

2019 Seeding Solutions Pre-proposal Application Form

Pre-Proposal Applications Due: Friday, April 19, 2019, 5:00 PM EST

Grant Information PI

Full Name _____

Organizational Affiliation _____

Grant ID _____

Project Title*

Provide a short title that captures the essence and communicates the importance of the proposed project to a lay reader.

Project Duration*

State Date _____

End Date _____

Duration _____

Budget Questions

Total FFAR Ask _____

Total Cash Match _____

Total In-Kind Match _____

Total Match _____

Total Project Budget _____

Research or Challenge Area

Challenge Areas

- Next Generation Crops
- Advanced Animal Systems
- Urban Food Systems
- Soil Health
- Sustainable Water Management
- Health-Agriculture Nexus

Other than the Principal Investigator, how many key personnel will be involved in the proposed project?*

The PI is the individual who is responsible for the scientific or technical direction of the project and have primary responsibility for the proposed work and reporting requirements. Key personnel are individuals who share the responsibility of the scientific or technical direction of the project or contribute to the intellectual design or execution of the project in a substantive, measurable way.

- 1
- 2
- 3
- 4

- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

Please list the name(s), affiliation(s), expertise, and role of key personnel on the proposed work*

The Principal Investigator / Project Director is the individual designated by the applicant, who will be responsible for the scientific or technical direction of the project and have primary responsibility for the project and meeting the reporting requirements, if awarded. If the PI is the only project personnel, please select 1 from the dropdown and complete the requested information. Key personnel are individuals who share in the responsibility of the scientific or technical direction of the project or contribute to the intellectual design or execution of the project in a substantive, measurable way. **NOTE: Be aware of the scroll bar. Scroll to the right to fully answer this question.**

	Name	Institution	Expertise
1	_____	_____	_____
2	_____	_____	_____
3	_____	_____	_____
4	_____	_____	_____
5	_____	_____	_____
6	_____	_____	_____
7	_____	_____	_____
8	_____	_____	_____
9	_____	_____	_____
10	_____	_____	_____
11	_____	_____	_____
12	_____	_____	_____
13	_____	_____	_____
14	_____	_____	_____
15	_____	_____	_____

	Role	Email	Phone
1	_____	_____	_____
2	_____	_____	_____
3	_____	_____	_____
4	_____	_____	_____
5	_____	_____	_____
6	_____	_____	_____
7	_____	_____	_____
8	_____	_____	_____

9	_____	_____	_____
10	_____	_____	_____
11	_____	_____	_____
12	_____	_____	_____
13	_____	_____	_____
14	_____	_____	_____
15	_____	_____	_____

Effort

1	_____
2	_____
3	_____
4	_____
5	_____
6	_____
7	_____
8	_____
9	_____
10	_____
11	_____
12	_____
13	_____
14	_____
15	_____

Issues Project Will Address

What is the issue the project is trying to address?

Research Gaps

What research gaps will the project fill?

Innovation

Innovation: Please describe how the approach, methodology, technologies or products will significantly advance the food and agriculture sector. We define innovation for this request for applications (RFA) in three categories: Applied Innovation: Application and validation of **new or emerging** technologies, processes or management strategies to address major challenges in food and agriculture. Re-imagined Innovation: Adaptation of **existing** technologies, processes or management strategies for use in entirely

new agricultural applications.. Radical Innovation: Development of new technologies, software, algorithms, methodology or product .

Funding Partners*

List any committed or potential funding partners, describe why they are an appropriate source of matching funds, and any prior contact you have had or relationship you have developed with them about this project.

Proposed Project Budget* FFAR

Funds	_____
Cash Match	_____
In-Kind Match	_____
Total Match	_____
Total Budget	_____

Organization Assurances

All projects involving human subjects must have approval from an institutional review board (IRB), unless they qualify for an exemption from IRB review, before an award can be made. Where IRB approval is required, applicants should file their proposal with their local IRB at the same time the proposal is submitted to the Foundation for Food and Agriculture Research, so that the approval procedure will not delay the award process. A proposal may be submitted to the Foundation for Food and Agriculture Research without IRB approval; but if the proposal is selected for funding, award will be made conditional upon IRB approval within 60 days of the notice of conditional award. If a proposed project involving human subjects is exempt from human subjects regulations [see 45 CFR 46.101(b)], the applicant must provide documentation that an IRB (or some authority other than the project director or key personnel) has declared the project exempt from the human subjects regulations. Documentation should include the specific category justifying the exemption.

