Agriculture and Food Research Initiative
Competitive Grants Program

Education and Workforce Development

Fiscal Year (FY) 2018 Request for Applications (RFA)

LETTER OF INTENT DEADLINE: Not Applicable
APPLICATION DEADLINE: Varies by Program Area

ELIGIBILITY: See Part III, A of RFA
NATIONAL INSTITUTE OF FOOD AND AGRICULTURE; U.S. DEPARTMENT OF AGRICULTURE

AGRICULTURE AND FOOD RESEARCH INITIATIVE COMPETITIVE GRANTS PROGRAM

EDUCATION AND WORKFORCE DEVELOPMENT

INITIAL ANNOUNCEMENT

CATALOG OF FEDERAL DOMESTIC ASSISTANCE: This program is listed in the Catalog of Federal Domestic Assistance under 10.310.

DATES FOR LETTERS OF INTENT AND APPLICATIONS: The Program Area Descriptions section in Part I, C., identifies the applicability of a Letter of Intent (LOI) and, if applicable, the deadline date for its submission (a LOI is not required for conference grants). In these instances, it must be received by 5:00 p.m. Eastern Time on the deadline date. Applications must be received by 5:00 p.m. Eastern Time on the deadline date indicated in the Program Area Descriptions section in Part I, C. Applications received after this deadline will normally not be considered for funding (see Part IV, C). 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 request for applications (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 comments by the deadline set forth in the DATES portion of this notice via email to 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 this RFA.

Visit the NIFA website to access a factsheet on the Center of Excellence (COE) designation process, including COE criteria, and a list of programs offering COE opportunities in fiscal year (FY) 2018. You may also review a recording of COE outreach webinars held in February and March of 2015. We will update COE webpages as appropriate.

NIFA solicits proposed topics for Agriculture and Food Research Initiative (AFRI) RFAs from eligible state and national commodity boards on an ongoing basis. Topics must relate to the established AFRI six 2014 Farm Bill priority areas. NIFA received topics from eligible commodity boards through August 8, 2017, for incorporation into FY 2018 RFAs. Topics submitted by the commodity boards that aligned with NIFA priorities were chosen for inclusion in selected program areas of relevant AFRI RFA. None of the topics submitted by commodity boards were included in this RFA because the topics did not fit the subject matter of this RFA. Details on general information and topic submission resources for inclusion in future AFRI RFAs can be found at: http://nifa.usda.gov/commodity-boards.
EXECUTIVE SUMMARY: The Agriculture and Food Research Initiative (AFRI) is America’s flagship competitive grants program that provides funding for fundamental and applied research, education, and extension projects in the food and agricultural sciences. In FY 2018, the National Institute of Food and Agriculture (NIFA) requests applications for the AFRI’s Education and Workforce Development (EWD) Program areas (formerly the Food, Agriculture, Natural Resources and Human Sciences Education and Literacy Initiative, or ELI) to support:

- professional development opportunities for K-14 teachers and education professionals;
- training of undergraduate students in research and extension; and
- fellowships for predoctoral candidates and postdoctoral scholars.

The anticipated amount available for new grants in this FY 2018 EWD Request for Applications (RFA) is approximately $24.1 million.

This RFA solicits for Standard Grants, and Food and Agricultural Science Enhancement (FASE) Grants, whereas project types solicited in this RFA are Research, Education, Extension and Integrated. Grant types solicited vary by Program Area and not all grant types are solicited within each Program Area. See Part I, C (Program Area Description) for grant and project types solicited by each specific Program Area, and Part II, C., for a description of each individual grant type and project type.

This notice identifies the objectives for AFRI EWD projects, deadline dates, funding information, eligibility criteria for projects and applicants, and application forms and associated instructions needed to apply for an AFRI EWD grant.
PART I—FUNDING OPPORTUNITY DESCRIPTION

A. Legislative Authority and Background

Section 2(b) of the Competitive, Special, and Facilities Research Grant Act (hereafter referred to as the Act) (7 U.S.C. 3157), as amended, authorizes the Agriculture and Food Research Initiative (AFRI), a competitive grant program to provide funding for fundamental and applied research, education, and extension to address food and agricultural sciences in the following six 2014 Farm Bill priority areas:

1. Plant health and production and plant products;
2. Animal health and production and animal products;
3. Food safety, nutrition, and health;
4. Bioenergy, natural resources, and environment;
5. Agriculture systems and technology; and
6. Agriculture economics and rural communities.

To the maximum extent practicable, NIFA, in coordination with the Under Secretary for Research, Education, and Economics (REE), will make grants for high priority research, education, and extension, taking into consideration, when available, the determinations made by the National Agricultural Research, Extension, Education, and Economics Advisory Board (NAREEEAB) pursuant to the Competitive, Special, and Facilities Research Grant Act (7 USC 3157). The Secretary delegates the authority to the Under Secretary in 7CFR 2.21 and the Under Secretary delegates it to NIFA.

B. Purpose and Priorities

The purpose of the Agriculture and Food Research Initiative (AFRI) is to support research, education, and extension work by awarding grants to solve key problems of local, regional, national, and global importance in sustaining conventional, organic, and urban agricultural systems. These include farm efficiency, profitability and sustainability, ranching, bioenergy, forestry, aquaculture, rural communities and entrepreneurship, human nutrition, mitigating impacts of biotic and abiotic constraints on food production, food safety, mitigating food waste and food loss, biophysical and social sciences and rural human ecology, biotechnology, and classical breeding. Through this support, AFRI advances knowledge in both fundamental and applied sciences important to agriculture. It also allows AFRI to support education and extension activities that deliver science-based knowledge to end users, allowing them to make informed, practical decisions. This AFRI RFA is announcing funding opportunities for research, education, extension, or integrated research, education, and/or extension projects addressing the six priorities identified in Part I, A.

