

REQUEST FOR APPLICATIONS

Agriculture and Food Research Initiative Competitive Grants Program Education and Workforce Development

FUNDING YEAR: Fiscal Year (FY) 2024

LETTER OF INTENT DEADLINE: Not Applicable

APPLICATION DEADLINE: Varies by Program Area Priority (see *Part I C*)

ANTICIPATED PROGRAM FUNDING: \$49,000,000

FUNDING OPPORTUNITY NUMBER: USDA-NIFA-AFRI- 010693

ASSISTANCE LISTING NUMBER: 10.310

INITIAL ANNOUNCEMENT

National Institute of Food and Agriculture United States Department of Agriculture

Assistance Listing Number: The Agriculture and Food Research Initiative (AFRI) Education and Workforce Development is listed in the Assistance Listings under number 10.310.

Table 1: Key Dates and Deadlines

Task Description	Deadline
Application:	5:00 P.M. Eastern Time, on the DATE 2024 deadline dates
	indicated in Part I C
Letter of Intent:	Not Applicable
Applicants Comments:	Within six months from the issuance of this notice
	(NIFA may not consider comments received after the sixth month)

Advancing Diversity, Equity, Inclusion, and Accessibility (DEIA). The National Institute of Food and Agriculture (NIFA) recognizes research, education, and extension efforts will have the greatest impacts when programs are grounded in DEIA. NIFA is committed to enhancing diversity, equity, inclusion, and accessibility of programs and encourages individuals, institutions, and organizations from underserved communities to apply to funding opportunities as lead, co-lead, or subaward recipient(s), and to engage as leaders in the peer panel review process to support the development of strong networks and collaborations. NIFA encourages applications that engage diverse communities and have broad impacts through research, education, extension, and integrated activities to address current and future challenges.

Stakeholder Input. NIFA seeks comments on all Request for Applications (RFAs) so it can deliver programs efficiently, effectively, with integrity, and with a focus on customer service. NIFA considers comments to the extent possible when developing RFAs, and uses comments to help meet the requirements of (7 U.S.C. 7613(c)(2)). Applicants may submit written comments to Policy@usda.gov . Please use the following subject line: Response to the AFRI Education and Workforce Development RFA. The AFRI Stakeholder Feedback page has information on AFRI-related stakeholder input.

Centers of Excellence. Applicants are encouraged to visit NIFA's <u>Centers of Excellence (COE)</u> webpage for information on the COE designation process, including COE criteria, and a list of programs offering COE opportunities. A recording of COE outreach and COE implementation webinars are also available.

Commodity Board Co-Funding Topics. NIFA solicits proposed topics for Agriculture and Food Research Initiative (AFRI) RFAs from eligible state and national commodity boards and marketing orders on an ongoing basis. Topics must relate to the established AFRI six priority areas. Topics submitted by the commodity boards and marketing orders that align with NIFA priorities are chosen for inclusion in selected program areas of AFRI RFAs. Details on general information and topic submission resources for inclusion in future AFRI RFAs can be found at NIFA's Commodity Board Provision website. All of the topics submitted by Commodity Boards

this year were submitted for inclusion in only the Foundational and Applied Science RFA and not the current Education and Workforce Development RFA.

EXECUTIVE SUMMARY

This notice identifies the objectives for Agriculture and Food Research Initiative (AFRI) Education and Workforce Development (EWD) program projects, deadlines, funding information, eligibility criteria for projects and applicants, and application forms and associated instructions.

This RFA is being released prior to the passage of a full appropriations act for FY 2024. Enactment of a continuing resolution, appropriations act, or other authorizing legislation may affect the availability or level of funding for this program. The amount available for new grants for the 2024 deadlines in this EWD Request for Applications (RFA) is approximately \$49 million in AFRI funding. Additional projects submitted under this RFA will be considered should funding become available beyond the amount listed above.

The 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 2024, the National Institute of Food and Agriculture (NIFA) requests applications for the AFRI's EWD program area to support:

- 1. professional development opportunities for K-14 educational professionals;
- 2. non-formal education that cultivates food and agricultural interest in youth;
- 3. workforce training at community, junior, and technical colleges;
- 4. training of undergraduate students in research and extension; and
- 5. fellowships for predoctoral candidates and postdoctoral scholars.

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

Table 2: Program Area Priorities and Deadlines

The deadlines under this RFA are summarized as follows:

Program Area Priority	2024 Review Cycle Deadlines ¹
1. Professional Development for Agricultural Literacy (A7501)	Thursday,
	September 12, 2024
2. Agricultural Workforce Training at Community Colleges (A7601)	Thursday,
	September 19, 2024
3. Food and Agricultural Non-formal Education (A7801)	Thursday,
	December 5, 2024
4. Research and Extension Experiences for Undergraduates (A7401)	Thursday,
	August 15, 2024
5. Predoctoral Fellowships (A7101)	Thursday,
	October 24, 2024
6. Postdoctoral Fellowships (A7201)	Thursday,
	September 5, 2024

¹ All applications must be received by 5 p.m. Eastern Time on the deadline date.

2024 UPDATES

1.	This RFA covers the FY 2024 grant application review cycle. For the FY 2024 cycle,
	funding from FY 2025 budgets will be used.

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PART I. FUNDING OPPORTUNITY DESCRIPTION

A. Legislative Authority

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 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, the National Institute of Food and Agriculture (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 U.S.C. 3157). The Secretary delegates the authority to the Under Secretary in 7 CFR 2.21, and the Under Secretary delegates that authority to NIFA.

B. Purpose and Priorities

The purpose of AFRI (listed in the Assistance Listings under number 10.310) is to support research, education, and extension projects that address key problems of local, regional, national, and global importance in sustaining conventional, organic, urban food, and agricultural and natural systems. These include farm and ranch production efficiency, profitability, and sustainability; bioenergy and bio-based products; 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; physical and social sciences; rural human ecology; development of circular/regenerative economies, and genetic improvement of plant and animals. In addition, the economic sustainability of food systems is an overarching priority for the projects funded in response to this Request for Applications (RFA); therefore, projects focusing on plant or animal species or commodities that are important to underserved communities, farmers, ranchers, or small- or medium-sized farms or ranches are also welcome. 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 Education and Workforce Development (EWD) RFA provides funding for research-only, education-only, extension-only, and/or integrated research, education, and/or extension projects addressing the six priorities identified in <u>Part I A</u>. Each Program Area priority within this RFA may offer all or some of these project types.

Food and agricultural systems face ever-growing constraints including growing populations; pressure on natural resources; challenges of climate variability and change; and complex demands of ensuring nutritional security and food safety in a global economy. Addressing these

challenges requires research, education, extension, and integrated programs in concert with science-based approaches that increase agricultural and natural resource sustainability. The term 'sustainable agriculture' (7 U.S.C. 3103) means a combined system of plant and animal production practices relevant to site-specific application that will achieve the following long-term 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.

Global Engagement. NIFA supports global engagement that advances U.S. agricultural goals. NIFA recognizes that collaboration with international partners may be necessary to attain the agency's goals for U.S. agriculture, promote global competence of our nation's future agricultural workforce, and promote safe and nutritious food security in a growing world. Therefore, although application to this RFA is limited to eligible U.S. institutions, applicants may collaborate with international partners, and include subcontracts to international partners or other institutions. Applications must clearly demonstrate benefits to the United States. Additional guidance on including international activities is provided on the AFRI International Partnerships website.

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 Requests for Applications for addressing critical societal issues.

NIFA supports research, education, and extension projects that address key problems of local, regional, national, and global importance. As such, AFRI welcomes projects that enhance the food and agricultural sciences and their role in human diversity, equity and inclusion, agricultural practices that provide for adaptation to ecological perturbation and mitigate climate change, rural economic development and post-pandemic economic revitalization, nutritional security, open and competitive markets, and other topics responsive to current and emerging needs impacting the U.S. Agriculture.

The AFRI Education and Workforce Development RFA is aligned with the following: FY2022-2026 <u>USDA Strategic Goals</u>:

- 1. Strategic Goal 1: Combat Climate Change to Support America's Working Lands, Natural Resources, and Communities;
- 2. Strategic Goal 2: Ensure America's Agricultural System is Equitable, Resilient, and Prosperous;
- 3. Strategic Goal 3: Foster an Equitable and Competitive Marketplace for All Agricultural Producers:
- 4. Strategic Goal 4: Make Safe, Nutritious Food Available to All Americans;

- 5. Strategic Goal 5: Expand Opportunities for Economic Development and Improve Quality of Life in Rural and Tribal Communities;
- 6. Strategic Goal 6: Attract, Inspire, and Retain an Engaged and Motivated Workforce that's Proud to Represent USDA.

The AFRI EWD RFA is aligned with the following <u>USDA Science and Research Strategy</u>, 2023–2026 priorities::

- 1. Priority 1: Accelerating Innovative Technologies & Practices;
- 2. Priority 2: Driving Climate-Smart Solutions;
- 3. Priority 3: Bolstering Nutrition Security & Health;
- 4. Priority 4: Cultivating Resilient Ecosystems;
- 5. Priority 5: Translating Research Into Action.

For a program informational webinar please visit the <u>NIFA calendar</u> for dates, event registration, and link. If you need a reasonable accommodation to participate in any of the informational webinars listed, please contact the event host listed no later than 10 days prior to the event.

