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**REQUEST FOR FACULTY PRE-PROPOSALS
AND STUDENT PROPOSALS FOR THE
FY 2021-2022 COMPETITIVE GRANTS PROGRAM**

SPONSORED BY

**THE WATER RESOURCES RESEARCH INSTITUTE
OF THE UNIVERSITY OF NORTH CAROLINA SYSTEM
AND USGS 104(B) PROGRAM**

RFP ISSUE DATE: April 22, 2020

FACULTY PRE-PROPOSAL DUE DATE: MAY 26, 2020, 5:00 P.M.

STUDENT FULL PROPOSAL DUE DATE: JULY 13, 2020 5:00 P.M.

JOIN US FOR AN RFP INFO SESSION: MAY 6, 2020

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FOR QUESTIONS, PLEASE CONTACT:

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jmfear@ncsu.edu

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Coordinator for Research & Outreach
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Note: Due to WRRRI's current teleworking situation due to Covid-19, email is the preferred method of contact at this time. Phone calls and voicemails may not be received in a timely fashion.

CONTENTS

- I. Overview
- II. Project Funding and Duration
- III. Applicant Eligibility
- IV. Applicant Diversity
- V. Proposal Eligibility
- VI. RFP Focus Areas
- VII. Pre-Proposal Format For Faculty Submissions
- VIII. Full Proposal Format For Student Submissions
- IX. Submission Process and Due Date
- X. RFP Timeline
- XI. Proposal Consultation

I. OVERVIEW

The Water Resources Research Institute (WRI) of The University of North Carolina is part of a national system of 54 institutes authorized by the Water Resources Research Act (WRIA) of 1964 (as amended), and represents a federal-state partnership between the US Geological Survey (USGS) and state land grant universities. The North Carolina WRI is hosted by North Carolina State University.

This Request for Proposals (RFP) is for research, engagement and information transfer projects in the areas of water resources as prioritized by WRI with input from the WRI Advisory Committee, which comprises stakeholders of various water resources sectors and professions working throughout North Carolina. Guidance is also received from the Urban Water Consortium and the Stormwater Consortium, two WRI-administered consortia representing drinking water/wastewater utilities and municipal stormwater programs around the state. Research projects should be hypothesis-driven or contain clear research objectives. Engagement and information transfer projects may or may not contain a hypothesis.

Per Section 104(b) of the WRIA, the North Carolina Water Resources Research Institute shall:

- 1) “plan, conduct, or otherwise arrange for competent applied and peer reviewed research that fosters-
 - A. improvements in water supply reliability;
 - B. the exploration of new ideas that-
 - i. address water problems; or
 - ii. expand understanding of water and water-related phenomena;
 - C. the entry of new research scientists, engineers, and technicians into water resources fields; and
 - D. the dissemination of research results to water managers and the public.
- 2) cooperate closely with other colleges and universities in North Carolina that have demonstrated capabilities for research, information dissemination, and graduate training in order to develop a statewide program designed to resolve State and regional water and related land problems.
- 3) Each institute shall also cooperate closely with other institutes and other organizations in the region to increase the effectiveness of the institutes and for the purpose of promoting regional coordination.”

Proposals sent in through this RFP must fit within one of these areas.

II. PROJECT FUNDING AND DURATION

Projects may be funded in whole or part by federal (USGS) funds contingent upon appropriation by Congress. As of the issue date of this RFP, these federal dollars have not been appropriated. As such, no funding can be guaranteed and all funding levels including the maximum amount per project or the number of projects are subject to change. Applicants whose final proposals have been accepted may be

asked to revise scopes of work, start dates, and budgets to align with available funding levels, funding sources and receipt of federal funds.

Historically, WRRRI has been able to support approximately four faculty projects and five student projects per year, and we anticipate the ability to provide similar levels of support for this cycle pending quality of proposals and willingness of finalist applicants to adapt scope and budgets as needed.

All work must be completed within the proposed timeline. Barring extreme circumstances, no-cost extensions will not be issued beyond the end date specified in the official award.

FACULTY

Pre-proposals may be submitted for either 1- or 2-year projects. The maximum award for a 2-year project is \$120,000, with a \$60,000 annual limit. The maximum award for a 1-year project is \$60,000. The limit refers only to direct costs. Per the language in the WRRRA, WRRRI does not pay indirect costs.

Please use March 1, 2021 as your planning target for a project start date, with a project end date of February 28, 2022 or 2023 depending on whether you are proposing a 1- or 2-year project. Actual start and end dates may be subject to change based on appropriation of federal funds and other federal guidelines.