The burgeoning global population and the necessity of increasing food production and farm profitability require transformative approaches to ensure nutritional security, especially in the context of diminishing land and water resources, changing climate and extreme weather events, environmental degradation, and changing incomes and diets. Addressing these challenges require agro ecologically sound research, education, extension, and integrated programs that can promote agricultural and natural resource sustainability. "Sustainable agriculture" (NARETPA, 7 U.S.C. 3103) is a comprehensive system of plant and animal
production practices having site-specific application that will, over the long-term, achieve the following goals: 1) satisfy human food and fiber needs; 2) enhance environmental quality and the natural resource base upon which the agricultural economy depends; 3) make the most efficient use of nonrenewable resources and on-farm resources and integrate, where appropriate, natural biological cycles and controls; 4) sustain the economic viability of farm operations; and 5) enhance the quality of life for farmers and society as a whole. AFRI encourages projects addressing enhancement of sustainability of agricultural systems.

NIFA supports global engagement that advances U.S. agricultural goals. To attain the agency's goals for U.S. agriculture and promotion of global competence of our nation's future agricultural workforce, NIFA recognizes that collaboration with international partners through AFRI can contribute to advances in U.S. agriculture. Thus, applications in response to AFRI program RFAs may include collaborations with international partners, but may only be submitted by eligible U.S. institutions. Such applications may include subcontracts to international partners or other institutions and must clearly demonstrate benefits to the U.S. Additional guidance on including international activities is provided on the AFRI International Partnerships website.

Stakeholder Input
For information on stakeholder input related to AFRI program, please visit https://nifa.usda.gov/resource/afri-stakeholder-feedback.

Background
AFRI is NIFA’s flagship competitive grants programs for food and agricultural sciences, and funding is offered through the Foundational and Applied Science, Sustainable Agricultural Systems, and Education and Workforce Development Request for Applications for addressing critical societal issues.

This AFRI RFA aligns with Strategic Goals 2, 3, 4, 5, 6, and 7 of the USDA Strategic Goals.

This AFRI RFA aligns with the USDA Research, Education, and Economics (REE) Action Plan, specifically Goal 6.

This AFRI EWD RFA is aligned with the NIFA Strategic plan, and specifically addresses Strategic Goal 1: Science (Subgoals 1.1, 1.2, 1.3, 1.4, 1.5, 1.6 and 1.7).

C. Program Area Description

The AFRI EWD RFA addresses projected shortfalls of qualified graduates in the agricultural, food, and renewable natural resources sectors of the U.S. economy (Employment Opportunities for College Graduates). Thus, the AFRI EWD has three overarching goals:
• **Enhancing Agricultural Literacy** offers institutional grants for in-service training, which will provide K-14 teachers and administrators with increased knowledge of food and agricultural science disciplines and career opportunities, and help them to develop improved curricula to enhance agricultural literacy. See Program Area Description in Part 1, C, 1 for **“Professional Development for Secondary School Teachers and Educational Professionals” (Program Code A7501)**.

• **Developing Pathways** offers undergraduates in agriculture or allied disciplines with the technical and leadership skills required for employment in the agricultural sectors and farming enterprises or in graduate programs. NIFA will award institutional grants that offer internships, externships, practicums, global leadership, study abroad, and/or experiential learning opportunities in research and extension, which will help students develop the critical thinking, problem solving, digital competency, international experiences, and communication skills needed for future employment and/or higher education. See Program Area Description in Part 1, C, 2 for **“Research and Extension Experiences for Undergraduates” (Program Code A7401)**.

• **Advancing Science** supports graduate and post-graduate education in agriculture and related disciplines. NIFA Graduate and Postdoctoral Fellowships program areas will continue to support pre-and postdoctoral trainees respectively. These Fellowship awards will also enable interested pre and postdoctoral trainees to obtain training in international research on issues relevant to U.S. agriculture. See Program Area Description in Part 1, C, 3 and Part 1, C, 4 for **“Predoctoral Fellowships” (Program Code A7101)** and **“Postdoctoral Fellowships” (Program Code A7201)** respectively.

The Professional Development for Secondary School Teachers and Education Professionals (PD-STEP) program area seeks to increase the number of K-14 teachers and educational professionals trained in the Food and Agricultural Sciences. Participating teachers are expected to develop skills necessary for integrating food and agricultural science concepts in their classes; explore the opportunities available in the food and agricultural science career paths; and forge mentorships with professional and business leaders, and faculty.

The Research and Extension Experiences for Undergraduates (REEU) program area promotes research and extension learning experiences for undergraduates such that upon graduation they may enter the agricultural workforce with exceptional skills. This initiative will allow colleges and universities to provide fellowship opportunities for undergraduate students, including those from underrepresented and economically-disadvantaged groups, minority-serving institutions, community colleges, and universities. Projects may provide students opportunities to: 1) Obtain hands-on experience in research and extension to develop skills necessary to join the agricultural workforce or pursue graduate studies in the food and agricultural sciences; 2) Receive a strong mentoring experience required for success in the food and agricultural sciences; and 3) Participate in research and extension projects or programs that deliver science-based knowledge to individuals and communities to develop leadership skills, including communication, critical thinking, and problem solving.
skills, necessary to support decision making and planning. Program delivery may include students located at eligible institutions locally or nationally, and may use in-person, electronic, or a combination of both, as methods of communication. Extension Projects may also include related matters such as certification programs, in-service training, client recruitment and services, curriculum development, instructional materials and equipment, problem identification and program development and delivery, and innovative instructional methodologies appropriate to informal educational programs.

Predoctoral and postdoctoral fellowships program areas help to develop new scientists and professionals to enter research, education, and extension fields within the food and agricultural sciences. The aim of these fellowships is to cultivate future leaders who are able to solve emerging agricultural challenges of the 21st century.

