Research Funding Opportunities

**Organization:** NIH

**Solicitation Name:** R25 Innovative Programs to Enhance Research Training (IPERT) PAR-19-383

**Proposal Deadline:** October 15, 2020

**Summary:** Through this funding announcement, NIGMS intends to encourage innovative biomedical research education activities designed to keep pace with the rapid evolution of the research enterprise that is increasingly complex, interdisciplinary, and collaborative. As the scientific enterprise has expanded, there is greater variation in the backgrounds of people participating, approaches taken to investigate research questions, and the range of the careers in the biomedical research workforce that Ph.D. recipients are pursuing. There is also an increasing recognition of the need to enhance reproducibility of biomedical research results through scientific rigor and transparency and to reinforce the principles of the responsible conduct of research. This FOA is intended to enable the scientific community to develop and implement innovative activities that will provide high-quality skills development, mentoring, and outreach to equip diverse cohorts of participants with technical, operational or professional skills required for careers in the biomedical research workforce.


**Organization:** NIH

**Solicitation Name:** Team-Based Design in Biomedical Engineering Education PAR-19-215

**Letter of Intent Deadline:** April 27, 2020

**Proposal Deadline:** May 28, 2020

**Summary:** This FOA seeks to support programs that include innovative approaches to enhance biomedical engineering design education to ensure a future workforce that can meet the nation’s needs in biomedical research and healthcare technologies. Applications are encouraged from institutions that propose to establish new or to enhance existing team-based design courses or programs in undergraduate biomedical engineering departments or other degree-granting programs with biomedical engineering tracks/minors. This FOA targets the education of undergraduate biomedical engineering/bioengineering students in a team-based environment. While current best practices such as multidisciplinary/interdisciplinary education, introduction to the regulatory pathway and other issues related to the commercialization of medical devices, and clinical immersion remain encouraged components of a strong BME program, this FOA also challenges institutions to propose other novel, innovative and/or ground-breaking activities that can form the basis of the next generation of biomedical engineering design education.

**Organization: DOD Solicitation Name: Fiscal Year 2021 Defense University Instrumentation Program (DURIP) N00014-20-S-F004 Proposal Deadline: May 15, 2020**

**Summary:** This announcement seeks proposals from universities to purchase equipment and instrumentation in support of research in areas of interest to the DoD. A central purpose of the DURIP is to provide equipment and instrumentation to enhance research related education in areas of interest and priority to the DoD. Therefore, your proposal must address the impact of the equipment or instrumentation on your institution’s ability to educate students through research in disciplines important to DoD missions.  


**Organization: NSF Solicitation Name: Foundational Research in Robotics PD-20-144Y Proposals Accepted Anytime**

**Summary:** The Foundational Research in Robotics (Robotics) program supports research on robotic systems that exhibit significant levels of both computational capability and physical complexity. For the purposes of this program, a robot is defined as intelligence embodied in an engineered construct, with the ability to process information, sense, and move within or substantially alter its working environment. Here intelligence includes a broad class of methods that enable a robot to solve problems or make contextually appropriate decisions. Research is welcomed that considers inextricably interwoven questions of intelligence, computation, and embodiment. Projects may also focus on a distinct aspect of intelligence, computation, or embodiment, as long as the proposed research is clearly justified in the context of a class of robots.

The focus of the Robotics program is on foundational advances in robotics. Robotics is a deeply interdisciplinary field, and proposals are encouraged that explore the full range of fundamental engineering and computer science research challenges arising in robotics. However, all proposals must convincingly explain how a successful outcome will enable transformative new robot functionality or substantially enhance existing robot functionality. The proposal should clearly articulate how the intellectual contribution of the proposed work addresses fundamental gaps in robotics. Meaningful experimental validation on a physical platform is strongly encouraged.


Science investigations are solicited with ECIP. These may include data analysis and interpretation of current or historical NASA-spacecraft observations or non-NASA observations. Investigations may include theory, numerical simulation, or modeling, but these must be substantiated with and guided by data. Investigations should address the Heliophysics overarching goal or a specific objective as described in B.1. System Science and interdisciplinary proposals are welcome. Innovative ideas and techniques are encouraged.

[Link:](https://nspires.nasaprs.com/external/solicitations/summary.do?solId=%7bBCEE336B-D550-CCBA-1C8C-7A866DB06F45%7d&path=&method=init)