

National Estuarine Research Reserve System Science Collaborative

2020 Request for Collaborative Research Pre-Proposals

~ *Collaborative Research Grants: Generating New Science to Inform Decisions* ~

RFP Release: October 11, 2019

Pre-Proposals Due: December 11, 2019

About the NERRS Science Collaborative

The National Estuarine Research Reserve System (NERRS) Science Collaborative's primary goal is to support the co-development and application of relevant and usable knowledge to address critical coastal management issues identified by the NERRS in order to improve the long-term stewardship of the nation's estuaries. The Science Collaborative works to achieve this goal through regular funding opportunities, project support and management, and an adaptive approach to program implementation that fosters ongoing learning and improvement.

Consistent with the NERRS strategic plan, NOAA has identified the following focus areas for Science Collaborative funding opportunities in 2019 - 2023:

- Research and monitoring related to biophysical, social, economic and behavioral impacts of habitat change resulting from **climate change** and/or **coastal development**.
- Understanding how an **ecosystem service approach** can be utilized to support the protection and restoration of estuarine systems.
- Understanding the impacts of **land use change, eutrophication, and contamination** in estuarine ecosystems and the options for management and mitigation.
- Investigating options for improving estuarine **habitat resilience**; processes for identifying, prioritizing, and restoring sites; and monitoring and evaluating success.
- **Syntheses of long-term monitoring data** and information, originating from programs such as the NERRS System-wide Monitoring Program and associated monitoring efforts, to develop regional and national data products that address coastal management priorities for the NERRS and NOAA.

The Science Collaborative is managed through a cooperative agreement between the University of Michigan and the National Oceanic and Atmospheric Administration (NOAA).

Contents

Overview	3
Funding Amount	3
Eligibility for Funding	3
Proposal Submission Process	3
Key Dates.....	4
Supporting Documents.....	4
Outputs.....	5
Outcomes.....	5
Required Elements.....	6
1) Collaboration and End User Integration	6
2) Reserve Engagement	7
3) Data Management	7
Pre-Proposal Requirements.....	9
Title Page	9
Project Narrative.....	10
Appendices	12
How to Submit Your Pre-Proposal	12
Pre-Proposal Evaluation Criteria.....	13
Review and Selection Process.....	14
Review Process	14
Selection Process	15
Environmental Compliance Review.....	16
Guidance to Applicants.....	16
Proprietary Information & Intellectual Property.....	16
Questions Regarding this Request for Proposals	17

Overview

The National Estuarine Research Reserve System (NERRS) Science Collaborative is soliciting pre-proposals for up to three-year collaborative research grants. Collaborative research projects conduct new applied science using an end user¹ driven, collaborative process that results in research, data, tools, or other products that will inform decision making related to a [reserve management need](#).² Applicants may draw on both the social sciences and physical/natural sciences to meet the goals of this request for proposals (RFP).

Funding Amount

Proposals may request up to \$200,000 per year, for up to three years. The total budget may not exceed \$600,000 for a three-year project.

Eligibility for Funding

Proposals must address one or more reserve management need(s), as identified by the reserve(s) with which they wish to work, and have the full support of the relevant reserve manager(s), as demonstrated by a written assessment from the reserve manager(s).

This funding opportunity is open to applicants from United States (U.S.) academic, non-government organizations, and non-federal public sectors working in partnership with NERRS staff.

Each proposal must designate a fiduciary institution and a fiscal lead³ that will receive and manage the award, if granted. Researchers from institutions outside the U.S. cannot serve as the fiscal lead, but can be included in the project and may be funded by sub-awards through an eligible U.S. entity. Federal employees and agencies are not eligible to receive funding from the Science Collaborative, but may participate as unfunded project team members.

Proposal Submission Process

Potential applicants should review the application process as outlined in this RFP and follow directions to submit a pre-proposal using the timeline outlined below. The pre-proposal is **mandatory** and will be used to determine which applicants are invited to

¹ End user is defined as a person or group in a position to apply the information or tools being produced, evaluated, or transferred through a Science Collaborative project in a way that is of direct consequence to the ecological, social, or economic integrity of a reserve(s) and/or surrounding watershed(s). Examples of end users include, but are not limited to, reserve staff, and public, private, or non-governmental decision/policy makers, including landowners, resource managers, land use planners, and educators at all levels.

² This document is a compilation of the current management needs within NOAA's reserve system. Management needs are submitted by reserve managers to NOAA and are updated on an annual basis.