**Total Program Funds** – Approximately $24.1 million

Key Information Applicable to ALL EWD Program Areas:

- All applications must adhere to the requirements in Part IV.
- Applications from, and collaborations with, minority-serving institutions, small to mid-sized institutions, and/or Established Program to Stimulate Competitive Research (EPSCoR) states are welcome to these program areas. Applications that include collaborations with international partners may also be submitted. For information on NIFA partnerships that may be of interest to applicants, see: https://nifa.usda.gov/resource/afri-international-partnerships.
- All applications to the AFRI EWD program areas must be aligned with one of the six AFRI Farm Bill priorities, and must address the stated Program Area Priorities described subsequently.
- All AFRI EWD projects are required to provide opportunities for development of leadership skills, which are necessary for preparing students for agriculture related careers in the private sector, government, and academia. Projects must demonstrably incorporate a leadership development component to ensure that students are equipped with both technical and leadership abilities. Specific activities provided through mentoring must include, but are not limited to, incorporation of leadership skills, critical thinking, problem solving, teamwork, communication skills, and training in ethics and professionalism.
- The AFRI EWD program areas anticipate funding projects that demonstrate output and outcome measures, such as number of students that are supported directly or undertaking internships, externships, and other experiential learning and international experiences. Additional measures of success include, but are not limited to: 1) publications, patents, and workshops; 2) curricula materials, academic programs, recruitment and retention programs, and experiential learning opportunities; 3) collaborations developed among institutions; 4) K-14 teachers and educational professionals who benefit from the projects; 5) measurable changes in student learning or engagement; and 6) measurable changes in the number of graduates in food and agricultural science disciplines.
- Extension Projects or Integrated Projects with an extension component that partner with eXtension must include financial support for the Community of Practice core functions as well as project-specific activities.
Applications are solicited in the following four Program Areas:

1. **Professional Development for Secondary School Teachers and Educational Professionals (PD-STEP)**  
   **Program Area Code – A7501**  
   **Proposed Budget Requests** –  
   - Budgets for Standard Grants and Strengthening Standard Grants must not exceed $150,000 total per project (including indirect costs) for project periods of up to three years.  
   - Funds requested may include, but are not limited to support: K-14 professional participant stipends and travel; costs of continuing education units; provider personnel salaries; software; and curricula.  
   - Any single institution may submit a maximum of three grant applications; limit of one award per lead institution.  
   - FASE (Strengthening Standard) Grants must adhere to the guidelines outlined beginning in Part II, C. 2.  
   - Applications with budget requests exceeding the budgetary guidelines will not be reviewed.  
   **Requested Project Types** – Research, Education, Extension, or Integrated Projects  
   **Requested Grant Types** – Standard Grants and FASE (Strengthening Standard) Grants  
   **Letter of Intent not required for this program area**  
   **Application Deadline** – July 11, 2018 (5:00 p.m., Eastern Time)  
   **Program Area Contact** – Dr. Victoria LeBeaux (202) 720-2067 or K-14@nifa.usda.gov

**Program Area Priority** –  
Research, Education, Extension or Integrated Projects must address the following:  
- Promote faculty expertise and encourage widespread implementation of educational innovation at the K-14 levels in the food and agricultural Sciences. This includes projects that contain elements of the human sciences (e.g., disciplines that address issues challenging individuals, youth, families, and communities).

**Program Area Additional Information:**  
- See details for the **REQUIRED Project Summary and Project Narrative format** in Part IV. Proposals that are not in compliance with these instructions will be excluded from review and consideration of funding.  
- Projects must provide immersive learning experiences for K-14 teachers and educational professionals (counselors, administrators, etc.) to create and replicate best practices to improve student success outcomes within the food and agricultural sciences.  
- Only professional development and continuing education activities for current K-14 education professionals are allowed in this program area.  
- Non-exhaustive examples of professional development projects include:  
  - Developing self-sustaining models for professional development that better prepare education professionals to provide outstanding teaching, guidance, institutional structures, etc. that enhance student outcomes in
the food and agricultural sciences.

- Changing instructional approaches to effectively identify skill gaps and address conceptual areas particularly challenging to students.
- Integrating innovations in science and pedagogy into existing professional development programs (e.g., through hands-on research and extension experiences with partner institutions and labs).
- Exploring self-sustaining web-based approaches for professional development for education professionals.
- Other methods to fill the existing gap of professional development in advanced food and agricultural sciences for educational professionals at the K-14 education level.

- Applications that involve participation from industry and nonprofit organizations through collaborating mentors and/or that connect education professionals, particularly those from low-resource schools, to existing USDA and Federal resources (e.g., USDA Agricultural Research Service, Forest Service, Federal laboratories, open data resources) to enhance student outcomes in the food and agricultural sciences are encouraged.
- The Project Director (PD) will be required to attend one NIFA AFRI EWD PD meeting in Washington, DC during the performance period of the award. Reasonable travel expenses must be included as part of the project budget.
- This program area accepts new and resubmitted applications only. Renewal applications are not accepted in this program area.

2. Research and Extension Experiences for Undergraduates (REEU)

Program Area Code – A7401

Proposed Budget Requests –

- Budgets for Standard Grants and Strengthening Standard Grants must not exceed $400,000 or $500,000 total per project (including indirect costs) for project periods of four or five years, respectively.
- Project costs must be predominantly for student support, including items such as participant stipends, housing, meals, travel, and laboratory use fees. Costs in budget categories outside Participant Support must be modest and reasonable (and may include justified support for the coordination of the program).
- Any single institution can submit a maximum of three grant applications; limit of one award per lead institution.
- FASE (Strengthening Standard) Grants must adhere to the guidelines outlined beginning in Part II, C. 2.
- Applications with budget requests exceeding the budgetary guidelines will not be reviewed.

Requested Project Types – Research, Education, Extension or Integrated Projects

Requested Grant Types – Standard Grants and FASE (Strengthening Standard) Grants

Letter of Intent not required for this program area

Application Deadline – June 28, 2018 (5:00 p.m., Eastern Time)

Program Area Contact – Dr. Ariela Zycherman (202) 531-0643 or undergraduate@nifa.usda.gov
**Program Area Priority**
Projects must provide undergraduate students with experiential learning opportunities that include significant research and/or extension components in the food and agricultural sciences.

- Projects must be aligned with one or more of the six 2014 Farm Bill priority areas
- Within the Farm Bill priority areas, the REEU program area may also include opportunities for digital and data competency development within the undergraduate research and extension learning experiences.
  - The Food and Agriculture Cyberinformatics and Tools (FACT) initiative recognizes that data in agricultural systems is used to identify solutions and often involves high-dimensional and multi-scale data, machine learning, data visualization, and predictive modeling. Approaches to using data also can require transdisciplinary teams to work across scientific, economic, environmental, and industrial spheres. The FACT Initiative invests in efforts that integrate information technology, computer science, engineering, statistics, business, economics, and social sciences communities with traditional agricultural research, education, extension, as well as agricultural producers and food-system participants. **NOTE:** If a FACT component is included in the proposal, incorporate the acronym “FACT” in the title.