Human Subject Assurance*

Are human subjects involved in the proposed research?	<ul style="list-style-type: none">• Yes• No
IRB Status	<ul style="list-style-type: none">• Pending Submission• Submitted• Approved• Exempt• Rejected

IRB Exemption Category	<ul style="list-style-type: none"> • 1 • 2 • 3 • 4 • 5 • 6
Human Subject Assurance Number	_____
IRB Pending Date	_____
IRB Submission Date	_____
IRB Approval Date	_____

All projects involving animal use must have approval from an institutional animal care and use committee (IACUC), unless they qualify for an exemption from IACUC review, before an award can be made. Where IACUC approval is required, applicants should file their proposal with their local IACUC at the same time the proposal is submitted to the Foundation for Food and Agriculture Research, so that the approval procedure will not delay the award process. A proposal may be submitted to the Foundation for Food and Agriculture Research without IACUC approval; but if the proposal is selected for funding, award will be made conditional upon IACUC approval within 60 days of the notice of conditional award. If a proposed project involving animal use is exempt from animal use regulations [see The Animal Welfare Act (AWA) (7 U.S.C. § 2131)], the applicant must provide documentation that an IACUC (or some authority other than the project director or key personnel) has declared the project exempt from the animal use regulations. Documentation should include the specific category justifying the exemption.

Vertebrate Animal Research Assurance

Are vertebrate animals involved in the proposed research?	<ul style="list-style-type: none"> • Yes • No
IACUC Status	<ul style="list-style-type: none"> • Exempt • Pending • Submitted • Approved • Rejected
IACUC Exemption Category	<ul style="list-style-type: none"> • Activities involving animals that perform tasks, participate in club activities, or appear in exhibits or demonstrations. • Use of tissues, organs or other parts of dead animals if received as such. • Noninvasive observation of wild animals in their natural habitat.
Animal Subject Assurance Number	—
IACUC Pending Date	_____
IACUC Submission Date	_____
IACUC Approval Date	_____

When applicable, Research on recombinant DNA should be conducted in accordance with CDC/NIH Biosafety Guidelines (Biosafety in Microbiological and Biomedical Laboratories) and NIH Guidelines for Research Involving Recombinant DNA.

Recombinant DNA

rDNA involved in the proposed research?	<ul style="list-style-type: none"> • Yes • No
rDNA Status	<ul style="list-style-type: none"> • Pending Submission • Submitted • Approved • Exempt • Rejected

rDNA Exemption Category

- Section III-F-1.
- Section III-F-2.
- Section III-F-3.
- Section III-F-4.
- Section III-F-5.
- Section III-F-6.
- Section III-F-7.
- Section III-F-8.

rDNA Assurance Number

rDNA Pending Date

rDNA Submission Date

rDNA Approval Date

Does the proposed project require review for activities that have possible national security implications?*

Yes

No

If yes, please provide detailed explanation.

Are hazardous materials used or produced in the proposed project?*

Yes

No

If yes, please provide detailed explanation.

Is human fetal tissue used in the proposed project?*

Yes

No

If yes, please provide detailed explanation.

Does the proposed work require a NEPA review?*

Yes

No

If "Yes," explain the status of the review process.

2019 Seeding Solutions Full Proposal Application Form

Full Proposals Due: Wednesday, August 7, 2019, 5:00 PM EST

Grant Information PI

Full Name _____

Organizational Affiliation _____

Grant ID _____

Project Title*

Provide a short title that captures the essence and communicates the importance of the proposed project to a lay reader.

Challenge Area*

Challenge Area

- Next Generation Crops
- Advanced Animal Systems
- Urban Food Systems
- Soil Health
- Sustainable Water Management
- Health-Agriculture Nexus
-

Project Duration*

From _____

Through _____

Duration _____

Budget Totals*

Total FFAR Ask _____

Total Cash Match _____

Total In-Kind Match _____

Total Match _____

Total Project Budget _____

Geographic location (city, state, congressional district) where the applicant organization is located.*

Country _____

Street _____

City _____

State/Province _____

Congressional District if applicable _____

Geographic location (city, state, congressional district) where the proposed research will be conducted.*

Country _____
Street _____
City _____
State/Province _____
Congressional District if applicable _____

Describe stakeholder groups to be served by the proposed project*

Examples, farmers/producers, policy makers, researchers, consumers, the public, industry, etc.

