Engineering Research Transforming Our World

Research Funding Opportunities

**Organization: NSF Solicitation Name:** Opportunity for Active EFRI and ERC Awardees to Apply for Supplemental Funding through the Research Experience and Mentoring (REM) Program **Due Date:** November 6, 2020

**Summary:** NSF encourages EFRI- and ERC-supported researchers to create carefully mentored research opportunities for high school students, STEM teachers, undergraduate STEM students, faculty, and veterans who may not otherwise become engaged in a research project, and to utilize the contributions and talents of these participants to make further progress toward research goals. The experience should be mutually beneficial. Research experiences and mentorship have been positively correlated with STEM success. For example:

- Receiving effective mentorship in STEM has been shown to be impactful for all learners and can often strengthen persistence in STEM $^{1, 2}$.
- Co-curricular activities which provide both authentic disciplinary experiences and mentoring support influence retention and engagement in STEM $^{3, 5, 6}$.
- Mentoring and training reinforce and strengthen the persistence of underrepresented students in STEM courses and majors $^{4, 5, 7}$.
- Offering mentoring and experiential opportunities is valuable for engaging K-12 students and teachers $^{5, 8}$.

The REM Program seeks to stimulate this mutual process of research exploration and interaction by offering the Principal Investigators (PIs) flexibility to design the research experience and mentoring plan for the RPs. The REM Program also encourages PIs to leverage local STEM-related expertise and infrastructure already supported by NSF.


**Organization: ARL Solicitation Name:** BAA **Due Date:** Open

**Summary:** Proposals are sought from institutions of higher education, nonprofit organizations, state and local governments, foreign organizations, foreign public entities, and for-profit organizations (i.e. large and small businesses) for scientific research in mechanical sciences, mathematical sciences, electronics, computing science, physics, chemistry, life sciences, materials science, network science, and environmental sciences. Proposals will be evaluated only for fundamental scientific study and experimentation directed toward advancing the scientific state of the art or increasing basic knowledge and understanding. Proposals focused on specific devices or components are beyond the scope of this BAA. **Link:** [https://www.arl.army.mil/wp-content/uploads/2020/04/ARO-BAA-Amendment-7-Final.pdf](https://www.arl.army.mil/wp-content/uploads/2020/04/ARO-BAA-Amendment-7-Final.pdf)
Organization: Water Research Foundation
Solicitation Name: 12 Solicitations in 1
Due Date: October 15, 2020 & October 29, 2020
Summary: The Water Research Foundation (WRF) has released Requests for Proposals (RFPs) for 12 new projects funded through WRF’s Research Priority Program. This strategic program enables WRF to address broadly relevant subscriber issues, challenges, and opportunities with targeted research that lasts three to five years. Proposals for the following RFPs are due by Thursday, October 15, 2020 at 2:00 PM MT:

**Linking Nutrient Reductions to Receiving Water Responses** (5078)

**Assessment of Vulnerability of Source Waters to Toxic Cyanobacterial Outbreaks** (5080)

**Guidance for Using Pipe Loops to Inform Lead and Copper Corrosion Control Treatment Decisions** (5081)

**Investigation of Alternative Management Strategies to Prevent PFAS from Entering Drinking Water Supplies and Wastewater** (5082)

**Case Studies on Water Sector Interdependencies** (5086)

**Implementation of Innovative Biological Nutrient Removal Processes through Improvement of Control Systems and Online Analytical Measurement Reliability and Accuracy** (5087)

Proposals for the following RFPs are due by Thursday, October 29, 2020 at 2:00 PM MT:

**Water Reuse and Beyond – Water Quality Monitoring Methods, Data, and Interpretation** (5079)

**Advancing Low-Energy Biological Nitrogen and Phosphorus Removal** (5083)

**Holistic and Innovative Approaches for Flood Mitigation Planning and Modeling under Extreme Wet Weather Events and Climate Impacts** (5084)

**Impact of a Haloacetic Acid MCL Revision on DBP Exposure and Health Risk Reduction** (5085)

**Defining Exposures of Microplastics/Fibers (MPs) in All Waters: Occurrence, Monitoring, and Management Strategies** (5088)

**Developing a Framework for Quantifying Energy Optimization Reporting** (5091)

**Link:** [https://www.waterrf.org/open-rfps](https://www.waterrf.org/open-rfps)

**COVID-19 FUNDING**
[https://research.usu.edu/rd/covid-19-related-funding/](https://research.usu.edu/rd/covid-19-related-funding/)