

# **Alfalfa and Forage Research Program (AFRP)**

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## **FY 2018 Request for Applications (RFA)**

**APPLICATION DEADLINE: April 18, 2018**

**ELIGIBILITY: See Part III, A of RFA**



United States  
Department of  
Agriculture

National Institute  
of Food and  
Agriculture

**NATIONAL INSTITUTE OF FOOD AND AGRICULTURE; U.S. DEPARTMENT OF AGRICULTURE**

**ALFALFA AND FORAGE RESEARCH PROGRAM (AFRP)**

**INITIAL ANNOUNCEMENT**

**CATALOG OF FEDERAL DOMESTIC ASSISTANCE:** This program is listed in the Catalog of Federal Domestic Assistance under 10.330.

**DATES:** Applications must be received by **5 p.m. Eastern Time** on April 18, 2018. Applications received after this deadline will normally not be considered for funding (see Part IV, C of this RFA). Comments regarding this request for applications (RFA) are requested within six months from the issuance of this notice. Comments received after that date will be considered to the extent practicable.

**STAKEHOLDER INPUT:** We at the National Institute of Food and Agriculture (NIFA) seek your comments about this RFA. We will consider your comments when we develop the next RFA for the program, if applicable, and we'll use them to meet the requirements of section 103(c)(2) of the Agricultural Research, Extension, and Education Reform Act of 1998 (7 U.S.C. 7613(c)(2)). Submit your written stakeholder comments by the deadline set forth in the DATES portion of this notice via email to [Policy@nifa.usda.gov](mailto:Policy@nifa.usda.gov). (This email address is only for receiving comments regarding this RFA and *not* for requesting information or forms.) In your comments, please state that you are responding to the Alfalfa and Forage Research Program RFA.

**EXECUTIVE SUMMARY:** NIFA requests applications for the Alfalfa and Forage Research Program (AFRP) for fiscal year (FY) 2018 to increase yields and quality; improve harvest and storage systems; develop methods to estimate forage yield and quality to support marketing and reduce producer risks; explore new and novel uses for alfalfa; and conduct life cycle analysis to enhance field to market opportunities. This is an integrated research and extension program. The anticipated amount available for grants in FY 2018 is approximately \$2.1 million. This RFA is being released prior to passage of an appropriations act for FY2018. Enactment of additional continuing resolutions or an appropriations act may affect the availability of level of funding for this program.

This notice identifies the objectives for AFRP projects, deadline dates, funding information, eligibility criteria for projects and applicants, and application forms and associated instructions needed to apply for an AFRP grant.

## Table of Contents

PART I—FUNDING OPPORTUNITY DESCRIPTION .....	4
A. Legislative Authority and Background .....	4
B. Purpose and Priorities .....	4
C. Program Area Description .....	4
PART II—AWARD INFORMATION .....	7
A. Available Funding .....	7
B. Types of Applications .....	7
C. Project Types .....	8
D. Responsible and Ethical Conduct of Research .....	8
PART III—ELIGIBILITY INFORMATION .....	9
A. Eligible Applicants .....	9
B. Cost Sharing or Matching .....	9
PART IV—APPLICATION AND SUBMISSION INFORMATION .....	11
A. Electronic Application Package .....	11
B. Content and Form of Application Submission .....	12
C. Submission Dates and Times .....	18
D. Funding Restrictions .....	19
E. Other Submission Requirements .....	19
PART V—APPLICATION REVIEW REQUIREMENTS .....	20
A. General .....	20
B. Evaluation Criteria .....	20
C. Conflicts of Interest and Confidentiality .....	21
D. Organizational Management Information .....	21
E. Application Disposition .....	22
PART VI—AWARD ADMINISTRATION .....	23
A. General .....	23
B. Award Notice .....	23
C. Administrative and National Policy Requirements .....	23
D. Expected Program Outputs and Reporting Requirements .....	23
PART VII—AGENCY CONTACT .....	24
PART VIII—OTHER INFORMATION .....	25
A. Use of Funds; Changes .....	25
B. Confidential Aspects of Applications and Awards .....	26
C. Regulatory Information .....	26
D. Definitions .....	26
E. Materials Available on the Internet .....	26

## **PART I—FUNDING OPPORTUNITY DESCRIPTION**

### **A. Legislative Authority**

The authority for this program is contained in 7 USC 5925(d) (8): High-priority research and extension initiatives.

### **B. Purpose and Priorities**

Alfalfa is essential to sustainable agricultural production systems and is an economic engine for rural communities. Value for soil conservation, nitrogen fixation, energy savings, crop rotation benefits, and wildlife habitat is high. However, to provide these societal benefits, the production of alfalfa must be profitable to farmers through market outlets so they will be willing to maintain or expand the use and acreage of alfalfa.

Alfalfa Forage and Research Program (AFRP) is aligned with the USDA Strategic Goals (<https://www.usda.gov/our-agency/about-usda/strategic-goals>) and specifically addresses Goal 2, Goal 5 and Goal 7. It also aligns with the USDA Research, Education, and Extension Action Plan (<https://nifa.usda.gov/resource/usda-strategic-plan-fy-2014-2018>) and specifically addresses Goal 1, Subgoals 1A, 1B, and 1C; and Goal 2, Subgoal 2A. In addition, AFRP is aligned with the NIFA Strategic Plan ([http://nifa.usda.gov/about/pdfs/strat\\_plan\\_2014.pdf](http://nifa.usda.gov/about/pdfs/strat_plan_2014.pdf)) and specifically addresses Strategic Goal 1, Subgoal 1.1, and Subgoal 1.3.

### **C. Program Area Description**

The Alfalfa Forage and Research Program (AFRP) is an alfalfa-oriented, integrated research and extension program that supports technology transfer to improve overall agricultural productivity, profitability, and conservation of natural resources through conventional and organic forage and seed production systems. The AFRP encourages applicants to establish interdisciplinary and multi-location regional research and extension networks to address national priorities or regional science needs of the U.S. alfalfa forage industry. By bringing together expertise across multiple university, federal agency, and industry organizations and states, AFRP projects seek to enhance the effectiveness of limited state, federal, and industry resources and so produce greater long-lasting impacts.