Have you identified barriers that might inhibit the uptake and adoption of your research outcome(s)?*

Note: Collaboration on this issue with socio-economic scientists is highly encouraged.

- Yes
 No

What are they and how will your project propose to address them?*

How do you propose to identify and address them?*

Have you identified barriers that might hinder the optimal or intended use of your research outcome(s)?*

- Yes
 No

What are they and how will your project propose to address them?*

How do you propose to identify and address them?*

Will your research outcome(s) be scale neutral?*

- Yes
 No

What barriers might obstruct them from scaling up or down?*

How do you propose to address these barriers?*

Key Personnel

Other than the Principal Investigator, how many key personnel will be involved in the proposed project?*

The Principal Investigator / Project Director is the individual designated by the applicant, who is responsible for the scientific or technical direction of the project and have primary responsibility for the project and meeting the reporting requirements, if awarded. Key personnel are individuals who share the responsibility of the scientific or technical direction of the project or contribute to the intellectual design or execution of the project in a substantive, measurable way.

- 1
- 2
- 3
- 4
- 5
- 6
- 7

Please list the name, affiliation, expertise, and role on the proposed work in order of their importance to the project.

	Key Personnel Name	Affiliation	Expertise
1	_____	_____	_____
2	_____	_____	_____
3	_____	_____	_____
4	_____	_____	_____
5	_____	_____	_____
6	_____	_____	_____
7	_____	_____	_____
	Role on Proposed Project		
1	_____		
2	_____		
3	_____		
4	_____		
5	_____		
6	_____		
7	_____		

Project Executive Summary*

The project summary should be an overview of the proposed project written in the third person, informative to others working in the same or related fields, and, insofar as possible, understandable to a technical reader. It should not be as technical as a typical abstract. It should be a brief, high-level description of the full application, including, project objectives, anticipated outcomes, potential impact, budget, partners/collaborators, timeline, and an explanation of why the project is innovative.

Public Abstract*

Should the proposed project be selected for funding, the public abstract would be used in the funding announcement and it is intended for a general audience (do not include proprietary information in this section). Describe, in simple, nontechnical terms, the overall goals of the proposed project, the potential significance of the results, and the impact of the work on advancing the food and agriculture sector.

Project Description*

The project description should provide a clear statement of the work to be undertaken. It must contain the following subheadings, address the stated prompts, and be limited to 5,000 words.

Introduction

a) A summary of the knowledge that has laid the groundwork for this project, including any relevant preliminary work or data that has informed the development of the project.

b) A description of the research or outreach and/or education gap(s) that the proposed project seeks to fill to advance. Projects addressing the Outreach and Education focus area should clearly articulate their target audience.

c) A description of how the project is relevant to one or more of the target areas outlined in the RFA.

Approach

a) A detailed account of the procedures or methodology you will use to achieve the goals and supporting objectives. The account must have enough information for a panel of experts to judge the merit of the project. All application information is treated as confidential. Projects applying solely under the Education and Outreach focus area are still required to “assess efficacy of education and outreach methods” and that assessment should be described in this section along with a description of the education and outreach project itself.

The account should include:

i) Proposed project activities described sequentially.

ii) Techniques to be used, including their feasibility and rationale.

iii) If applicable, stakeholder involvement in the development of the approach.

iv) A description of anticipated risks and how you will mitigate them.

v) How data will be analyzed or interpreted.

vi) Plan to communicate results or amplify outcomes to stakeholder audiences. For projects focusing on the Education and Outreach focus area, this should describe how you will share lessons learned beyond your project.

Project Goals and Objective*

Please list the objectives by year for the duration of the project. For Goals, list specific aims that the project is trying to accomplish in each year of the project. For Objectives, list specific measurable actions that will be taken to achieve the corresponding goal. These goals and objectives will also be used when submitting and evaluating progress reports, and assessing project success.