Additional requirements on expected performance goals, indicators, and targets may be required as a condition of an award issued per this RFA.

C. Program Area Description

The AFRI EWD Program Area 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). This RFA seeks applications for education and training grants that focus on further enhancing the distinct components of the pipeline for developing the workforce in the food and agricultural sciences. The AFRI EWD Program Area has four overarching goals:

- 1. <u>Growing Agricultural Literacy and Workforce Development for the Future</u> offers institutional grants to provide K-14 teachers and administrators with increased knowledge of the food and agricultural sciences and help them develop improved curricula to train the agricultural workforce for the future. See <u>Part I C.1</u> "Professional Development for Agricultural Literacy" (Program Code A7501).
- 2. <u>Training or Retraining of Agricultural Workers</u> provides institutional training grants to develop a technology- and data-savvy workforce ready for the field and industrial jobs. See <u>Part I C.2</u> for "Agricultural Workforce Training Grants at Community Colleges" (Program Code A7601).
- 3. Developing Pathways provides formal or non-formal education experiential learning for students to enter or gain skills applicable to the food and agriculture fields. This RFA seeks to support the development of non-formal education activities that cultivate interest and build public confidence in the safe and enhanced use of technology in food and agricultural sciences. See Part I C.3 for "Food and Agricultural Non-formal Education" (Program Code A7801). This RFA also offers grants that propose formal experiential learning for undergraduates in food, agriculture, or allied disciplines and helps them learn the technical and leadership skills required for employment in the food and agricultural sectors or in graduate programs. See Part I C.4 for "Research and Extension Experiences for

Undergraduates" (Program Code A7401).

4. Advancing Science supports graduate and post-graduate education in food and agriculture disciplines. See <u>Part I C.5</u> and <u>Part I C.6</u> for "Predoctoral Fellowships" (Program Code A7101) and "Postdoctoral Fellowships" (Program Code A7201), respectively.

Total EWD Program Funds – Approximately \$49 million. Additional projects submitted under this RFA will be considered should funding become available beyond the amount listed above.

Key Information Applicable to all AFRI EWD Program Area Priorities:

- 1. All applications must adhere to the requirements in *Part IV*.
- 2. All applications to the AFRI EWD Program Area must be aligned with at least one of the six AFRI Farm Bill priorities (*Part I A*) and must address the Program Area Priorities described subsequently.
- 3. All AFRI EWD projects are required to provide opportunities for development of leadership skills which are necessary for preparing project participants for agriculture-related careers in the private sector, government, and academia. Projects must demonstrably incorporate a leadership development component through competencies, such as critical thinking, problem-solving, teamwork, communication skills, and training in ethics and professionalism.
- 4. The AFRI EWD Program Area priorities anticipate funding projects with measurable outcomes/objectives. These may include but are not limited to: 1) number and duration of students and participants that are supported directly or undertaking internships, externships, certifications, and other experiential learning opportunities; 2) number of K-14 teachers, educational professionals, and/or students who indirectly benefit from the projects 3) number of international experiences; 4) number of publications, patents, and workshops; 5) quality of developed curricula materials, or academic programs; 6) success of recruitment and retention programs, especially for underrepresented groups; 7) quality of collaborations developed among institutions; 8) measurable changes in student learning or engagement; and 9) measurable changes in the number of graduates, especially underrepresented individuals, in food and agricultural science disciplines.
- 5. Applications from, and collaborations with, minority-serving institutions, small to midsized institutions, and/or institutions in Established Program to Stimulate Competitive Research (EPSCoR) states are welcome to apply to these Program Area priorities. Applications that include collaborations with international partners are also welcome. For information on NIFA international partnerships that may be of interest to applicants, see the <u>AFRI International Partnerships website</u>.
- 6. Indigenous traditional ecological knowledge is an acceptable topic of research, education, or extension for projects funded by this RFA in pursuit of the priorities, goals, and objectives of each program priority area.
- 7. A Mentoring Plan (MP) describing peer mentoring, layered mentoring, or similar mentoring activities is required for all Program Area Priorities in this RFA. For predoctoral and postdoctoral fellowships, please consult the specific Program Area priority's narrative guidance for mentoring plan requirements. If various education levels of students or scholars are represented in the application, the MP must address how mentoring will be different and targeted to the specific education level (youth,

Undergraduate, Graduate, Postgraduate, etc.), as appropriate. The MP should incorporate roles and responsibilities of the Project Director (PD) and Co-Project Directors, description of mentoring activities and timeline, and description of reasonable accommodations provided to program participants. Detailed information regarding the specific requirements of the MP for each Program Area Priority can be found under the description for each Program Area Priority in this RFA and in the "FY 2024 Education and Workforce Development RFA Additional Information for Part IV, C" PDF file in the attachments list on the <u>AFRI RFA Resources page</u> (see <u>Part IV C</u>).

Applications are solicited in the following six Program Area Priorities:

- 1. Professional Development for Agricultural Literacy (PDAL)
- 2. Agricultural Workforce Training at Community Colleges (AWT)
- 3. Food and Agricultural Non-Formal Education (FANE)
- 4. Research and Extension Experiences for Undergraduates (REEU)
- 5. Predoctoral Fellowships
- 6. Postdoctoral Fellowships

For a program informational webinar please visit the <u>NIFA calendar</u> for dates, event registration, and link. If you need a reasonable accommodation to participate in any of the informational webinars listed, please contact the event host listed no later than 10 days prior to the event.

1. Professional Development for Agricultural Literacy (PDAL)

Table 3: Professional Development for Agricultural Literacy Key Information

Title	Description
Program Code:	A7501
Program Code Name:	Professional Development for Agricultural Literacy
Assistance Listing Number	10.310
Project Type(s):	Education, Extension, or Integrated Projects only
Grant Type(s):	a. Standard Grants and FASE (Strengthening Standard)
	Grants <u>only</u>
	b. See <u>Part II C.2</u> for requirements specific to FASE Grant
	applications.
Application Deadline	FY 2024: Thursday, September 12, 2024 (5:00 p.m. Eastern
	Time)
Grant Duration:	36-48 months
Maximum Award	a. Including indirect costs: \$500,000
Amount(s):	b. A minimum of 50% of project direct costs requested must
	be for participant support.
	c. Each review cycle may award up to two grants per lead
	institution.
Program Area Priority	Dr. Kellyann Jones-Jamtgaard, (816) 599-1916 or
Contact(s):	kellyann.jonesjamtgaard@usda.gov

Program Area Priority:

The PDAL Program Area Priority seeks to increase the number of K-14 educational professionals trained in the food and agricultural sciences. Participants (teachers, post-

baccalaureate pre-service teachers, counselors, administrators) are expected to develop and apply skills necessary for integrating food and agricultural science concepts in their classes; explore the opportunities available in food and agricultural science career paths; and/or forge mentorships with professional and business leaders, and faculty at four-year institutions.

Education, Extension, or Integrated Projects must:

- a. Promote faculty expertise and encourage widespread implementation of educational innovation at K-14 levels in the food and agricultural sciences. This includes topics that contain elements of the human sciences (e.g., disciplines that address issues challenging individuals, youth, families, and communities).
- b. Provide immersive learning experiences (e.g., teacher hands-on research, teacher experiential learning), curriculum development and implementation, and teaching training for K-14 education professionals (e.g., teachers, counselors, administrators) and post-baccalaureate pre-service teachers to create and replicate best practices to improve student success outcomes within the food and agricultural sciences.
 - 1) Projects including curriculum development components must be led by or include key personnel with curriculum development credentials to ensure materials produced comply with the most appropriate pedagogy, teaching standards, and other applicable institutional, state, and national accreditation requirements,
 - 2) For the purposes of this Program Area priority, immersive learning experiences refer to those activities that allow the participant (i.e., K-14 education professionals) to learn by doing and participating in meaningful experiences. After being presented with a problem, participants research, try, solve, and reflect on the process allowing them to apply the lesson more broadly to their classroom, teaching, and lives.
- c. Non-exhaustive examples of projects include:
 - 1) 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.
 - 2) Changing instructional approaches to effectively identify skill gaps and address conceptual areas particularly challenging to students.
 - 3) Integrating innovations in science and pedagogy into existing professional development programs (e.g., through hands-on research and extension experiences with partner institutions and laboratories).
 - 4) Exploring self-sustaining web-based approaches for professional development for education professionals.
 - 5) Adapting curricula to train or retrain agricultural workforce for the future.
 - 6) Other methods to fill the existing gap of professional development in advanced food and agricultural sciences for education professionals at the K-14 education level.