**Program Area Additional Information:**
- See details for the **REQUIRED Project Summary and Project Narrative format** in Part IV. **Proposals that are not in compliance with these instructions will be excluded from the review and consideration of funding.**
- Projects must provide opportunities to include hands-on experiences for undergraduate students at colleges and universities, including those from underrepresented and economically disadvantaged groups, veterans, first generation college students, students at minority-serving institutions and community colleges.
- Non-exhaustive examples of experiential projects include: (a) research and extension apprenticeships, internships, or similar participatory learning within the AFRI Farm Bill priority areas; (b) practicums in agricultural laboratories, farms or Cooperative Extension Programs; (c) externships in the private or public sector; and (d) study abroad focused on global food security issues to develop global competency skills.
- Participating fellows could also build their skills necessary for graduate studies; explore the opportunities available in academia, business, government and other career paths; and forge mentorships with professional and business leaders and faculty.
- Applications that involve new collaborations or enhance existing partnerships with community colleges, minority-serving institutions, and other institutions where limited research and extension opportunities in mission-relevant STEM fields are encouraged.
• Applications that involve industry participation (e.g., through collaborating mentors) and/or that target a food and agricultural science industry where there is a documented shortage of talent or lack of adequate skills preparation for the needs of the industry are encouraged.
• Projects that will catalyze and result in the implementation of a self-sustaining model for increased/enhanced experiential learning for a diverse undergraduate student population at the host and partner institutions are encouraged.
• The PD will be required to attend one NIFA AFRI EWD PD meeting in Washington, DC during the performance period of the award. Reasonable travel expenses must be included as part of the project budget.
• This program area accepts new, renewal and resubmitted applications.

3. Predoctoral Fellowships
Program Area Code – A7101

Proposed Budget Requests –
• Predoctoral Fellowship requests must not exceed $120,000 total per project (including institutional allowance) for project periods of up to two years. Predoctoral Fellowship Grants are not renewable and are limited to a total of $60,000 per year, for:
  o Stipend - up to $35,000 per year;
  o Tuition, fees, fringe benefits, supplies, travel, workshops, and publications – up to $22,000 per year;
  o Institutional allowance (in lieu of indirect costs) – up to $3,000 per year; indirect costs are not permitted on Predoctoral Fellowship Grant awards;
  o With the exception of the stipend, awarded funds in other budget categories may be carried over from year one to year two. The stipend is capped at $35,000 per year, and cannot be carried over from year one to year two.
• Applications with budget requests exceeding the budgetary guidelines will not be reviewed.

Requested Project Types – Research, Education, Extension, or Integrated Projects
Requested Grant Type – Predoctoral Fellowship (FASE) Grants
Letter of Intent not required for this program area
Application Deadline – July 19, 2018 (5:00 p.m., Eastern Time)
Program Area Contact – Dr. Ray Ali (202) 720-2727 or nifafellows@nifa.usda.gov

Program Area Priority –
Research, education, extension and integrated research, education and/or extension projects must address all of the following:
• Objectives that are aligned with one or more of the six AFRI Farm Bill priority areas;
• Well-developed academic experiences and global competencies;
• Productive and interactive mentoring plans;
• Appropriate and applicable training/career development activities; and
• Substantive evaluation plans.
Eligible Predoctoral Fellows – The individual predoctoral Project Director (PD) must be a citizen, national, or permanent resident of the United States and have advanced to candidacy, as per institutional requirements, by July 19, 2018 (as per CFR 3430.303), and provide documentation from the graduate advisor or the institution by the application deadline. The intent of the NIFA Predoctoral Fellowship Program is to support current doctoral students who are at the stage of conducting dissertation research, ultimately leading to completion of the dissertation and respective terminal degree. Predoctoral students, inclusive of those with baccalaureate and/or masters degrees, who meet the above criteria, may apply.

Program Area Additional Information:

- See details for the REQUIRED Project Summary and Project Narrative format in Part IV. Proposals that are not in compliance with these instructions will be excluded from the review and consideration of funding.
- The predoctoral candidate must be the sole PD listed on the Key Personnel form of the application. The mentor should not be listed as a Co-PD. Select “Graduate Student” for the Predoctoral Fellowship applicant and “Other (Specify)” for the corresponding scientific mentor(s).
- As part of the Fellows’ professional development, attendance at scientific or professional meetings is encouraged.
- At the time of the award and release of funds from NIFA to sponsoring institution, Fellows are required to carry out their projects on a full-time basis (i.e. 100% effort), as specified by the sponsoring institution in accordance with its own policies.
- We highly recommend that applications be submitted through the mentor's institution with the mentor institution listed as the applicant.
- The applicant must identify the functional focus of the fellowship (Research, Education, Extension, or Integrated) leading to a doctoral degree.
- The selection of disciplines to address an issue is to be determined by the prospective applicant in consultation with appropriate mentors.
- Evidence of scholastic achievement should be demonstrated through current doctoral transcript, program of study, and/or other academic successes.
- Priority will be given to applications that show a novel and innovative approach that will advance knowledge in targeted discipline(s). Multidisciplinary and transdisciplinary approaches are encouraged.
- Applications that involve industry participation (e.g., through collaborating mentors) are encouraged.
- Applications that involve international experiences (e.g., through collaborating mentors) are encouraged.
- Fellows are expected to build the professional skills necessary for career agility; explore opportunities available in academia, industry, government and other career paths; and forge mentorships with professional and business leaders and faculty.
- The PD will be required to attend one NIFA AFRI EWD PD meeting in Washington, DC during the performance period of the award. Reasonable
travel expenses must be included as part of the project budget.

- This program area accepts new and resubmitted applications only. Renewal applications are not accepted in this program area.

4. **Postdoctoral Fellowships**

   **Program Area Code** – A7201

   **Proposed Budget Requests** –

   - Postdoctoral Fellowship requests must not exceed **$165,000 total per project (including institutional allowance)** for project periods of up to two years and are not renewable.
     - Funds must be requested primarily for salary support, although other expenditures (e.g., fringe benefits, supplies, travel, workshops, and publications) are allowable costs.
     - Expenditures other than salary support may not exceed $30,000 per year and must be itemized and properly justified.
     - Institutional allowance, in lieu of indirect costs, not to exceed $3,000 per year, may be requested within the $165,000 maximum award limit. Indirect costs are not permitted on Postdoctoral Fellowship Grant awards.
   - Applications with budget requests exceeding the budgetary guidelines will not be reviewed.

