Inside this issue:

Note from the Director

PSC-CUNY Research Award Program Cycle 48

Advancing Informal STEM Learning (AISL)

Internal Baruch College and CUNY Programs

Statistics, Probability and Applied Mathematics

Oceanographic Facilities and Equipment Support

Improving Undergraduate STEM Education: Education and Human Resources (IUSE: EHR)

Dynamics of Coupled Natural and Human Systems

Sponsored Programs and Research (SPAR)

137 East 25th Street - 10th Floor, New York, NY 10010

http://www.baruch.cuny.edu/grants/

646-312-2205
dominic.esposito@baruch.cuny.edu

Note from the Director

I hope the semester is progressing well for all. The PSC-CUNY Research Award Program has been announced and SPAR is here to help! If you would like to discuss your project, contact me so we can schedule a meeting. Also, we will be holding information sessions on 11/01 and 11/30 in the Vertical Campus, Room 14-267 from 12:30—2:00 PM. The PSC-CUNY program personnel from Research Foundation have been invited to present. Last year’s workshops were very informative and well attended. I highly recommend these sessions for both new and experienced investigators. Space will be limited, so please RSVP to me at your earliest convenience.

Rounding out the semester, there will be a Post-Award Information Session on 11/07 and our featured talk will take place 12/06 with guest presenters from the Research Foundation Office of Award Pre-Proposal Support (APPS), John Tsapogas and Marina Vasilveya. John is a former National Science Foundation program officer. His knowledge combined with the new services he has initiated through APPS, including pre-submission application peer review, will surely offer value to all those interested in research and sponsored programs.

Please contact me if you have any questions or would like to discuss an upcoming project. I always enjoy hearing from members of the Baruch community.

Dominic Esposito
Director of Sponsored Programs and Research

PSC-CUNY Research Award Program Cycle 48

The Professional Staff Congress-City University of New York (PSC-CUNY) Research Award Program was established as a major vehicle for the University's encouragement and support of faculty research and leverage external funding. It seeks to enhance the University's role as a research institution, further the professional growth and development of its faculty, and provide support for both the established and the younger scholar. Awards are distributed by the University Committee on Research Awards, a faculty committee, and administered by the Research Foundation of CUNY. Preference is given to junior faculty in the allocation of funds.

Applicants will have the option of applying for Traditional A ($3,500 maximum), B ($6,000 maximum) or Enhanced awards ($12,000 maximum). Please note: you will have to create an account in the electronic grant submission system prior to entering your proposal. If you have any questions or need assistance please contact either Dominic Esposito (dominic.esposito@baruch.cuny.edu) or Melissa Mendez (melisa.mendez@baruch.cuny.edu).

Deadline: December 15, 2016 5 PM
Proposal submission system: https://www.rfcuny.org/gp/welcome.aspx
Advancing Informal STEM Learning (AISL)

Almost any environment can support informal science learning, such as a home, a museum, a library, a street, a virtual or augmented reality game. Information networks, mobile media, and social networks transform educational possibilities and create opportunities for seamless learning environments. Informal learning environments are, in principle, accessible to all learners, and evidence suggests they have particular potential for supporting learners from non-dominant groups (National Research Council, 2009). These settings offer learners direct access to compelling phenomena in the natural and designed world, and powerful representations of those phenomena. Ubiquity, digital networks, and lack of formal accreditation procedures mean that anyone with appropriate expertise can facilitate STEM learning in the informal world.

The Advancing Informal STEM Learning (AISL) program seeks to advance new approaches to and evidence-based understanding of the design and development of STEM learning in informal environments for public and professional audiences; provide multiple pathways for broadening access to and engagement in STEM learning experiences; advance innovative research on and assessment of STEM learning in informal environments; and develop understandings of deeper learning by participants (National Resource Council, 2012). To achieve the greatest return on its investments, the AISL program encourages projects that will "raise the bar" in the fields of informal STEM education. It invests in projects that advance the leading edge of the field and address its most critical challenges.

AISL proposals must articulate the value of the proposed work to the advancement of the informal STEM learning field beyond individual project impact. Thus, in making funding decisions, the program will place particular emphasis on the ability of projects to demonstrate the characteristics of knowledge-building, innovation, strategic impact, and collaboration.

The AISL program supports seven types of projects: (1) Collaborative Planning, (2) Exploratory Pathways, (3) Research in Service to Practice, (4) Innovations in Development, (5) Broad Implementation, (6) Conferences, and (7) Informal STEM Learning Resource Center (FY 2016 only).