³ In most cases, the project lead is also the fiscal lead. In cases where the project lead is not employed by the institution that will receive and manage the grant, a project team member from the fiduciary institution may serve as fiscal lead and will have ultimate responsibility for ensuring that the proposed scope of work is completed.

submit full proposals. Pre-proposals include a five-page maximum narrative that describes the problem being addressed, end user needs, outputs and outcomes, general approach, team members, budget estimate (number only), and appendices. All applicants will receive feedback on their pre-proposals along with the notification as to whether they are invited to submit a full proposal.

Key Dates

Date	Activity
October 29, 2019 at 3:30pm EDT	Webinar: RFP Question & Answer
December 11, 2019 by 11:59pm EST	Pre-proposals due
December 18, 2019	Manager pre-proposal assessments due
February 19, 2020	Invitations to full proposal
April 6, 2020 by 11:59pm EST	Proposals due
April 13, 2020	Manager proposal assessments due
June 2020	Funding notifications
October 1, 2020	Anticipated project start date

Supporting Documents

All RFP supporting documents can be found at
<http://nerssciencecollaborative.org/research>

About Collaborative Research Projects

Collaborative research projects conduct new applied science through an end user driven, collaborative process that results in research, data, tools, or other products that will inform decision making related to a [reserve management need](#). Collaborative research projects can use social and/or natural science research approaches and must have a well-defined research question that the project is designed to answer.

Outputs

Project outputs are specific products that are developed during or upon project completion. Outputs must address end user and reserve management needs. Examples of project outputs include, but are not limited to the following:

- Specific, scientifically produced datasets and analyses;
- A synthesis of findings;
- Specific product(s) that translate and/or apply the research findings in a way that addresses the identified end user's needs, e.g., decision support tools, implementation guides, management recommendations, training curricula, and technical or non-technical reports; and/or
- Evaluation of existing decision making information needs.

At least one output must include an activity that shares the project approach and results with the broader NERRS community, such as a poster or session at a conference, like the NERRS/NERRA Annual Meeting, a system-wide webinar, or a NERRS sector meeting.

Outcomes

Project outcomes are the expected impacts of the project process and outputs. Examples of project outcomes include, but are not limited to the following:

- New or refined decision making and/or management processes and a plan for future iterative evaluations of these processes;
- Stronger collaborative relationship among reserve staff, partners, and end users; and/or
- Better understanding among researchers and end users of how their respective fields can inform each other's efforts.

Required Elements

In order for proposals to achieve the purpose of this RFP, they must include three elements, all of which are critical to collaborative science with the NERR System. All proposals must:

- 1) Clearly identify, engage, and be responsive to the interests and needs of end users;
- 2) Directly involve at least one reserve, address one or more [reserve management need\(s\)](#) for the reserves with which the team wishes to work, and have the full support of the relevant reserve manager(s); and
- 3) Plan for the costs associated with implementing a [Data Sharing Plan](#).

1) Collaboration and End User Integration

Proposals must clearly identify, engage, and be responsive to the interests and needs of end users—the intended users of the project outputs. A collaborative process that engages end users in project development and implementation is important to producing usable outputs. The goals and type of work proposed should dictate the approach to engagement as well as the breadth and depth of engagement planned during the project.

To this end, all proposals must:

- Identify the primary end user(s) and their needs;
- Describe how the end user’s input helped to shape the project;
- Describe a clear process that will accommodate iterative engagement with the end user(s), including mechanisms for being adaptive and responsive to their input;
- Identify an individual who will be responsible for leading the collaborative process—the collaborative lead⁴—and describe their relevant experience and skills; and
- Plan for the time and costs associated with supporting a collaborative, end user engagement process throughout the project. (Note: Teams invited to submit full proposals will need to demonstrate that sufficient time and resources are dedicated to support a collaborative, end user engagement process throughout their projects. Pre-proposal total budget requests should take into account resources needed for these efforts.)

The Science Collaborative has [resources online](#) that can help you design your end user engagement process, including key considerations for engaging end users effectively and efficiently.

⁴ The collaborative lead is responsible for the full engagement of end users by helping to develop and manage a process that ensures meaningful user input, including mechanisms for being adaptive and responsive to their input. This person should have the appropriate experience and skills to design and implement a collaborative process that provides the team with the end user input necessary to produce outputs that are responsive to their needs.

2) Reserve Engagement

All proposals must address one or more [reserve management needs](#), demonstrate a plan for productive collaboration with relevant reserve staff⁵, and have the full support of the relevant reserve manager(s).

