



Research for Novel Approaches in Sustainable Agriculture Grant Program

2022 Call for Full Proposals

Important Dates

The online system opens for submissions:

September 7, 2021

Proposals, with authorized signatures, are due:

October 26, 2021, 5:00 p.m. ET

Proposals are submitted online at: projects.sare.org

Questions?

Visit our website at: www.northeastsare.org/NovelApproaches. For questions about this Call for Proposals, please contact Kali McPeters at kali.mcpeters@uvm.edu or 802-651-8335 x 555.

About Northeast SARE

The Northeast Sustainable Agriculture Research and Education (SARE) Program offers competitive grants to farmers, educators, agricultural service providers, researchers, nonprofit staff, graduate students and others to address key issues affecting the sustainability of agriculture throughout our region. Northeast SARE is one of four regional SARE programs funded by the USDA National Institute of Food and Agriculture.

The program—including funding decisions—is driven by the Northeast SARE **outcome statement**:

Agriculture in the Northeast will be diversified and profitable, providing healthful products to customers. Farmers and the people they work with will steward resources to ensure sustainability and resilience, and foster conditions where farmers can have high quality of life and communities can thrive.



The Northeast region includes Connecticut, Delaware, Maine, Massachusetts, Maryland, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, West Virginia, Vermont, and Washington, D.C.

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Northeast SARE, one of four regional SARE programs, is hosted by the University of Vermont and is funded by the USDA National Institute of Food and Agriculture. USDA is an equal opportunity provider and employer. Northeast SARE programs are offered to all without regard to race, color, national origin, gender, religion, age, disability, political beliefs, sexual orientation, and marital or familial status.

About Northeast SARE Research for Novel Approaches Grants

Overview

The Research for Novel Approaches in Sustainable Agriculture Grant Program funds “proof of concept” applied research projects intended to confirm the benefits and/or feasibility of new practices and approaches that have high potential for adoption by farmers in the near future. These practices and approaches may be related to production, marketing, business management, human resource management and other social issues, or other topics related to sustainable agriculture. By “proof of concept,” we mean that evidence from prior experiments or pilot projects strongly suggests a practice or approach is beneficial and feasible, but additional testing, data and refinement is needed before recommending farmer adoption.

New for this Call

There has been a change in USDA NIFA’s determination of indirect costs. Applicants should now calculate indirect as 10% of direct costs (versus 10% of the total budget). More information on indirect and other budget considerations is available in the [Appendix](#).

Research may be conducted through field trials, laboratory experiments and social science investigations. Exploratory research with little likelihood of determining feasibility for farmer adoption in the near-term will not be funded. There must be documented interest among farmers and service providers in utilizing or promoting the novel approach, should it be proven beneficial and feasible.

Eligible Applicants

Research for Novel Approaches grants are open to anyone who works with farmers, including personnel at nonprofit organizations, colleges and universities, Cooperative Extension, municipalities, tribal governments, state departments of agriculture, federal agencies, research farms and experiment stations, for-profit business entities (such as private consultants, farmers¹ and veterinary practices), etc.

Northeast SARE encourages projects submitted from or in collaboration with women, the LGBTQ+ community, and Black, Indigenous and People of Color (BIPOC). Additionally, we encourage projects submitted from or in collaboration with Minority Serving Institutions (including 1890s and other historically Black colleges and universities, Hispanic-Serving Institutions, and tribal colleges and universities) and other organizations in the Northeast that work with historically underrepresented communities.

Your organization must have the legal structure and financial capacity in place to receive and execute a Northeast SARE contract, including expending funds needed for the project prior to receiving reimbursements from Northeast SARE; advance payments are not possible.

Projects must take place within the Northeast region, described on page 1. Applicants and host organizations may be located outside of the Northeast region if the project activities and the audience served are located within the Northeast region.

Current SARE grant recipients who are behind in their reporting will not be awarded a new project.

Northeast SARE will not fund proposals that appear to duplicate work that has been approved for funding by another grant program (within or external to SARE).

¹ Northeast SARE uses the U.S. Census of Agriculture definition of a Farm: “Any place from which \$1,000 or more of agricultural products were produced and sold, or normally would have been sold, during the census year.” For more information and examples of eligible farms, please see our [Definition of a Farm](#) document at: www.northeastsare.org/farmdefinition.

Northeast SARE is committed to accessibility for all eligible applicants. We encourage you to reach out to us regarding any challenges you experience as you plan and submit your proposal. To do so or to specifically request a disability-related accommodation, please contact Northeast SARE as soon as possible at 802-651-8335 or northeastsare@uvm.edu.

Changes to an Approved Preproposal

You may submit only one full proposal per year to Northeast SARE's large grant programs, including Research and Education, Research for Novel Approaches and Professional Development, even if you had multiple preproposals invited to submit a full proposal. *Please note that you may not change the project leader/Principal Investigator (PI) of an approved preproposal to accommodate multiple full proposal submissions.*

Minor revisions to your approved preproposal are acceptable, especially if such changes were suggested by preproposal reviewers. Reviewers will not accept a full proposal that differs significantly from the preproposal unless the changes made were those specifically suggested by preproposal reviewers. Full proposal reviewers will have your preproposal, along with the suggestions and comments sent to you from the preproposal review team. Please be sure that the content of your full proposal addresses all questions and concerns that were noted.

Funding Available

Northeast SARE's Administrative Council has allocated \$1.5 million to fund projects for this cycle of Research for Novel Approaches Grants. There is no funding cap for this program, but proposals funded typically range from \$30,000 to \$200,000 depending upon the project's complexity and duration. We estimate that 8 to 12 awards will be made for the 2022 cycle.

Project Duration

Typical project length is 2 to 3 years. All projects must be completed by November 30, 2025.

