Engineering Research Transforming Our World

Research Funding Opportunities

Organization: NOAA Solicitation Name: Climate and Atmospheric Research Due Date: LOI Due Aug. 17, 2020 and Full Oct. 19 and Nov. 30, 2020 Summary: Climate variability and change present society with significant economic, health, safety, and security challenges. As part of the National Oceanic and Atmospheric Administration (NOAA) climate portfolio within the Office of Oceanic and Atmospheric Research (OAR), the Climate Program Office (CPO) addresses these climate challenges by supporting climate research, observations, monitoring, modeling, assessments, interdisciplinary decision-support research, outreach, education, and partnership development. These investments support NOAA’s mission of "Science, Service, and Stewardship" and are designed to advance our understanding of the Earth’s climate system and to foster the application and use of this knowledge to improve the resilience of our Nation and its partners. The position of CPO at the intersection of NOAA’s science and service missions, the climate research community, and the broader climate enterprise enables it to provide strategic vision, lead a research agenda and forge partnerships that enhance society's ability to make effective decisions. CPO also supports NOAA’s mandated responsibilities under the National Climate Program Act, Global Change Research Act and its National Climate Assessment, the National Integrated Drought Information System Act, and similar international endeavors such as the World Climate Research Program. The 6 competitions covered by this announcement are as follows:

* AC4 and COM: Atmospheric impacts due to changes in anthropogenic activity during the COVID-19 pandemic
* MAPP: New Climate Monitoring Approaches and Products for Areas of Climate Risk
* MAPP: Process-Oriented Diagnostics for NOAA Climate Model Improvement and Applications
* COM and CVP: Innovative Ocean Dataset/Product Analysis and Development for support of the NOAA Observing and Climate Modeling Communities
* Adaptation Sciences (AdSci) Program: Advancing Climate Adaptation and Coastal Community Resilience

Link: https://www.grants.gov/web/grants/view-opportunity.html?oppId=328266

Organization: NSF Solicitation Name: Research Experiences for Teachers (RET) in Engineering and Computer Science Due Date: Sept. 30, 2020 Summary: NSF's Directorate for Engineering (ENG) and the Directorate for Computer and Information Science and Engineering (CISE) have joined to support the Research Experiences for Teachers (RET) in Engineering and Computer Science program. This program supports active longterm collaborative partnerships between K-12 Science, Technology, Engineering, Computer and
Information Science, and Mathematics (STEM) in-service and pre-service teachers, full-time community college faculty, university faculty and students, and industry partners to enhance the scientific disciplinary knowledge and capacity of the STEM teachers and/or community college faculty through participation in authentic summer research experiences with engineering and computer science faculty researchers. The research projects and experiences all revolve around a focused research area related to engineering and/or computer science that will provide a common cohort experience to the participating educators. The K-12 STEM teachers and/or full-time community college faculty also translate their research experiences and new scientific knowledge into their classroom activities and curricula. The university team will include faculty, graduate and undergraduate students as well as industrial advisors. As part of the long-term partnership arrangements, involvement of undergraduate/graduate students with the integration of the RET curricular materials into classroom activities is particularly encouraged. 


**Organization:** DARPA Solicitation Name: Defense Sciences Offices (DSO)  
**Due Date:** June 12, 2020  
**Summary:** The mission of the Defense Advanced Research Projects Agency (DARPA) Defense Sciences Office (DSO) is to identify and create the next generation of scientific discovery by pursuing high-risk, high-payoff research initiatives across a broad spectrum of science and engineering disciplines and transforming these initiatives into disruptive technologies for U.S. national security. In support of this mission, the DSO Office-wide BAA invites proposers to submit innovative basic or applied research concepts or studies and analysis proposals that address one or more of the following technical thrust areas: (1) Frontiers in Math, Computation and Design, (2) Limits of Sensing and Sensors, (3) Complex Social Systems, and (4) Anticipating Surprise. Each of these thrust areas is described below and includes a list of example research topics that highlight several (but not all) potential areas of interest. Proposals must investigate innovative approaches that enable revolutionary advances. DSO is explicitly not interested in approaches or technologies that primarily result in evolutionary improvements to the existing state of practice. 

Link: https://www.grants.gov/web/grants/view-opportunity.html?oppId=327652

COVID-19 FUNDING  
https://research.usu.edu/rd/covid-19-related-funding/