Relevant reserve managers and staff must be consulted and engaged in the development of the pre-proposal. ***It is the responsibility of the applicant to ensure that the reserve manager and other appropriate staff are engaged sufficiently in project development.***

The pre-proposal title page must identify a lead reserve as well as any additional reserves that will be participating in the proposed work. For each pre-proposal that engages their reserve, managers will submit a written assessment of how well the proposal meets the following criteria:

- 1) The proposal addresses a reserve management need for your reserve.
- 2) The proposing team engaged reserve staff sufficiently during the proposal development process.
- 3) You agree with the proposed allocation of resources to the reserve, and/or proposed allocation of reserve staff time or other resources if not covered in the budget.

These assessments will be submitted by reserve managers directly to the Science Collaborative, separate from the pre-proposal. ***Applicants must provide a copy of their final pre-proposal to the manager of every reserve named on the project.*** Relevant managers are those whose reserves will be directly engaged in project implementation and, as a result, should be able to answer each of the three criteria above definitively. If a reserve is not directly engaged in the proposed work, that reserve should not be listed as a partner on the project title page and the manager will not be expected to submit a proposal assessment.

3) Data Management

NOAA requires that environmental and social science data collected and/or created under NOAA grants and cooperative agreements be made visible, accessible, and independently understandable to general users. It should be available free of charge or at minimal cost, and made available in a timely manner (typically no later than two (2) years after the data are collected or created), except where limited by law, regulation, policy, or security requirements.

⁵ Reserve staff have played a variety of roles in Science Collaborative projects, including serving as project, technical, or collaborative lead, providing critical contributions to the technical work, and participating as an end user representative and project advisor. Roles should match the expertise and interests of the individuals involved and the scope of a particular project and be clearly explained in the proposal.

If invited to submit a full proposal, applicants that propose the collection of new data will be required to develop and include a Data Sharing Plan as a part of their full proposal package. This plan must address elements such as methods and protocols for data collection, data quality control/quality assurance procedures, metadata, data access, and data archival. A valid Data Sharing Plan may include only the statement that no detailed plan is needed, as long as the statement is accompanied by a clear justification, e.g., no new data are being collected.

At the pre-proposal stage, applicants must account for the costs associated with implementing a Data Sharing Plan in their budget estimate. Additional guidance and details for support in developing a Data Sharing Plan will be provided to those teams invited to submit full proposals.

Pre-Proposal Requirements

Pre-proposals must be submitted by 11:59pm EST on Wednesday, December 11, 2019.

Pre-proposals must be provided as a single pdf file using 12-point Times New Roman font, no less than single spaced, with one-inch margins, and be organized using the headers below. Pre-proposals must include a title page, 5-page maximum narrative, and appendices as outlined below. **Pre-proposals not meeting these requirements, including budget and header requirements, will be removed from the competition without further review.**

Title Page (up to 2 pages):

Organize your narrative using the following headers:

- 1) Project Title
- 2) Project Lead / Fiscal Lead⁶ (primary contact for the project) –
 - a) Title / Position
 - b) Institution
 - c) Telephone Number
 - d) Postal Mailing Address
 - e) E-mail Address
- 3) Additional Team Members (anyone receiving project resources or contributing significant resources to the project) – Name, institution, telephone, e-mail, and role, e.g., project lead, collaboration lead, technical lead, end user, team member, etc.
Note: Project, collaborative, and technical leads are required. One person can serve multiple roles. See [team section](#) for definitions of these roles.
- 4) Fiduciary Information – Indicate the institution that would receive and manage the grant contract. Please provide a point of contact, including email address, to receive fiscal questions. The fiduciary institution is responsible for managing any project subcontracts, tracking grant-related spending, and submitting invoices to the University of Michigan for reimbursement on behalf of the grant.
- 5) Name of Reserve(s) – Identify a lead reserve for the project. If relevant, identify any additional reserves that are directly engaged in the project. See the [reserve engagement section](#) for a detailed definition of “directly engaged reserve.” Multiple

⁶ In most cases, the project lead is also the fiscal lead. In rare cases where the project lead is not employed by the institution that will receive and manage the grant, a project team member from the fiduciary institution may serve as fiscal lead and will have ultimate responsibility for ensuring that the proposed scope of work is completed.

reserves may collaborate on a proposal but a *single, lead* reserve must be identified here. Managers of each listed reserve will submit an assessment of the pre-proposal.