Conflict of Interest

Members of the Northeast SARE Administrative Council, SARE staff, and SARE State Coordinators are not permitted to be funded or named in proposals submitted to this grant program. Members of proposal review teams are not permitted to discuss or vote on proposals that are submitted by organizations they work for, organizations for which they serve as a board member or paid consultant, former graduate student advisees or advisors, family members or close personal friends. Reviewers may not participate in review of a proposal in which their collaborators on research projects or co-authors on peer reviewed publications (including pending publications and submissions) serve as project leaders; the timeline for this prohibition is for any projects or publications within the past three years. Northeast SARE's full Conflict of Interest policy can be found at: www.northeastsare.org/COI.

Public Domain

Proposals and reviews are kept confidential, shared only among Northeast SARE staff, Administrative Council members, and grant program reviewers. However, Northeast SARE, as a USDA NIFA program, is committed to public access of results of funded projects; therefore, information on funded projects, their reports, and related information will be in the public domain.

Use of Funds

SARE funding must comply with USDA NIFA and University of Vermont (Northeast SARE's host institution) guidelines. Therefore, there are certain allowable and ineligible expenses for this grant program, listed below. All grant expenses must be incurred during the contract period, which will be defined before the project begins.

Eligible Expenses

Funds may be used for the following expenses, if they are specific to the project:

- **Labor**, including wages, stipends, salary and fringe benefits, for individuals working on the project;
- **Materials and supplies**, including research and education supplies, outreach materials, and software;
- **Travel and per diem expenses necessary for the project**;
- **Journal and other publication fees** if they are incurred during the contract period as well as copies, postage and other communications expenses;
- **Consultant services** like farmer stipends, presenter fees and other services rendered, as well as research incentives and compensation for interviewees, and subscriptions for project-specific services;
- **Meeting and training expenses**, including facility rental and participant support costs;
- **Equipment purchases and fabrication** that are necessary for, and unique to, the project (equipment with general uses, like a computer or tractor, are not eligible);
- Farm equipment and land **rental or operating charges**;
- **Subawards** for portions of the project conducted by other organizations; and
- **Indirect costs** up to 10 percent of total direct costs. Please note that for-profit businesses cannot include indirect costs in the budget (see Appendix for more information).

Ineligible Expenses

Funds may NOT be used for:

- **Capital costs** including the purchase of land, buildings, livestock, general use machinery, orchards, greenhouses, and major improvements, fixtures or expansion expenses;
- **Normal operating expenses** that would be incurred in the absence of the project such as utilities, general maintenance, or general supplies.
- **Promotional items**, including items of clothing (hats, tee shirts, aprons, etc.), swag, giveaways, subsidies, raffles and branded promotional material;
- **Travel to scholarly and other meetings** unless essential to the project, such as presentation of project results;
- **International travel** unless integral to the project's success and described in the budget justification (Note: There are certain restrictions on costs and carriers);
- **Cell phone charges**, even if you use your cell phone in the course of the project;
- **Food expenses** unless necessary for the continuity of a training event or project meeting; and
- **Expenses outside of the grant period**. SARE cannot pay for expenses incurred before the award start date or after the end date on the grant contract.

It is expected that costs for copiers, cameras, computers, video equipment, and other items that have a wide range of uses beyond the boundaries of the project be provided by the applicant and covered as indirect costs. To be considered as a direct cost, the item must be clearly essential and used 100% for the project.

Grant Timeline

Online system opens for submission	September 7, 2021
Feedback sent to preproposal applicants	early September 2021
Full proposal submission deadline	5 p.m. ET, October 26, 2021
Tier 1 Review* decisions announced to applicants	mid December 2021
Final award decisions announced to applicants	late February 2022
Contract start date for awarded projects	March 1, 2022
New grantee orientation meetings with Northeast SARE staff	March 2022

*There are two tiers of full proposal review. Applicants will be notified whether their proposal moves on from Tier 1 to Tier 2 review.

Proposal Selection Process

Proposals are evaluated by independent review teams made up of farmers, researchers, non-profit staff and agricultural service providers. Reviewers evaluate proposals on a Likert scale using the criteria that are listed beside the **Step-by-Step Instructions**. A summative score is then generated for each proposal using the weights for each individual section listed in the review criteria. Full proposals undergo two tiers of review; one for multiple teams, each reviewing a subset of all full proposals, and a second for a single panel to review all proposals moved forward from the first tier. Not all proposals moved forward from the first tier will be funded. Review team scores and comments are provided to the Northeast SARE Administrative Council, the program's governance body, that makes final decisions about funding allocations. When selecting proposals for funding, the Administrative Council may give additional consideration to audiences, topics, and geographic locations that are underrepresented in Northeast SARE's grant portfolio.

Preparing your Proposal

Please prepare your proposal well in advance of the deadline. Most sponsored programs or grant support staff need several weeks to review and approve proposals, so plan accordingly if this applies to you. We recommend that you allow for a full day to enter and submit your proposal online to the SARE Grant Management System.

The Grant Commitment Form must be signed by you and your organization's authorized official and uploaded at the time of submission. If any subawards are included in the proposal, each must also complete Grant Commitment Forms and these must also be uploaded at the time of submission. Letters from each key individual must also be uploaded. Incomplete proposals will not be reviewed.

There are word limits for most entries. We suggest you use a word processing program to develop your proposal offline, ensuring it is accurate and complies with the word limits before pasting into the online system. To that end, a Word document of the proposal questions is available at:

www.northeastsare.org/NovelApproachesPrep.

Keep your writing clear and simple. To the extent possible, avoid scientific jargon and specialized vocabulary -- write for a mixed audience that includes farmers, researchers from multiple disciplines, Extension and non-profit educators, and other agricultural service providers. You can assume that grant reviewers have solid agricultural knowledge, but not necessarily deep expertise in your subject area.

Do not include links to external sites, except as needed in the citation list, as they will not be considered by reviewers.

