black Carbon to its Biological Degradation and Transport Dynamics in a Temperate Forest Soil	\$107,352
	Mchugh, Cecilia	NATIONAL SCIENCE FOUNDATION PIRE: Life on a Tectonically Active Delta: Convergence of Earth Science and Geohazard Research in Bangladesh with Education and Capacity Building	\$56,059
	Omullan, Gregory	RIVERKEEPER Hudson River Water Quality Monitoring Program: 2011-2012	\$12,644
	Pekar, Stephen	NATIONAL SCIENCE FOUNDATION Collaborative Research: An Ultra-high Resolution Holocene Climate Record from a Varved Sediment Sequence from the Adelie Coast, Antarctica (IODP Expedition)	\$179,487
		NATIONAL SCIENCE FOUNDATION Expedition Objective Research: Investigating Antarctic Cryosphere Changes at Wilkes Land During the Oligocene and Presumed "Stable" Icehouse World of the Late Miocene	\$150,000
SPECIAL SERVICES	Detres-Hickey, Mirian	U.S. DEPARTMENT OF EDUCATION Student Support Services at Queens College	\$213,180
STUDENT AFFAIRS OFFICE	Rockman, Adam	CAROL & MILTON PETRIE FOUNDATION Student Emergency Fund	\$100,000
UPWARD BOUND	Neita, Michael	U.S. DEPARTMENT OF EDUCATION Upward Bound Program at Queens College	\$34,584
TOTAL			\$10,699,352

NATIONAL INSTITUTES OF HEALTH – Academic Research Enhancement Awards (AREA)

The AREA program enables qualified scientists to receive support for small-scale research projects. These grants are intended to create a research opportunity for scientists and institutions otherwise unlikely to participate extensively in NIH programs to support the Nation's biomedical and behavioral research effort. It is anticipated that investigators supported under the AREA program will benefit from the opportunity to conduct independent research; that the grantee institution will benefit from a research environment strengthened through AREA grants and furthered by participation in the diverse extramural programs of the NIH; and that available students will benefit from exposure to and participation in scientific research in the biomedical, behavioral and clinical sciences. The AREA program is a research grant program and not a training or fellowship program. Active involvement of undergraduate and graduate students in the proposed research is encouraged, and reviewers will consider whether the proposed project will expose undergraduate (preferably, if available) and graduate students to meritorious research. However, the application should not focus on training objectives and training plans should not be provided.

ELIGIBILITY: All health professional schools/colleges and other academic components of domestic institutions offering baccalaureate or advanced degrees in the sciences related to health are eligible, except those that have received research grants and/or cooperative agreements from the NIH totaling more than \$6 million per year (in both direct and facilities and administrative costs) in at least four of the last seven years (note that eligibility is determined at the time of application). See website for a list of ineligible schools.

FUNDING: Applicants may request up to \$300,000 direct costs plus applicable Facilities & Administrative (F&A)/indirect costs for the entire project period of up to three (3) years. Note when a consortium is involved, the \$300,000 direct cost limit is exclusive of consortium F&A costs. These can be requested in addition to the \$300,000 direct costs limit.

For more information, please see the web page at: <http://grants.nih.gov/grants/funding/area.htm>

Deadline(s): February 25 (June 25) (October 25)

IREX INTERNATIONAL RESEARCH & EXCHANGES BOARD - Short-Term Travel Grants

The Short-Term Travel Grants Program (STG) is a flexible fellowship offering support to postdoctoral scholars and professionals to conduct research in Eastern Europe and Eurasia on issues relevant to the U.S. Government. Because STG supports research for a maximum of eight weeks, fellows have the ability to conduct shorter research trips without significantly affecting their teaching and work schedules. Scholars interested in STG can apply to conduct research in up to two countries for up to eight weeks.

ELIGIBILITY: STG applicants must have a graduate degree (PhD, MA, MD, MBA, MFA, MPA, MPH, MLIS, MS, JD) at the time of application and be a U.S. citizen.