**Deadline: November 8, 2016**


Internal Baruch College and CUNY Programs

The purpose of the Academic Research Enhancement Award (AREA) program is to provide support for research and scholarly activities that contribute to the advancement of the University's academic mission by expanding the body of knowledge in the field, by building institutional capacity, and by facilitating the exploration of external funding possibilities. Email me at dominic.esposito@baruch.cuny.edu if you have any questions or would like additional information.

<table>
<thead>
<tr>
<th>Program Name</th>
<th>Deadline</th>
<th>Link</th>
</tr>
</thead>
<tbody>
<tr>
<td>Baruch College Faculty Research Seminars</td>
<td>March 31, 2017</td>
<td><a href="http://www.baruch.cuny.edu/grants/FacultyResearchSeminars.htm">http://www.baruch.cuny.edu/grants/FacultyResearchSeminars.htm</a></td>
</tr>
</tbody>
</table>
Statistics, Probability and Applied Mathematics

**The Statistics Program** supports research in statistical theory and methods, including research in statistical methods for applications to any domain of science and engineering. The theory forms the base for statistical science. The methods are used for stochastic modeling, and the collection, analysis and interpretation of data. The methods characterize uncertainty in the data and facilitate advancement in science and engineering. The Program encourages proposals ranging from single-investigator projects to interdisciplinary team projects.

**Deadline: November 7, 2016**


**The Probability Program** supports research on the theory and applications of probability. Subfields include discrete probability, stochastic processes, limit theory, interacting particle systems, stochastic differential and partial differential equations, and Markov processes. Research in probability which involves applications to other areas of science and engineering is especially encouraged.

**Deadline: November 7, 2016**


**The Applied Mathematics program** supports mathematics research motivated by or having an effect on problems arising in science and engineering. Mathematical merit and novelty, as well as breadth and quality of impact on applications, are important factors. Proposals to develop critical mathematical techniques from individual investigators as well as from interdisciplinary teams are encouraged.

**Deadline: November 15, 2016**


Oceanographic Facilities and Equipment Support

Oceanographic facilities and equipment are supported by the Integrative Programs Section (IPS) of the Division of Ocean Sciences Division (OCE), Directorate for Geosciences (GEO). These awards are made for the procurement, conversion and/or up-grade, enhancement or annual operation of platforms in the ocean, coastal, near-shore and Great Lakes. Awards are generally directed specifically to support facilities that lend themselves to shared use within the broad range of federally-supported research and education programs. Most of these platforms and facilities also receive partial support from federal agencies other than NSF. This includes state and local governments and private sources on a proportional basis; usually through a daily rate mechanism. The primary objective of these awards is to ensure the availability of appropriate facilities for federally-funded investigators and educators. Individual project-based facilities and instrumentation, limited to one, or a small group of investigators, should be supported through appropriate research programs as opposed to the IPS programs listed herein.

The individual programs covered within this solicitation include:

1. **Ship Operations (Ship Ops):** Ship Ops provide support for costs arising from the operation and maintenance of academic research vessels.
   **Deadline: November 15, 2016**

2. **Oceanographic Technical Services (OTS):** The OTS Program provides support to enhance the scientific productivity of research programs using major facilities, primarily research vessels. Effective use of such facilities is enhanced by providing institutional technical support services to all users of an institution’s facilities. **Deadline: November 15, 2016**

3. **Oceanographic Instrumentation (OI):** The OI Program provides support to enhance the scientific capabilities and productivity of seagoing research projects that use major facilities, primarily research vessels. Proposals for shared-use instrumentation may include items for the collection, processing and analysis of oceanographic data. Typical items which qualify are sensors, acoustic systems, data loggers, water sampling rosettes, biological net systems, coring equipment and auto-analyzers. **Deadline: December 15, 2016**

4. **Shipboard Scientific Support Equipment (SSSE):** The SSSE Program provides support to improve safety and enhance scientific capabilities and productivity of seagoing research programs that use major facilities, primarily research vessels. Proposals may include requests for either new permanent or portable equipment required to outfit a vessel to conduct oceanographic research and overhaul of equipment funded under this program including such items as science handling systems (winches, frames, cranes, etc.), the entire range of navigation and communication equipment, and safety and regulatory-related items. **Deadline: December 15, 2016**

5. **Ship Acquisition and Upgrade (SAU):** In coordination with interagency agreements and broader Academic Fleet modernization requirements, OCE periodically makes awards for the acquisition, design and construction, modification (either capability enhancement or Service Life Extension), or conversion of research vessels. **Proposals are accepted anytime**