Full Proposal Outline / Checklist

Components of the full proposal and their word limits appear below, listed in the order they appear in the online grant management system within section headings. You may use the outline as a checklist to ensure the proposal is complete before submitting.

Items with an asterisk (*) are required documents that need to be uploaded. Proposals with missing or incomplete required documents will not advance to grant review.

- Project Title (150 character-limit)
- Project Description (300 character-limit)

General Information

- Project Start Date
- Project End Date
- Primary State
- (Optional) Geographical Scope
- Primary Commodities
- Primary Practices
- Primary Benefits and Impacts
- Was a full proposal of this work submitted previously to Northeast SARE?
- Does this project involve research with vertebrate animals?
- Does this project involve human subjects research?
- Plan for IACUC/IRB Determination (no word limit)
- (Optional) Additional Context (150-word limit)
- Response to Preproposal Comments (250-word limit)
- Abstract (450-word limit)

Project Objective

- Project Objective (100-word limit)

Statement of Need

- Problem, Novel Approach and Justification (500-word limit)
- Knowledge Gap and New Knowledge Needed (400-word limit)

Project Team

- Key Individuals (400-word limit)
- *Letters of Commitment from Key Individuals (Upload)
- Project Advisory Committee (350-word limit)

Farmer Engagement

- Interest of Farmers (300-word limit)
- Involvement of Farmers in the Project (300-word limit)
- Steps to Adoption of the Novel Approach (300-word limit)
- Outreach to Farmers (300-word limit)

Research Description

- Research Hypothesis or Question (100-word limit)
- Research Description (1,200-word limit)
- (Optional) Other relevant research information—plot plan or survey design, etc. (Upload)

Previous Work

- Literature Review (1,200-word limit)
- Citation List (no word limit)

Budget

- Organizational Affiliation of Subawardees
- *Budget Justification and Narrative Spreadsheet(s) for the host organization and each organization receiving funds as subawards (Upload)
- Total Direct Costs
- Total Indirect Costs
- Total SARE Request

Host Organization Approval

- *Grant Commitment Form(s) for PI's organization and each organization receiving funds as subawards (Upload)
- Authorized Official Contact Information
- FDP Clearinghouse Information

SARE's Grant Management System

Proposals are submitted online at: <https://projects.sare.org>.

SARE's Grant Management System supports the following web browsers: Brave, Chrome, Edge, Firefox, Opera and Safari. Please plan to use one of these browsers when entering your proposal.

The Grant Management System will be open to accept proposals from September 7, 2021 until the deadline, **5:00 p.m. ET on Tuesday, October 26, 2021**. Staff are available to answer questions until 5 p.m. ET on the due date. Proposals submitted after 5:00 p.m. ET on October 26 will not be accepted. We strongly suggest you submit your proposal well in advance of the deadline in the unlikely event you experience technical issues that take time to resolve. Please look for an application confirmation email early on October 27 – if there were any issues that need to be resolved with your application, you will be notified via email at that time.

Entering your Proposal

Go to: <https://projects.sare.org> and log in with the account you used to submit your preproposal. Click "**Manage my grant proposals.**" Under "**Unsubmitted Proposals**" you will see the proposal created with the same title as your approved preproposal. Click the link to begin.

If you wish to edit the title, click "**Edit Title**" and enter a clear and succinct title, in title case, of under 150 characters (including spaces) that captures the essence of the project's intent. Avoid acronyms, jargon and unnecessary words. You may edit the brief "**Project Description**" of 300 characters or less by clicking "**Edit Description.**" This is a short description of what the project intends to accomplish and, should your project be funded, will show up as the search result in the SARE database.

Be sure to click "**Save**" after each entry.

Your name, as the grant applicant, and the name of project leader/principal investigator (PI) have been auto-populated from the preproposal. If it is necessary for the applicant and the PI to be different from the preproposal, you must contact Kali McPeters at kali.mcpeters@uvm.edu immediately. Note: The PI is responsible for oversight of the project and must be housed at the same organization as the project's authorized official (the person authorized to sign for the organization hosting the grant, if funded).

Next, complete the proposal sections. Click on each section and submit responses to the questions; some have been automatically transferred from your preproposal and you may still edit them. To enter information, click "**Edit Answer**" for each question and be sure to click "**Save**" after each entry. See the step-by-step instructions that follow for additional guidance. At any time during the writing of your proposal, you may preview a draft from the Proposal Overview Page by clicking "**View Draft**". Once there, you can also share the draft of your proposal with collaborators by either sending the "**Link to Share**" found at the top of the draft page or by creating and sending a PDF of the proposal.

When all proposal questions are answered to your satisfaction, go to the Proposal Overview page and click the "**Submit Proposal**" button at the bottom of the page. The "**Submit**" button will not appear until you have answered all required questions. Select "**I understand**" to confirm your submission. You will receive an email confirmation of your submission. *Your submission is not complete until this final step, and it is important that you see the email confirmation to be sure your submission went through.*

Prior to the deadline, you may unsubmit to revise the proposal, but if you do so, do not forget to submit it again when you are done, otherwise it will not go forward to review. When you unsubmit, the most recent version of your proposal can be edited (i.e., you do not have to start over). Each time you submit or unsubmit the proposal, you will receive an email confirmation.

Step-by-Step Instructions

The proposal is divided into sections that contain multiple questions. Instructions for questions within all sections are presented below. Review criteria of the questions and the associated weights of proposal sections used in evaluating the proposals appear next to their associated questions throughout the instructions.

To navigate the proposal online, each section appears on the menu in the left sidebar of the **Proposal Overview** page; clicking on the section heading will open the fields for entering responses to questions. To enter a response, click the “**Edit Answer**” button after each question. Answers should be written per the instructions below and should adequately address the associated review criteria when applicable.

Please note: Do not include links to external sites in your submission (except as needed in the citation list); they will not be considered by reviewers.