In FY 2018, AFRP will support the development of improved alfalfa forage and seed production systems, practices, and supporting technologies. NIFA is soliciting applications for the FY 2018 under the following areas:

1. Increase alfalfa forage and seed yields and forage quality through improved management practices, plant breeding, and other strategies to reduce biotic and abiotic stresses and costs of production.
2. Improve alfalfa forage and seed harvest and storage systems to optimize economic returns to alfalfa producers as well as end-users including milk producers.
3. Develop methods to estimate alfalfa forage yield and quality to support marketing as a livestock feed and instruments to reduce producer risks.
4. Explore new uses for alfalfa such as in fish feeds, nutritive supplements, high-value chemical manufacturing, or other novel uses.

5. Conduct life cycle analysis for all or a part of an alfalfa production system for enhancing field to market opportunities.

**Identification of Program Area:** You must specify in the introductory part of the narrative which of the five areas above are addressed by your proposal. If multiple areas are covered, provide an estimate of the percentage of effort/funds dedicated to each with the sum of percentages equaling 100 percent.

**Regional Collaboration:** AFRP projects must integrate research and extension objectives and represent a collaboration of at least two states within the same region (see table.) Regional balance and involvement of new investigators may be taken into consideration during the proposal review process.

### Region

#### Western

Alaska  
 Arizona  
 California  
 Colorado  
 Hawaii  
 Idaho  
 Montana  
 Nevada  
 New Mexico  
 Oregon  
 Utah  
 Washington  
 Wyoming

#### Central

Arkansas  
 Iowa  
 Kansas  
 Louisiana  
 Minnesota  
 Missouri  
 Nebraska  
 North Dakota  
 Oklahoma  
 South Dakota  
 Texas

#### Eastern

Alabama  
 Connecticut  
 Delaware  
 Florida  
 Georgia  
 Illinois  
 Indiana  
 Kentucky  
 Maine  
 Maryland  
 Massachusetts  
 Michigan  
 Mississippi  
 New Hampshire  
 New Jersey  
 New York  
 North Carolina  
 Ohio  
 Pennsylvania  
 Rhode Island  
 South Carolina  
 Tennessee  
 Vermont  
 Virginia  
 West Virginia  
 Wisconsin

Proposals must include stakeholder input in priority setting, project development and implementation, and pursue national coordination of alfalfa research. Applicants are encouraged to provide evidence, as appropriate, of interdisciplinary, multi-state cooperation and use the expertise and resources of land-grant and other colleges and universities, Federal agencies, and private industry.

**Management Plan:** Applications must provide a Management Plan that describes public access to the research results (see Management Plan Section IV.B.c.). For NIFA-funded projects in the areas of plant breeding, genetics, and genomics a description and budget plan for the public release of and access to research results (e.g., data, germplasm, cultivars, and genetic resources) will need to be compliant with the award *Terms and Conditions*. The terms and conditions can be found at: [https://nifa.usda.gov/sites/default/files/resource/NIFA%20Grant\\_Cooperative%20Agreement%20General%20Terms%20Oct%202016.pdf](https://nifa.usda.gov/sites/default/files/resource/NIFA%20Grant_Cooperative%20Agreement%20General%20Terms%20Oct%202016.pdf). The following sections are particularly relevant: Genetic Resources from Outside of the U.S ; Patents and Inventions including Plant Variety Protection (pages 6-8); and Release of Animal or Plant Genome Sequence Data and Distribution of Animal or Plant Genomic Resources, and the Release or Distribution of Plant Germplasm.

**Information Dissemination Plan:** The projects must include well-defined information dissemination and extension activities that specify your target audience including individuals, market segments, communities, or other customer or stakeholder groups that will be served by the project. Such engagement efforts must include a detailed plan and schedule for how science-based knowledge and technology will be delivered through formal or informal educational programs such as workshops, field days, and other extension, outreach, and engagement activities, as well as published documents including bulletins, extension guides, germplasm or variety releases, licensing agreements, or on-line media.

**Technology Readiness Level:** Applicants are expected to report the readiness status for commercial use of information or technology components developed through this program for use by growers, seed companies, hay and feed suppliers, or other production system or end-product supply chain participants. As applicable, the readiness status must be reported for the beginning of the project, by identifying information or technology components towards the market place, and the expected advancement by the end of the project. Proposed accomplishments should be described by documenting progress from one technology readiness level (TRL) tollgate to another. See Crop Research TRL worksheet at: <https://nifa.usda.gov/program/agronomic-forage-crops-program>.

**Project Directors Workshop:** It is the intent of the AFRP to require successful applicants to attend at least one Project Director (PD) meeting during the term of their project. The PD meeting may be held in conjunction with other related grant programs, professional scientific, or alfalfa industry meetings, or may be held in NIFA's offices in Washington, DC. For budget development purposes, applicants are required to request funds for attendance to at least one such specified PD meeting (see Part IV, B, 6).

NIFA encourages (but does not require) Integrated Projects that develop content suitable for delivery through eXtension (<https://extension.org/>).

## **PART II—AWARD INFORMATION**

### **A. Available Funding**

The anticipated amount available for AFRP grants in FY 2018 is approximately \$2.1 million. This RFA is being released prior to the passage of an appropriations act for FY 2018. Enactment of additional continuing resolutions or an appropriations act may affect the availability or level of funding for this program.

The total project budget cannot exceed a maximum of \$300,000 including indirect costs for the entire two to three year project period.

There is no commitment by USDA to fund any particular application or to make a specific number of awards.

The Automated Standard Applications for Payment System (ASAP), operated by the Department of Treasury's Bureau of the Fiscal Service, is the designated payment system for awards resulting from this RFA. For more information see

[https://www.fiscal.treasury.gov/fsservices/gov/pmt/asap/asap\\_home.htm](https://www.fiscal.treasury.gov/fsservices/gov/pmt/asap/asap_home.htm).

### **B. Types of Applications**

In FY 2018, you may submit applications to the AFRP Program as one of the following types of requests:

**New application.** This is a project application that has not been previously submitted to the AFRP Program. We will review all new applications competitively using the screening for administrative requirements, review panel evaluation of proposals using evaluation criteria and selection process described in Part V—Application Review Requirements.

**Renewal application.** This is a project application that requests additional funding for a project beyond the period that was approved in an original or amended award. Applications for renewed funding must contain the same information as required for new applications; they also must contain a Progress Report (see Project Narrative, Part IV). We must receive renewal applications by the relevant due dates. We will evaluate renewal applications in competition with other pending applications in the area to which they are assigned and review them according to the same evaluation criteria (Part V, B) as new applications. If you are submitting a renewal application, enter the NIFA-assigned award number of the previously-funded application in the Federal field (Field 4 on the form).