Funding for the second year of a 2-year award is contingent upon appropriation of funds by Congress in the following fiscal year. Second-year funding is contingent upon satisfactory performance in year 1, as determined by timely submission of progress reports and satisfactory justification and communication with WRRRI in the event year 1 objectives have not been met.

Two-year projects must have distinct year 1 and year 2 objectives, timelines and costs. Year 1 must be able to stand on its own in case year 2 does not occur. While full budgets are not required in the pre-proposal stage, applicants should have the \$60k annual limit in mind and plan projects that do not require expenses to be front loaded or back loaded in year 1 or 2 of the project.

STUDENTS

Full proposals for student research may be submitted for 1-year projects only. The maximum award for a 1-year student project is \$10,000. The limit refers only to direct costs. Per the language in the WRRRA, WRRRI does not pay indirect costs. Please work with your faculty sponsor and university office of sponsored research (or similar) for assistance with budget questions and allowable expenses. Faculty and post-doc salary is not allowed on student projects.

Please use March 1, 2021 as your planning target for a project start date, with a project end date of February 28, 2022. Actual start and end dates may be subject to change based on appropriation of federal funds and other federal guidelines.

Student submissions should be distinct, stand-alone proposals and will be evaluated as such through a review process that is separate from the faculty pre-proposal reviews. They should not depend on another faculty WRRRI proposal submission for supplemental information or justification. Submissions to the two tracks (student and faculty funding) should not be duplicative (i.e. a student submission should not be a “back-up” proposal that is an excerpt or pared down version of a larger \$60K or \$120K faculty pre-proposal). Student proposals must be written by the applying student.

III. APPLICANT ELIGIBILITY

FACULTY

Faculty and University Affiliates of any accredited college or university (public or private) in North Carolina may apply. While students and post-docs are not eligible to apply as a principal investigator (PI), undergraduate, graduate, and post-doctoral support may be included in proposals. We especially encourage student support and student training opportunities. Though not eligible to apply directly, WRRRI encourages industry and private groups to partner with university researchers in response to this call.

A single individual may be listed as an investigator on a maximum of two pre-proposals, and serve as PI on only one. That is, if you are involved in two pre-proposals (the maximum allowed), you may be a co-investigator on both, or a co-investigator on one and PI on the other.

WRRRI strongly encourages collaboration among researchers from different academic institutions, and with federal, state, and local agencies. WRRRI also encourages submissions from principal investigators in early-career status.

Timeliness and researcher performance on past projects funded through WRRRI will be a factor in faculty pre-proposal selection. As a consequence, a researcher who is late reporting on or completing an ongoing study funded through WRRRI without an approved no-cost extension might not be eligible to apply as a PI or co-PI on a pre-proposal for the current funding cycle. If you have any questions about your eligibility in this regard, please contact John Fear at jmfear@ncsu.edu.

STUDENTS

For student proposals, only full time graduate students in good academic standing attending an accredited college or university (public or private) in North Carolina may apply. Undergraduates and post-docs are not eligible for student funding under this funding track, but undergraduate participation in the proposed projects is encouraged. Faculty and post-doc salary is not allowed on student proposals.

Students must have a faculty sponsor who will serve as the official PI/applicant on the proposal. WRRRI is not able to contract directly with students. Students interested in applying to this funding opportunity but who do not have a defined or suitable faculty sponsor are encouraged to reach out to WRRRI to discuss options for facilitating a connection with a faculty member.

For student submissions, only one proposal per student is allowed. There is no limit to the number of students for whom a faculty member may serve as the sponsoring applicant. Serving as a faculty sponsor of a student does not count as part of the two pre-proposal limit for faculty as explained above.

IV. APPLICANT DIVERSITY

Recognizing that some students and faculty have historically been underserved and under-targeted with research opportunities, and that some students and faculty are underrepresented in the sciences, we encourage submissions by and/or collaborative partnerships with one or more of the following:

- African American, Hispanic and Native American faculty
- Historically Black Colleges and Universities (HBCUs)
- Minority Serving Institutions (MSIs)
- Community college faculty and students

V. PROPOSAL ELIGIBILITY

Proposed research must take place in the state of North Carolina.

Faculty pre-proposals/student full proposals (“proposals”) may address research questions and methods in the fields of social science, education, communications, natural science, engineering, economics or policy, or a combination of these disciplines (as applied to the focus areas below). We encourage proposals that include meaningful public engagement, public participation, extension activities or collaboration with members of the communities where research is to take place.