General Information

Note: This section has no review criteria and is not scored by reviewers.

Project Start Date: Choose a start date from the calendar pop-up that is on or after March 1, 2022. Contract start dates will be March 1, 2022 but projects may begin after that date. Note: SARE cannot pay for expenses incurred before the project start date.

Project End Date: Choose an end date from the calendar pop-up. All projects must be completed by November 30, 2025.

Primary State: Select the state where the majority of work will be carried out, i.e., the primary location of the grant activities. Usually this is the home state of the project leader.

Optional: Geographic Scope: If this project will take place in more than just the primary state, list all the states where this project will take place.

Primary Commodities: Choose *only* the primary production commodities being addressed or investigated by the project, *not* every commodity that might potentially be affected. If your project is not commodity-specific, select “Does not apply to specific commodities”.

Primary Practices: Choose *only* the primary production practice(s) being addressed or investigated by the project, *not* every practice that might potentially be affected.

Primary Benefits and Impacts: Choose *only* the benefits and impacts that are most likely to be produced by the project, *not* every benefit or impact that could potentially occur.

Was a full proposal of this work submitted previously to Northeast SARE? This answer will be repopulated from your preproposal.

Does this project involve research with vertebrate animals? Please answer either yes or no. If your project is funded and involves animals, SARE will require certification of protocol review from an Institutional Animal Care and Use Committee (IACUC). Federal animal welfare regulations require that all activities involving the use of live vertebrate animals used or intended for use in research, research training, experimentation, biological testing or for related purposes are reviewed to ensure animal welfare and humane care.

Does this project involve human subjects research? Please answer either yes or no. If your project is funded and involves human research subjects, SARE will need a completed approval document from an Institutional Review Board (IRB) for Protection of Human Subjects in Research. If your organization does not have IRB protocols in place, please consult this resource: www.hhs.gov/ohrp/regulations-and-policy/decision-charts-2018.

Plan for IACUC/IRB Determination (no word limit): If your project does not involve animal research or human research subject, please write “not applicable”. If your project involves animal research or human research subjects, please describe your plan for obtaining IRB and/or IACUC determinations. Identify that your organization has an IRB/IACUC board that will review this project or identify a partner (typically compensated) that has agreed to provide this review. If your project is awarded, you will be required to provide the documentation before any research funds can be reimbursed.

(Optional) Additional Context (150-word limit). Describe for reviewers any challenges or opportunities that you and others conducting this type of work face in accessing resources. If you entered an answer to this question at the preproposal stage, it has been carried over to your full proposal. You may choose to edit or remove it.

Response to Preproposal Comments (250-word limit). Refer to “Changes to an Approved Preproposal” on page 2. Provide the following:

- A summary of the changes you made to respond to reviewer comments, if any.
- The rationale for your decision to incorporate comments or not.
- Any additional feedback you may have to reviewer comments.

Abstract (450-word limit). This is a standalone summary of the project; the abstract should not refer to subsequent parts of the proposal by using language like, “This will be described later.” If your project is approved for funding, the contents of this question will appear on the Project Overview page in the public SARE grant reporting site, therefore, we recommend that you return to this question to write it or refine it after completing the rest of the application.

The abstract should describe the novel approach and summarize why it is needed and how it will be beneficial to farmers in the Northeast. State the hypothesis or research question to be tested or evaluated, and summarize the methods proposed to execute the research plan. Briefly describe the evidence of farmer interest to adopt the novel approach and how farmers will be meaningfully involved in the project.

Project Objective (100-word limit)

Summarize the purpose of this project by explaining why the proposed research is needed to allow the novel approach to be adopted by farmers and the potential impact of the novel approach on Northeast farms.

Project Objective criteria weight:
10%

Review criteria:

The project objective summarizes why the proposed research is needed to allow adoption of the novel approach.

Statement of Need

Problem, Novel Approach and Justification (500-word limit)

Describe the problem or missed opportunity for farmers that the novel approach aims to address.

Explain why the problem or opportunity is important to sustainable agriculture in the Northeast and will contribute to Northeast SARE's outcome statement, see page 1.

Describe the number, type, typical size, and location of farms with potential to adopt the novel approach.

Explain the novel approach and provide evidence (data from your pilot studies, surveys or the research of others) that it is likely to address the problem or opportunity if adopted by farmers.

Knowledge Gap and New Knowledge Needed (400-word limit)

Explain the gap in research results that prevents promoting adoption of the novel approach – what information is missing that, if obtained, would allow promotion of the approach to farmers?

Describe the knowledge expected to be generated by the project that will build on previous research results, providing the missing information needed to allow farmers to adopt the novel approach.

Project Team

Key Individuals (400-word limit)

Briefly describe yourself as the project leader (principal investigator) and other key individuals (cooperators) who will devote significant time to the project. Descriptions include name, title, business or organization, skills, relevant experience (may include lived experience), and primary responsibilities on the project. You should demonstrate your team's ability to manage the project and conduct its activities. If some key individuals have not yet been identified, provide a description of the type/qualifications of the persons who would be recruited to fill those positions.

Also name any other individuals and their organizations, outside of your own, that will be receiving funds requested from SARE to carry out the project, as well as those organizations who will be contributing significant money, personnel time, facilities or equipment to the project.

Letters of Commitment from Key Individuals (Upload)

Each key individual (other than you, the applicant) must provide a letter of commitment. Each letter should indicate that the individual understands their role, describes what they will bring to the effort, and acknowledges their willingness to participate. Letters should be written by the individual team members (not you) and addressed to you as the project leader.

Statement of Need criteria weight: 20%

Review criteria:

The problem or opportunity is well described and is clearly important to the sustainability of agriculture in the Northeast. The farms with potential to adopt the novel approach are fully described. There is compelling evidence that the novel approach has potential to address the problem or opportunity and thus benefit a significant number of farms in the Northeast. Statements are justified with data.