**Resubmitted application.** This is an application that had previously been submitted to the NIFA but not funded. Project Directors (PDs) must respond to the previous review panel summary (see Response to Previous Review, Part IV). We must receive resubmitted applications by the relevant due dates. We will evaluate resubmitted applications in competition with other pending applications in the appropriate area to which they are assigned and review them according to the same evaluation criteria (Part V, B) as new applications. If you are submitting a resubmission application, enter the NIFA-assigned proposal number of the previously-submitted application in the Federal field (Field 4 on the form).

## **C. Project and Grant Types**

### **1. Project Types**

Only projects that integrate research and extension objectives will be considered. Projects must include collaborations among at least two states, with a minimum of two states being from the same region (See Table, Part I C). The total project budget cannot exceed a maximum of \$300,000 including indirect costs for the entire project period. Applications may request a project period between two to three years.

### **2. Grant Types**

The following is a list of available grant types under this RFA.

(a) Standard. This is an award instrument by which NIFA agrees to support a specified level of effort for a predetermined project period without the announced intention of providing additional support at a future date.

(b) Renewal. This is an award instrument by which NIFA agrees to provide additional funding under a standard award as specified in paragraph (b)(1) of this section for a project period beyond that approved in an original or amended award, provided that the cumulative period does not exceed any statutory time limitation of the award.

## **D. Responsible and Ethical Conduct of Research**

In accordance with sections 2, 3, and 8 of 2 CFR Part 422, institutions that conduct USDA-funded extramural research must foster an atmosphere conducive to research integrity, bear primary responsibility for prevention and detection of research misconduct, and maintain and effectively communicate and train their staff regarding policies and procedures. In the event an application to NIFA results in an award, the Authorized Representative (AR) assures, through acceptance of the award that the institution will comply with the above requirements. Award recipients shall, upon request, make available to NIFA the policies, procedures, and documentation to support the conduct of the training. See <http://nifa.usda.gov/responsible-and-ethical-conduct-research> for more information.

## **PART III—ELIGIBILITY INFORMATION**

### **A. Eligible Applicants**

Applications may only be submitted by (1) State agricultural experiment stations; (2) Colleges and universities; (3) University research foundations; (4) Other research institutions and organizations; (5) Federal agencies; (6) National laboratories; (7) Private organizations or corporations; (8) Individuals who are United States citizens or nationals; or (9) A group consisting of two or more of the entities described in (1) through (8). Award recipients may subcontract to organizations not eligible to apply provided such organizations are necessary for the conduct of the project. Failure to meet an eligibility criterion by the application deadline may result in the application being excluded from consideration or, even though an application may be reviewed, will preclude NIFA from making an award.

### **B. Cost Sharing or Matching**

In accordance with Section 1492 of the National Agricultural Research, Extension, and Teaching Policy Act of 1977 (7 U.S.C. 3371), as added by section 7128 of the Agricultural Act of 2014 (Pub. L. 113-79), for grants awarded after Oct. 1, 2014, the recipient of an award from the AFRP program must provide funds, in-kind contributions, or a combination of both, from sources other than funds provided through such grant in an amount that is at least equal to the amount awarded by NIFA unless one of the exemptions described herein is applicable. Note that NIFA included information at [http://www.nifa.usda.gov/business/awards/matching\\_require.html](http://www.nifa.usda.gov/business/awards/matching_require.html) to further assist you in determining if you must meet the new matching requirement.

The matching funds requirement does not apply to grants awarded:

1. To a research agency of the U.S. Department of Agriculture (USDA); or
2. To an entity eligible to receive funds under a capacity and infrastructure program (as defined in section 251(f)(1)(C) of the Department of Agriculture Reorganization Act of 1994, 7 U.S.C. 6971(f)(1)(C)), including a partner (see Part VIII, D., Definitions, for definition of partnership) of such an entity.

Entities eligible to receive funds under a capacity and infrastructure program and exempt from the matching funds requirement include:

- a. 1862 land-grant institutions, including State Agricultural Experiment Stations receiving funding under the Hatch Act of 1887;
- b. 1890 land-grant institutions;
- c. 1994 land-grant institutions;
- d. Entities eligible to receive funds under the of Continuing Animal Health and Disease, Food Security, and Stewardship Research, Education, and Extension Program Funds — Capacity and Infrastructure Program (CIP);
- e. Hispanic-Serving Agricultural Colleges and Universities (HSACU);
- f. Insular area schools eligible to receive funds from the Distance Education/Resident Instruction Grant Programs;

- g. Entities eligible to receive funds under the of McIntire-Stennis Cooperative Forestry Program Funds;
- h. Non-Land Grant Colleges of Agriculture (NLGCA) – (for exemption from the new matching requirement, these applications must include NLGCA certification, see instructions for requesting certifications at <http://www.nifa.usda.gov/form/form.html> and for attaching the certification, in Part IV, B of this RFA);
- i. Entities eligible to receive funds under a program established under Section 1417(b) of the National Agricultural Research, Extension, and Teaching Policy Act of 1977 (7 U.S.C. 3152(b)), including: (1) 1890 Institution Teaching, Research, and Extension Capacity Building Grants Program; (2) Higher Education Challenge Grants Program; (3) Higher Education Multicultural Scholars Program; and (4) Food and Agricultural Sciences National Needs Graduate and Postgraduate Fellowship Grants Program; and
- j. Individual public or private, nonprofit Alaska Native-Serving and Native Hawaiian-Serving Institutions of higher education (see 20 U.S.C. 1059d).

Proposal submissions to this RFA may indicate that multiple entities will complete work as a collaborative partnership. All partners must have a substantial involvement in the project throughout the life of the project. Proposals for partnerships among multiple entities must clearly identify the following:

- 1) A narrative that clearly establishes each entity’s role in the project;
- 2) How each project partner will contribute to execution of project objectives; determine experimental design; develop the project work plan and time table; and submit collaborative, timely reports; and
- 3) A comprehensive project budget that reflects each entity’s financial or third party in-kind contribution (see section 2 of 7 CFR 3430 or section 96 of 2 CFR part 200) to the total project budget costs.

If a proposal indicates that multiple entities, as partners, complete work on the project, and at least one entity is exempt from the matching requirement under #2 above, the entire project will be exempt from the matching requirement. Any partner entity may serve as the lead entity on the project. All partners must be significantly involved in the project.