Program Area Priority Additional Information:

- a. Requests exceeding budgetary guidelines will not be reviewed. Unless otherwise stated, grants are not renewable. This Program Area Priority accepts new and resubmitted applications only. Renewal applications are not accepted in this Program Area Priority.
- b. Application and submission information, including page limits and narrative font sizes, for this Program Area Priority is available in the "AFRI-EWD-RFA-Additional"

- Information-for-Part-IV-C-FY24" PDF in the attachments list on the <u>AFRI RFA</u> <u>Resources page</u>. Proposals that do not comply with these instructions may be excluded from review and consideration of funding.
- c. A minimum of 50% of project direct costs for PDAL projects must be for participant support, including items such as participant stipends, cost of subsistence (housing, meals) for immersive experiences, reasonable travel, classroom materials and teaching kits, and laboratory use fees.
- d. Use of undergraduate or graduate students as project staff is allowed under this Program Area priority as long as the requested effort support is allocable, reasonable, and necessary for the execution of the project. Undergraduate and graduate student tuition remission costs are not allowed.
- e. Projects that target elementary and middle school education are welcome.
- f. Projects are encouraged to integrate participant social-emotional skill development activities and training for effective in-person and/or virtual teaching.
- g. Projects that involve participation from industry and nonprofit organizations through collaborating mentors and/or that connect education professionals, particularly those from schools with limited resources, 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 welcome.
- h. As applicable, off-campus indirect cost rates should be charged if the majority of project activities are taking place off-site.
- i. If organized by the program, the PD will be required to attend one NIFA AFRI EWD PD meeting during the performance period of the award. Reasonable travel expenses must be included as part of the project budget. While budgets should account for this travel, NIFA may consider virtual, or hybrid meetings based on local and national pandemic conditions.
- j. Reasonable costs for evaluation and hiring of evaluation professionals may be included.
- k. A Mentoring Plan (MP) describing peer mentoring, layered mentoring or similar mentoring activities is required for this program. Detailed information regarding the specific requirements of the MP can be found in the "AFRI-EWD-RFA-Additional Information-for-Part-IV-C-FY24" PDF file in the attachments list on the <u>AFRI RFA Resources page</u> (see). The MP should include:
 - 1. The roles and responsibilities of the PD and Co-Project Directors in managing the mentoring process;
 - 2. Training for and/or credentials of individuals who will serve as mentors (i.e., mentor training). Mentors may be experienced mentors from academia, industry, or government or teaching peers at various levels who are expected to provide guidance, cultural support, and sense of community with the activities and facilitate the amplification of program-specific perspectives and accomplishments of the mentees;
 - 3. A description of mentoring activities that may include, but are not limited to, peer mentoring or layered mentoring, whereby a set of mentees are progressively mentored by others at a higher level in their careers; these activities should be incorporated into the overall project timeline; and
 - 4. A description of processes to ensure reasonable accommodations for program participants with disabilities or challenges with accessing program activities.

2. Agricultural Workforce Training at Community Colleges (AWT)

Table 4: Agricultural Workforce Training at Community Colleges Key Information

	vorkionee Training at Community Coneges Key Information
Title	Description
Program Code:	A7601
Program Code	Agricultural Workforce Training Grants
Name:	
Assistance Listing	10.310
Number:	
Project Type(s):	Education Projects only
	a. Education Projects only for Standard Grants and Strengthening
	Standard Grants
Grant Type(s):	a. Standard Grants, and FASE (Strengthening Standard) Grants only
	b. See <u>Part II C.2</u> for requirements specific to FASE Grant
	applications.
Application	FY 2024: Thursday, September 19, 2024 (5:00 p.m. Eastern Time)
Deadline	
Grant Duration:	a. 12-24 months for Design Projects Standard Grants and
	Strengthening Standard Grants
	b. 36-48 months for Implementation Projects Standard Grants and
	Strengthening Standard Grants
Maximum Award	a. Including indirect costs: \$250,000 for Design Project Standard
Amount(s):	Grants and Strengthening Standard Grants
	b. Including indirect costs: \$650,000 for Implementation Project
	Standard Grants and Strengthening Standard Grants
	c. Each review cycle may award up to two grants, in any project type
	combination, per lead institution
Program Area	Christopher Green, (856) 328-7396 or christopher.green@usda.gov
Priority Contact(s):	

Program Area Priority:

The AWT Program Area Priority seeks to develop a workforce ready for the field as well as industry jobs in the food and agricultural sector. Through the development of new workforce training programs, or the expansion, improvement, or renewal of existing workforce training programs at community, junior, and technical colleges/institutes, this program will expand job-based experiential learning opportunities, acquisition of industry-accepted credentials and occupational competencies for students to enable a work-ready labor force for the 21st century. Proposals aimed towards developing baccalaureate or graduate degree programs or pathways towards these degrees are not supported under this Program Area Priority.

In order to strengthen the capacity of Community Colleges, the AWT program is offering two focus areas: Design and Implementation, with distinct requirements, goals, timelines, and budget maximums. Design projects seek to support faculty and staff to design and develop new credentialed workforce training programs that will train the workforce once the credential is recognized by the cognizant institution. Design projects do not support nor require student

activities or training, but the development of training programs. On the other hand, Implementation projects seek to train students to acquire the skills and tools necessary to secure an industry-accepted credential and join the workforce. Implementations projects may update or expand existing workforce training programs, but these activities are restricted to the first year of the grant; the remaining project time must be allocated to student training. AWT applicants must design their proposal based on the focus area that best fits their project's goals, objectives, and timeline. Applicants need not have applied or received a Design or Implementation project grant to be eligible to apply or receive the other project type award.

Design Projects must address the following:

- a. Be developed and carried out by community/junior/technical colleges or institutes with active partnership of employers or other community partners.
- b. Design and develop new workforce training programs or stackable-credential frameworks in the food and agricultural sciences at community, junior, and technical colleges or institutes aimed at developing a workforce ready for field and industrial jobs.
- c. How the project or frameworks may link high school and community college education to enable participants to gain credentials to join, rejoin or advance in the workforce.
- d. Description of the type and relevance of the industry-accepted credential the workforce training program will provide to target participants.
- e. Description of the type and relevance of experiential learning opportunities that will allow participants to gain on-the-job training and exposure to work environments.
- f. Timeline and plan for the developed program or credential to be recognized by cognizant institutions.
- g. Applications must articulate benefits accrued from the design project and provide evidence of a high likelihood that quality future implementation applications will be submitted.

Implementation Projects must address the following:

- a. Provide students the skills and tools necessary to secure industry-accepted credentials to join the workforce upon participation completion.
- b. Be developed by, or in active partnership with, community/junior/technical colleges/institutes and their industry partners. All applications to this Program Area priority must demonstrate committed and active partnership with and relevance to industry.
- c. Expand and improve existing workforce training programs in the food and agricultural sciences at community, junior, and technical colleges/institutes to develop a workforce ready for field and industrial jobs.
- d. Describe the type and relevance of industry-accepted credential(s) the workforce training program will provide to target participants.
- e. Allocate a reasonable portion of the funds to student support, including items, such as participant stipends, course enrollment, hands-on training, laboratory use fees, credential testing fees, and other costs that will allow the participant to attain the credential they are being trained for.
- f. Applicants need not have applied or received a Design Project grant to be eligible for an Implementation Project grant.
- g. Non-exhaustive examples of projects include:
 - 1. Industry-based training programs/apprenticeships allowing students to earn while

- they learn;
- 2. Job-based, experiential learning opportunities that allow students more time working in job simulation or 'on-the-job' training environments;
- 3. Refreshing existing workforce development curriculum or development of stackable credential frameworks to meet the needs of the 21st century agricultural industry;
- 4. Opportunities for students to utilize appropriate cutting-edge technology and advanced data skills in their learning experiences.

Program Area Priority Additional Information:

- a. Requests exceeding budgetary guidelines will not be reviewed. Unless otherwise stated, grants are not renewable. This Program Area rPiority accepts new and resubmitted applications only. Renewal applications are not accepted in this Program Area priority.
- b. Application and submission information including page limits and narrative font sizes for this Program Area Priority is available in the "AFRI-EWD-RFA-Additional Informationfor-Part-IV-C-FY24" PDF in the attachments list on the <u>AFRI RFA Resources page</u>. Proposals that do not comply with these instructions may be excluded from review and consideration of funding.
- c. Projects including curriculum development components must be led by or include key personnel with curriculum development credentials to ensure materials produced comply with the most appropriate pedagogy, teaching standards, and other applicable institutional, state, and national accreditation requirements.
- d. Curriculum for workforce training developed, expanded, or improved under this Program Area Priority must lead participants to earn a technical certificate, stackable credential, 2-year associates or technical degree or other industry accepted credential. (Certificates, training, or coursework for/part of baccalaureate or post-graduate degrees or training are not supported under this Program Area Priority).
- e. Funds requested may include but are not limited to support for participant stipends and travel, costs of course enrollment, provider personnel salaries, software, and curricula.
- f. Use of 4-year undergraduate or graduate students as project staff is allowed under this Program Area Priority as long as the requested effort support is allocable, reasonable, and necessary for the execution of the project. Four-year undergraduate and graduate student tuition remission costs are not allowed.
- g. Projects that involve partnerships with local government, economic development organizations, and workforce-focused nonprofit organizations are welcome.
- h. Self-sustaining projects that will continue after grants funds expire are welcome as well as those that target high-unemployment geographic areas or underrepresented groups.
- i. As applicable, off-campus indirect cost rates should be charged if most of project activities are taking place off-site.
- j. If organized by the program, the PD will be required to attend one NIFA AFRI EWD PD meeting during the performance period of the award. Reasonable travel expenses must be included as part of the project budget. While budgets should account for this travel, NIFA may consider virtual, or hybrid meetings based on local and national pandemic conditions.
- k. Reasonable costs for evaluation and hiring of evaluation professionals may be included.
- 1. A Mentoring Plan (MP) describing peer mentoring, layered mentoring or similar

mentoring activities is required for this program. Detailed information regarding the specific requirements of the MP can be found in the "AFRI-EWD-RFA-Additional Information-for-Part-IV-C-FY24" PDF file in the attachments list on the <u>AFRI RFA Resources page</u>). The MP should include:

- 1. The roles and responsibilities of the PD and Co-Project Directors in managing the mentoring process;
- 2. Training for and/or credentials of individuals who will serve as mentors (i.e., mentor training). Mentors may be experienced mentors from academia, industry, or government, or student peers at various levels who are expected to provide guidance, cultural support, and sense of community with the activities and facilitate the amplification of program-specific perspectives and accomplishments of the mentees;
- 3. A description of mentoring activities that may include, but are not limited to, peer mentoring or layered mentoring, whereby a set of mentees are progressively mentored by others at a higher level in their careers; these activities should be incorporated into the overall project timeline; and
- 4. A description of processes to ensure reasonable accommodations for program participants with disabilities or challenges with accessing program activities. Scholarship programs should include plans to accommodate scholarship recipients who find it necessary to interrupt their program of study because of health, personal, or other reasonable non-academic and non-disciplinary cause(s).