Review criteria:

A gap in research results exists that prevents promoting adoption of the novel approach. The knowledge expected to be generated builds on prior research and is likely to allow farmers to adopt the novel approach. Statements are justified with data.

Project Team criteria weight: 10%

Review criteria:

The project leader and other key individuals have the capacity, skills and experience to conduct the project; the extent of their participation fits the needs of the project. Letters of commitment are included.

Do **not** upload: Letters of general support from individuals not involved in your project, curricula vitae, or sample promotional materials about your organization.

Project Advisory Committee (350-word limit)

An advisory committee consisting of at least two farmers and one agricultural service provider (eg., Extension, NRCS or other federal or state agency, private or non-profit organizations, veterinarian or other farm advisor) is required. Additional people representing other affiliations, such as researchers, may also be included on the committee. The committee does not include Key Individuals but may include others involved in the project. Provide the names and affiliations of those who will serve on the advisory committee.

Describe the extent to which advisory committee members have provided input during proposal development, and how they will be engaged during the project, for example in assessment of farmer interest, providing feedback on preliminary findings, and sharing project activities and findings. Describe how and when advisory committee meetings will occur.

Farmer Engagement

Interest of Farmers (300-word limit)

Describe the data that provides evidence of the interest of farmers to adopt the novel approach. These data can come from surveys, documentation of personal contacts, participation in pilot studies, etc. Data must be presented numerically, not as percentages of an unknown quantity, or as unquantified statements such as “multiple” or “many.”

Involvement of Farmers in the Project (300-word limit)

Describe the ways in which farmers will be engaged with the project, beyond serving on the advisory committee (see above). This may be through hosting on-farm trials or demonstrations, providing feedback on preliminary research findings, testing elements of the new approach, providing data to support economic analysis of the novel approach, etc.

Steps to Adoption of Novel the Approach (300-word limit)

Describe the key steps that will be necessary for farmers to adopt the novel approach, should the project generate the needed information to make adoption a realistic goal. For example, how will farmers obtain the design, equipment, plant or animal stock, supplies, tools, technical knowledge or other essential components required to implement the approach? If financial or technical support would be needed for adoption, where do you expect it would come from?

Describe the primary obstacles to adoption that you anticipate, and how they can be overcome.

Review criteria:

Advisory committee members are appropriate to the project and include at least two farmers and one agricultural service provider. Committee members have provided input into proposal development and there is a clear plan to engage the committee throughout project.

Farmer Engagement criteria weight: 15%

Review criteria:

Data provides evidence of a high level of farmer interest in adopting the novel approach.

Review criteria:

There is a clear plan to meaningfully engage farmers throughout the project.

Review criteria:

It will be feasible for farmers to adopt the novel approach should it prove realistic based on information generated by the project. Potential obstacles to farmer adoption are well described and it appears they could be overcome.

Outreach to Farmers (300-word limit)

Describe how you will conduct outreach to share preliminary and final research findings with the farmers most likely to benefit from the new information. Include a listing of specific outreach publications, events, partners or other resources you will utilize in your outreach efforts.

Communication of both positive and negative research results to the agricultural community is required because farmers benefit from knowing about both what does and does not work.

Research Description

Research Hypothesis or Question (100-word limit)

State the hypothesis(es) or research question(s) to be tested or evaluated that will address the knowledge gap(s) described.

Research Description (1,200-word limit)

Describe the research materials and methods proposed to test the hypothesis or evaluate the research question(s).

For field and laboratory research, the description must include the elements listed below. Include the subheadings in bold in the text you enter to identify each element.

- a. **Treatments:** Proposed treatments with rationale for selection.
- b. **Methods:** Experimental design, experimental unit size, and treatment application.
- c. **Data Collection:** Data to be collected and collection protocols.
- d. **Data Analysis and Presentation of Results:** Statistical methods to be used and the forms in which results will be presented. Describe plans for peer-reviewed publication during or after the project.

For social science research, the description must include the elements listed below. Include the subheadings in bold in the text you enter to identify each element.

- a. **Study Population(s):** with rationale for selection.
- b. **Methods:** Experimental design, methods and instruments to be used.
- c. **Data Collection:** Data to be collected and collection protocols.
- d. **Data Analysis and Presentation of Results:** Statistical methods to be used and the forms in which results will be presented. Describe plans for peer-reviewed publication during or after the project.

Review criteria:

The outreach plan is well-designed to reach farmers likely to adopt the novel approach.

Research Description criteria weight: 20%

Review criteria:

The hypothesis or research question is clearly stated and it directly addresses the stated knowledge gap.

Review criteria:

The treatments, methods, data collection and analysis are well designed to test the hypothesis or research question. The research is likely to yield results that provide the basis for farm applications. The results will be presented in forms that are accessible to a variety of audiences.

(Optional) Other Relevant Research Information (Upload)

Upload materials that clarify the research plan, such as a plot plan or sampling plan, experiment diagram, outline of focus group or interview plan, or other supporting research documentation.

Previous Work

Literature Review (1,200-word limit)

Outline the scientific foundation and origins of your project and identify and explain the references used to understand the problems, challenges, and opportunities your project will address, as well as current knowledge associated with the proposed solution. Include only those sources most relevant to your project. This section is the place to convince reviewers that there is a body of knowledge that provides a compelling rationale for the project.

Clearly describe what others have done and how your project will complement or build upon the results of previous efforts. Show that you are informed about previous relevant research or initiatives including grants from SARE if they are relevant to your project. The national SARE database of projects (projects.sare.org/search-projects) contains projects from all four SARE regions and is searchable by state, type of grant, project coordinator and keyword.

Citation List (no word limit)

Provide a list of citations referenced in the literature review and elsewhere in your proposal. Include only those citations directly related to the proposed project.