- a) Lead reserve:
 - b) Any additional reserves:
- 6) Budget Request – Requested dollar amount. Proposals may request up to \$200,000 per year, for up to three years. The total budget may not exceed \$600,000 for a three-year project. Note: If invited to submit a full proposal, a detailed budget and budget narrative will be required; the total request in the detailed full proposal budget may not exceed the pre-proposal budget estimate.
 - 7) Project Duration – Projects should start October 1, 2020 and end no later than September 30, 2023.
 - 8) Project Summary – Provide a 200-word summary of the proposed project that is suitable for a non-technical audience. Please include the project’s objectives, responsiveness to end user needs, planned outputs, and anticipated outcomes.

Project Narrative (5-page maximum):

Organize your narrative using the following headers:

- 1) Problem Statement and Response to End User Needs – Describe the issue(s) the project will address, discussing the importance and context, with particular emphasis on how the project will address one or more [reserve management needs](#). Clearly identify the project’s primary end user(s)⁷ and their needs. Describe how the end user’s input helped to shape the project and how the research is designed to meet their needs.
- 2) Outputs and Outcomes – Clearly distinguishing between the two, provide a list of the planned outputs and anticipated outcomes. Describe these briefly, clearly stating how the outputs meet the end user and reserve management needs discussed in the “problem statement” and how the outputs will help lead to the anticipated outcomes.
 - a) *Output* – A specific product that is developed during or upon project completion; there may be several outputs associated with a project. See [example outputs](#) provided above. Outputs must address end user and reserve management needs and include an activity that shares the project approach and results with the broader NERRS community.
 - b) *Outcome* – An expected impact of the project process and outputs; there may be several outcomes associated with a project. See [example outcomes](#) provided above.

⁷ Primary end users are those most instrumental in developing the project, most directly engaged in the project, and who stand to benefit the most from the outputs.

- 3) Project Approach – Clearly identify the core research question(s). Generally describe the technical approach. Describe the collaborative process that will be followed to ensure iterative engagement with end users, including specific mechanisms for being adaptive and responsive to their input and an explanation for why the chosen approach is appropriate, e.g., tightly linking to an existing working group, creating a new advisory group, or integrating individuals into a project team. Make clear how the approach will address the research question and lead to the planned outputs.
- 4) Team – Identify each team member and explain how the team and its expertise are well qualified to implement the project, including the collaborative approach. Describe the role(s) of the various team members, e.g., project lead, collaboration lead, technical lead, end user, team member, etc. Two-page resumes for all team members must be included in Appendix A.

Note: Project lead, fiscal lead, collaborative lead, and technical lead must be specified. One person can serve multiple roles. Team member roles are defined as follows:

- The project lead is the primary contact for the project, coordinates the project team, and ensures all elements of the project are implemented. In most situations, the project lead is also the fiscal lead.
 - The fiscal lead manages the grant award and will have ultimate responsibility for ensuring that the proposed scope of work is completed. The fiscal lead must be employed at the fiduciary institution that will receive the grant contract. In rare cases where the project lead is not employed by the fiduciary institution, a project team member from the fiduciary institution may serve as fiscal lead.
 - The technical lead serves as a content area expert within the team, coordinates technical aspects of the project, and ensures the quality of the science.
 - The collaborative lead is responsible for the full engagement of end users by helping to develop and manage a process that ensures iteration with them, including mechanisms for being adaptive and responsive to their input.
- 5) Budget Estimate – Provide an estimated total budget request for the project. Proposals may request up to \$200,000 per year, for up to three years. The total budget may not exceed \$600,000 for a three-year project. **Please provide the total budget figure only in the pre-proposal.** When developing the budget estimate, be sure to take into consideration all potential project costs, such as data management⁸, personnel, fringe benefits, equipment, supplies, travel, convening and

⁸ For budget allocation guidance, it is anticipated that at least 10% to 15% of the overall budget should go to support data management activities.

engaging with team members and end users, contractual costs, and indirect costs. If invited to submit a full proposal, a detailed budget and budget narrative will be required. **The total request in the full proposal detailed budget may not exceed the budget estimate in the pre-proposal. Proposals with budgets that exceed \$600,000 will be disqualified from the competition.**

Appendices:

- A. Resumes – Two-page resumes for each team member are required. Resumes will be used by reviewers to determine whether the team has the requisite technical and collaborative skills and experience to undertake the project successfully.
- B. Reviewers – Identify 3-4 qualified technical reviewers who could review your project if invited to submit a full proposal. You may also list up to four persons you would prefer not review your project if invited to submit a full proposal and indicate why. Whether or not these suggestions will be used is at the discretion of the Science Collaborative.
- C. References – Up to 2 pages of references may be included.