How many years is the proposed project?*

- One Year
- Two Years
- Three Years
- Four Years
- Five Years

How many goals and objectives do you have for Year 1?*

- 1
- 2
- 3
- 4
- 5
- 6

- 7
- 8
- 9
- 10

Year 1 Goals and Objectives*

	Goal(s)	Objective(s)
Goal 1 / Objective 1	_____	_____
Goal 2 / Objective 2	_____	_____
Goal 3 / Objective 3	_____	_____
Goal 4 / Objective 4	_____	_____
Goal 5 / Objective 5	_____	_____
Goal 6 / Objective 6	_____	_____
Goal 7 / Objective 7	_____	_____
Goal 8 / Objective 8	_____	_____
Goal 9 / Objective 9	_____	_____
Goal 10 / Objective 10	_____	_____

How many goals and objectives do you have for Year 2?*

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10

Year 2 Goals and Objectives*

	Goal(s)	Objective(s)
Goal 1 / Objective 1	_____	_____
Goal 2 / Objective 2	_____	_____
Goal 3 / Objective 3	_____	_____
Goal 4 / Objective 4	_____	_____
Goal 5 / Objective 5	_____	_____
Goal 6 / Objective 6	_____	_____
Goal 7 / Objective 7	_____	_____
Goal 8 / Objective 8	_____	_____
Goal 9 / Objective 9	_____	_____
Goal 10 / Objective 10	_____	_____

How many goals and objectives do you have for Year 3?*

- 1
- 2

- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10

Year 3 Goals and Objectives*

	Goal(s)	Objective(s)
Goal 1 / Objective 1	_____	_____
Goal 2 / Objective 2	_____	_____
Goal 3 / Objective 3	_____	_____
Goal 4 / Objective 4	_____	_____
Goal 5 / Objective 5	_____	_____
Goal 6 / Objective 6	_____	_____
Goal 7 / Objective 7	_____	_____
Goal 8 / Objective 8	_____	_____
Goal 9 / Objective 9	_____	_____
Goal 10 / Objective 10	_____	_____

How many goals and objectives do you have for Year 4?*

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10

Year 4 Goals and Objectives*

	Goal(s)	Objective(s)
Goal 1 / Objective 1	_____	_____
Goal 2 / Objective 2	_____	_____
Goal 3 / Objective 3	_____	_____
Goal 4 / Objective 4	_____	_____
Goal 5 / Objective 5	_____	_____
Goal 6 / Objective 6	_____	_____
Goal 7 / Objective 7	_____	_____
Goal 8 / Objective 8	_____	_____
Goal 9 / Objective 9	_____	_____
Goal 10 / Objective 10	_____	_____

How many goals and objectives do you have for Year 5?*

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10

Year 5 Goals and Objectives*

	Goal(s)	Objective(s)
Goal 1 / Objective 1	_____	_____
Goal 2 / Objective 2	_____	_____
Goal 3 / Objective 3	_____	_____
Goal 4 / Objective 4	_____	_____
Goal 5 / Objective 5	_____	_____
Goal 6 / Objective 6	_____	_____
Goal 7 / Objective 7	_____	_____
Goal 8 / Objective 8	_____	_____
Goal 9 / Objective 9	_____	_____
Goal 10 / Objective 10	_____	_____

Anticipated Outcomes or Outputs*

Clearly describe how the project, if successful, will have a major impact on the food and agriculture sector. Summarize how the proposed research creates new paradigms or challenges existing ones. This section should communicate the potential impact of the project should the goals of the project be achieved.

Data and Information Management Plan*

To facilitate data and information products sharing, all full proposals submitted to the Foundation for Food and Agriculture Research must include a data management plan. (Note: Information products may include documents [i.e. reports, workshop summaries, etc.], multi-media curricula for education and training [i.e. video and/or online tutorials, manuals and handbooks, etc.]; and other media and communication platforms.) Even in the unlikely case in which no data or any other information products will be produced, a plan must be submitted that states "No information products are expected to be produced from this project."