   **Requested Project Types** – Research, Education, Extension, or Integrated Projects

   **Requested Grant Type** – Postdoctoral Fellowship (FASE) Grants only

   **Letter of Intent not required for this program area**

   **Application Deadline** – July 19, 2018 (5:00 p.m., Eastern Time)

   **Program Area Contact** – Dr. Ray Ali (202) 720-2727 or nifafellows@nifa.usda.gov

   **Program Area Priority** –

   - Research, education, extension and integrated research, education and/or extension projects must address all of the following:
     - Objectives that are aligned with one or more of the six AFRI Farm Bill priority areas;
     - Well-developed academic experiences and global competencies;
     - Productive and interactive mentoring;
     - Appropriate and applicable training/career development activities; and
     - Substantive evaluation plans.

   **Eligible Postdoctoral Fellows** – All doctoral degree requirements must be satisfied no earlier than January 1, 2015, and no later than April 19, 2019 (as per CFR 3430.303), documentation from the graduate advisor, graduate committee, or the institution must be provided by the application deadline. The postdoctoral project director (PD) must be a citizen, national, or permanent resident of the United States.

   **Program Area Additional Information:**

   - See details for the **REQUIRED Project Summary and Project Narrative format** in Part IV. **Proposals that are not in compliance with these instructions can be excluded from review and consideration of funding.**
   - The postdoctoral scholar must be the sole PD listed on the Key Personnel
form of the application. The mentor should not be listed as a Co-PD. Select “Post Doctoral” for the Postdoctoral Fellowship applicant. Select “Other (Specify)” for the corresponding scientific mentor(s). Enter “Mentor” for corresponding scientific mentor(s) in the Other Project Role Category Field.

- At the time of the award and release of funds from NIFA to sponsoring institution, Fellows are required to carry out their projects on a full-time basis (i.e. 100% effort), as specified by the sponsoring institution in accordance with its own policies.

- Note that the Program Area Additional Information identified for Predoctoral Fellowships also applies to AFRI Postdoctoral Fellowships.

- Although a proposed project may fit in the context of the mentor's existing scientific area, the Postdoctoral Fellowship Grant should initiate an independent scientific program, rather than serve as an extension of ongoing projects in the mentor's laboratory.

- Applications that involve international experiences (e.g., through collaborating mentors) are encouraged.

- The PD will be required to attend one NIFA AFRI EWD PD meeting in Washington, DC during the performance period of the award. The PD is also required to attend a PD meeting of the Foundational and Applied Science Program Areas or Program Area Priorities or the Sustainable Agricultural Systems Program Area with which the project is most closely aligned during the performance period of the award. Reasonable travel expenses must be included as part of the project budget.

- This program area accepts new and resubmitted applications only. Renewal applications are not accepted in this program area.
PART II—AWARD INFORMATION

A. Available Funding

The anticipated appropriated amount available to support the AFRI program in FY 2018 is approximately $400 million. NIFA anticipates $24.1 million will be available to support Programs Areas in this AFRI RFA.

Of the total amount available to make awards for the AFRI program, no less than 30 percent will be made available to fund integrated research, education, and extension projects. Of the AFRI funds allocated to research activities, no less than 60 percent will be directed toward grants for fundamental (or basic) research and 40 percent toward grants for applied research. Of the AFRI funds allocated to fundamental research, not less than 30 percent will be directed toward research by multidisciplinary teams. It is expected that no less than 15 percent of the FY 2018 funds will be made available for Food and Agricultural Science Enhancement (FASE) Grants, and no more than two percent of the funds available for fundamental research will be made available for Equipment Grants (see Part II, C., for information about FASE and Equipment Grants).

Of the $24.1 million available to support the Program Areas in this RFA, $15 million (3.75% of the total available support to the AFRI Program) will be made available for pre- and postdoctoral program areas and no less than 11.25% of the $9.1 million funds available for the PD-STEP and REEU program areas will be made available for Strengthening Standard Grants under the FASE program. No other FASE grant types are available under the program areas in this RFA.

The funds will be awarded through a grant for performance periods of up to five years. NIFA may choose to issue a grant on a continuation basis. A continuation award is an award instrument by which NIFA agrees to support a specified level of effort for a predetermined period of time with a statement of intention to provide additional support at a future date, provided that performance has been satisfactory, appropriations are available for this purpose, and continued support would be in the best interest of the Federal government and the public. Note that the continuation grants are not available for the program area in this RFA. There is no commitment by NIFA 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.

B. Types of Applications

In FY 2018, you may submit applications to one of the Program Areas in this RFA as one of the three types of requests: (1) New Application; (2) Renewal Application; or (3) Resubmitted Application.
(1) **New application.** This is a project application that has not been previously submitted to NIFA. We will review all new applications to ensure they meet administrative requirements and all applications will be competitively evaluated by a review panel using criteria and selection processes described in Part V—Application Review Requirements.

(2) **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 the renewal applications by the relevant due dates. We will evaluate renewal applications in competition with other pending applications in the program area priority to which they are assigned, and will be reviewed according to the same evaluation criteria (Part V, B) as new applications. If you are submitting renewal application, enter the NIFA-assigned award number of the previously-funded application in the Federal Identifier (Field 4.a. of the SF 424 (R&R) form).

(3) **Resubmitted application.** This is an application that was submitted previously to NIFA but not funded. Project Directors (PDs) must respond to the previous review panel summary (see Response to Previous Review, Part IV, C.). We must receive resubmitted applications by the relevant due dates. We will evaluate resubmitted applications in competition with other pending applications in the appropriate program priority area to which they are assigned, and review them according to the same evaluation criteria (Part V, B.) as new applications. A renewal application that was submitted previously but not funded and is being resubmitted is also considered as Resubmitted application; however, PDs must include a Progress Report (see 2 above) and a Response to Previous Review. If you are resubmitting an application, enter the NIFA-assigned proposal number of the previously-submitted application in the Federal Identifier (Field 4.a. of the SF 424 (R&R) form).