NIFA will examine proposals recommended for award to determine if the proposed division of work reflects substantial involvement of all entities involved. If a proposal is recommended for award to a lead entity that is not otherwise exempt from the matching requirement, and the proposal does not reflect substantial involvement of at least one partner that is exempt under #2 above, then the matching requirement will apply. Exemption from the matching requirement for an entity not otherwise exempt is limited to the project for which it is a partner.

Waiver of Match: NIFA may waive the matching funds requirement for a recipient for one year for a competitive grant that involves research or extension activities that are consistent with the priorities established by the National Agricultural Research, Education, Extension and Economics Advisory Board (NAREEEAB) for the year involved. Refer to the [2014 Research, Education and Economics Action Plan](#) to determine whether proposed activities are consistent with the priorities of the NAREEEAB. See R&R Budget under Part IV, B, of this RFA.

## **PART IV—APPLICATION AND SUBMISSION INFORMATION**

### **A. Electronic Application Package**

Only electronic applications may be submitted via Grants.gov to NIFA in response to this RFA. We urge you to submit early to the Grants.gov system. For information about the pre-award phase of the grant lifecycle see <http://www.grants.gov/web/grants/learn-grants/grants-101/pre-award-phase.html>.

#### **New Users of Grants.gov**

Prior to preparing an application, we recommend that the Project Director/Principal Investigator (PD/PI) first contact an Authorized Representative (AR, also referred to as Authorized Organizational Representative, or AOR) to determine if the organization is prepared to submit electronic applications through Grants.gov. If not (e.g., the institution/organization is new to the electronic grant application process through Grants.gov), then the one-time registration process must be completed **PRIOR** to submitting an application. It can take as long as two weeks to complete the registration process so it is critical to begin as soon as possible. In such situations, the AR should go to **“Register,” in the top right corner of the Grants.gov web page (or go to <http://www.grants.gov/web/grants/register.html>), for information on registering the institution/organization with Grants.gov.** Part II,1 of the NIFA Grants.gov Application Guide contains detailed information regarding the registration process. Refer to item 2, below, to locate the “NIFA Grants.gov Application Guide.”

#### **Steps to Obtain Application Package Materials**

To receive application materials:

1. You must download and install a version of [Adobe Reader](#) compatible with Grants.gov to access, complete, and submit applications. For basic system requirements and download instructions, see <http://www.grants.gov/web/grants/applicants/adobe-software-compatibility.html>. Grants.gov has a test package that will help you determine whether your current version of Adobe Reader is compatible.
2. To obtain the application package from Grants.gov, go to <http://www.grants.gov/web/grants/applicants/download-application-package.html> and enter the funding opportunity number where appropriate

#### **Funding Opportunity Number: USDA-NIFA-OP-006532**

Click “Search.” On the displayed page, click the corresponding link to continue. A Grant Application Package is tied to a particular funding opportunity. You may submit an application **ONLY** to the particular funding opportunity to which the Grant Application Package is associated.

Contained within the application package is the “NIFA Grants.gov Application Guide.” This guide contains an introduction and general Grants.gov instructions, information

about how to use a Grant Application Package in Grants.gov, and instructions on how to complete the application forms.

**If you require assistance to access the application package** (e.g., downloading or navigating Adobe forms) **or submitting the application**, refer to resources available on the Grants.gov website (<https://www.grants.gov/web/grants/support.html>). Grants.gov assistance is also available at:

Grants.gov customer support

800-518-4726 Toll-Free or 606-545-5035

Business Hours: 24 hours a day, 7 days a week. Closed on [federal holidays](#).

Email: [support@grants.gov](mailto:support@grants.gov)

Grants.gov iPortal (see <https://grants-portal.psc.gov/Welcome.aspx?pt=Grants>):

Top 10 requested help topics (FAQs), Searchable knowledge base, self-service ticketing and ticket status, and live web chat (available 7 a.m. - 9 p.m. EST).

Have the following information available when contacting Grants.gov:

- Funding Opportunity Number (FON)
- Name of agency you are applying to
- Specific area of concern

## **B. Content and Form of Application Submission**

Electronic applications are to be prepared following Parts V and VI of the NIFA Grants.gov Application Guide. This guide is part of the corresponding application package (see Section A of this part). The following is **additional information** you need to prepare an application in response to this RFA. **If there is discrepancy between the two documents, the information contained in this RFA is overriding.**

**Note the attachment requirements (e.g., PDF) in Part III, Section 3 of the guide. ANY PROPOSALS THAT ARE NON-COMPLIANT WITH THE REQUIREMENTS (e.g., content format, PDF file format, file name restrictions, and no password protected files) WILL BE AT RISK OF BEING EXCLUDED FROM NIFA REVIEW. Grants.gov does not check for NIFA required attachments or whether attachments are in PDF format; see Part III, Section 6.1 of the guide for how to check the manifest of submitted files. Partial applications will be excluded from NIFA review. We will accept subsequent submissions of an application until close of business on the closing date in the RFA (see Part V, 2.1 of the NIFA Grants.gov Application Guide for further information).**

**For any questions related to the preparation of an application**, review the NIFA Grants.gov Application Guide and the applicable RFA. If assistance is still needed for preparing application forms content, contact:

- Email: [electronic@nifa.usda.gov](mailto:electronic@nifa.usda.gov)
- Phone: 202-401-5048
- Business hours: Monday through Friday, 7 a.m. – 5 p.m. EST, excluding [federal holidays](#).

### **1. SF 424 R&R Cover Sheet**

Information related to the questions on this form is dealt with in detail in Part V, 2 of the NIFA Grants.gov Application Guide. See Part V, Section 2.18 of the NIFA Grants.gov Application

Guide for the required certifications and assurances (e.g., Prohibition Against Entities Requiring Certain Internal Confidentiality Agreements).

## **2. SF 424 R&R Project/Performance Site Location(s)**

Detailed information related to the questions on this form is available in Part V, 3 of the NIFA Grants.gov Application Guide.

## **3. R&R Other Project Information Form**

Detailed information related to the questions on this form is available in Part V, 4 of the NIFA Grants.gov Application Guide.

### **a. Field 7. Project Summary/Abstract.**

The summary should also include the relevance of the project to the goals of AFRP. See Part V. 4.7 of NIFA Grants.gov Application Guide for further instructions and a link to a suggested template.