3. Food and Agricultural Non-Formal Education (FANE)

 Table 5: Food and Agricultural Non-Formal Education Key Information

	icultural Non-Political Education Rey Information
Title	Description
Program Code:	A7801
Program Code	Food and Agricultural Non-Formal Education
Name:	
Assistance Listing	10.310
Number	
Project Type(s):	Extension, Education, or Integrated Projects only
Grant Type(s):	a. Standard and FASE (Strengthening Standard) Grants only
	b. See <u>Part II C.2</u> for requirements specific to FASE Grant
	applications.
Application	FY 2024: Thursday, December 5, 2024 (5:00 p.m. Eastern Time)
Deadline	
Grant Duration:	36-48 months
Maximum Award	a. Including indirect costs: \$750,000
Amount(s):	b. Funds requested may include but are not limited to support of
	participant stipends and travel; provider personnel salaries;
	software; and curricula.
Program Area	Dr. Jeff Sallee, (816) 814-4746 or jeffrey.sallee@usda.gov
Priority Contact(s):	

Program Area Priority:

Major advances in agricultural productivity and rural prosperity in the past have resulted from

transformative technologies, such as breeding tools and strategies, mechanization, and prudent use of agrochemicals. There are several emerging technologies that hold a similar promise. This Program Area priority will support content development and activities for non-formal education to foster development of technology-savvy youth. Projects must adopt or develop curriculum and activities to cultivate interest and competencies in STEM and in food and agricultural sciences supported by the six Farm Bill Priority areas of AFRI. Data science, including artificial intelligence, automation, robotics, gene editing, biotechnology and other projects involving emerging technologies will be supported in this Program Area Priority.

FANE applications must address the following:

- a. Develop curriculum and activities to enhance youth's understanding of gene editing, biotechnology, data science, artificial intelligence, robotics, automation, and other technologies that enhance the food and agricultural enterprise and prepares them to help meet the needs of the future workforce through enhanced non-formal education modules.
- b. Develop outreach materials that clearly communicate the demonstrated benefits of agricultural technologies.
- c. Complement and build upon programs that have successfully demonstrated positive youth development strategies and outcomes (i.e., 4-H programming, Agriculture in the Classroom, FDA's Agricultural Biotechnology Education and Outreach Initiative, etc.).
- d. Involve youth in the design, execution, and evaluation of activities that lead to the development of consumer-friendly content that builds public confidence in the safe use of data science, biotechnology and other emerging technologies in agriculture and the food system.

Program Area Priority Additional Information:

- a. Requests exceeding budgetary guidelines will not be reviewed. Unless otherwise stated, grants are not renewable. This Program Area priority accepts new and resubmitted applications only. Renewal applications are not accepted in this Program Area Priority.
- b. Application and submission information including page limits and narrative font sizes for this Program Area Priority is available in the "AFRI-EWD-RFA-Additional Informationfor-Part-IV-C-FY24" PDF in the attachments list on the AFRI RFA Resources page. Proposals that do not comply with these instructions will be excluded from review and consideration of funding.
- c. Projects that enhance access and interest in innovative agricultural technology (e.g., data science and artificial intelligence, robotics and automation, gene editing, biotechnology and other emerging technologies) education for communities underrepresented in STEM education and utilize a whole-child approach to promote learning about agricultural technology in food and agriculture are welcome.
- d. Projects that promote team, active learning, and resiliency are welcome.
- e. Projects must institute an evaluation system to assess participant learning and outcomes throughout the duration of the project.
- f. Projects should be designed for youth in K-12, however if a positive youth development program serves a similar age range outside the K-12 boundaries, allowances can be made with justification.
- g. Projects 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 welcome.
- h. As applicable, off-campus indirect cost rates should be charged if the majority of project activities take place off-site.
- i. If organized by the program, the PD will be required to attend one NIFA AFRI PD meeting during the performance period of the award. Reasonable travel expenses must be included as part of the project budget. While budgets should account for this travel, NIFA may consider virtual, or hybrid meetings based on local and national pandemic conditions.
- j. Reasonable costs for evaluation and hiring of evaluation professionals may be included.
- k. A Mentoring Plan (MP) describing peer mentoring, layered mentoring or similar mentoring activities is required for this program. Detailed information regarding the specific requirements of the MP can be found in the "AFRI-EWD-RFA-Additional Information-for-Part-IV-C-FY24" PDF file in the attachments list on the AFRI RFA Resources page (see *Part IV C*). The MP should include:
 - 1. The roles and responsibilities of the PD and Co-Project Directors in managing the mentoring process;
 - 2. Training for and/or credentials of individuals who will serve as mentors (i.e., mentor training). Mentors may be experienced mentors from academia, industry, or government, or student peers at various levels who are expected to provide guidance, cultural support, and sense of community with the activities and facilitate the amplification of program-specific perspectives and accomplishments of the mentees;
 - 3. A description of mentoring activities that may include, but are not limited to, peer mentoring or layered mentoring, whereby a set of mentees are progressively mentored by others at a higher level in their careers; these activities should be incorporated into the overall project timeline;
 - 4. A description of processes to ensure reasonable accommodations for program participants with disabilities or challenges with accessing program activities. Scholarship programs should include plans to accommodate scholarship recipients who find it necessary to interrupt their program of study because of health, personal, or other reasonable non-academic and non-disciplinary cause(s).

4. Research and Extension Experiences for Undergraduates (REEU)

Table 6: Research and Extension Experiences for Undergraduates Key Information

Title	Description
Program Code:	A7401
Program Code	Research and Extension Experiences for Undergraduates
Name:	
Assistance Listing	10.310
Number	
Project Type(s):	Research, Extension, Education, or Integrated Projects
Grant Type(s):	a. Standard Grants and FASE (Strengthening Standard) Grants only
	b. See <u>Part II § C.2</u> for requirements specific to FASE Grant
	applications.
Application	FY 2024: Thursday, August 15, 2024 (5:00 p.m. Eastern Time)
Deadline	10 60 1
Grant Duration:	a. 48 or 60 months
Maximum Award	a. Including indirect costs: \$600,000 for 48-month REEU projects;
Amount(s):	\$750,000 for 60-month REEU projects
	1) Project costs for REEU projects 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).
	2) Tuition for course credit and promotional items are not
	allowable costs in this program.
	3) Each review cycle may award up to two REEU projects per
	lead institution.
Program Area	Dr. Michelle Schelske-Santos, (757) 378-8380 or michelle.schelske-
Priority Contact(s):	santos@usda.gov

Program Area Priority:

The REEU Program Area Priority promotes research and extension learning experiences for undergraduates such that upon graduation they may enter the agricultural workforce with exceptional skills. This initiative allows colleges and universities to provide opportunities for undergraduate students, including those from underrepresented and economically disadvantaged groups, minority-serving institutions, community colleges, and universities.

Projects must provide undergraduate students with experiential learning opportunities that include significant research, extension/outreach, and/or education components in the food and agricultural sciences.

Also, of interest are the projects that provide experiences in innovative agricultural technologies, including data science and artificial intelligence, robotics and automation, and gene editing. Additionally, NIFA supports <u>nutrition security</u>, which is defined as having consistent access, availability, and affordability of foods and beverages that promote well-being and prevent (and if

needed, treat) disease, particularly among our nation's most socially disadvantaged populations. Promoting nutrition security is a critical ingredient to containing the COVID-19 pandemic, ensuring racial justice and equity, rebuilding the rural economy, addressing the impacts of climate change, providing open markets and fair trade, and reinvigorating a competitive workforce.

Non-exhaustive examples of experiential projects include:

- a. Research and extension apprenticeships, internships, or similar participatory learning within the six AFRI Farm Bill priority areas.
- b. Practicums in agricultural laboratories, farms, or Cooperative Extension programs.
- c. Externships in the private or public sector.
- d. Study abroad focused on global food security issues to develop global competency skills.