C. **Project Types and Grant Types**

1. **Project Types.** Applicants must propose one of the AFRI project types specified within the relevant program area description in Part I, C., of this RFA. Only project types specifically solicited under each Program Area or Program Area Priority described in Part I, C., of this RFA will be considered for review. A detailed description of the project types available across AFRI is located on the NIFA website.

   **Grant Types.** Applicants must select the appropriate AFRI grant type specified within the relevant program area description in Part I, C., of this RFA. Only grant types specifically solicited under each program area or program area priority described in Part I, C., of this RFA will be considered for review. A detailed description of the grant types available across AFRI is located on the NIFA website.
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 of 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 eligible entities. Eligibility is linked to the project type as specified below.

1. Research, Education or Extension Projects

Eligible applicants for single-function Research, Education or Extension Projects include:

- State Agricultural Experiment Station;
- colleges and universities (including junior colleges offering associate degrees or higher);
- university research foundations;
- other research institutions and organizations;
- Federal agencies;
- national laboratories;
- private organizations or corporations;
- individuals who are U.S. citizens, nationals, or permanent residents; and
- any group consisting of two or more entities identified in (a) through (h).

Eligible institutions do not include foreign and international organizations.

2. Integrated Projects

Eligible applicants for Integrated Projects include:

- Colleges and universities;
- 1994 Land-Grant Institutions;

For item a) under Integrated Projects, the terms "college" and "university" mean an educational institution in any state which i) admits as regular students only persons having a certificate of graduation from a school providing secondary education, or the recognized equivalent of such a certificate; ii) is legally authorized within such state to provide a program of education beyond secondary education; iii) provides an educational program for which a bachelor's degree or any other higher degree is awarded; iv) is a public or other nonprofit institution; and v) is accredited by a nationally recognized accrediting agency or association. A research foundation maintained by a college or university is eligible to receive an award under this program.

3. Food and Agricultural Science Enhancement Grants

Part II, C. 2, contains the eligibility details for Food and Agricultural Science Enhancement (FASE) Grants. See https://nifa.usda.gov/sites/default/files/resource/AFRI-Grant-Types.pdf for FASE Grants information. Note that under the FASE program, Pre- and Postdoctoral Grants, and Strengthening Standard Grants (only under PD-STEP and REEU program areas) are solicited in this RFA.

Applicants must respond to the Program Area priorities and deadlines found in Part I, C., of this RFA. Grant 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 (see Part III B).
B. Request for Determination of Status

1. Minority–Serving Institution

If an institution can be considered a minority-serving institution and wishes to be considered for a Strengthening Grant (see Part II, C. 2), but does not serve one or more of the groups identified as a minority (see Part VIII, D), the applicant must submit documentation supporting the request. This documentation (see below) must be submitted as part of the requestor’s Letter of Intent (if required) and the full application package (Part IV, C) and we must receive it by the applicable program area or program area priority deadline. The Secretary of Agriculture or designated individual will determine whether the group or groups identified are eligible as a minority group for the purpose of receiving a Strengthening Grant under the FASE program (for Strengthening Grants information, refer to [https://nifa.usda.gov/sites/default/files/resource/AFRI-Grant-Types.pdf](https://nifa.usda.gov/sites/default/files/resource/AFRI-Grant-Types.pdf)).

Documentation must be included in the order specified below:

a. A description of each minority group being served;

b. Data or studies supporting this group’s designation as a minority group; and

c. Data indicating that enrollment of the minority group(s) exceeds 50 percent of the total enrollment at the academic institution, including graduate and undergraduate and full- and part-time students.

2. Multi-Campus Institution

Table 1 is a listing of institutions that are not eligible for any strengthening funds except those institutions located in an Established Program to Stimulate Competitive Research (EPSCoR) State (see Part II, C. 2). If an ineligible institution consists of multiple campuses that are not listed, those individual campuses may request an exemption by providing information on their independent administration or independent accreditation. If an exemption is approved, then the campus is eligible for strengthening funds. To request an exemption, the documentation (see below) must be submitted as part of the Letter of Intent (if required) and the full application package (Part IV, C). The documentation will be used to, for example, verify the campus is administratively independent of the listed institution.

A letter, signed by the Authorized Representative (AR), must be included documenting to support the institution is:

a. independent of the main campus, either through accreditation or administration and

b. eligible as a small and mid-sized or minority-serving institution due to enrollment and total Federal funds received for science and engineering research and development.

C. Cost Sharing or Matching

If an applied Research (see Part VIII, D) or Integrated Project with an applied research component, is commodity-specific and not of national scope, the grant recipient is required to match the USDA funds awarded on a dollar-for-dollar basis from non-Federal sources with cash and/or in-kind contributions. NIFA may waive the matching funds requirement based on submitted document (see Part IV, C., 6), for a grant if we determine that:

a. The results of the project, while of particular benefit to a specific agricultural
commodity, are likely to be applicable to agricultural commodities generally; or  

b. The project involves a minor commodity, the project deals with scientifically important research, and the grant recipient is unable to satisfy the matching funds requirement.

For Equipment Grants: The amount of Federal funds provided may not exceed 50 percent of the cost of the equipment acquired using funds from the grant, or $50,000, whichever is less. Grantees are required to match 100 percent of Federal funds awarded from non-Federal sources. NIFA may waive all or part of the matching requirement if all three of the following criteria are met: 1) application is from a college, university, or research foundation maintained by a college or university that ranks in the lowest one third of such colleges, universities, and research foundations on the basis of Federal research funds received (see Table 2, following Part VIII, for eligibility); 2) the equipment to be acquired costs not more than $25,000; and 3) the equipment has multiple uses within a single research project or is usable in more than one research project. To be considered for this waiver, the budget justification (see Part IV, C., 6) must include a letter signed by the institution’s AR addressing the noted criteria. Note that Equipment Grants are not solicited in this RFA.

D. Center of Excellence

Pursuant to Section 7214 of the Agricultural Act of 2014 (Pub. L. 113-79), NIFA will recognize and provide priority in the receipt of funding to applications from “centers of excellence” that carry out research, extension, and education activities that relate to the food and agricultural sciences. NIFA held listening sessions in July 2014 and accepted written comments from stakeholders to inform NIFA’s implementation of the COE provision. Information from the webinars and a summary of the input are available on NIFA’s website at http://nifa.usda.gov/centers-excellence.