How to Submit Your Pre-Proposal

Pre-proposals must be submitted by 11:59pm EST on Wednesday, December 11, 2019.

Access the application page by clicking the “Begin your application” button at <http://nerrsciencecollaborative.org/research>. Once you have logged in⁹, you will need to complete an online application form, upload your pre-proposal, and “save” your application. The application form mirrors some of the same content in the pre-proposal.

You will receive a confirmation email when you have successfully saved your pre-proposal. The email will include a link you may use to return to your pre-proposal submission and make edits until the deadline. Your saved application will be automatically submitted at 11:59pm EST on December 11, 2019.

If you do not receive a confirmation email, your pre-proposal was not saved properly and you should resave or contact us directly at nerrs-info@umich.edu.

⁹ You will need a U-M Account or Friend Account to start an application and submit your pre-proposal. You will be prompted to login or create an account when you access the application page.

Pre-Proposal Evaluation Criteria

Pre-proposals must comply with all submission instructions and guidelines to be considered for funding. Pre-proposals not meeting these requirements will be removed from the competition without further review.

Each compliant pre-proposal will be evaluated based on the equally weighted criteria listed below. Pre-proposal review will also be informed by reserve manager assessments to determine the extent to which projects were developed collaboratively and address their management needs.

- 1) Management Need: The pre-proposal clearly articulates and addresses at least one [reserve management need](#) as confirmed by the relevant reserve manager(s).
- 2) Responsiveness to End User(s): The pre-proposal identifies the end users, their needs, and articulates how planned outputs will meet those needs. The pre-proposal clearly describes how end users have shaped the project to date.
- 3) Approach: The approach addresses a well-defined research question, includes a collaborative process that meaningfully integrates the end users, and is likely to produce the planned outputs.
- 4) Team: The team has the appropriate expertise, experience, and well-defined roles needed to implement end user engagement and the proposed technical methods.
- 5) Potential Impact: The proposed process and outputs are feasible and likely to lead to the identified outcomes.

Review and Selection Process

Review Process

The review process for collaborative research projects is as follows. A more detailed summary of the review process, including decision points, inputs to each decision, and a summary of the process participants can be found [here](#).

- 1) **Pre-proposal** – Submitting a pre-proposal by the December 11, 2019 deadline is the first required step of the application process. Pre-proposals not meeting this requirement will be removed from the competition without further review.
- 2) **Minimum requirements assessment** – Science Collaborative staff will review all submitted pre-proposals to ensure that they meet the requirements as described in this RFP, including all pre-proposal elements, the budget request, and adherence to header requirements. Pre-proposals not meeting these requirements will be removed from the competition without further review.
- 3) **Pre-proposal review** – Pre-proposals that meet the minimum requirements will be reviewed by a panel with diverse disciplinary expertise, practical experience with collaborative science, and broad geographic representation. This panel is responsible for reviewing the pre-proposals and then reconvenes at the final review stage (step 9 below) to provide its final recommendations about invited full proposals. The panel’s review at the pre-proposal phase consists of the following two steps:
 - a) *Written review* – Each pre-proposal will be matched to non-conflicted panel members who will conduct written reviews. In the written review, reviewers will be asked to rate and provide comments according to the [pre-proposal evaluation criteria](#).
 - b) *Panel meeting* – Panelists will convene for an in-person meeting to discuss the outcomes of the written reviews and the reserve manager assessments. Panelists will discuss strengths and weaknesses and any discrepancies among the written reviews and identify top pre-proposals to advance in the competition. Applicants will receive written reviews and a summary of the panel’s discussion of their pre-proposal.
- 4) **Full proposal (by invitation)** – Panel recommendations will serve as input to the selection process as outlined in the following section and a subset of pre-proposals will be invited to submit full proposals.
- 5) **Full proposal written technical review** – Collaboration and subject matter experts not sitting on the panel will conduct written technical reviews of full proposals. The technical review will consist of written evaluation by experts from the specific content area of the proposed work and collaboration practitioners with experience working on natural resource issues. Reviewers will be asked to rate each proposal according to the evaluation criteria provided in the full proposal requirements.