### **b. Field 8. Project Narrative.**

NOTE: The Project Narrative shall not exceed 18 pages of written text and up to three additional pages for figures and tables. We have established this maximum (18 pages) to ensure fair and equitable competition. The Project Narrative must include all of the following:

- i. Introduction. First identify which of the five program areas you are applying for and the % of your project in each area. Clearly state the high priority need of the alfalfa industry, who will benefit and how they will benefit, and the research goals. Summarize the body of knowledge or other past activities related to your proposed research, citing the work of key project personnel or others that is relevant to the project. Preliminary data or information pertinent to the proposed research should be included in this section. Describe the qualifications of key personnel, adequacy of facilities, and the project management capability of the applicant institution.
- ii. Rationale and Significance. Concisely present the rationale behind the proposed research as it relates to alfalfa forage or seed production. This section should address:
  - The priority-setting process and method of engaging stakeholder involvement in problem identification, planning, implementation of the research, evaluation, and utilization of results.
  - Describe any coordination of the research in national or regional efforts, and how this research complements other work conducted by land-grant and other universities, Federal agencies, and industry.
  - Discuss novel ideas or contributions that the proposed project offers.
  - For renewal applications, this section should include a progress report as described in section vii.
- iii. Objectives: Include a list of project objectives.
- v. Approach. Describe how you will address each stated objective. Include in your approach:

- Methods to be used in carrying out the research and extension components.
  - Means by which results will be analyzed, assessed, and interpreted.
  - A detailed description of how you will communicate your findings and transfer technologies to intended users (Information Dissemination Plan).
  - A clear description of each team members' role and responsibility to the project.
  - For the entire project, a timeline that outlines all important phases as a year-by-year function of time, including periods beyond the grant funding period.
- iv. Expected outcomes and benefits. Projects must include a clear description of the expected accomplishments, and how research's progress and benefits (outputs and outcomes) will be tracked and measured. This section can include:
- Anticipated specific uses for your results or products.
  - Specific changes in knowledge about alfalfa forage or seed crops and their performance that will directly result from your research. Also, present status and expected advancement of information or technology components towards the market place measured as technology readiness level (TRL).
  - Performance measures such as number of new alfalfa acres planted, increased seed sales, relative changes in land use, enhanced sustainability of production systems, or change in market share.
  - Estimated increases in profit or risk reductions from growing alfalfa, or other quantitative measures of impact in crop or livestock production.
  - Describe the potential long-term benefits of utilizing the new technology based on current knowledge and practice, and the estimated impact on the alfalfa industry and American agriculture.
- vi. This requirement only applies to Resubmitted Applications as described in Part II, B. The Project Narrative attachment is to include two components: 1) a one-page response to the previous review (containing the previous proposal number in the first line) titled "Response to Previous Review" as the first page of the attachment and 2) the 18 page Project Narrative, as required (see Part IV, C. 3. b., above). The one-page "Response to Previous Review" does not count against the 18-page limit of the Project Narrative.
- vii. This requirement only applies to Renewal Application (see Part II B). Renewal applications must provide a progress report within section two of the Project Narrative, detailing, for each objective of the original project award: (1) project activities, both completed and continuing; (2) results and outputs from those activities; and (3) significant outcomes and impacts. The report should be embedded into the project narrative and not bring the narrative to more than the maximum 18 pages. There are no extra pages given for the progress report. Additionally, please include the NIFA proposal number or award number from the original project.

**NOTE:** Appendices to the Project Narrative are allowed if they are directly germane to the proposed project. Do not add appendices to circumvent the page limit.

### **c. Field 12. Add Other Attachments**

See Part V. Section 4.12 of the NIFA Grants.gov Application Guide (Field 12 on the form) for instructions regarding mandatory Felony Convictions or Tax Delinquent Status.

**Non-Land Grant College of Agriculture (NLGCA) Certification.** If you claim exemption from the new matching requirements as a NLGCA, then you must attach the NLGCA certification letter you requested and received from NIFA. Title the attachment ‘NLGCA Certification’ and save the file as ‘NLGCACertification.’ To request certification as an NLGCA, complete the form at <http://www.nifa.usda.gov/form/form.html>. Note that certification can take up to 30 days from submission of request form. **See Part III Section 3.1 of the NIFA Grants.gov Application Guide for NIFA attachment specifications.**

**Technology Readiness Level (TRL) (Mandatory filled form, in addition to project narrative):** It is mandatory that applicants include information on the readiness status for commercial use of information or technology components developed through this program. Each project is required to submit a project level technology readiness table in addition to individual readiness levels for each technology the project addresses. In addition, the technology development will be paired with outcomes that will create a full project view of the commercial value of the project’s objectives. Details on how this information is required to be formatted can be found within the Crop Research TRL Worksheet, available on the NIFA website: <https://nifa.usda.gov/program/agronomic-forage-crops-program>.

**Management Plan (including Data Management Plan) (Mandatory, 1-2 pages, in addition to project narrative):** The management plan is to be clearly articulated and include an organizational chart, administrative timeline, and a description of how the project will be governed, as well as a strategy to enhance coordination, collaboration, communication, and data sharing and reporting among members of the project team. The plan must also address how the project will be sustained beyond termination of an award, if relevant.

The management plan should describe how the quality, expected measurable outcomes, and potential impacts for the proposed research, education and/or extension will be evaluated. Please include rationale for each role, and how the individual will function effectively to support the goals and objectives of the project. The plan must demonstrate how partners contribute to project assessment.

In addition, applications must provide a description and budgeted plan for releasing germplasm, cultivars, or other genetic resources that is compliant with the [\*Research Terms and Conditions\*](#) that govern NIFA-funded projects in the areas of plant breeding, genetics and genomics. The terms and conditions can be found at:

[www.nsf.gov/pubs/policydocs/rtc/agencyspecifics/nifa\\_1014.pdf](http://www.nsf.gov/pubs/policydocs/rtc/agencyspecifics/nifa_1014.pdf). The following sections are particularly relevant: Genetic Resources from Outside of the U.S (page 5); Patents and Inventions including Plant Variety Protection (pages 6-8); and Release of Animal or Plant Genome Sequence Data and Distribution of Animal or Plant Genomic Resources, and the Release or Distribution of Plant Germplasm (pages 10-12).

The plan should describe the data management (DM) as well. It should clearly articulate how the project director (PD) and co-PDs plan to manage and disseminate data generated by the project. This includes the type of data, its format, how it will be stored and shared and who is responsible to ensure these items.