Program Area Priority Additional Information:

- a. Requests exceeding budgetary guidelines will not be reviewed. Unless otherwise stated, grants are not renewable. This Program Area Priority accepts new and resubmitted applications. Renewal applications will not be accepted.
- b. Application and submission information including page limits and narrative font sizes for this Program Area Priority is available in the "AFRI-EWD-RFA-Additional Informationfor-Part-IV-C-FY24" PDF in the attachments list on the <u>AFRI RFA Resources page</u>. Proposals that do not comply with these instructions may be excluded from review and consideration of funding.
- c. Projects must provide opportunities to include hands-on experiences for undergraduate students at colleges and universities, especially those from underrepresented and economically disadvantaged groups, veterans, first generation college students, students at minority-serving institutions and community colleges.
- d. At least 50% of the undergraduate fellows must come from outside the host institution or organization, particularly from small institutions where opportunities are not easily available for these experiences.
- e. Participating students 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.
- f. 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 welcome.
- g. 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 welcome.
- h. 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 welcome.
- i. Projects should develop a plan for tracking students, beyond their participation in the program that demonstrates the impacts of the program on career choices and post-graduation employment and/or enrollment in higher education.
- j. If organized by the program or the coordination network, the PD will be required to

- attend one NIFA AFRI EWD PD meeting during the performance period of the award. Reasonable travel expenses must be included as part of the project budget. While budgets should account for this travel, NIFA may consider virtual, or hybrid meetings based on local and national pandemic conditions.
- k. Awarded projects are required to maintain a website, linked to a central REEU webpage to be hosted by the REEU Coordinated Education Network, which describes the program, eligibility for student participation, and application guidelines.
- 1. Previously awarded REEU projects that wish to continue their program, should reapply as a new application, and include a progress report detailed in <u>Part IV C</u>. These applications will be competed with new and resubmitted applications.
- m. Reasonable costs for evaluation and hiring of evaluation professionals may be included.
- n. A Mentoring Plan (MP) describing peer mentoring, layered mentoring or similar mentoring activities is required for this program. Detailed information regarding the specific requirements of the MP can be found in the "AFRI-EWD-RFA-Additional Information-for-Part-IV-C-FY24" PDF file in the attachments list on the <u>AFRI RFA Resources page</u> (see <u>Part IV C</u>). The MP should include:
 - 1. The roles and responsibilities of the PD and Co-Project Directors in managing the mentoring process;
 - 2. Training for and/or credentials of individuals who will serve as mentors (i.e., mentor training). Mentors may be experienced mentors from academia, industry, or government, or student peers at various levels who are expected to provide guidance, cultural support, and sense of community with the activities and facilitate the amplification of program-specific perspectives and accomplishments of the mentees;
 - 3. A description of mentoring activities that may include, but are not limited to, peer mentoring or layered mentoring, whereby a set of mentees are progressively mentored by others at a higher level in their careers; these activities should be incorporated into the overall project timeline;
 - 4. A description of processes to ensure reasonable accommodations for program participants with disabilities or challenges with accessing program activities. Scholarship programs should include plans to accommodate scholarship recipients who find it necessary to interrupt their program of study because of health, personal, or other reasonable non-academic and non-disciplinary cause(s).

5. Predoctoral Fellowships

Table 7: Predoctoral Fellowships Key Information

Tuble 7. Tredoctoral Te	Table 7. I redoctoral I chowships ixey information		
Title	Description		
Program Code:	A7101		
Program Code	Predoctoral Fellowships		
Name:			
Assistance Listing	10.310		
Number			
Project Type(s):	Research, Education, Extension, or Integrated Projects		
Grant Type(s):	a. Predoctoral Fellowship Grants only		
	a. See <u>Part II C.2</u> for requirements specific to FASE Grant		
	applications.		
Application	FY 2024: Thursday, October 24, 2024 (5:00 p.m. Eastern Time)		
Deadline			
Grant Duration:	Up to 36 months		
Maximum Award	a. Including institutional allowance: \$180,000 total per project and		
Amount(s):	are limited to a total of \$60,000 per year for the following:		
	1) Up to \$35,000 per year stipend		
	2) Up to \$22,000 per year tuition, fees, fringe benefits, supplies,		
	travel, workshops, and publications		
	3) Up to \$3,000 per year institutional allowance, in lieu of indirect		
	costs which are not permitted on Predoctoral Fellowship Grants		
	4) With the exception of the stipend, awarded funds in other		
	budget categories may be carried over from one year to other		
	years. The stipend is capped at \$35,000 per year and cannot be		
	carried over from year one to the next.		
Program Area	Dr. Ray Ali, (816) 926-1453 or <u>nifafellows@usda.gov</u>		
Priority Contact(s):			

Program Area Priority:

The Predoctoral Fellowships Program Area Priority help develop new scientists and professionals to enter research, education, and/or extension fields within the food and agricultural sciences within the private sector, government, or academia. The aim of these fellowships is to cultivate future leaders who can solve emerging agricultural challenges of the 21st century. NIFA is particularly interested in supporting fellows that address (1) sustainable agricultural intensification; (2) agricultural climate adaptation; (3) food and nutrition translation; (4) value-added innovation; and (5) agricultural science policy leadership.

Research, education, extension, and integrated research, education, and/or extension projects must include all of the following:

- a. Objectives that are aligned with one or more of the six AFRI priority areas (as described in **Part I, A**);
- b. Well-developed academic experiences and global competencies;
- c. Productive and interactive mentoring plans;
- d. Appropriate and applicable training/career development activities; and

e. Substantive evaluation plans (see <u>Part IV C</u> for additional information).

Eligible Predoctoral Fellows – The individual predoctoral PD must be a citizen, national, or permanent resident of the United States and, as per CFR 3430.303, have advanced to candidacy, as per institutional requirements, by:

a. Fiscal Year 2024 competition: October 24, 2024

Documentation from the graduate advisor or the institution must be provided 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 or master's degrees, who meet the above criteria, may apply.

While the Predoctoral Fellowships area priority is a component of the AFRI Food and Agriculture Science Enhancement (FASE) funding opportunity, the applicant fellow need not be from, or planning to carry out the fellowship project at, a Strengthening-eligible institution to be eligible for this fellowship program.

Program Area Priority Additional Information:

- a. Requests exceeding budgetary guidelines will not be reviewed. Unless otherwise stated, grants are not renewable. This Program Area Priority only accepts new and resubmitted applications. Renewal applications will not be accepted.
- b. Application and submission information including page limits and narrative font sizes for this Program Area Priority is available in the "AFRI-EWD-RFA-Additional Informationfor-Part-IV-C-FY24" PDF in the attachments list on the <u>AFRI RFA Resources page</u>. Proposals that do not comply with these instructions may be excluded from review and consideration of funding.
- c. Applicants from underrepresented groups are welcome to apply.
- d. 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). We highly recommend that applications be submitted through the mentor's institution with the mentor institution listed as the applicant.
- e. 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.
- f. The applicant must identify the functional focus of the fellowship (i.e., Research, Education, Extension, or Integrated) leading to a doctoral degree.
- g. The selection of disciplines to address an issue is to be determined by the prospective applicant in consultation with appropriate mentors.
- h. Evidence of scholastic achievement should be demonstrated through current doctoral transcript, program of study, and/or other academic successes.
- i. This priority area welcomes multidisciplinary, transdisciplinary, and applied approaches that involve industry participation and/or international experiences (e.g., through collaborating mentors) as appropriate.
- j. 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. As part of the

- Fellows' professional development, attendance at scientific or professional meetings and experiences in industry or at field locations aimed at the development of skills in the applied sciences are welcome.
- k. If organized by the program, the PD will be required to attend one NIFA AFRI EWD PD meeting during the performance period of the award. Reasonable travel expenses must be included as part of the project budget. While budgets should account for this travel, NIFA may consider virtual, or hybrid meetings.
- l. Consistent with the program goal of fostering career independence, NIFA Predoctoral 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 substantively completes at least 50% of the fellowship performance period (e.g., 12 months for a 24-month award, 18 months for a 36-month award). Note that actual performance may occur prior to the official award start date and must be validated by the Authorized Representative (AR). The conversion process includes the following:
 - 1. A letter (PDF) from the PD indicating objectives completed, funds remaining, timeline involved, etc. Said letter must be signed by the AR.
 - 2. A letter (PDF) from the mentor attesting to the fellowship accomplishments that might be considered towards substantive fellowship performance (i.e., commencement date of actual performance, time spent on career development and planning/training, mentoring, project planning, etc.).
 - 3. Email both letters to the National Program Leader (Program Point of Contact on the Award Face Sheet). If initially agreed upon by the National Program Leader, additional institutional administrative processes need to take place (e.g., relinquishment, submission of an application, revised budget, etc.). Said processes must be executed within the performance period of the original award. NIFA reserves the right to approve or deny the conversion request. Note: Predoctoral Fellowships cannot be converted into Postdoctoral Fellowships.

