



ANNOUNCEMENT

NH WATER RESOURCES RESEARCH CENTER FY 2020 SECTION 104 RESEARCH PROGRAM

The New Hampshire Water Resource Research Center (NH WRRC) is accepting applications for the FY 2020 State Water Resources Research Institute Program grant (Section 104 of the Water Resources Act).

The NH WRRC invites research and information transfer proposals from investigators at any college or university in New Hampshire for consideration in the Center's FY 2020 research program. The proposed research must be directed at research priorities of New Hampshire, New England, or the northeastern United States and align with the program objectives of the USGS RFP (section II). The NH WRRC has developed a list of NH priorities (see below). **To be considered for funding, proposals must be submitted by email to nh.wrrc@unh.edu no later than Friday, November 8, 2019 at 5:00 p.m.**

Detailed instructions for proposal preparation are included in the [2019 United States Geological Survey \(USGS\) RFP](#). We anticipate that the final USGS 2020 [RFP](#) will be released in December 2019 and that no substantive changes to the proposal format will be made. Investigators should focus on the application instructions (IX) section E (Project Proposals) in the RFP. Proposal items 1 through 19 can be combined in a single PDF and items 11 through 16 should not exceed 10 pages (including references). Other sections of the RFP (A-D and F) describe how the NH WRRC must format the proposal package for submission to the USGS in January 2020. Only one-year projects will be considered for FY2020. The budget year is from 1 March 2020 to 28 February 2021 and budgets must be approved by your institution's grants and agreements office. The overall research budget is generally about \$55,000, but funds have not yet been appropriated for FY 2020. The federal budget cap for each project (total direct costs) is \$25,000. The overall program funds, which are federal, must be matched by two non-federal dollars for each federal dollar. Match can be supplied by working with watershed organizations, support of graduate students by non-Federal funds, volunteer labor and unrecovered indirect costs.

Proposals submitted to the NH WRRC will be reviewed by an external panel. The highest-ranked proposals will be selected and applicants will be notified by December 4, 2019. **If you plan to submit a proposal, please send a courtesy message to nh.wrrc@unh.edu so that we can arrange for reviewers.** Modifications to the proposal and its budget may be required based on reviewer feedback. Any revisions will be due by December 17, 2019. The NH WRRC will then submit finalized proposals to www.grants.gov by January 16, 2020. Criteria for proposal evaluation include 1) relevance to the goals of the NH WRRC; 2) scientific quality of the work being proposed; 3) qualifications of the investigator to conduct the proposed research; 4) likelihood of success, and 5) past record of the investigator in publication and dissemination of research results. Proposals involving students or seeking seed funding are encouraged.

Questions relating to submission of proposals or matching funds can be directed to the NH WRRC Associate Director Michelle Shattuck (michelle.shattuck@unh.edu).

NH WRRC RESEARCH PRIORITY ISSUES

Surface Water

- Land use impact on surface water quality
- Non-point source pollution
- Effects of urban development and storm water runoff on surface water quality
- Impacts of highway and road maintenance on water quality
- Low flow - wastewater flow interactions and effect on water quality
- Linking water quality data and biological functions
- Effect of septic systems on surface water quality

Groundwater

- Bedrock aquifer delineation and protection
- Mapping aquifers for GIS database
- Effects of sand and gravel extraction, landfills or municipal transfer stations on groundwater quality
- Effects of septic systems on groundwater quality
- Groundwater availability
- Artificial recharge

Land Use/Application

- Impact of development/land use on surface and groundwater quality
- Biosolids in land farming
- Buffer zone/riparian zone effectiveness with different land uses
- BMP effectiveness

Management/Planning Issues

- Impact of development
- Level of sustainable development

Watershed

- Watershed approach to management decisions
- Watershed approach to studying water quality
- Systems approach on a watershed scale to management: economic factors and quality of life
- Watershed resilience and ecosystem services

Technology Transfer

- Water quality and water use
- Water conservation education

Water Supply

- Quantity and quality issues
- Reliability and resilience
- Effects of climate change
- Planning and conservation
- Management, regulation and allocation
- Infrastructure improvement