Funding Opportunities
March 23, 2017

**NSF**

Partnerships for International Research and Education (PIRE) NSF Wide Programs

Budgets per award up to $4M.

The current PIRE competition (2016-2017) is closed to new preliminary proposals. Received preliminary proposals will be reviewed over the next few months. Decisions on invitations to submit full proposals are expected by the end of January 2017. Those PIs invited to submit full proposals have a deadline date of April 24, 2017 to submit full proposals. Full Proposal (By Invitation Only) Deadline Date: April 24, 2017

Partnerships for International Research and Education (PIRE) is an NSF-wide program that supports international activities across all NSF-supported disciplines. The primary goal of PIRE is to support high quality projects in which advances in research and education could not occur without international collaboration. PIRE seeks to catalyze a higher level of international engagement in the U.S. science and engineering community. International partnerships are essential to addressing critical science and engineering problems. In the global context, U.S. researchers and educators must be able to operate effectively in teams with partners from different national environments and cultural backgrounds. PIRE promotes excellence in science and engineering through international collaboration and facilitates development of a diverse, globally-engaged, U.S. science and engineering workforce. This PIRE competition will be open to all areas of science and engineering research which are supported by the NSF.

**CAREER:** The Faculty Early Career Development (CAREER) Program is a Foundation-wide activity that offers the National Science Foundation's most prestigious awards in support of early-career faculty who have the potential to serve as academic role models in research and education and to lead advances in the mission of their department or organization. Activities pursued by early-career faculty should build a firm foundation for a lifetime of leadership in integrating education and research. NSF encourages submission of CAREER proposals from early-career faculty at all CAREER-eligible organizations and especially encourages women, members of underrepresented minority groups, and persons with disabilities to apply. Full Proposal Deadline Date(s): July 19, 2017 for BIO, CISE, HER; July 20, 2017 for ENG; July 21, 2017 for GEO, MPS, SBE.

**NIH**

Translational Research in Pediatric and Obstetric Pharmacology and Therapeutics (R03) - The purpose of this funding opportunity announcement (FOA) is to encourage applications for translational and clinical research as well as clinical trials that will advance our knowledge about
the underlying mechanisms of drug action, response, and safety in children at various
developmental stages, and in women during pregnancy and lactation. The overall goals of the
FOA are to improve the safety and effectiveness of current drugs for pediatric or obstetric
patients, and to enhance the development of new drugs or a safer usage of the existing drugs
for tailored therapies to meet emerging clinical needs for these special populations. Companion
Funding Opportunities are PAR-17-189, R01 Research Project Grant and PAR-17-187, R21
Exploratory/Developmental Grant. Letter of Intent Due Date(s): 30 days prior to the application
due date. Application Due Date(s): August 7, 2017; November 7, 2017; April 4, 2018; August 7,
2018; November 7, 2018; April 4, 2019; August 7, 2019; November 7, 2019; April 3, 2020.

Maximizing Investigators’ Research Award for Early Stage Investigators (R35) - The Maximizing
Investigators’ Research Award (MIRA) under this FOA is a grant to provide support for the
program of research in an early stage investigator's laboratory that falls within the mission of
NIGMS. For the purpose of this FOA, a program of research is the collection of projects in the
investigator's lab that are relevant to the mission of NIGMS. The goal of MIRA is to increase the
efficiency and efficacy of NIGMS funding. It is anticipated that this mechanism will: Increase the
stability of funding for NIGMS-supported investigators, which could enhance their ability to
take on ambitious scientific projects and approach problems more creatively. Increase flexibility
for investigators to follow important new research directions as opportunities arise, rather than
being bound to specific aims proposed in advance of the studies. More widely distribute
funding among the nation's highly talented and promising investigators to increase overall
scientific productivity and the chances for important breakthroughs. Reduce the time spent by
researchers writing and reviewing grant applications, allowing them to spend more time
conducting research. Enable investigators to devote more time and energy to mentoring
trainees in a more stable research environment. Companion Funding Opportunity is PAR-17-
094, R35 Outstanding Investigator Award. Application Due Date(s): October 3, 2017; October 3,
2018; October 3, 2019.