Proposals must address a specific research question or address clear, need-based objectives (e.g. in the case of informational transfer projects).

Proposals not eligible for funding under this call include those focused on monitoring-only activities, those focused only on ocean waters, and those on health effects involving human subjects.

Research that addresses the link between environmental and human health as related to the focus areas below is acceptable (which may require IRB approval from the applicant’s campus).

Only invited faculty pre-proposal teams will be eligible to submit full proposals. WRRRI anticipates inviting approximately 50% of the pre-proposals teams to submit full proposals, with anticipated funding for approximately four full faculty proposals. WRRRI anticipates funding approximately five student proposals.

VI. RFP FOCUS AREAS

Proposals must address one of the focus areas below.

RESEARCH PRIORITY AREA 1: NON-POINT SOURCE POLLUTION MANAGEMENT

In this section of the RFP, *Innovative Non-Point Source Pollution Control Approaches*, hereinafter referred to simply as “innovative approaches,” collectively include green stormwater infrastructure, low impact development, nature-based strategies and other innovative control measures, practices, and policies that mitigate stormwater runoff and non-point source pollution from rural (forested, agricultural) and urban lands and impervious surfaces.

Innovative Approaches With regard to “innovative approaches” as defined above, the following questions are of interest:

- What is the short-term and long-term effectiveness of innovative approaches, specifically as related to stormwater and non-point source pollution treatment; costs and benefits; water quality improvement; infrastructure and community resilience; and flood mitigation?

- What are the short-term and long-term implementation and maintenance costs and benefits of innovative approaches for developers, municipalities, farmers, communities, and individuals?
- How can innovative approaches be applied in new, retrofit, redevelopment and agricultural applications; and in urban vs. rural settings?
- How can innovative approaches be encouraged and incentivized in NC?
- How can innovative approaches be designed or improved to account for and mitigate impacts of extreme events (such as flooding and drought as related to changing climate and precipitation regimes) while still meeting treatment goals?
- For the questions above, how do innovative approaches compare to conventional stormwater and non-point source pollution control approaches?
- For the questions above, how do costs, benefits, effectiveness, etc. for innovative approaches compare across the different regions of the State?

Urban and Rural Impacts and Mitigation How can we quantifiably mitigate the effects of impervious cover and agricultural activities on water quality and aquatic life in different urban and rural riparian settings? What realistic management measures (including stream restoration practices, riparian buffers, and floodplain-stream reconnection, and/or law/policy solutions) exist or can be further evaluated or modified to address effects of impervious cover and agricultural activities on riparian systems? How can watershed restoration activities be implemented to achieve macroinvertebrate recovery and recolonization?

Pollutant Removal Processes and Credits

- How should pollutant removal credits and dollar values be determined and evaluated for urban and rural stormwater and non-point source control approaches and practices, in particular those aimed at managing nutrients, pathogens, and sediment? How can we better understand the processes by which structural and non-structural approaches and practices remove contaminants from runoff and non-point sources and reduce impacts to receiving riparian systems?
- Specifically for the state of North Carolina, and its physiographic regions (mountains, piedmont, and coastal plain), what location-based methods, criteria, and economic valuation can be developed for evaluating stormwater and non-point source control approaches, stream restoration and management practice performance, credit accounting, economic value, dollar costs, reduced future water treatment costs, and removal rates for pollutants (particularly nutrients, pathogens, and sediment)?

RESEARCH PRIORITY AREA 2: DRINKING WATER, WASTEWATER & WATER INFRASTRUCTURE

Risk and uncertainty In the face of changing population, land use, climate and precipitation regimes, and regulations, how can we quantify and manage risks and uncertainties to public water supplies and water utility infrastructure? How should rate setting and financing capital improvements for water and sewer utilities be determined in the face of these risks and the changing physical and regulatory landscapes? How can utilities increase their resilience to these changes? What risks exist for human health and well-being related to water consumption, contact, and reliable utility service? How can these risks be adequately managed and communicated?

Customer behavior and utility relations Using social science and economic valuation methodologies, how can water/wastewater utilities better understand customers': level-of-service expectations; motivations for behaviors; willingness to pay for services (including ecosystem services that are protected through water treatment and management); customer perceptions, attitudes, opinions and beliefs related to drinking water, wastewater, and reclaimed water; and actual changes in behaviors in light of changing climate regimes? How can this information be applied to utility management? How do the aforementioned questions regarding expectations, behaviors, willingness to pay, etc. apply to private well owners and agricultural communities? How do these factors influence the risk and health impacts assumed by private well owners and agricultural communities? For private well owners and agricultural communities, how are decisions made related to conducting testing, managing their systems and understanding and assuming risks related to groundwater resources, supply, health and contamination?