Organization Assurances

All projects involving human subjects must have approval from an institutional review board (IRB), unless they qualify for an exemption from IRB review, before an award can be made. Where IRB approval is required, applicants should file their proposal with their local IRB at the same time the proposal is submitted to the Foundation for Food and Agriculture Research, so that the approval procedure will not delay the award process. A proposal may be submitted to the Foundation for Food and Agriculture Research without IRB approval; but if the proposal is selected for funding, award will be made conditional upon IRB approval within 60 days of the notice of conditional award. If a proposed project involving human subjects is exempt from human subjects regulations [see 45 CFR 46.101(b)], the applicant must provide documentation that an IRB (or some authority other than the project director or key personnel) has declared the project exempt from the human subjects regulations. Documentation should include the specific category justifying the exemption.

Human Subject Organizational Assurance*

Are human subjects involved in the proposed research?	<ul style="list-style-type: none"> • Yes • No
IRB Status	<ul style="list-style-type: none"> • Pending Submission • Submitted • Approved • Exempt • Rejected
IRB Exemption Category	<ul style="list-style-type: none"> • 1 • 2 • 3 • 4 • 5 • 6
Human Subject Assurance Number	_____
IRB Pending Date	_____
IRB Submission Date	_____
IRB Approval Date	_____

All projects involving animal use must have approval from an institutional animal care and use committee (IACUC), unless they qualify for an exemption from IACUC review, before an award can be made. Where IACUC approval is required, applicants should file their proposal with their local IACUC at the same time the proposal is submitted to the Foundation for Food and Agriculture Research, so that the approval procedure will not delay the award process. A proposal may be submitted to the Foundation for Food and Agriculture Research without IACUC approval; but if the proposal is selected for funding, award will be made conditional upon IACUC approval within 60 days of the notice of conditional award. If a proposed project involving animal use is exempt from animal use regulations [see The Animal Welfare Act (AWA) (7 U.S.C. § 2131)], the applicant must provide documentation that an IACUC (or some authority other than the project director or key personnel) has declared the project exempt from the animal use regulations. Documentation should include the specific category justifying the exemption.

Vertebrate Animals Organizational Assurance*

Are vertebrate animals involved in the proposed research?	<ul style="list-style-type: none"> • Yes • No
IACUC Status	<ul style="list-style-type: none"> • Pending Submission • Submitted • Approved • Exempt • Rejected
IACUC Exemption Category	<ul style="list-style-type: none"> • Activities involving animals that perform tasks, participate in club activities, or appear in exhibits or demonstrations. • Use of tissues, organs or other parts of dead animals if received as such. • Noninvasive observation of wild animals in their natural habitat.

IACUC Assurance Number _____
IACUC Pending Date _____
IACUC Submission Date _____
IACUC Approval Date _____

When applicable, Research on recombinant DNA should also be conducted in accordance with CDC/NIH Biosafety Guidelines (Biosafety in Microbiological and Biomedical Laboratories) and NIH Guidelines for Research Involving Recombinant DNA. Please refer to the NIH Guidelines for Research Involving Recombinant or Synthetic Nucleic Acid Molecules for information on exemption categories.

Recombinant DNA Organizational Assurance*

Is Recombinant DNA involved in the proposed research? Yes
 No

rDNA Oversight Status Pending Submission
 Submitted
 Approved
 Exempt
 Rejected

rDNA Exemption Category Section III-F-1.
 Section III-F-2.
 Section III-F-3.
 Section III-F-4.
 Section III-F-5.
 Section III-F-6.
 Section III-F-7.
 Section III-F-8.

Recombinant DNA Assurance Number _____ rDNA Pending Date _____

rDNA Submission Date _____
rDNA Approval Date _____

Does the proposed project require review for activities that have possible national security implications?

Yes
 No

If "Yes," please provide detailed explanation.

Are hazardous materials used or produced in the proposed project?

Yes
 No

If "Yes," please provide detailed explanation.

Is human fetal tissue used in the proposed project?

Yes

No

If "Yes," please provide detailed explanation.

Does the proposed work require a NEPA review?

Projects that will likely have a significant impact or anticipated individual cumulative effect on the quality of the environment will typically require preparation of an Environmental Assessment or an Environmental Impact Statement, unless categorically excluded from a detailed environmental analysis. Documentation should include the specific category justifying the exclusion. Projects pending NEPA approval cannot start until NEPA approval is obtained.

Yes

No

If "Yes," please provide detailed explanation.