Academic-Industrial Partnerships to Translate and Validate in vivo Cancer Imaging Systems
(R01) - The purpose of this Funding Opportunity Announcement (FOA) is to stimulate
translation of scientific discoveries and engineering developments in imaging or spectroscopic
technologies into methods or tools that address problems in cancer biology, risk of cancer
development, diagnosis, treatment, and/or disease status. A distinguishing feature of each
application will be formation of an academic-industrial partnership, which is a strategic alliance
of investigators in academic, industrial, and any other entities who work together as partners to
identify and translate a technological solution or mitigation of a cancer-related problem.
Application Due Date(s): Standard dates apply.

Department of Agriculture
The Farm Business Management and Benchmarking (FBMB) Competitive Grants Program
provides funds to (1) improve the farm management knowledge and skills of agricultural
producers; and (2) establish and maintain a national, publicly available farm financial
management database to support improved farm management. Closing Date: Monday, April 17, 2017.

The purpose of the Crop Protection and Pest Management program is to address high priority issues related to pests and their management using IPM approaches at the state, regional and national levels. The CPPM program supports projects that will ensure food security and respond effectively to other major societal pest management challenges with comprehensive IPM approaches that are economically viable, ecologically prudent, and safe for human health. The CPPM program addresses IPM challenges for emerging issues and existing priority pest concerns that can be addressed more effectively with new and emerging technologies. The outcomes of the CPPM program are effective, affordable, and environmentally sound IPM practices and strategies needed to maintain agricultural productivity and healthy communities. Closing Date: Tuesday, May 9, 2017.

NASA
FUNDING OPPORTUNITIES: Biomedical Research and Technology Development Needed to Support Astronaut Health during Exploration Missions

The newly established Translational Research Institute (TRI) headquartered at Baylor College of Medicine has released a research announcement. The research topics are available at https://tinyurl.com/NNJ16ZSA001N-TRIRT and the proposal instructions can be found at https://tinyurl.com/NNJ16ZSA001N-TRIIN (links lead to NSPIRES web pages). TRI seeks innovative and disruptive technologies, techniques and countermeasures to enable and enhance human exploration of deep space. We are soliciting proposals from any US-based biomedical researcher or company, regardless of previous NASA funding.

There are two types of funding opportunities within this research announcement. The first two opportunities below—Oomics capabilities for use during missions and Long duration medication stability—are large, program project grants that may span several institutions and investigators in order to collaborate on an interrelated set of research questions within one broad topic. The remaining opportunities are primarily designed as single principal investigator projects. Program project grant awards are up to $850K a year. Single principal investigator projects range from $200K to $400K per year. Project durations vary based on the research emphasis and project type. All proposers must submit a letter of intent.

Funding topics of current interest are:

- Omics capabilities for use during missions
- Long duration medication stability
- Human brain imaging
- Inflight surgical capabilities
- Increasing organisms’ resistance to radiation
- Pharmaceuticals that preserve muscle mass
- Inflight production of fresh food
- Microbiome based therapies for improving health in spaceflight
- Lymphatic imaging in microgravity

All categories of United States (U.S.) institutions are eligible to submit proposals. Principal Investigators may collaborate with universities, federal government laboratories, the private
sector, and state and local government laboratories. In all such arrangements, the applying entity is expected to be responsible for administering the project according to the management approach presented in the proposal. Research with non-U.S. organizations should be conducted in a cooperative, no exchange-of-funds basis.

A pre-proposal webinar, during which TRI management will answer questions regarding this research announcement, will be held on March 23, 2017 and is open to all interested proposers. Questions must be submitted in writing at least 24 hours prior to the scheduled webinar to cmmoreno@bcm.edu. Answers to all questions (FAQ) will be posted on the TRI’s website by March 25, 2017.