Alternative water sources What alternative sources (graywater, harvested rainwater, reclaimed water) exist for differing consumptive uses (e.g. home irrigation)? What are the health risks of these alternative sources? What are the impacts of alternative water use on overall water supply and demand? How can public perception barriers or economic barriers be overcome to increase likelihood of acceptance, adoption and use of alternative sources?

Innovative processes What/how can innovative processes and technologies be applied to NC utilities for surface water and groundwater treatment, wastewater treatment, plant operation, energy production, distribution systems, waste discharge management, potable and reclaimed water supply, and the repair, management, planning, and resilience of infrastructure? What information gaps exist and what processes are needed for effective utility management and treatment of emerging contaminants of concern?

RESEARCH PRIORITY AREA 3: GROUNDWATER & SURFACE WATER

What are the human impacts to groundwater and/or surface water availability and quality in North Carolina? What fundamental hydrogeological interactions of surface water and groundwater resources do we need to further understand in order to support the sustainable use of water resources in urban and rural settings and for consumptive (domestic and agricultural irrigation, home use, industry) and non-consumptive uses (e.g. maintaining riparian flow)? How can information and data gaps be addressed to better understand and manage groundwater and/or surface water resources?

RESEARCH PRIORITY AREA 4: WATERSHED MANAGEMENT

In NC watersheds where Total Maximum Daily Loads (TMDLs), nutrient management plans, allocation management strategies, natural infrastructure for flood mitigation, and other innovative practices have been implemented, what changes in water quality and quantity have been observed? What are the sources, transport and fate of nutrients, sediments and other contaminants in surface water and groundwater in these watersheds? What physical, hydrological, biological and/or community dynamics need to be understood to enhance watershed management approaches to improve stream health, human health, ensure adequate supply, and promote resilient communities?

VII. PRE-PROPOSAL FORMAT FOR FACULTY SUBMISSIONS

In fairness to all applicants, if we receive a pre-proposal that does not adhere to the following format guidelines, we will unfortunately have to disqualify your pre-proposal from the competition. Please double-check the formatting of your pre-proposal carefully before submitting.

Pre-proposals must adhere to the following format:

- 1-inch margins all around
- Times New Roman 12-point font
- Strict page limits as listed below. Note, figures and diagrams are considered part of each section narrative and count towards section page limits.
- Page numbers, starting with the cover page as page 1

Pre-proposals must contain all of, and only, the following elements:

1. Cover page
2. Objectives and technical approach
3. Significance to N.C. water resources
4. References cited
5. CVs
6. Letters of support (optional)

All elements are to be compiled into a single pdf. Please note specific instructions on the online proposal management system for how to submit your pre-proposal. See section IX of this RFP regarding the online proposal management system.

1. **Cover Page** (limited to 1 page)

Cover pages must include the following elements:

- Pre-proposal title
- Proposed start and end dates (should be between March 1, 2021 and February 28, 2022/2023 depending on whether you are proposing a 1 year or two year project)
- Budget request (total amount only, no breakdown)
- Name, academic rank or title, university and department/school, mailing address, phone number, and e-mail address for the principal investigator (PI)
- Name, academic rank or title, university and department/school, and e-mail address for each co-investigator(s), or relevant information for non-academic co-investigator(s)
- One to five keywords for the proposed project
- Statement that “The proposed project would OR would not [pick one] involve funds going to a USGS collaborator.” (This is for WRRRI administrative purposes only and is not a factor in identifying the successful pre-proposals.)

2. **Objectives and Technical Approach** (limited to 1 page)

Describe your project and the RFP focus area(s) it addresses. State specifically what you plan to accomplish in the proposed project in terms of goals, objectives, hypotheses to test, or research questions to answer; how it will be done (i.e., the technical approach, engagement/partnership

approach, and/or communication approach, brief timeline, major milestones and tasks, and leveraging of existing resources [if applicable]); and/or needs to be met through communication and information transfer†. Be specific and provide detail for reviewers to assess the feasibility and appropriateness of your approaches.