6. **Other Facility Activities (OFA):** OCE supports specialized facility operations (i.e. Deep Submergence), University-National Oceanographic Laboratory System (UNOLS) functions, workshops and other facilities enhancement and developmental activities. All projects must focus on shared-use capabilities for the ocean science research community. **Proposals are accepted anytime**

Improving Undergraduate STEM Education: Education and Human Resources (IUSE: EHR)

A well-prepared, innovative science, technology, engineering and mathematics (STEM) workforce is crucial to the Nation's health and economy. Indeed, recent policy actions and reports have drawn attention to the opportunities and challenges inherent in increasing the number of highly qualified STEM graduates, including STEM teachers. Priorities include educating students to be leaders and innovators in emerging and rapidly changing STEM fields as well as educating a scientifically literate populace. Both of these priorities depend on the nature and quality of the undergraduate education experience. In addressing these STEM challenges and priorities, the National Science Foundation invests in evidence-based and evidence-generating approaches to understanding STEM learning; to designing, testing, and studying instruction and curricular change; to wide dissemination and implementation of best practices; and to broadening participation of individuals and institutions in STEM fields. The goals of these investments include: increasing the number and diversity of STEM students, preparing students well to participate in science for tomorrow, and improving students' STEM learning outcomes.

The Improving Undergraduate STEM Education (IUSE: EHR) program invites proposals that address immediate challenges and opportunities that are facing undergraduate STEM education, as well as those that anticipate new structures (e.g. organizational changes, new methods for certification or credentialing, course re-conception, cyberlearning, etc.) and new functions of the undergraduate learning and teaching enterprise. The IUSE: EHR program recognizes and respects the variety of discipline-specific challenges and opportunities facing STEM faculty as they strive to incorporate results from educational research into classroom practice and work with education research colleagues and social science learning scholars to advance our understanding of effective teaching and learning.

Toward these ends the program features two tracks: (1) Engaged Student Learning and (2) Institutional and Community Transformation. Two tiers of projects exist within each track: (i) Exploration and Design and (ii) Development and Implementation.

**Deadline:** November 2, 2016

**Exploration and Design Tier for Engaged Student Learning & Institution and Community Transformation**

**Deadline:** January 11, 2017

**Development and Implementation Tier for Engaged Student Learning & Institution and Community Transformation**


Dynamics of Coupled Natural and Human Systems

The Dynamics of Coupled Natural and Human Systems (CNH) Program supports research projects that advance basic scientific understanding about the complex interactions among natural physical and/or biological systems and human social and behavioral systems. CNH projects must include analyses of four different components: (1) the dynamics within one or more natural systems; (2) the dynamics within one or more human systems; (3) the processes through which the natural systems affect the human systems; and (4) the processes through which the human systems affect the natural systems. Projects may examine relevant exogenous factors but must include analyses of the four components identified above. CNH projects must show promise of having strong, broader impacts with respect to one or more of the following kinds of activity: (1) providing special education and training opportunities related to CNH research; (2) broadening the diversity of scholars engaged in CNH research; (3) contributing to the infrastructure for future CNH research; and (4) using CNH research for societal benefit.

CNH will support research projects in two different categories:

· CNH Large Research Projects. Awards in this category provide two to five years of support for projects ranging in size from $500,000 to $1,800,000.
· CNH Small Research Projects. Awards in this category provide two to five years of support for projects ranging in size from $150,000 to $500,000. Large and small research projects are expected to differ in scope. For example, small projects may have fewer study sites or personnel, may study systems with fewer key processes, or may require less time. Proposals for small projects are not expected to compete with proposals for large projects; large and small projects will be evaluated independently. Note that both large and small research projects must include research on all four of the CNH components, as previously described.

**Deadline:** November 18, 2016


Sponsored Programs and Research (SPAR)

137 East 25th Street
10th Floor, Box J-1010
Bernard Baruch Way
New York, NY 10010
Phone: 646-312-2205
Fax: 646-312-2206
E-mail: dominic.esposito@baruch.cuny.edu

We’re on the web
http://www.baruch.cuny.edu/grants/index.html

Find funding opportunities: http://pivot.cos.com

SPAR’s role is to facilitate and enhance the acquisition of external funding by Baruch faculty, staff, and administrators to support the College’s missions of research, teaching, and public service. SPAR works closely with the Research Foundation CUNY, the Baruch College Fund, and other College fiscal agents to insure that awardees have ample administrative support during the funding period. The three main areas of service are: pre-application planning, proposal preparation and submission, and post-award administration.