Proposers are required to submit a letter of intent through nspires.nasa.gov by April 10, 2017 in order to submit a full proposal. Full proposals will also be submitted through nspires.nasa.gov and will be due May 19, 2017.

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The Translational Research Institute (TRI) is funded by a cooperative agreement from NASA to Baylor College of Medicine with consortium partners California Institute of Technology and Massachusetts Institute of Technology. The Institute’s mission is to lead a national effort in translating cutting-edge, emerging terrestrial research into applied space flight and to support human risk-mitigation for exploration missions beyond low Earth orbit.

Click here to be notified of future TRI solicitation announcements.

ROSES 2017: Earth Surface and Interior - NASA’s Earth Surface and Interior focus area (ESI, http://science.nasa.gov/earth-science/focus-areas/surface-and-interior) supports research and analysis of solid-Earth processes and properties from crust to core. The overarching goal of ESI is to use NASA’s unique capabilities and observational resources to better understand core, mantle, and lithospheric structure and dynamics and interactions between these processes and Earth’s fluid envelopes. ESI studies provide the basic understanding and data products needed to inform the assessment, mitigation, and forecasting of natural hazards, including earthquakes, tsunamis, landslides, and volcanic eruptions. These investigations also exploit the time-variable signals associated with other natural and anthropogenic perturbations to the Earth system, including those connected to the production and management of natural resources. ESI-17 NOIs Due on Mar 31, 2017. ESI-17 Proposals Due on May 19, 2017.

ROSES 2017: Rapid Response and Novel Research in Earth Science - This program element solicits proposals that advance the goals and objectives of NASA’s Earth Science Division by conducting unique research to investigate 1) unforeseen or unpredictable Earth system events and opportunities that require rapid response, and 2) novel new ideas of potential high merit and relevance for ESD science that have not otherwise been solicited by NASA in the past three years. RRNES16 Proposals Rolling responses through Mar 31, 2017.

Department of Defense
Fiscal Year 2018 Defense University Research Instrumentation Program (DURIP) - The Department of Defense (DoD) announces the Fiscal Year 2018 Defense University Research Instrumentation Program (DURIP). DURIP is designed to improve the capabilities of accredited United States (U.S.) institutions of higher education to conduct research and to educate scientists and engineers in areas important to national defense, by providing funds for the acquisition of research equipment or instrumentation. For-profit organizations are not eligible for DURIP funding. DURIP is part of the University Research Initiative (URI). INQUIRIES AND QUESTIONS DEADLINE: Friday, June 16, 2017. Your proposal must be received no later than Friday, July 7, 2017 at 11:59 PM Eastern Daylight time.

NRL WIDE BROAD AGENCY ANNOUNCEMENT - The Naval Research Laboratory (NRL) is the Navy's corporate laboratory. NRL conducts basic and applied research for the Navy in a variety of scientific and technical disciplines. The basic research program is driven by perceptions about future requirements of the Navy. Interested offerors must first submit a white paper (WP). The purpose of a WP is to preclude unwarranted effort on the part of an offeror whose proposed work is not of interest to NRL. White papers should include information on the device type (Role 0 or Role 1), the current detection capabilities, and a statement of the offeror’s R&D capabilities. Role type and detection capabilities are device use cases typically identified in our Specific (short term) BAA topics as opposed to the General BAA topics. If you are required to provide that information, instructions will be outlined in the topic summary, when applicable. Offerors of those WPs found to be consistent with the intent of the BAA may be invited to submit a formal proposal. An invitation does not assure an offeror of a subsequent contract award. If selected for a full proposal addition guidance will be provided. Submit one original of each WP to the email address listed in the topic summary. The subject of the email shall be "Subj: BAA number, Topic # and Topic Title". White papers shall be submitted in either Word or pdf format.