Budget

A detailed budget is required for the host organization and each subaward on the project. The budget is provided by completing and uploading Budget Justification and Narrative Spreadsheet(s) and entering totals into the online proposal.

Your total funding request is expected to be within the budget range listed in your preproposal unless otherwise requested by the preproposal review team. Funding requests should align with project duration, scope of the work, and intensity of the education program for farmers. Occasionally, full proposal budgets differ from the original estimates approved at the preproposal stage. If the project's expenses have increased or decreased, the reasons should be made clear through the budget justification and in the proposal text.

Projects are invited to include funding to address and assess social dimensions of the proposed work.

Previous Work criteria weight:
10%

Review criteria:

Previous relevant work is described and directly connected to the proposed work.

Review criteria:

A citation list is provided with relevant references included.

Budget criteria weight: 15%

Review criteria:

Budget items reflect the realistic needs of the project; and the total budget request is appropriate in terms of the magnitude of the project's expected results. All expenses are well justified.

Organizational Affiliation of Subawardees

Enter any additional organizations that will receive funding.

The organizational affiliation of the project leader (you, the principal investigator) is already defined in the applicant profile and does not need to be entered again.

Budget Justification and Narrative Spreadsheet (Upload)

Use the Northeast SARE Budget Justification and Narrative Template (Excel spreadsheet) available at: www.northeastzare.org/NovelApproaches. The template can accommodate one-, two- or three-year budgets. In the template, please carefully review the instructions on row 3 of the "Budget" tab, the "Instructions" tab, and the "Example Budget" tab.

A Budget Justification and Narrative Template is required for each organization that will receive funds through subawards. The completed template(s) must be uploaded as an Excel file (.xls or .xlsx) to your online submission.

An overview of allowable and unallowable uses of funds is given on page 4 of this Call.

In the Template, itemize and justify all expected expenses and calculate their costs as precisely as possible to show reviewers what funds are needed to carry out your project, and why they are needed.

Include the quantity and per-unit cost of each expense and include a narrative description that explains the need for and use of each expense. This level of detail is required by USDA NIFA and the University of Vermont. It also shows reviewers you have carefully considered the funding needed for your project. The competitiveness of proposals is undermined by an inadequately justified budget.

The Template should calculate the total cost of each item, the category subtotals for each year, and overall project totals. Budget categories in the Template are explained in the Instructions and are also provided in the **Appendix** for your convenience. All totals for each category should be calculated using the formulas in the Template.

Matching funds are **not** required for SARE grants. If your organization is providing facilities, resources or significant in-kind contributions to the project, these are best described in the proposal text and not in the budget justification.

Total Direct Costs

Enter the total direct dollar amount requested from the Template ("TOTAL DIRECT COSTS" from the Budget Justification and Narrative Template).

Total Indirect Costs

Enter the total indirect dollar amount requested from the Template ("TOTAL INDIRECT COSTS" from the Budget Justification and Narrative Template). Please note that for-profit businesses cannot include indirect costs in the budget (see the Appendix for more information).

Total SARE Request

Enter the total dollar amount requested from the Template ("TOTAL SARE Request" from the Budget Justification and Narrative Template). The totals of indirect and direct costs requested above should add up to this number.

Host Organization Approval

Grant Commitment Form (Upload)

Please complete the Grant Commitment Form(s), available at:

www.northeastsare.org/NovelApproaches. You, the project leader (principal investigator), must sign as the applicant. An authorized official at your organization (typically a sponsored programs officer or organization's financial manager or executive director) must also sign. You may share your proposal with your host organization's authorized official by clicking on the "View Draft" button on the Proposal Overview Page, then print the proposal or share the proposal by providing the "Link to share" URL.

Upload a PDF or image copy of the completed, fully officiated Grant Commitment Form and enter the information from the Form into the next two questions.

Note: Completed Grant Commitment Forms are required from **all** organizations that receive SARE funds under subawards—so please be sure to work with your project partners to receive their completed (and signed) Grant Commitment Forms well in advance of the deadline. You must upload PDFs (or image files) of these forms with your submitted proposal. If an organization or partner will not receive a subaward, no Grant Commitment Form is required.

Authorized Official Contact Information

For the organization serving as host organization for the project, provide the name and contact information of the authorized official for the organization serving as fiscal agent for the project.

FDP Clearinghouse Information

Please check the response to the question, "Is this organization registered in the Federal Demonstration Partnership (FDP) Expanded Clearinghouse?" A list of participating organizations can be found at:

fdpclearinghouse.org/organizations.

Application deadline has passed. Use as example only.

Expectations for Funded Proposals

If the Northeast SARE Administrative Council selects your project for funding, you may expect the following.

Notification

The Northeast SARE Administrative Council will select proposals for funding by the end of February 2022 and Northeast SARE staff will notify applicants of the status of their proposals soon after that.

Contracting and Disbursement of Funds

The Sponsored Programs Office or Authorized Official of the grant recipient will receive a Subaward Agreement from the University of Vermont, the host organization for Northeast SARE. Funds are to be used exclusively for the proposed project, subject to the restrictions outlined in "Use of Funds." Funds are released on a reimbursement basis to the organization in response to invoices from the organization's financial office. This process can take a while so, if funded, be sure to initiate it as soon as possible. Northeast SARE will hold the last 10 percent of the award until the final project report has been received and approved.

IACUC and IRB Documentation

If your project is funded and involves research with vertebrate animals, SARE will require certification of protocol review from an Institutional Animal Care and Use Committee (IACUC). If your project is funded and involves human subjects research, SARE will need a completed approval or exemption document from an Institutional Review Board (IRB) for Protection of Human Subjects in Research.

Acknowledging SARE

All funded projects are required to acknowledge Northeast SARE as the funding source in **all** project publications and outreach materials.