3. **Significance to North Carolina and Funding Program‡** (limited to one page)
Explain the significance and relevance of the proposed project for one or more important water resource issues in North Carolina, and the interests/mission of NC WRRI. Who wants the results of your project?
4. **References Cited** (no page limit)
Use a standard bibliographic format to list the references cited in your pre-proposal. This section does not count towards the page limit of the body of your proposal.
5. **Curricula Vitae** (limited to 2 pages per CV)
CVs are required for lead faculty PI and co-PIs. CVs must be in standard National Science Foundation (NSF) format (see the section on “biographical sketches” at http://www.nsf.gov/pubs/policydocs/pappguide/nsf11001/gpg_index.jsp).
6. **Letters of Support – Optional** (no page limit)
Letters of support, particularly those that speak to the applicability of the proposed project results, are strongly encouraged. Letters may be submitted from partnering organizations, agencies or potential users of the information the proposed project intends to produce. This section does not count towards the page limit of the body of your proposal.

† WRRI encourages PIs to consider approaches to information and technology transfer and dissemination of research results for all projects. While not a required component of the pre-proposal stage, successful applicants will be asked to address this in a full proposal.

‡ While the reviews of pre-proposals are based on the entire submission, the reviews will prioritize the significance of the project to NC water resources. Submissions will be ranked based on received reviews. Pre-proposal reviewers will primarily be from the WRRI advisory committee, which includes scientists, engineers, and policy professionals working on water resource issues in N.C., mainly in government agencies, water utilities, non-governmental organizations, and other non-academic settings. As a group, they will have a wide range of backgrounds in physical, chemical, biological, and policy aspects of water resources. Additional reviewers from outside of the WRRI advisory committee will be solicited as needed.

VIII. FULL PROPOSAL FORMAT FOR STUDENT SUBMISSIONS

In fairness to all applicants, if we receive a proposal that does not adhere to the following formatting guidelines, we will unfortunately have to disqualify your proposal from the competition. Please double-check the formatting of your proposal carefully before submitting.

Student-proposals must adhere to the following format:

- 1-inch margins all around
- Times New Roman 12-point font

- Strict page limits as listed below
- Page numbers, starting with the cover page as page 1

Proposals must contain all of, and only, the following elements:

1. Signed cover page
2. Project proposal
3. References cited
4. Budget
5. CVs
6. Letter of support from sponsoring faculty member
7. Other letters of support (optional, if appropriate)

Please note specific instructions on the online proposal management system for how to submit these required elements. See section IX of this RFP regarding the online proposal management system.

1. **Signed Cover Page** (limited to 1 page)

Cover pages must be full executed. Proposals from outside NC State University must bear an authorized university signature from an Office of Sponsored Programs or similar. Proposals from within NC State University must include the proposal's PINS number rather than signatures on the title page. Please consult with your sponsoring faculty member and/or your office of sponsored research if you have questions about this. Cover pages must also include the following elements:

- Proposal title
- Proposed start and end date (projects can start between March 1 and June 1, 2021 and should end by 2/28/2022)
- Budget request (total amount only, no breakdown, keeping in mind the \$10K/yr. limit)
- Name, academic rank or title, university and department/school, mailing address, phone number, and e-mail address for the faculty sponsor (PI)
- Name, degree being pursued, university and department/school, mailing address, phone number, and e-mail address for the student researcher
- Name, academic rank or title, university and department/school, and e-mail address for other co-investigator(s), or relevant information for non-academic co-investigator(s)
- One to five keywords for the proposed project
- Statement that "The proposed project would OR would not [pick one] involve funds going to a USGS collaborator." (This is for WRRRI administrative purposes only and is not a factor in identifying the successful proposals.)

2. **Project Proposal** (limited to 4 pages)

The body of the proposal should have the following sections:

Description Describe your project and the RFP focus area(s) it addresses. State specifically what you plan to accomplish in the proposed project (in terms of goals, objectives, hypotheses to test, or research questions to answer); and/or needs to be met through communication and information transfer.

Methods, Tasks & Timeline Describe your technical approaches, engagement/partnership approaches, and/or communication approaches; clearly define your tasks; provide a timeline to complete the tasks; list project milestones. Be specific and provide detail for reviewers to assess the feasibility and appropriateness of your approaches.

Significance to North Carolina and Funding Program Describe the significance and relevance of the project to NC, our state's real-world water issues, and the interests/mission of NC WRRRI. What important issue(s) does it address? How do you intend to ensure transferability or application of research results? Describe your outreach/information dissemination plan.