- a. **Expected Data Type:** Describe the type of data (e.g. digital, non-digital) and how they will be generated (lab work, field work, surveys, etc.). Are these primary or metadata?
- b. **Data Format:** For scientific data to be readily accessible and usable it is critical to use an appropriate community-recognized standard and machine readable formats when they exist. The data should preferentially be stored in recognized public databases appropriate for the type of research conducted. Regardless of the format used (notebook, samples, images, spreadsheet, etc.), that data set should contain enough information to allow independent investigators to understand, validate, and use the data.
- c. **Data Storage and Preservation:** Applicants should outline strategies, tools, and contingency plans that will be used to avoid data loss, degradation, or damage during the project and long term.
- d. **Data Sharing and Public Access:** Describe your data access and sharing procedures during and after the grant. Provide any restrictions such as copyright, confidentiality, patent, appropriate credit, disclaimers, or conditions for use of the data by other parties.
- e. **Roles and Responsibilities:** Who will ensure implementation? This is particularly important for multi-investigator and multi-institutional projects. Provide a contingency plan in case key personnel leave the project. Also, what resources will be needed for the DMP? If funds are needed, have they been added to the budget request and budget narrative? Projects must budget sufficient resources to develop and implement the proposed DMP.

#### **4. R&R Senior/Key Person Profile (Expanded)**

Detailed information related to the questions on this form is available in Part V, 5 of the NIFA Grants.gov Application Guide. This section of the guide includes instructions about senior/key person profile requirements, and details about the biographical sketch and the current and pending support, including a link to a suggested template for the current and pending support.

**5. R&R Personal Data** – As noted in Part V, 6 of the NIFA Grants.gov Application Guide, the submission of this information is voluntary and is not a precondition of award. Part V.6 also notes the importance and use of the information. However, NIFA strongly recommends applicants to provide the requested information to help NIFA identify and address any inequities based on gender, race, ethnicity, or disability of its proposed PDs/PIs and co-PDs/PIs. Information not submitted will seriously undermine the statistical validity, and therefore the usefulness, of information received from others. The information you submit will be kept confidential and will be used only for tracking and statistical purposes necessary to meet the demands of the agency and will not be part of the review process.

## **6. R&R Budget**

Detailed information related to the questions on this form is available in Part V, 7 of the NIFA Grants.gov Application Guide.

### Matching Funds

If you conclude that matching funds are not required as specified under Part III, B Cost-Sharing or Matching, you must include an explanation for your conclusion in the Budget Justification. We will consider this justification when determining final matching requirements or if required matching can be waived. NIFA retains the right to make final determinations regarding matching requirements.

For grants that require matching funds as specified under Part III, B, the Budget Justification must list matching sources along with the identification of the entity(ies) providing the match as well as the total dollar amount being pledged. NIFA is no longer requiring written verification of commitments of matching support (a pledge agreement). However, you are still subject to documentation, valuing and reporting requirements, etc. as specified in 2 CFR Part 200, “Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards (the Uniform Guidance),” 7 CFR 3430, “Competitive and Noncompetitive Non-Formula Federal Assistance Programs – General Award Administrative Provisions,” and program-specific regulations, as applicable. In instances where match is required, any resulting award will require the signature of an Authorized Representative. Only when NIFA receives the award signed by the AR will award funds be released and available for drawdown.

You must establish the value of applicant contributions in accordance with applicable cost principles. Refer to 2 CFR Part 200, “Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards (the Uniform Guidance),” for further guidance and other requirements relating to matching and allowable costs.

### Indirect Costs

For further information and instructions regarding indirect costs, refer to Part V, section 7.9 of the NIFA Grants.gov Application Guide. For indirect cost funding restrictions, refer to Part IV, D. of this RFA.

### Project Director Workshop

The AFRP requires successful applicants or a designee to attend at least one project director workshop during the term of their project. For the purposes of budget development, applicants are required to request funds for travel for attending at least one such workshop. The request for these funds should be clearly indicated in the budget narrative section of the application.

## **7. Supplemental Information Form**

Detailed information related to the questions on this form is available in Part VI, 1 of the NIFA Grants.gov Application Guide.

- a. Field 2. Program to which you are applying.** Enter the program code name (i.e., enter “**Alfalfa and Forage Research Program**”) and the program code (i.e., enter “**AFRP**”). Note

that accurate entry of the program code is very important for proper and timely processing of an application.

- b. Field 8. Conflict of Interest List.** See Part VI, 1.8 of the NIFA Grants.gov Application Guide for further instructions and a link to a suggested template.

### **C. Submission Dates and Times**

We recommend that you conduct an administrative review of the application before submission of it via Grants.gov to ensure that it complies with all preparation instructions. An application checklist is included in Part VII of the NIFA Grants.gov Application Guide to assist with this review.

This is not an exhaustive list of required items; it only serves to highlight items that are often overlooked. The checklist should be used in addition to this to ensure your application is complete. Please double check you have included the following items:

- Crop Research Technology Readiness Level (TRL) description of information and technology advancement
- Management Plan
- Current and Pending Support forms for each PD and Co-PD
- Progress Report (for renewal applications only, integrated within project narrative)
- Signed Tax and Felony Certification Form

**Instructions for submitting an application are included in Part IV, Section 1.9 of the NIFA Grants.gov Application Guide.**

Applications must be received by Grants.gov by **5 p.m. Eastern Time on April 18, 2018**. Applications received after this deadline will normally not be considered for funding.

**If you have trouble submitting an application to Grants.gov, you should FIRST contact the Grants.gov Help Desk to resolve any problems. Keep a record of any such correspondence. See Part IV. A for Grants.gov contact information.**

We send email correspondence to the AR regarding the status of submitted applications. We strongly encourage you to provide accurate email addresses, where designated, on the SF-424 R&R Application for Federal Assistance.

If the AR has not received correspondence **from NIFA** regarding a submitted application within 30 days of the established deadline, contact the Agency Contact identified in Part VII of the RFA and request the proposal number assigned to the application. **Failure to do so may result in the application not being considered for funding by the peer review panel. Once the application has been assigned a proposal number, you should cite this number on all future correspondence.**

## **D. Funding Restrictions**

Section 713 of the Consolidated Appropriations Act, 2017 (Pub. L. 115-31) limits indirect costs to 30 percent of the total federal funds provided (or 42.857 percent of total direct costs) under each award. Similar language may be included in the FY 2018 appropriation, therefore, when preparing budgets, you should limit your request for the recovery of indirect costs to the lesser of your institution's official negotiated indirect cost rate or the equivalent of 30 percent of total Federal funds awarded. See Part V section 7.9 of the NIFA Grants.gov Application Guide for further indirect cost information.