6. Postdoctoral Fellowships

 Table 8: Postdoctoral Fellowships Key Information

Table 6. I Ostdoctoral I	
Title	Description
Program Code:	A7201
Program Code	Postdoctoral Fellowships
Name:	
Assistance Listing	10.310
Number	
Project Type(s):	Research, Education, Extension, or Integrated Projects
Grant Type(s):	a. Postdoctoral Fellowship Grants only
	b. See <u>Part II C.2</u> for requirements specific to FASE Grant
	applications.
Application	FY 2024: Thursday, September 5, 2024 (5:00 p.m. Eastern Time)
Deadline	
Grant Duration:	Up to 24 months
Maximum Award	a. Including institutional allowance: \$225,000
Amount(s):	1) Funds must be requested primarily for salary or stipend and be
	properly justified
1	
	2) Other expenditures (e.g., fringe benefits, supplies, travel,
	1 1 7 7
	2) Other expenditures (e.g., fringe benefits, supplies, travel,
	2) Other expenditures (e.g., fringe benefits, supplies, travel, workshops, and publications) may not exceed \$60,000 per year
	2) Other expenditures (e.g., fringe benefits, supplies, travel, workshops, and publications) may not exceed \$60,000 per year and must be itemized and properly justified
	 2) Other expenditures (e.g., fringe benefits, supplies, travel, workshops, and publications) may not exceed \$60,000 per year and must be itemized and properly justified 3) Up to \$3,000 per year institutional allowance, in lieu of indirect
Program Area	 Other expenditures (e.g., fringe benefits, supplies, travel, workshops, and publications) may not exceed \$60,000 per year and must be itemized and properly justified Up to \$3,000 per year institutional allowance, in lieu of indirect costs which are not permitted on Postdoctoral Fellowship

Program Area Priority:

The Postdoctoral Fellowships Program Area Priority helps to develop new scientists and professionals to enter research, education, and/or extension fields within the food and agricultural sciences within the private sector, government, or academia. The aim of these fellowships is to cultivate future leaders who can solve emerging agricultural challenges of the 21st century. NIFA is particularly interested in supporting fellows that address (1) sustainable agricultural intensification; (2) agricultural climate adaptation; (3) food and nutrition translation; (4) value-added innovation; and (5) agricultural science policy leadership.

Research, education, extension and integrated research, education and/or extension projects must include all of the following:

- a. Objectives that are aligned with one or more of the six AFRI priority areas;
- b. Well-developed academic experiences and global competencies;
- c. Productive and interactive mentoring;
- d. Appropriate and applicable training/career development activities; and
- e. Substantive evaluation plans.

Eligible Postdoctoral Fellows – As per 7 CFR 3430.303, all doctoral degree requirements must be satisfied by:

a. Fiscal Year 2024 competition: no earlier than January 1, 2021, and no later than June 5, 2025.

Documentation from the graduate advisor, graduate committee, or the institution must be provided by the application deadline. The postdoctoral PD must be a citizen, national, or permanent resident of the United States.

While the Postdoctoral Fellowships area priority is a component of the AFRI Food and Agriculture Science Enhancement (FASE) funding opportunity, the applicant fellow need not be from or planning to carry out the fellowship project at a Strengthening-eligible institution to be eligible for this fellowship program.

Program Area Priority Additional Information:

- a. Requests exceeding budgetary guidelines will not be reviewed. Unless otherwise stated, grants are not renewable. This Program Area Priority accepts new and resubmitted applications only. Renewal applications will not be accepted in this Program Area Priority.
- b. Application and submission information including page limits and narrative font sizes for this Program Area Priority is available in the "AFRI-EWD-RFA-Additional Informationfor-Part-IV-C-FY24" PDF in the attachments list on the <u>AFRI RFA Resources page</u>. . Proposals that do not comply with these instructions may be excluded from review and consideration of funding.
- c. 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.
- d. 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.
- e. Note that the Program Area Priority Additional Information identified for Predoctoral Fellowships also applies to Postdoctoral Fellowships.
- f. 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.
- g. All postdoctoral proposals must follow the AFRI EWD guidance, including Part IV, C. instructions and due date. Note that postdoctoral proposals must indicate program code <u>A7201</u> in the SF-424 (application package).
- h. The **postdoctoral applicant**, in their Project Summary/Abstract, should indicate the Priority Area name, Program Area name, and Program Area Priority Code from the AFRI Foundational and Applied Science (FAS) request for applications that most closely topically matches the proposed postdoctoral project plan. **Postdoctoral proposals** will be reviewed within a respective AFRI FAS Program Area. A table of the AFRI Foundational and Applied Science Priority and Program Areas, along with Priority Codes and other

- information is in Part IV C, and can be found at <u>FY 2024 AFRI Foundational and Applied Science RFA (usda.gov)</u> Do not use a FAS program code in the SF-424, or the application is at risk of not receiving a review.
- i. This priority area encourages multidisciplinary, transdisciplinary, and applied approaches that involve industry participation and/or international experiences (e.g., through collaborating mentors) as appropriate.
- j. If organized, the PD will be required to attend one NIFA AFRI EWD PD meeting during the performance period of the award. The PD is also required to attend a PD meeting of the Foundational and Applied Science Program Area priority or the Sustainable Agricultural Systems program 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. While budgets should account for this travel, NIFA may consider virtual, or hybrid meetings.
- k. Consistent with the program goal of fostering career independence, NIFA 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 substantively completes at least 50% of the fellowship performance period (e.g., 12 months for a 24-month award, 18 months for a 36-month award). Note that actual performance may occur prior to the official award start date and must be validated by the Authorized Representative (AR). The conversion process includes the following:
 - 1. A letter (PDF) from the PD indicating objectives completed, funds remaining, timeline involved, etc. Said letter must be signed by the AR.
 - 2. A letter (PDF) from the mentor attesting to the fellowship accomplishments that might be considered towards substantive fellowship performance (i.e., commencement date of actual performance, time spent on career development and planning/training, mentoring, project planning, etc.).
 - 3. Email both letters to the National Program Leader (Program Point of Contact on the Award Face Sheet). If initially agreed upon by the National Program Leader, additional institutional administrative processes need to take place (e.g., relinquishment, submission of an application, revised budget, etc.). Said processes must be executed within the performance period of the original award. NIFA reserves the right to approve or deny the conversion request.

PART II. AWARD INFORMATION

A. Available Funding

This RFA is being released prior to the passage of a full appropriations act for FY 2025. Enactment of a continuing resolution, appropriations act, or other authorizing legislation may affect the availability or level of funding for this program.

The amount available for the AFRI Education and Workforce Development RFA in FY 2025 is approximately \$49,000,000. Additional projects submitted under this RFA will be considered should additional funding become available beyond the amount listed above. USDA is not committed to fund any particular application or to make a specific number of awards.

The anticipated amount available to support all AFRI program areas in all three RFAs is approximately \$455 million of appropriated funding for FY 2025.

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 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 Grants including Equipment Grants).

Of the approximately \$49 million total available from FY 2025 to support the Program Area priorities in this RFA, no less than 11.25% will be made available for Strengthening grant types under the FASE program.

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. USDA is not committed to fund any particular application or to make a specific number of awards.

The <u>Automated Standard Application for Payments</u>, operated by the Department of Treasury, Bureau of Fiscal Service, is the designated payment system for awards resulting from this RFA.

B. Application Restrictions

NIFA will evaluate applications using the criteria described in <u>Part V</u>. Application for FY 2024 is limited to the following application types:

- 1. *New application*: New applications will be evaluated using the criteria described in <u>Part V</u> and are subject to the due dates herein (see <u>Appendix III</u> for definition).
- 2. *Resubmitted application*: Resubmitted applications must include the response to the previous review panel summary and are subject to the same criteria and due dates herein.

Resubmitted applicants must enter the NIFA-assigned proposal number of the previously submitted application in the *Federal Field (Field 4)* on the application form (see *Appendix III* for definition).

C. Project and Grant Types

The following describes the types of *projects* or *grants* that are eligible for funding:

- 1. **Project Types.** Applicants must propose one of the AFRI project types specified within the relevant Program Area Priority descriptions in Part I C. Only project types specifically solicited under each Program Area Priority described in Part I C will be considered for review. A detailed description of the project types (Research, Education, Extension, and Integrated Research, Education, and/or Extension) available across all AFRI RFAs is in the "AFRI Project Types" PDF in the attachments list on the AFRI RFA Resources page. An Integrated Project includes at least two of the three functions of the agricultural knowledge system (i.e., research, education, and extension) within a project.
- 2. **Grant Types**. Applicants must select the appropriate AFRI grant type specified within the relevant Program Area Priority Descriptions in Part I C. Only grant types specifically solicited under each Program Area Priority described in Part I C will be considered for review. A detailed description of the grant types (Standard Grants, Coordinated Agricultural Projects, Conference Grants, Collaborative Grants, and FASE Grants) available across all AFRI RFAs is in the "AFRI Grant Types" PDF in the attachments list on the AFRI RFA Resources page.

D. Ethical Conduct of Funded Projects

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 must, upon request, make available to NIFA the policies, procedures, and documentation to support the conduct of the training. See Responsible and Ethical Conduct of Research for further information.

PART III. ELIGIBILITY INFORMATION

A. Eligibility Requirements

Applicants for AFRI must meet all the requirements discussed in this RFA. Failure to meet the eligibility criteria by the application deadline may result in exclusion from consideration or, preclude NIFA from making an award. For those new to Federal financial assistance, NIFA's Grants Overview provides highly recommended information about grants and other resources to help understand the Federal awards process.

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:

- a) State Agricultural Experiment Station;
- b) colleges and universities (including junior colleges offering associate degrees or higher);
- c) university research foundations;
- d) other research institutions and organizations;
- e) Federal agencies;
- f) national laboratories;
- g) private organizations or corporations;
- h) individuals who are U.S. citizens, nationals, or permanent residents; and
- i) 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:

- a) colleges and universities;
- b) 1994 Land-Grant Institutions; and
- c) Hispanic-serving agricultural colleges and universities (see <u>NIFA's Hispanic-Serving Agricultural Colleges and Universities page</u>).