A COE is composed of one or more of the following entities that provide financial or in-kind support to the COE.

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, foundations, or corporations;
8. Individuals; or
9. any group consisting of two or more of the entities described in (1) through (8).

COE designation is available only for the **standard grant and the Coordinated Agricultural Project (CAP) grant** applications submitted to the program areas or program area priorities in the Foundational and Applied Science, and Sustainable Agricultural Systems RFAs. If applicable, Part IV, C., of the RFA contains additional requirements for COE consideration. Note that CAP grants are not solicited in this RFA.
PART IV—APPLICATION AND SUBMISSION INFORMATION

A. Letter of Intent

If a Program Area or Program Area Priority within this RFA requires a Letter of Intent (LOI), then a LOI is a prerequisite for submission of an application. Refer to the Program Area Descriptions beginning in Part I, C., for LOI deadlines for a specific Program Area or Program Area Priorities. For detailed guidance on LOI submission, see LOI Instructions. Note that the program areas in this RFA are not requesting LOI.

B. 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 AR 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

Funding Opportunity Number: USDA-NIFA-AFRI-006555

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/applicants.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
Top 10 requested help topics (FAQs), searchable knowledge base, self-service ticketing and ticket status, and live web chat (available 7:00 a.m. – 9:00 p.m. Eastern Time).

Have the following information available when contacting Grants.gov:
- Funding Opportunity Number (FON)
- Name of agency you are applying to
- Specific area of concern

C. Content and Form of Application Submission

See the details on the NIFA website.

D. Submission Dates and Times

1. Letter of Intent
   The Letter of intent if applicable, must be received at NIFA by 5:00 p.m. Eastern Time on the dates indicated in the Program Area Descriptions beginning in Part I, C., and in the format specified in Part IV, A. The LOI (if applicable) is a prerequisite for the submission of a full application.

2. Full Application
   Applications must be received by Grants.gov by 5:00 p.m. Eastern Time on the dates indicated in the Program Area Descriptions beginning in Part I, C. Applications received after this deadline will normally not be considered for funding.
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.

You should check the application for completeness. The application should be checked for the following required items, which must include:

- Project Summary/Abstract
- Project Narrative
- Bibliography & References Cited
- Logic Model for Integrated Program
- Management Plan for Integrated Program
- Data Management Plan
- Facilities & Other Resources
- Curriculum Vitae
- Conflict of Interest Lists
- Current and pending support
- Budget
- Budget Justification
- Felony and Tax Certification Form

This is not an exhaustive list of required items; it only serves to highlight items that may be overlooked. **Failure to include any of the three critical required documents of Project Summary/Abstract, Project Narrative, or Bibliography & References Cited sections as PDF attachment will result in the application not being reviewed or considered for funding by NIFA.**

Instructions for submitting an application are included in Part IV, Section 1.5 of the NIFA Grants.gov Application Guide.

**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.
E. 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 of 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 place; or the plan, repair, rehabilitate, acquire, or construction of buildings or facilities.

F. Other Submission Requirements

You should follow the submission requirements noted in Part IV, Section 1.5 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.

Multiple submissions
In accordance with Part III, Section 5 of NIFA Grants.gov Application Guide, duplicate, essentially duplicate or predominantly overlapping applications submitted to one or more program areas within the AFRI (including FASE Grants) in any one fiscal year will not be reviewed. In addition, applicants may not submit to AFRI an application that is considered duplicate, essentially duplicate, or predominantly overlapping with an application submitted to another NIFA program in the same fiscal year.
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 scientific peer-review process will be used to technically evaluate applications that meet the administrative requirements using a review panel.

Scientific Peer Review Process
Reviewers will be selected for the review panel 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 been completed its deliberations, the responsible program staff will recommend that your project has either been approved for support from currently available funds or been declined due to insufficient funds or unfavorable review.

NIFA reserves the right to negotiate with the PD/PI and/or 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 AFRI project for funding.

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

B. Evaluation Criteria

Detailed evaluation criteria for each project type, and grant type are outlined at AFRI EWD Evaluation Criteria. We will use the appropriate evaluation criteria to review applications submitted in response to this RFA.
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 https://nifa.usda.gov/resource/nifa-peer-review-process-competitive-grant-applications 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 the agency 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 https://nifa.usda.gov/terms-and-conditions 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.

D. Responsible and Ethical Conduct of Research

Refer to Part II, D., for more information.

E. Expected Program Outputs and Reporting Requirements

The output and reporting requirements are included in the award terms and conditions (see https://nifa.usda.gov/terms-and-conditions for information about NIFA award terms). If there are any program or award-specific award terms, they will be identified in the award.
PART VII—AGENCY CONTACTS

For general questions related to the AFRI Programs, applicants and other interested parties are encouraged to contact:

AFRI Program Office:
Dr. Parag Chitnis, Deputy Director, Institute of Food Production and Sustainability
Dr. Denise Eblen, Deputy Director, Institute of Food Safety and Nutrition
Dr. Muquarrab Qureshi, Deputy Director, Institute of Youth, Family, and Community
Dr. Louis Tupas, Deputy Director, Institute of Bioenergy, Climate, and Environment
Telephone: (202) 401-5022
Fax: (202) 401-6488
E-mail: AFRI@nifa.usda.gov

Specific questions pertaining to technical matters may be directed to the appropriate Program Area Priority Contacts:

<table>
<thead>
<tr>
<th>Program Area</th>
<th>Program Area Contact</th>
</tr>
</thead>
<tbody>
<tr>
<td>Professional Development for Secondary School Teachers and Educational Professionals</td>
<td>Victoria LeBeaux (202) 720-2067; <a href="mailto:victoria.s.lebeaux@nifa.usda.gov">victoria.s.lebeaux@nifa.usda.gov</a></td>
</tr>
<tr>
<td>Research and Extension Experiences for Undergraduates</td>
<td>Ariela Zycherman (202) 531-0643; <a href="mailto:ariela.zycherman@nifa.usda.gov">ariela.zycherman@nifa.usda.gov</a></td>
</tr>
<tr>
<td>Predoctoral Fellowships</td>
<td>Ray Ali (202) 720-2727; <a href="mailto:rali@nifa.usda.gov">rali@nifa.usda.gov</a></td>
</tr>
<tr>
<td>Postdoctoral Fellowships</td>
<td>Ray Ali (202) 720-2727; <a href="mailto:rali@nifa.usda.gov">rali@nifa.usda.gov</a></td>
</tr>
</tbody>
</table>