You may not use grant funds awarded under this authority to renovate or refurbish research, education, or extension space; purchase or install fixed equipment in such space; or the plan, repair, rehabilitate, acquire, or construction of buildings or facilities.

## **E. Other Submission Requirements**

**You should follow the submission requirements noted in Part IV, Section 1.9 in the document entitled “NIFA Grants.gov Application Guide.”**

For information about the **status of a submitted application**, see Part III, Section 6 of the NIFA Grants.gov Application Guide.

## **PART V—APPLICATION REVIEW REQUIREMENTS**

### **A. General**

We evaluate each application in a two-part process. First, we screen each application to ensure that it meets the administrative requirements as set forth in this RFA. Second, a technical review panel will evaluate applications that meet the administrative requirements.

We select reviewers based upon their training and experience in relevant scientific, extension, or education fields, taking into account the following factors:

- the level of relevant formal scientific, technical education, or extension experience of the individual, as well as the extent to which an individual is engaged in relevant research, education, or extension activities;
- the need to include experts from various areas of specialization within relevant scientific, education, or extension fields;
- the need to include other experts (e.g., producers, range or forest managers/operators, and consumers) who can assess relevance of the applications to targeted audiences and to program needs;
- the need to include experts from a variety of organizational types (e.g., colleges, universities, industry, state and federal agencies, and private profit and non-profit organizations) and geographic locations;
- the need to maintain a balanced composition with regard to minority and female representation and an equitable age distribution; and
- the need to include reviewers who can judge the effective usefulness of each application to producers and the general public.

After each peer review panel has completed its deliberations, the responsible program staff of AFRP will recommend that your project be approved for support from currently available funds or be declined due to insufficient funds or unfavorable review.

AFRP reserves the right to negotiate with the PD/PI and/or with the submitting organization or institution regarding project revisions (e.g., reductions in the scope of work, funding level, period, or method of support) prior to recommending any project for funding.

We will send copies of reviews, *not* including the identity of reviewers, and a summary of the panel comments to the PD after the review process has been completed.

### **B. Evaluation Criteria**

A reviewer's written evaluation entails two levels of assessment. First, the reviewer summarizes how well the application addressed each evaluation criterion. After the application has been assessed for strengths and weaknesses of each criterion, the reviewer then evaluates the overall likelihood that the project will have significant outcome and impact. These written reviews are used to begin panel discussions with other reviewers serving on the peer review panel. Through these discussions, peer review panelists come to consensus on the final rating and ranking of proposals. A complete description of NIFA's peer review process can be found at the NIFA

website: [https://nifa.usda.gov/sites/default/files/resource/NIFA-Peer-Review-Process-for-Competitive-Grant-Applications\\_0.pdf](https://nifa.usda.gov/sites/default/files/resource/NIFA-Peer-Review-Process-for-Competitive-Grant-Applications_0.pdf)

1. Conceptual adequacy (20 points). Application clearly states which research area(s) of alfalfa forage or seed production systems is/are to be addressed, and the specified objectives are relevant to RFA purpose and priorities and potentially attainable within project time, scope, and budget.
2. Design (40 points). The application's methodologies and analytical approaches are appropriate to project objectives, and effectively integrate the research and extension activities. The application demonstrates understanding of a whole system(s) approach, and discusses how the project will contribute to a part or the whole of an integrated solution to the identified problem. Even if a single component is the focus of the project, the proposal must provide a thorough analysis of the broader systems context for why that component is critical. If the project is a renewal, a clear division between past work and future work should be described (the Crop Research TRL can be used to explain the differences in past and proposed future research.)
3. Appropriate use of a regional, interdisciplinary, and industry-engaged approach (10 points). Application documents the bringing together of needed expertise in biological sciences, physical sciences and engineering, socio-economic sciences, extension, and program evaluation, as well as participation from principal stakeholders and partners. Project goals should address ways to increase the productivity and profitability of alfalfa forage and seed production systems.
4. Outreach plan (20 points). Application includes a detailed Extension-other engagement-outreach plan and schedule for how information, knowledge, and technology will be delivered to those served by the project. A description of how impacts will be measured and reported is included.
5. Overall feasibility and appropriateness of budget (10 points). The likelihood that the project will help maintain or expand the use and acreage of alfalfa grown in the U.S. Budget allocations should reflect the personnel and tasks associated with the activities needed to accomplish your objectives. In the budget plan, describe how this program's funding complements other funding sources including Federal capacity and competitive funds, and state, industry, and other kinds of support.

### **C. Conflicts of Interest and Confidentiality**

During the peer evaluation process, we take extreme care to prevent any actual or perceived conflicts of interest that may impact review or evaluation. See [http://www.nifa.usda.gov/business/competitive\\_peer\\_review.html](http://www.nifa.usda.gov/business/competitive_peer_review.html) for further information about conflicts of interest and confidentiality as related to the peer review process.

### **D. Organizational Management Information**

Specific management information relating to an applicant shall be submitted one-time, with updates on an as-needed basis. This requirement is part of the responsibility determined prior to the award of a grant identified under this RFA, if such information has not been provided previously under this or another NIFA program. We will provide you copies of forms

recommended for use in fulfilling these requirements as part of the pre-award process. Although an applicant may be eligible based on its status as one of these entities, there are factors that may exclude an applicant from receiving federal financial and nonfinancial assistance and benefits under this program (e.g., debarment or suspension of an individual involved or a determination that an applicant is not responsible based on submitted organizational management information).

#### **E. Application Disposition**

An application may be withdrawn at any time before a final funding decision is made regarding the application. Each application that is not selected for funding, including those that are withdrawn, will be retained by AFRP for a period of three years.

## **PART VI—AWARD ADMINISTRATION**

### **A. General**

Within the limit of funds available for such purpose, the NIFA awarding official shall make grants to those responsible, eligible applicants whose applications are judged most meritorious under the procedures set forth in this RFA. The date specified by the NIFA awarding official as the effective date of the grant shall be no later than September 30 of the federal fiscal year in which the project is approved for support and funds are appropriated for such purpose, unless otherwise permitted by law. The project need not be initiated on the grant effective date, but as soon thereafter as practical so that project goals may be attained within the funded project period. All funds granted by NIFA under this RFA may be used only for the purpose for which they are granted in accordance with the approved application and budget, regulations, terms and conditions of the award, applicable federal cost principles, USDA assistance regulations, and NIFA General Awards Administration Provisions at 7 CFR part 3430, subparts A through E.