Required Reporting

Northeast SARE requires annual progress reports and a comprehensive final report for all projects. All reports will be submitted online in SARE's Grant Management System using our reporting template. Reports should describe the progress made on the project, detail the findings observed, and document any outputs and impacts. All outreach and educational activities should be reported as well as any measured changes in participant knowledge and skills, attitudes and awareness, and/or the adoption of new practices. Publications and educational tools should be added to the report as attachments. Photographs should be included to help document and promote the project.

Progress reports are due by January 15 each year the project is active and a final report is due within 60 days of the project's end date. The final report should include full, detailed results of project activities that were defined in the proposal, regardless of pending or published journal articles. At the close of projects, SARE asks for contact information of 8-12 project participants whom SARE may contact in the future for program evaluation.

It is useful to review SARE's logic models and to be familiar with performance indicators that will be evaluated as part of grantee and post-project reporting. SARE logic models provide a description of the resources, activities, outputs, and outcomes of the program. For more information, please visit:

www.northeastsare.org/logicmodels.

Northeast SARE asks that grant recipients provide us with their contact information for at least two years after the project has ended to allow for follow-up and response to inquiries about the project.

Appendix: Explanation of Budget Categories

This information is available directly in the Budget Justification and Narrative Template in the Instructions tab and is included here as well for your convenience.

Salaries and Wages

Include salaries and wages for the project leaders, support staff, and/or student wages. These must be shown as either an hourly rate multiplied by the anticipated time needed to complete the project or as a percentage of Full Time Equivalent (FTE) at a given salary. Provide narrative detail of each person's role in the project or the services they are providing through their work on the project.

If salaries are expected to change, enter each year on a separate line.

Only people employed by the host organization should be listed in this category. In most circumstances, the salaries of administrative or clerical staff at educational institutions and nonprofit organizations are included as part of indirect costs. Those employed elsewhere should be listed in the "Consultant Services" category below or, if individuals are to be paid by another organization via a subaward, they should be included in a separately detailed subaward budget and the subaward total should be listed below under "Subawards" in "Other Direct Costs."

Fringe Benefits

If applicable, provide the cost of fringe benefits. These should be calculated as a percentage of the salary and/or wage amounts above.

Materials and Supplies

Materials and supplies are items that are not depreciated over time. Supplies can include items such as project-specific software, specialized tools, measuring devices, and other materials that will be used during the course of the project. Property that has a useful life beyond one year should be included in the "Purchase of Equipment or Cost of Fabrication" category below. Individual materials and supplies with a value greater than \$1,000 may need to be prorated based on the project length. See the "Purchase of Equipment or Cost of Fabrication" section for more details.

Any requests for funds to purchase materials and supplies must clearly describe why they are essential to the project. Please itemize the quantity and per-unit cost of each expense. In general terms, indicate the types of required expendable materials and supplies and their estimated costs.

It is important to include narrative justification about why the item is necessary and why not otherwise available through the organization. Items must be project-specific and able to be tracked as being used for the project. General-use items such as office supplies are not allowable unless the items can be tracked and itemized for a project-specific purpose. Promotional items are not allowed, including items of clothing (hats, tee shirts, aprons, etc.), swag, giveaways, subsidies, raffles and branded promotional material.

Travel

This section is only for the travel of employees/personnel of the host organization; list consultant travel under the "Consultant Services" section and list participant travel under the "Trainee Support" section. Specify the purpose of the trip(s) and who is traveling, the destination, dates of trip or length of trip if dates are not known, and expenses per trip. We recommend that you break out costs onto different lines (such as registration fees, lodging, airfare or mileage, per diem, etc.) so that your estimates are clear to reviewers. Travel expenses for scholarly meetings are not allowable unless essential to the project, such as presentation of project results or to explicitly bring information back to project participants.

When requesting funds for travel by car, use the mileage reimbursement rate set by the organization administering the grant (cannot be more than the Federal rate). If your organization does not have a rate, then you should use the current Federal mileage rate at: www.irs.gov/tax-professionals/standard-mileage-rates.

If the budget includes air travel, these trips must clearly be justified as necessary to the project. Foreign travel is typically not allowed under the SARE program except in cases where sufficient justification has been provided and it must be pre-approved by Northeast SARE staff if your project is funded. To justify foreign travel, grant applicants need to demonstrate the travel is 1) directly related to the project, 2) important for project completion, and 3) well justified (i.e., provide explanation for why the activity cannot be done in the USA, detail relevance to Northeast agriculture sustainability, and provide foreign institution and colleagues' qualifications when relevant, etc.). All airline travel must be booked according to the guidelines of the Fly America Act which roughly states that, except under certain circumstances, flights must be booked on U.S. flag carriers. In addition, all flights must be booked in coach class.

Communications and Printing

This category includes costs of developing, printing and distributing all publication, education, and outreach materials. Include publishing costs for scientific or technical journal articles here. You may include the cost of developing web-based publications here, but web hosting expenses belong in the "Subscriptions" category. Show a per-piece cost for any publications you plan to develop.

This category also includes postage, photocopying, fax and telephone expenses. Please note that charges for cell phones are not allowable.

Consultant Services

If outside entities will be compensated on a temporary basis to carry out specific tasks, these charges are listed here. All personnel of the host organization should be listed under the "Salaries and Wages" section. Expenses for specific services, consultants and speakers/presenters should all be included here. Include the names (if applicable) of those receiving stipends or payments for services, the organizations or farms, a description of the services they are providing, and a breakdown of the number of days or hours of service, rate of pay, and expenses to be reimbursed (travel), etc.

Farmer collaborators are often paid stipends and this expense belongs in this category. SARE strongly encourages that farmers (and others who take time out of their normal work to provide a service to the project) be paid for the time they contribute to a project at a reasonable rate. For example, Northeast SARE compensates farmers who serve on its Administrative Council and review teams at a rate of \$300 per day.

Research incentives and compensation for interviewees or other research participants should also be included here when clearly necessary for the success of the program.