3. **Budget** (limited to 2 pages)

Provide a detailed budget for your project, and an explanation/justification of expenses. Funds may be used for any purpose related to the project except for: university overhead charges (which are not permitted per the language in the WRRRA) and faculty and post-doc salary. Examples of allowable expenses include, but are not limited to, student salaries and wages; tuition and stipends; fringe benefits; supplies; travel; contracted services; communications and publications; and other project-relevant charges. Matching funds are not required for this RFP, but if any matching funds, in-kind contributions or leveraged resources exist, please include them in your budget description. This section does not count towards the page limit of the body of your proposal.

4. **References Cited** (no page limit)

Use a standard bibliographic format to list the references cited in your proposal as appropriate. This section does not count towards the page limit of the body of your proposal.

5. **Letters of Support from Sponsoring Faculty Member** (no page limit)

Students must include a letter of support from the main faculty PI serving as the official applicant. This section does not count towards the page limit of the body of your proposal.

6. **Other Letters of Support - Optional** (no page limit)

Other letters of support, particularly those that speak to the applicability of the proposed project results, are strongly encouraged. Letters may be included from partnering organizations, agencies, or other faculty or advisors. This section does not count towards the page limit of the body of your proposal.

7. **Curricula Vitae** (limited to 2 pages per CV)

CVs are required for the student and faculty PI (and Co-PIs). Faculty CVs must be in standard NSF format (see the section on "biographical sketches" at http://www.nsf.gov/pubs/policydocs/pappguide/nsf11001/gpg_index.jsp). Student CVs may be in the NSF format or other appropriate format if sections of the NSF format do not apply to them. Student CVs are still limited to 2 pages regardless of which format is used.

IX. SUBMISSION PROCESS AND DUE DATE

- The deadline for faculty pre-proposal submissions is 5:00 pm, Tuesday, May 26, 5:00 p.m.
- The deadline for student full proposal submissions is 5:00pm, Monday, July 13, 2020.

- All submissions must be submitted via WRRRI’s online proposal management system. This system can be accessed at go.ncsu.edu/ncewrri. The portal will automatically close at the noted deadline. Late submissions will not be accepted for any reason.
- **Please do not wait to the last minute to begin your submission process.**
- Please note proposal formatting requirements, submission elements and page limits above, and follow instructions on the online proposal management system for the submission of individual and compiled elements of your proposal.
- You will receive an email confirmation of receipt of your proposal. If you do not receive a confirmation email, please check your spam filters. If you still have not received a confirmation, please email nicole_mcintosh@ncsu.edu or jmfear@ncsu.edu and we will confirm for you.
- Submissions for faculty pre-proposals are submitted directly by PIs and need not come to WRRRI with formal approval from a campus sponsored research office (such approval is only needed for the invited full proposals).
- Submissions for student proposals must have formal approval from a campus sponsored research office as noted by a signed cover page.

XI. RFP TIMELINE

April 22, 2020	RFP issued
May 26, 2020	Faculty pre-proposals due
July 9, 2020	Faculty notified of pre-proposal outcome
July 13, 2020	Student full proposals due
August 17, 2020	Invited faculty full proposals due
September 25, 2020	Students notified of full proposal outcome
Fall, 2020 (date TBD)	Technical committee meets for proposal and peer review evaluation
December 20, 2020	Faculty notified of full proposal outcome
January, 2021	Submission of finalist packages to USGS for ratification, pending appropriation of federal funds
March 1, 2021	First eligible spending by approved projects, pending appropriation of federal funds

XI. PROPOSAL CONSULTATION

WRRRI welcomes PIs to contact us if they would like to discuss a research concept or have questions about topic eligibility. WRRRI also offers the opportunity for investigators to speak about how stakeholder engagement, project needs and project application to end users can be achieved through engagement of WRRRI extension. Students who may need assistance with identifying a faculty sponsor are also encouraged to contact WRRRI.

Please note that due to a decrease in on-campus operations as related to the coronavirus, all WRRRI team members are working remotely. Phone calls to main office numbers are not likely to be received and returned in a timely fashion, so email is the preferred method of contact until further notice. Due to varied availability of our team and to ensure a timely response to your

questions, it is recommended that you copy additional WRRRI points of contact on your email in addition to the main person you are trying to reach.

Investigators can reach out to the following:

- John Fear, Deputy Director, jmfear@ncsu.edu
- Frank Lopez, Extension Director, fmlopez@ncsu.edu
- Nicole Wilkinson McIntosh, Coordinator for Research and Outreach, nicole_mcintosh@ncsu.edu