Eligible countries of research: Albania, Armenia, Azerbaijan, Belarus, Bosnia and Herzegovina, Bulgaria, Croatia, Czech Republic, Estonia, Georgia, Hungary, Kazakhstan, Kosovo, Kyrgyzstan, Latvia, Lithuania, Macedonia, Moldova, Montenegro, Poland, Romania, Russia, Serbia, Slovakia, Slovenia, Tajikistan, Turkmenistan, Ukraine, and Uzbekistan.

FUNDING: As part of the STG fellowship, participants are provided with visa assistance, international roundtrip transportation, a monthly allowance for housing and living expenses, and emergency evacuation insurance.

Deadline: February 1, 2012

Web page: <http://www.irex.org/application/short-term-travel-grants-stg-application>

Write: International Research & Exchanges Board; 2121 K Street, NW; Suite 700; Washington, DC 20037

Phone: 202/628-8188 Fax: 202/628-8189 E-mail: stg@irex.org

NATIONAL SCIENCE FOUNDATION – Smart Health and Well-being Program

Through the Smart Health and Wellbeing (SHB) Program, NSF seeks to address fundamental technical and scientific issues that would support much needed transformation of healthcare from reactive and hospital-centered to preventive, proactive, evidence-based, person-centered and focused on wellbeing rather than disease. The issues to be addressed include, but are not limited to, sensor technology, networking, information and machine learning technology, modeling cognitive processes, system and process modeling, and social and economic issues. Effective technology-based solutions must satisfy a multitude of constraints arising from clinical needs, social interactions, cognitive limitations, barriers to behavioral changes, heterogeneity of data, semantic mismatch and limitations of current cyberphysical systems.

The high degree of complexity and broad range of the problems require multidisciplinary teams of scientists and engineers to identify and address barriers limiting quality of life, independence for chronically ill and elder individuals, and other aspects of wellbeing. Fundamental technological advances are also needed to understand the impediments that prevent people from engaging in health-promoting life styles including diet and exercise and from participating in their healthcare decisions.

Addressing the challenges will require fundamental research and the development of new tools and methods across many dimensions, some of which is called for below:

1. **Digital Health Information Infrastructure:** Pursue fundamental research to enable interoperable, distributed, federated, and scalable digital infrastructure, languages, and tools for effective sharing and use of electronic health record data, data representation for such including semantic metadata, and networked applications that access such data. Investigate aspects of a continuously extensible universal exchange language for current and future health and wellness data originating from diverse sources in multiple formats, supporting both syntax and semantics. Advance data methods for controlling and maintaining data integrity, provenance, security, privacy and reliability of original as well as aggregated data, providing trustworthy patient identification and authentication and access control protocols, and maintaining sensitivity to the legal, cultural and ethical issues associated with universally accessible digital health data (e.g., EHR) in the U.S. Advance systems methods for measuring and optimizing operations to improve quality and productivity of healthcare delivery systems. Explore the societal impacts of increasing medical/health information availability and use.
2. **From Data to Knowledge to Decisions:** Investigate methods and algorithms for aggregation of multi-scale clinical, biomedical, contextual, and environmental data about each patient (EHR, personal health records - PHR, etc.), and unified and extensible metadata standards, and decision support tools to facilitate optimized patient-centered evidence-based decisions. Integrate patient information with delivery systems performance and economic models to support operations management decisions. Develop robust knowledge representations and reasoning algorithms to support inferences based on individual or population health data, multiple sources of potentially conflicting information while complying with applicable policies and preferences. Develop innovative technology for the secondary use of health data to support assisted and automated discovery of reliable knowledge from aggregated population health records and predictive modeling and simulation of health and disease at multiple levels from cellular to individuals/patients to populations, along with robust validation and integration of empirical data into the models. Develop understanding of how families, communities, informal caregivers, professional medical teams and patients interpret care and treatment. Increase understanding of issues (technological, behavioral, socio-economic, value-driven actions, ethical, systemic) that interfere with patients' collaboration in care team and adherence to treatment and wellness regimens.
3. **Empowering Individuals:** Investigate underlying socio-economic and behavioral principles underlying patient participation in healthcare and wellness. Develop new approaches to empowering patients and healthy individuals to participate in their own health and treatment such as custom-educating, accessing and visualizing health data and knowledge, understanding how people participate in their own health treatment depending on socio-economic status, gender and ethnicity, and how different forms of education and presentation of data will contribute to better health care by teams, including patients, caregivers, and providers. Develop quantitative, predictive models of patients and individuals, including the understanding of how patients and caregivers understand "empowerment", when and where it is desirable, and the limits of