For item a) under Integrated Projects, the terms "college" and "university" mean an educational institution in any state which:

- a) 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;
- b) is legally authorized within such state to provide a program of education beyond secondary education;
- c) provides an educational program for which a bachelor's degree or any other higher degree is awarded;
- d) is a public or other nonprofit institution; and
- e) 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

<u>Part II C.2</u> contains the eligibility details for Food and Agricultural Science Enhancement (FASE) Grants. Note that under FASE program, New Investigator, Strengthening Standard, Strengthening Conference, Seed, Equipment and Sabbatical Grants are solicited in this RFA.

Applicants must respond to the Program Area priorities and deadlines found in <u>Part I C</u>. 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 <u>Part III B</u>).

Duplicate or Multiple Submissions – submission of duplicate or predominantly overlapping applications is not allowed. NIFA will disqualify both applications if an applicant submits multiple applications that are duplicative or substantially overlapping to NIFA programs within the same fiscal year. For those new to Federal financial assistance, NIFA's Grants Overview provides highly recommended information about grants and other resources to help understand the Federal awards process.

B. Request for Determination of Status

1. Minority-Serving Institution

If an institution is applying for a Strengthening Grant (see <u>Part II C</u>) and wants the Secretary to consider a group, beyond one included in the minority definition (see <u>Appendix III</u>), then documentation (see below) must be submitted as part of the requestor's LOI (if required) and the full application package <u>(Part IV C)</u> by the applicable Program Area Priority deadline. The Secretary of Agriculture (or designated individual) will use the information in the documentation to determine whether the group or groups identified are qualified as a minority group for the purpose of receiving a Strengthening Grant under the FASE program (for Strengthening Grants information, refer to the "AFRI Grant Types" PDF in the attachments list on the <u>AFRI RFA</u> <u>Resources page</u>).

Documentation for the request for determination as a minority-serving institution must include the following and be provided in the order specified below:

- a. A description of each minority group being submitted for determination;
- 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

All institutions grouped under one main campus as listed in Table 1 following <u>Appendix III</u>, unless located in an Established Program to Stimulate Competitive Research (EPSCoR) state (listed in <u>Part II C.2</u>), are excluded from eligibility for all strengthening funds. However, if any campus within a multi-campus listing can provide information demonstrating that it is administratively independent or has an independent accreditation,

then the institution may petition for an exemption to this rule and request eligibility for strengthening funds. The LOI (if required) and the application must include a letter indicating how the institution is independent of the main campus, either through accreditation or administration, how the institution is 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. The letter must be signed by the Authorized Representative (AR).

C. Cost Sharing or Matching

Applicants MUST provide matching contributions on a dollar-for-dollar basis for all Federal funds awarded under AFRI for applied research grants unless a waiver applies. Matching funds requirements for AFRI programs included in this RFA may be found at 7 U.S.C. 3157 (b)(9) (A-C).

For Applied Research Grants:

Match Required –If an applied Research (see Appendix III) Project 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. (7 U.S.C. 3157(9)C)

1. Match not required – If the applied research or integrated project with an applied research component is not commodity specific or is national in scope, then no match is required.

D. Centers of Excellence

Pursuant to Section 7214 of the Agricultural Act of 2014 (<u>7 U.S.C. 5926</u>), , NIFA will recognize and prioritize Center of Excellence (COE) applicants that carry out research, extension, and education activities that relate to the food and agricultural sciences. 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 recognition and priority is available only for the **Standard Grant and the Coordinated Agricultural Project (CAP) Grant** applications submitted to the Program Area priorities in the Education and Workforce Development, Foundational and Applied Science, and Sustainable Agricultural Systems RFAs. If applicable, <u>Part IV C</u>, of the RFA contains additional requirements for COE consideration.

PART IV. APPLICATION AND SUBMISSION

A. Letter of Intent

Not required for any Program Area in this RFA in FY2024.

B. Method of Application

Applicants must apply to this RFA electronically; no other method or response is accepted. The electronic application for this RFA and additional resources are available on <u>Grants.gov</u> and <u>Grants 101</u>. **Table 9** provides instructions on how to obtain an electronic application. **Part III** of the <u>NIFA Grants Application Guide</u> contains detailed information regarding the <u>Grants.gov</u> registration process. <u>The NIFA Grants Application Guide</u> is contained in the specific funding opportunity package or a sample of the guide can be found <u>here</u>. When applying for a NIFA award, it is important to reference the version of the guide that is included in the specific funding opportunity application package.

Table 9: Steps to Obtain Application Materials

Steps	Action
Step One: Register	New Users to Grants.gov must register early with Grants.gov prior to submitting an application (Register Here).
Step Two: Download Adobe	Download and Install <u>Adobe Reader</u> (see <u>Adobe Software Compatibility</u> for basic system requirements).
Step Three: Find Application	Using this funding opportunity number USDA-NIFA-AFRI-010693, search for application here: Opportunity Package.
Step Four: Assess Readiness	Contact an AR prior to starting an application to assess the organization's readiness to submit an electronic application.

Table 10: Help and Resources

Grants.gov Support	NIFA Support
Grants.gov Online Support	Email:
Telephone support: 800-518-4726 Toll-Free or 606-	grantapplicationquestions@usda.gov
545-5035	
Email support@grants.gov	Key Information: Business hours:
Self-service customer-based support:	Monday thru Friday, 7a.m. – 5p.m. ET,
Key Information: Customer service business Hours	except Federal holidays
24/7, except Federal holidays.	

C. Content and Form of the Application

The NIFA Grants Application Guide is part of the corresponding application package for this RFA. The RFA overrides the NIFA Grants Application Guide if there is a discrepancy between the two documents. Applicants that do not meet the application requirements, to include partial applications, risk being excluded from NIFA's review. NIFA will assign a proposal number to all

applications that meet the requirements of this RFA. Applicants must refer to the proposal number when corresponding with NIFA. **Table 11** outlines other key instructions for applicants.

Table 11: Key Application Instructions

Instruction	References (All references are to the <u>NIFA Grants</u> <u>Application Guide</u>)
Attachments must be in a portable document format (PDF) format.	Part IV
Check the manifest of submitted files to verify attachments are in the correct format.	Part IV
Conduct an administrative review of the application before submission.	Part IV
Follow the submission instructions.	Part IV
Provide an accurate email address, where designated, on the SF-424 R&R.	Part V
Contact the <u>Grants.gov</u> helpdesk for technical support and keep a record of the correspondence.	N/A
Contact NIFA if applicant does not receive correspondence from NIFA regarding an application within 30 days of the application deadline.	N/A

AFRI Specific Application Instructions. Application and submission information including page limits and narrative font sizes for AFRI Education and Workforce Development RFA applications are available in the "**AFRI-EWD-RFA-Additional Information-for-Part-IV-C-FY24**" PDF in the attachments list on the <u>AFRI RFA Resources page</u>.

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.

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

- 1. Project Summary (PS)/Abstract; The PS must show how the project goals align with the project goals of AFRI. See **Part V** of the <u>NIFA Grants Application Guide</u> for instructions and suggested templates.
- 2. Project Narrative (PN).
- 3. Bibliography & References Cited
- 4. Logic Model for Integrated Projects (if applicable)
- 5. Management Plan for Integrated Projects (if applicable)
 - a. Data Management Plan (DMP); A DMP is required for this program. Applicants should clearly articulate how the project director (PD) and co-PDs plan to manage

and disseminate the data generated by the project. The DMP will be considered during the merit review process (see Part V, B of this RFA).

- 6. Facilities & Other Resources
- 7. Curriculum Vitae
- 8. Conflict of Interest Lists
- 9. Current and Pending Support
- 10. Budget
- 11. Budget Justification
- 12. In other Attachments, Mentoring Plan as applicable

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.

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 Program Contact identified in <u>Part I C</u> 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

Federal Indirect Costs (IDC) not to exceed 30 percent of total Federal funds awarded (TFFA). Section 1462(a) and (c) of the National Agricultural Research, Extension, and Teaching Policy Act of 1977 (7 U.S.C. 3310(a) and (c)) limits IDC for the overall award to 30 percent of Total Federal Funds Awarded (TFFA) under a research, education, or extension grant. The maximum IDC rate allowed under the award is determined by calculating the amount of IDC using:

- 1. the sum of an institution's negotiated IDC rate and the IDC rate charged by sub-awardees, if any; or
- 2. 30 percent of TFFA.

The maximum allowable IDC rate under the award, including the IDC charged by the sub-awardee(s), if any, is the lesser of the two rates above.

If the result of number one above is the lesser of the two rates, the grant recipient is allowed to charge the negotiated IDC rate on the prime award and the sub-award(s), if any. Any sub-awards would be subject to the sub-awardee's negotiated IDC rate. The sub-awardee may charge its negotiated IDC rate on its portion of the award, provided the sum of the IDC rate charged under the award by the prime awardee and the sub-awardee(s) does not exceed 30 percent of the TFFA.