Administrative/Business Contacts:
Rochelle McCrea
Title: Team Leader, Team I
Unit: Branch II
Location: 2160 Waterfront Centre
Full Address and Directions
Phone: (202) 401-2880
Fax: (202) 401-6271
Email: rmccrea@nifa.usda.gov

Sondra Watkins
Title: Team Leader, Team I
Unit: Branch I
Location: 2170 Waterfront Centre
Full Address and Directions
Phone: (202) 401-4249
Fax: (202) 401-3237
Email: swatkins@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.
   (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.
   (ix) Consistent with the program goal of fostering career independence, NIFA Predoctoral and Postdoctoral Fellowships can be converted to Standard Grants under certain circumstances (e.g., if the Fellow obtains a faculty position). One condition is that the Fellow completes at least 12 months of substantive fellowship performance. Note that actual performance may occur prior to the official award start date. The conversion process commences with a formal request by e-mail from the Project Director indicating objectives completed, funds remaining, timeline involved, etc. In addition, the request should also be accompanied by a letter (PDF) from the mentor attesting to the fellowship accomplishments that might be considered towards 12 months of substantive fellowship performance requirements (i.e. commencement date of actual performance, time spent on career development and planning/training, mentoring, project planning,
etc.). If initially agreed upon by the National Program Leader, additional administrative processes take place (e.g., submission of an application, revised budget, etc.). NIFA reserves the right to approve or deny the conversion request.

The awardee will be subject to the terms and conditions identified in the award. See https://nifa.usda.gov/terms-and-conditions 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 the 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

Please 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.

For the purpose of this program, the following additional definitions are applicable:

Applied Research means research that includes expansion of the findings of fundamental research to uncover practical ways in which new knowledge can be advanced to benefit individuals and society.

Food and Agricultural Science Enhancement (FASE) Grants mean funding awarded to eligible applicants to strengthen science capabilities of Project Directors, to help institutions develop competitive scientific programs, and to attract new scientists into careers in high-priority areas of National need in agriculture, food, and environmental sciences. FASE awards may apply to any of the three agricultural knowledge components (i.e., research, education, and extension).
FASE awards include Pre- and Postdoctoral Fellowships, New Investigator grants, and Strengthening grants.

Limited institutional success means institutions that are not among the most successful universities and colleges for receiving Federal funds for science and engineering research. A list of successful institutions will be provided in the RFA.

Minority-serving institution means an accredited academic institution whose enrollment of a single minority or a combination of minorities exceeds fifty percent of the total enrollment, including graduate and undergraduate and full- and part-time students. An institution in this instance is an organization that is independently accredited as determined by reference to the current version of the Higher Education Directory, published by Higher Education Publications, Inc., 6400 Arlington Boulevard, Suite 648, Falls Church, Virginia 22042 (703-532-2300).

Minority means Alaskan Native, American Indian, Asian-American, African-American, Hispanic American, Native Hawaiian, or Pacific Islander. The Secretary will determine on a case-by-case basis whether additional groups qualify under this definition, either at the Secretary’s initiative, or in response to a written request with supporting explanation.

Multidisciplinary project means a project on which investigators from two or more disciplines collaborate to address a common problem. These collaborations, where appropriate, may integrate the biological, physical, chemical, or social sciences.

Small and mid-sized institutions are academic institutions with a current total enrollment of 17,500 or less including graduate and undergraduate and full- and part-time students. An institution, in this instance, is an organization that possesses a significant degree of autonomy. Significant degree of autonomy is defined by being independently accredited as determined by reference to the current version of the Higher Education Directory, published by Higher Education Publications, Inc., 6400 Arlington Boulevard, Suite 648, Falls Church, Virginia 22042 (703-532-2300).

Strengthening Grants mean funds awarded to institutions eligible for FASE Grants to enhance institutional capacity, with the goal of leading to future funding in the project area, as well as strengthening the competitiveness of the investigator’s research, education, and/or extension activities. Strengthening grants consist of Standard, Coordinated Agricultural Project and Conference Grant types as well as Seed Grants, Equipment Grants, and Sabbatical Grants.

Transdisciplinary Team is composed of investigators from multiple disciplines that cross boundaries using holistic approaches to address complex challenges that cannot be solved using single-disciplinary approaches.

USDA EPSCoR States (Established Program to Stimulate Competitive Research, formerly Experimental Program to Stimulate Competitive Research) means States which have been less successful in receiving funding from AFRI, having a funding level no higher than the
38th percentile of all States based on a 3-year average of AFRI funding levels, excluding FASE Strengthening funds granted to state agricultural experiment stations and degree-granting institutions in EPSCoR States and small, mid-sized, and minority-serving degree-granting institutions. The most recent list of USDA EPSCoR States is provided at https://nifa.usda.gov/sites/default/files/resource/AFRI-Grant-Types.pdf.

E. Materials Available on the Internet
AFRI program information will be made available on the NIFA website at https://nifa.usda.gov/program/agriculture-and-food-research-initiative-afri. The following are among the materials available on the NIFA website:

1. Stakeholder Input
2. Requests for Applications
3. AFRI Abstracts of Funded Projects
4. AFRI Annual Synopsis
5. Frequently Asked Questions
6. Interagency Programs
TABLE 1. Most Successful Universities and Colleges
Any institution listed in Table 1 is not eligible for Strengthening Grants from the FASE program unless they are located in an EPSCoR state.

TABLE 2. Lowest One Third of Universities and Colleges Receiving Federal Funds
The lowest one third of universities and colleges receiving Federal funds receiving Federal funds used to determine eligibility for possible waiver of matching funds requirement for Equipment Grants.

FIGURE 1. Flow Chart for Strengthening Grant Eligibility
The flow chart will help to determine your eligibility to apply for strengthening grants.