such empowerment. Develop novel user-tailored and context-aware human-computer interfaces for a variety of tasks including patient, family and caregiver access to EHRs and PHRs. Examine how technology can contribute to shifting of public and private incentives toward patient-centric goals.

4. **Sensors, Devices and Robotics:** Investigate protocols and interface standards to enable interoperable, temporally synchronized, medical prosthetic and embedded devices and those devices for continuous capture, storage, and transmission of physiological state and environmental data. Develop and evaluate assistive technology systems and devices for improved health and healthcare; such systems might incorporate sensory inputs and computational intelligence ranging from internal and external sensors, wearable prosthetics, and cognitive orthotics to surgical-assist robots and social robots. Investigate sensors, analysis tools, and activators needed to assess and limit adverse environmental effects on health and wellbeing. Develop simulation and modeling methods and software tools that aid in the design and evaluation of sophisticated medical devices and how they communicate to medical information systems in the clinic, home, and in and around the person.

These research areas are clearly not mutually exclusive and the proposed projects may address several of these. Proposals of collaborative projects with partners outside of the U.S. are also encouraged. In those cases, NSF may support the U.S. collaborator (including foreign travel jointly with NSF/OISE) provided that the foreign partner(s) secure funding from their corresponding countries.

Proposals submitted to this solicitation must be consistent with one of two project classes defined below. Proposals will be considered for funding within their project classes.

Type I: Exploratory Projects (EXP) investigate the proof-of-concept or feasibility of a novel technology, processes, and approaches to promote smart health and wellbeing. These proposed projects with lower budgets are well suited to one or two investigators (PI and one co-PI or other Senior Personnel) and at least one student and/or postdoc. Each proposed project should include at least one collaborator from the health application domain(s). Collaborations with researchers in the application domains are strongly encouraged. EXP awards will be funded over a 2 or 3 year period ranging from \$200,000 to \$600,000. It is expected that few awards will be made at the upper end of this range. The proposed budget should be commensurate with the corresponding scope of work. Rationale must be provided to explain why a budget of the requested size is required to carry out the proposed work.

Type II: Integrative projects (INT) undertake research addressing key application areas by solving problems in multiple scientific and engineering domains, incorporating at least two out of the three areas of CISE, ENG, and SBE. These projects are expected to advance understanding about how technology and engineering, combined with advancements in computer, behavioral and social science, would support transformations in healthcare and improve quality of life. Projects with this broader scope are expected to include several students and postdocs. INT project descriptions must be comprehensive and well-integrated, and should make a convincing case that the collaborative contributions of the project team will be greater than the sum of each of their individual contributions. Collaborations with researchers in the health application domains are required. Such collaborations typically involve multiple institutions but are not required to be so organized. Since the successes of collaborative research efforts are known to depend on thoughtful coordination mechanisms that regularly bring together the various participants of the project, a Collaboration Plan is required for each INT proposal. INT projects will be funded over a 4 or 5-year period up to a total of \$600,001 to \$2,000,000. It is expected that few awards will be made at the upper end of this range. The proposed budget should be commensurate with the corresponding scope of work. Rationale must be provided to explain why a budget of the requested size is required to carry out the proposed work.

DEADLINE: February 21, 2012



UPCOMING DEADLINES

For a list of grant deadlines please check out *The Grant Advisor* (<http://www.grantadvisor.com/tgaplus>). To use this link, you must be connected to the campus server. If you would like to access *The Grant Advisor* from home, please e-mail Regina.Caulfield@qc.cuny.edu



HAPPY NEW YEAR TO ALL!