### **B. Award Notice**

The award document will provide pertinent instructions and information including, at a minimum, the information described in [2 CFR 200.210](#).

See <http://www.nifa.usda.gov/business/awards/awardterms.html> to view current NIFA award terms and conditions.

### **C. Administrative and National Policy Requirements**

Several federal statutes and regulations apply to grant applications considered for review and to project grants awarded under this program. These may include, but are not limited to, the ones listed on the NIFA web page – <http://nifa.usda.gov/federal-regulations>.

NIFA Federal Assistance Policy Guide—a compendium of basic NIFA policies and procedures that apply to all NIFA awards, unless there are statutory, regulatory, or award-specific requirements to the contrary—is available at <http://nifa.usda.gov/policy-guide>.

### **Responsible and Ethical Conduct of Research**

Refer to Part II, D for more information.

### **D. Expected Program Outputs and Reporting Requirements**

The output and reporting requirements are included in the award terms and conditions (see <http://www.nifa.usda.gov/business/awards/awardterms.html> for information about NIFA award terms). If there are any program or award-specific award terms, they will be identified in the award.

Proposal requirement changes: Please note this year progress reports within the proposal for renewal applications will not be allowed extra pages. In addition, a technology readiness level form must be submitted with each project.

## **PART VII—AGENCY CONTACT**

Applicants and other interested parties are encouraged to contact:

Programmatic Contact –

Ann Marie Thro

Title: National Program Leader

Unit: Institute of Food Production and Sustainability

Location: 3192 Waterfront Centre

[Full Address and Directions](#)

Phone: (202) 401-6702

Fax: (202) 401-6156

Email: [athro@nifa.usda.gov](mailto:athro@nifa.usda.gov)

Alternate Programmatic Contact –

Caroline Sherony

Title: Program Specialist

Unit: Plant Production

Location: 3145 Waterfront Centre

[Full Address and Directions](#)

Phone: (202) 401-6030

Fax: (202) 401-6156

Email: [csherony@nifa.usda.gov](mailto:csherony@nifa.usda.gov)

Administrative/Business Contact –

Susan Bowman

Title: Branch Chief

Unit: Awards Management Branch I

Location: 2240 Waterfront Centre

[Full Address and Directions](#)

Phone: (202) 401-4324

Fax: (202) 401-6271

Email: [sbowman@nifa.usda.gov](mailto:sbowman@nifa.usda.gov)

Adriene Woodin

Title: Branch Chief

Unit: Awards Management Branch II

Location: 2182 Waterfront Centre

[Full Address and Directions](#)

Phone: (202) 401-4320

Fax: (202) 401-6271

Email: [awoodin@nifa.usda.gov](mailto:awoodin@nifa.usda.gov)

## **PART VIII—OTHER INFORMATION**

### **A. Use of Funds; Changes**

#### **1. Delegation of Fiscal Responsibility**

Unless the terms and conditions of the award state otherwise, awardees may not in whole or in part delegate or transfer to another person, institution, or organization the responsibility for use or expenditure of award funds.

#### **2. Changes in Budget or Project Plans**

In accordance with [2 CFR 200.308](#), awardees must request prior approval from NIFA for the following program or budget-related reasons:

- (i) Change in the scope or the objective of the project or program (even if there is no associated budget revision requiring prior written approval).
- (ii) Change in a key person specified in the application or the federal award.
- (iii) The disengagement from the project for more than three months, or a 25 percent reduction in time devoted to the project, by the approved project director or principal investigator.
- (iv) The inclusion, unless waived by the federal awarding agency, of costs that require prior approval in accordance with 2 CFR 200 Subpart E—Cost Principles of this part or 45 CFR Part 75 Appendix IX, “Principles for Determining Costs Applicable to Research and Development under Awards and Contracts with Hospitals,” or 48 CFR Part 31, “Contract Cost Principles and Procedures,” as applicable.
- (v) The transfer of funds budgeted for participant support costs as defined in §200.75 Participant support costs to other categories of expense.
- (vi) Unless described in the application and funded in the approved federal awards, the subawarding, transferring or contracting out of any work under a federal award, including fixed amount subawards as described in §200.332 Fixed amount subawards. This provision does not apply to the acquisition of supplies, material, equipment, or general support services.
- (vii) Changes in the approved cost-sharing or matching provided by the non-federal entity.
- (viii) The need arises for additional federal funds to complete the project.

The awardee will be subject to the terms and conditions identified in the award. See <http://www.nifa.usda.gov/business/awards/awardterms.html> for information about NIFA award terms.

## **B. Confidential Aspects of Applications and Awards**

When an application results in an award, it becomes a part of the record of NIFA transactions, available to the public upon specific request. Information that the Secretary of Agriculture determines to be of a confidential, privileged, or proprietary nature will be held in confidence to the extent permitted by law. Therefore, any information that the applicant wishes to have considered as confidential, privileged, or proprietary should be clearly marked within the application. We will retain for three years a copy of an application that does not result in an award. Such an application will be released only with the consent of the applicant or to the extent required by law. An application may be withdrawn at any time prior to the final action thereon.

## **C. Regulatory Information**

This program is not subject to the provisions of Executive Order 12372, which requires intergovernmental consultation with state and local officials.

Under the provisions of the Paperwork Reduction Act of 1995 (44 U.S.C. Chapter 35), the collection of information requirements contained in this notice have been approved under OMB Document No. 0524-0039.

## **D. Definitions**

Refer to [7 CFR 3430, Competitive and Noncompetitive Non-formula Financial Assistance Programs--General Award Administrative Provisions](#), for applicable definitions for this NIFA grant program.

Partnership requires that all partners have a substantial involvement in the project throughout the life of the project. If a partnership between multiple entities is proposed, the proposal must clearly identify the following:

1. A narrative of each entity's clearly established role in the project;
2. How each entity involved as a partner on the project will contribute to execution of project objectives, determine experimental design, develop the project work plan and time table, and submit collaborative, timely reports; and
3. A comprehensive project budget that reflects each entity's financial or in-kind contribution to the total project budget costs.

## **E. Materials Available on the Internet**

AFRP program information is available on the internet in two different places. Specific program information on contacts and RFA updates are available on the NIFA Website at <https://nifa.usda.gov/funding-opportunity/alfalfa-and-forage-research-program>. More general information on Forage programs, in addition to instructions on the Technology Readiness Level can be found at <https://nifa.usda.gov/program/agronomic-forage-crops-program>.