- 6) **Applicant response to reviews (optional)** – Applicants will receive their written technical reviews and be given the option to provide a response (one page maximum).
- 7) **Panel consultation** – The panel convened at the pre-proposal stage will be consulted to consider the written technical reviews and applicant responses to reviews and determine which proposals to invite to the full proposal panel meeting.
- 8) **Invitations to full proposal panel meeting** – Invitations to the full proposal panel meeting will be based on the outcomes of the written technical reviews, applicant responses to reviews, reserve manager assessments, and consultation with the panel.
- 9) **Full proposal panel meeting** – The panel will be convened in-person for a final discussion of top proposals and an opportunity to talk remotely with invited teams. The panel will consist of pre-proposal panelists plus non-conflicted NERRS representative(s). One representative end user and the project leads **MUST** be available to answer questions from the panel, including questions regarding the collaborative process and application of the proposed work. For each proposal, panelists will discuss strengths and weaknesses and any discrepancies among the written reviews. Panelists will identify projects that are supportable in rank order as input to the final selection process as outlined in the following section. Applicants will receive a summary of the panel’s discussion of their proposal.

Selection Process

Invitations to submit a full proposal and final funding recommendations will be based on the panel recommendations of supportable projects in rank order. In consultation with the NOAA Program Manager, the NERRS Science Collaborative shall invite pre-proposals and award projects based on available funds in rank order unless a proposal is justified to be selected out of rank order based upon one or more of the following factors:

- 1) Availability of funding;
- 2) Balance/distribution of funds geographically by NERRS regions; and
- 3) No reserve will serve as the lead reserve on more than one collaborative research project.

Funding notifications are expected in June 2020.

Environmental Compliance Review

Applicants should be aware of the following environmental compliance requirements:

NOAA requires that, prior to award, every Science Collaborative project recommended for funding undergo review for potential impacts to the environment and/or cultural resources. This initial review process by NOAA takes a minimum of 30 days.

Projects that are identified by NOAA as potentially impacting the environment and/or cultural resources, e.g., involve field work, and/or are conducted in areas where historic or archeological artifacts might be present, will require further review by the agency. NOAA will be reviewing for compliance with the National Historic Preservation Act (NHPA), the Endangered Species Act (ESA), the Marine Mammal Protection Act (MMPA), and the Magnuson-Stevens Fishery Conservation and Management Act related to essential fish habitat (EFH). If the proposed project is placing fixed structures in the environment, consultation with the U.S. Army Corps of Engineers may also be required. NHPA, ESA, MMPA, and EFH reviews take a minimum of 30 days to complete, but can often take 60 to 90 days.

Guidance to Applicants

If you are invited to submit a full proposal, you will be asked by NOAA to provide a detailed description of all field sampling methods, along with a map showing the location of each field site and a table of the latitude and longitude coordinates of each sampling location in your proposal; you do NOT need to include these items in your pre-proposal.

Questions regarding this requirement should be directed to Dwight Trueblood (603-862-3580, Dwight.Trueblood@noaa.gov).

Proprietary Information & Intellectual Property

Applicants should be aware that the disclosure of patentable ideas, trade secrets, and privileged, confidential, commercial, or financial information can hinder an applicant's chances to secure patents, trademarks, or copyrights.

Proprietary information of this kind should only be included in proposals when it is necessary to convey an understanding of the proposed project. Applicants must mark proprietary information clearly in the proposal with appropriate labels, such as, "The following is (proprietary or confidential) information that (proposing entity) requests not be released to persons outside the NERRS Science Collaborative, except for purposes of review and evaluation."

Please protect your intellectual property rights at the proposal preparation stage as appropriate. This will allow you to speak freely about ideas and avoid the inadvertent loss of intellectual property rights. You should contact your institution's technology transfer or intellectual property office to determine the best way to protect your intellectual property.

Questions Regarding this Request for Proposals

Question and Answer Record: Responses to all questions, without reference to project specifics, will be posted on a rolling basis for all interested applicants to view online at <http://nerrsciencecollaborative.org/research>.

Q&A Webinar: The Science Collaborative will host a question and answer webinar on **October 29 at 3:30pm EDT**.

To register, go to <https://attendee.gotowebinar.com/register/6029783741411258627>.

After the webinar, questions and responses will be incorporated into the online Q&A Record and webinar slides and the recording will be posted online at <http://nerrsciencecollaborative.org/research>.

Email: The Science Collaborative will accept and reply to written questions regarding this request for proposals through December 10, 2019. Questions should be submitted to nerrs-info@umich.edu.

Phone: The Science Collaborative will also accept questions via phone regarding this request for proposals. Questions should be directed to Maeghan Brass (734-763-0727) or Lynn Vaccaro (734-763-0056).

Website: More information about the NERRS Science Collaborative can be found at <http://nerrsciencecollaborative.org/>.