Subscriptions

Costs of subscriptions, such as internet service, web hosting, online meeting, storage, survey platforms, and trade publications can be included here if they are specific to the project.

Conferences, Meetings and Workshops

Costs of holding project conferences, meetings, training events and workshops are included in this category. Expense examples include the rental of facilities and equipment for meetings, and signage for field days. Details of costs for each conference or meeting should be itemized.

Meal expenses may be included in the budget only in situations where providing the meal maintains the continuity of a formal group meeting or educational training, and not offering such a meal would impose inappropriate discomfort for the meeting participants. Conversely, meals may not be charged as project costs when individuals decide to go out for breakfast, lunch or dinner together when no need exists for continuity of a meeting; this kind of activity is considered an entertainment cost.

Reminder: List expenses for a project leader or staff employed by the host organization attending a conference under "Travel". List presenter expenses under "Consultant Services". List trainee-participant expenses under "Trainee Support".

Other Direct Costs

Please enter other direct costs of your proposal in this section.

Note: If your organization uses Modified Total Direct Costs (MTDC), the costs in this section are exempt from indirect cost calculations. This typically affects only a small number of applicants and is calculated automatically when the "*de minimus* rate" indirect cost option is selected at the bottom of the Budget Justification and Narrative Template. If you are not using the *de minimus* rate, the costs in this section are included in the indirect cost calculation.

Trainee Support (participant support costs)

If meals, registration costs, transportation, lodging, stipends or other travel expenses are to be paid on behalf of participants who are receiving training as project beneficiaries, these expenses should be listed as Trainee Support costs. Other payments for services rendered should be listed above in "Consultant Services". Other event expenses should be listed in "Conferences, Meetings and Workshops".

Office Rental

These costs are most often covered under the host organization's indirect costs (see below) and would only be applicable if a remote site was specifically needed to carry out the project.

Purchase of Equipment or Cost of Fabrication

Equipment is defined as: 1) an item that has an acquisition cost of \$5,000 or more (unless the organization has established lower levels) **and/or** 2) has an expected useful life of more than one year (e.g., a \$1,000 item with a useful life of 5 years would belong in this category). Allowable items ordinarily will be limited to project-specific equipment not already available for the conduct of the work. General-purpose equipment—such as a personal computer or a tractor—are not eligible for support unless clearly necessary to the project and primarily used in the conduct of project-specific research.

Fabrication of equipment is only appropriate when a project's plan of work calls for a piece of equipment to be constructed as an integral part of the project.

Requests for funds to purchase or fabricate equipment must clearly justify: 1) why the equipment is essential to the project and 2) why it is not part of the organization's normal inventory. When possible, equipment should be rented, but if the equipment is relatively inexpensive or not available for rent, an applicant can propose to buy the equipment. Shipping and delivery costs may be included.

Note when the applicant is a for-profit business: Typically, if equipment to be purchased has a useful life beyond the project period, SARE funds should be requested using a pro-rated share of the total cost based only on the time it will be used for the project. The allowed expense should be calculated as the purchase price, divided by expected useful life (typically five years for farm equipment) times the number of years used for the project. If the equipment's effectiveness is unknown (i.e., the project will determine whether it

is useful in a particular application) or will be used only for education/research in perpetuity, it may be funded in full.

Rental of Equipment or Land-use Charges

Requests for funds to rent or operate equipment must clearly justify: 1) why the equipment is essential to the project and 2) why it is not part of an organization's normal inventory.

Land-use charges are most typical in field or greenhouse research situations when a rental rate is applied or a research station that has a standard per-acre fee for field plot maintenance.

Other

If you have a project expense that truly does not fit into any of the above categories, it should be included in this section. We recommend you contact this grant program's coordinator about expenses you think belong here, as expenses in this category are removed to determine MTDC, when relevant, for indirect calculations. Each item must be clearly identified and justified to be allowed. Unidentified, unjustified or undefined ("etc.", "miscellaneous" or "contingency expense") items are not allowed.

Subawards

If there is a portion of the project that will be conducted by another organization as a subaward, it should be included in this section. List the institution, organization or business, the subaward leader's name, and the amount of the subaward. Each subawardee will need to complete a Budget Justification and Narrative Template and Grant Commitment Form—these forms must be completed and uploaded online to the proposal at the time of submission. When using MTDC calculations for indirect, subaward amounts above \$25,000 for each subaward organization are removed to determine MTDC.

Indirect Costs

The USDA allows indirect costs. Applicants whose organizations have a negotiated federal indirect cost rate may budget the indirect portion to be up to 10% of the total direct costs. This is the maximum, a cap on indirect costs set by USDA on SARE grants.

This amount is automatically calculated by dividing total direct costs by ten. If a fractional dollar amount is calculated, the total is rounded down so the amount of indirect costs remains under 10% of the total direct costs. For this reason, you may see an unexpected rounding behavior in the automatic indirect cost calculations in certain cases. If the negotiated organizational rate is less than 10% of total direct costs, then that lower rate limit applies. In this case, you will need to enter your own calculated values for the Indirect Costs.

If your organization does not have a federally-negotiated indirect cost rate, you may request a *de minimis* rate of 10% of Modified Total Direct Costs (MTDC). MTDC includes all direct costs except for Trainee Support, Office Rental, Purchase of Equipment or Cost of Fabrication, Equipment Rental of Land-use Charges, Other and Subaward amounts above \$25,000 for each subaward organization. This is automatically calculated when you select the *de minimis* rate at the bottom of the Budget Justification and Narrative Template.

For-profit businesses (including farms) that receive Northeast SARE awards will receive vendor service agreements as contracts (rather than subaward agreements with the flow down of federal regulations) and these service agreements cannot include indirect costs. Any overhead expenses that can be directly attributable to the grant project may be itemized in the direct cost budget and cannot exceed the USDA NIFA indirect cap of 10% of total direct costs.