Engineering Research Transforming Our World

Research Funding Opportunities

Organization: NSF Solicitation Name: EHR Core Research: Building Capacity in STEM Education Research Deadline: March 29, 2022 Summary: ECR’s Building Capacity in STEM Education Research (ECR: BCSER) supports projects that build investigators’ capacity to carry out high-quality STEM education research that will enhance the nation’s STEM education enterprise. In addition, ECR: BCSER seeks to broaden the pool of researchers who can advance knowledge regarding STEM learning and learning environments, broadening participation in STEM fields, and STEM workforce development. Researchers of races and ethnicities, genders, sexual orientations, and abilities who are currently underrepresented in their participation in STEM education research and the STEM workforce, as well as faculty at minority-serving and two-year institutions, are particularly encouraged to submit proposals.

Specifically, ECR: BCSER supports activities that enable researchers to expand their areas of expertise and acquire the requisite knowledge and skills to conduct rigorous research in STEM education. Career development may be accomplished through investigator-initiated professional development and research projects or through institutes that enable researchers to integrate methodological strategies with theoretical and practical issues in STEM education.


Organization: ONR Solicitation Name: FY22 Long Range Broad Agency Announcement (ONR BAA) for Navy and Marine Corps Science and Technology N00014-22-S-B001 Proposal Deadline: Open through September 30, 2022 Summary: This BAA utilizes competitive procedures in accordance with 10 USC 2302(2)(B) for the selection for award of science and technology (S&T) proposals. For purposes of this BAA, S&T includes activities involving basic research, applied research, advanced technology development, and, under certain conditions, may include activities involving advanced component development and prototypes. Topic areas may be identified under the ONR website

Link: https://www.onr.navy.mil/work-with-us/funding-opportunities/announcements

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Organization: AFRL  
Solicitation Name: Structural Integrity Research Collaborations for Aircraft (SIRCA) Development
Deadline: White Paper Prior to 10/23/23 and then full at a time requested by offerors
Summary: Air Force Research Laboratory, Aerospace Systems Directorate is soliciting white papers and potentially technical and cost proposals under this announcement to foster innovative research in the area of aircraft structural integrity. This initiative targets higher education programs in engineering at colleges and universities located in the United States and will encourage students and professors to perform fundamental research and development (R&D) directly related to the technical objectives of AFRL/RQV. The objective of the Structural Integrity Research Collaborations for Aircraft (SIRCA) program is to enable collaborative research partnerships between AFRL, Academia, and Industry, in areas relevant to aircraft, structural integrity including, but not limited to, risk and reliability, metal fatigue and fracture, and composite damage modeling. These technical areas are necessary for developing critical war-fighting technologies for the nation’s air, space and cyberspace forces, as well as commercial derivatives.  

Organization: ARO  
Solicitation Name: Broad Agency Announcement (ARO BAA) for Basic and Applied Research Development
Deadline: Concept Paper Prior to 10/28/25 and then full at a time requested by offerors
Summary: There are multiple topics of scientific and technical interest including: 1) Integrated Protective Head borne Equipment and Injury Diagnostic/Assessment Tools; 2) Modular Personal Protection Equipment (MPPE) and Injury Diagnostic/Assessment Tools, 3) Chemical/Biological Protection for Individuals, 4) Countersurveillance, 5) Body Worn Interactive Materials, 6) Materials Nanotechnology, 7) Advanced Protection, Integration technologies/Systems and Assessment Methods, 8) Integrated Sound, Light, and Blast Management for the Ears and Eyes, etc.