Research Funding Opportunities

Organization: NSF  Solicitation Name: IUSE EHR  Due Date: July 21, 2021  Summary: The National Science Foundation (NSF) plays a leadership role in developing and implementing efforts to enhance and improve STEM education in the United States. Through the NSF Improving Undergraduate STEM Education (IUSE) initiative, the agency continues to make a substantial commitment to the highest caliber undergraduate STEM education through a Foundation-wide framework of investments. The IUSE: EHR is a core NSF STEM education program that seeks to promote novel, creative, and transformative approaches to generating and using new knowledge about STEM teaching and learning to improve STEM education for undergraduate students. The program is open to application from all institutions of higher education and associated organizations. NSF places high value on educating students to be leaders and innovators in emerging and rapidly changing STEM fields as well as educating a scientifically literate public. In pursuit of this goal, IUSE: EHR supports projects that seek to bring recent advances in STEM knowledge into undergraduate education, that adapt, improve, and incorporate evidence-based practices into STEM teaching and learning, and that lay the groundwork for institutional improvement in STEM education. In addition to innovative work at the frontier of STEM education, this program also encourages replication of research studies at different types of institutions and with different student bodies to produce deeper knowledge about the effectiveness and transferability of finding. The IUSE: EHR program features two tracks: (1) Engaged Student Learning and (2) Institutional and Community Transformation. Several levels of scope, scale, and funding are available within each track, as summarized in Table 1 of the solicitation. Link: https://www.nsf.gov/pubs/2021/nsf21579/nsf21579.pdf

Organization: NSF  Solicitation Name: Innovation Technology Experiences for Students and Teachers (ITEST) Due Date: August 13, 2021  Summary: ITEST is an applied research and development (R&D) program providing direct student learning opportunities in pre-kindergarten through high school (PreK-12). The learning opportunities are based on innovative use of technology to strengthen knowledge and interest in science, technology, engineering, and mathematics (STEM) and information and communication technology (ICT) careers. To achieve this purpose, ITEST supports projects that engage students in technology-rich experiences that: (1) increase awareness and interest of STEM and ICT occupations; (2) motivate students to pursue appropriate education pathways to those occupations; and (3) develop STEM-specific disciplinary content knowledge and practices that promote critical thinking, reasoning, and communication skills needed for entering the STEM and ICT workforce of the future.

ITEST seeks proposals that pursue innovative instructional approaches and practices in formal and informal learning environments, in close collaboration with strategic partnerships. ITEST proposals should broaden participation of all students, particularly those in underrepresented and under-served groups in STEM fields and related education and workforce domains. ITEST supports three types of projects: (1) Exploring Theory and Design Principles (ETD); (2) Developing and Testing Innovations (DTI); and (3) Scaling, Expanding, and Iterating Innovations (SEI). ITEST also supports Synthesis and Conference proposals.
All ITEST proposals must address how they are (A) designing innovations that meet ITEST program goals which include innovative use of technologies, innovative learning experiences, STEM workforce development, strategies for broadening participation, and strategic partnerships; and (B) measuring outcomes through high-quality research which includes high-quality research design, project evaluation, and dissemination of findings. Link: https://www.nsf.gov/pubs/2019/nsf19583/nsf19583.htm

Organization: AFOSR  Solicitation Name: Young Investigator Program  Due Date: White Paper May 31, 2021 and Full July 12, 2021 Summary: The Fiscal Year 2022 Air Force Young Investigator Research Program (YIP) intends to support early in career scientists and engineers who have received Ph.D. or equivalent degrees by 1 April 2015 or later showing exceptional ability and promise for conducting basic research. Individual awards are made to U.S. institutions of higher education, industrial laboratories, or non-profit research organizations where the principal investigator (PI) is employed on a full-time basis and holds a regular position. YIP PIs must be U.S. citizens, national, or permanent residents. Researchers working at a Federally Funded Research and Development Center or a Department of Defense (DoD) Laboratory are not eligible for this competition. Link: https://www.grants.gov/web/grants/view-opportunity.html?oppId=332937

Or https://community.apan.org/wg/afosr/w/researchareas/12792/young-investigator-program-yip/

USU ENG Faculty

If you are searching for a specific area to fund, please contact me. I will identify potential funding opportunities related to your topic.

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