If number two above is the lesser of the two rates, then the maximum IDC rate allowed for the overall award, including any sub-award(s), is limited to 30 percent of the TFFA. That is, the IDC of the prime awardee plus the sum of the IDC charged by the sub-awardee(s), if any, may not exceed 30 percent of the TFFA.

In the event of an award, the prime awardee is responsible for ensuring the maximum IDC allowed for the award is not exceeded when combining IDC for the Federal portion (i.e., prime and sub-awardee(s)) and any applicable cost-sharing .Amounts exceeding the maximum allowable IDC are considered unallowable. See sections 408 and 410 of 2 CFR 200.

If the applicant does not have a negotiated rate, and NIFA is the cognizant agency, the applicant must calculate an IDC rate in order to request IDC. Applicants are not required to complete the IDC package during the application process. Applicants need only to calculate an IDC rate to serve as a basis for requesting IDC, please see National Institute of Food and Agriculture (usda.gov) for additional resources. If awarded, the applicant will be required to submit a complete IDC proposal package to obtain a negotiated rate.

Organizations that do not have a current negotiated (including provisional) rate, may also elect the De Minimis rate (2 CFR 200.414). The Uniform Guidance offers the option of electing to charge a de Minimis rate of 10 percent of modified total indirect costs (MTDC) which may be used indefinitely. As described above and in 2 CFR 200.403, costs must be charged consistently as either indirect or direct costs but may not be double charged or inconsistently charged as both. If elected, this methodology must be used consistently for all Federal awards until such time as a non-Federal entity chooses to negotiate for a rate, which it may do at any time.

See <u>NIFA Indirect Costs</u> for information including <u>additional resources</u> and <u>NIFA Indirect Cost</u> <u>Guidance Chart.</u>

Successful applicants must not use grant funds awarded under the authority of this RFA shall not be used for the construction of a new building or facility or the acquisition, expansion, remodeling, or alteration of an existing building or facility (including site grading and improvement, and architect fees).

PART V. APPLICATION REVIEW REQUIREMENTS

A. NIFA's Evaluation Process

NIFA evaluates each application in a two-part process. First, we screen each application to ensure that it meets the administrative requirements set forth in this RFA. All administrative requirements must be met in order for the application to proceed to the next level of review. Second, a scientific peer-review process will be used to technically evaluate applications that have met the administrative requirements using a review panel (see NIFA Peer Review Process).

Scientific Peer Review Process:

NIFA selects reviewers for the review panel based upon their training and experience in relevant scientific, extension, or education fields, taking into account the following factors:

- 1. 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.
- 2. The need to include experts from various areas of specialization within relevant scientific, education, or extension fields.
- 3. The need to include other experts (e.g., producers, range or forest managers/operators, researchers, public health practitioners, educators, consumers, and commercial reviews) who can assess relevance of the applications to targeted audiences and to program needs.
- 4. 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.
- 5. The need to maintain a balanced composition with regard to race, ethnicity, gender representation, and an equitable age distribution.
- 6. 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 NIFA will recommend that your project is either approved for support from currently available funds or 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 project for funding.

After the review process has been completed, NIFA sends copies of reviews, <u>not</u> including the identity of reviewers, and a summary (if applicable) of the review panel comments to the PD.

Conflicts of interest. NIFA takes extreme care to prevent any actual or perceived conflicts of interest that may influence the review or evaluation (see NIFA Peer Review Process for Competitive Grant Applications).

B. Evaluation Criteria

NIFA will use the following criteria to evaluate this RFA:

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. The 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 ranking of the applications. A complete description of NIFA's peer review process can be found on the NIFA Peer Review Process for Competitive Grant Applications page.

Detailed evaluation criteria for each project type, grant type, and centers of excellence are found in the "AFRI Review Criteria" PDF in the attachments list on the <u>AFRI RFA Resources page</u>. We will use the appropriate evaluation criteria to review applications submitted in response to this RFA.

C. Centers of Excellence

In addition to evaluating applicants using the criterion listed in <u>Part V, B of this RFA</u>, NIFA will use the COE standards described in this RFA to evaluate applicants that rank highly meritorious and requested to be recognized as a COE. In instances where applicants are found to be equally meritorious with the application of a non-COE applicant, NIFA will prioritize the COE applicant meeting the COE criteria. NIFA will effectively use the COE prioritization as a "tie breaker." Applicants that rank highly meritorious but who did not request consideration as a COE or who are not deemed to have met the COE standards may still receive funding.

Applicants that meet the COE requirements will have the COE designation in their notice of award. Entities recognized as COE will maintain that distinction for the duration of their period of performance or as identified in the terms and conditions of that award.

D. Organizational Management Information

Applicants must submit specific management information prior to an award and update the information as needed. Applicants may only need to provide an update if there was a change in previously provided information under this or another NIFA program. NIFA provides the requisite forms during the pre-award process. Although an applicant may be eligible for award under this program, 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, or a determination that an applicant is not responsible).

E. Application Disposition

Applicants may withdraw at any time before NIFA makes a final funding decision. NIFA will retain all applications, including withdrawn applications and unfunded applications.

PART VI. AWARD ADMINISTRATION

A. General

Within the limit of funds authorized, the NIFA awarding official will make grants to responsible and 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 must 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, 7 CFR Part 3430, subparts A through E.

Award Notice. The award document will provide pertinent instructions and information as described in <u>2 CFR 200.211</u> (see <u>NIFA's Terms and Conditions</u>).

B. Administrative and National Policy Requirements

Several Federal statutes and regulations apply to grant applications and the projects outlined in this RFA (some are listed here: <u>Federal Regulations</u>). Unless specifically noted by statue or award-specific requirements, <u>NIFA Policy Guide</u> applies to all NIFA awards.

C. Expected Program Outputs and Reporting Requirements

Output and reporting requirements are included in the <u>award terms and conditions</u>. If there are any program or award-specific award terms, they will be identified in the Award Notice.

PART VII. OTHER INFORMATION

A. Use of Funds and Changes in Budget

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.

Changes in Budget or Project Plans. In accordance with <u>2 CFR 200.308</u>, awardees must request prior approval from NIFA for the following program or budget-related reasons (the awardee is subject to the terms and conditions identified in the award):

- 1. Change in the scope or the objective of the project or program without prior written approval (even if there is no associated budget revision requiring).
- 2. Change in a key person specified in the application or the Federal award.
- 3. Disengagement from the project for more than three months, or a 25 percent reduction in time devoted to the project.
- 4. Inclusion of costs that require prior approval in accordance with <u>2 CFR 200 Subpart E</u> (Cost Principles), or <u>45 CFR Part 75 Appendix IX</u>, (Principles for Determining Costs Applicable to Research and Development under Awards and Contracts with Hospitals), or <u>48 CFR</u>, unless waived by the Federal awarding agency, <u>48 CFR Part 31</u>, Contract Cost Principles and Procedures;
- 5. Transfer of funds budgeted for participant support costs to other categories of expense (2 CFR 200.456 Participant support costs);
- 6. Sub-awarding, transferring or contracting out of any work under a Federal award, including fixed amount sub-awards (see <u>2 CFR 200.333, Fixed Amount Sub-awards</u>), unless described in the application and funded in the approved Federal awards. This provision does not apply to the acquisition of supplies, material, equipment, or general support services.
- 7. Changes in the approved cost-sharing or matching provided by the non-Federal entity;
- 8. The need for additional Federal funds to complete the project.

B. Confidential Aspects of Applications and Awards

When an application results in an award, it becomes a part of NIFA transaction records, which are available to the public. Information that the Secretary of Agriculture determines to be confidential, privileged, or proprietary in nature will be held in confidence to the extent permitted by law. Therefore, applicants should clearly mark any information within the application they wish to have considered as confidential, privileged, or proprietary. NIFA will retain a copy of an application that does not result in an award for three years. Such an application will be released only with the consent of the applicant or to the extent required by law. An applicant may withdraw 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. Limited English Proficiency

NIFA offers language access services, such as interpretation and translation of vital information, free of charge. If you need interpretation or translation services, please visit NIFA Language Access Services or contact Lois Tuttle, Equal Opportunity Specialist, at Lois.Tuttle@usda.gov or (443) 386-9488.

APPENDIX I: AGENCY CONTACT

AFRI Program Office:

Dr. Dionne Toombs, Associate Director for Programs

Dr. Venugopal Kalavacharla, Acting Deputy Director, Institute of Food Production and Sustainability

Dr. Martha Ray Sartor, Acting Deputy Director, Institute of Youth, Family, and Community

Dr. Kevin Kephart, Deputy Director, Institute of Bioenergy, Climate, and Environment

Dr. Suzanne Stluka, Deputy Director, Institute of Food Safety and Nutrition

E-mail: AFRI@usda.gov

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

Program Area Priority Contacts

Program Area Priority	Program Area Priority Contacts
Professional Development for	Dr. Kellyann Jones-Jamtgaard, (816) 599-1916 or
Agricultural Literacy (PDAL) Grants	kellyann.jonesjamtgaard@usda.gov
Agricultural Workforce Training	Christopher Green, (856) 328-7396 or
(AWT) Grants	christopher.green@usda.gov
Food and Agricultural Non-formal	Dr. Jeff Sallee, (816) 814-4746 or
Education (FANE)	jeffrey.sallee@usda.gov
Research and Extension Experiences	Dr. Michelle Schelske-Santos, (757) 378-8380 or
for Undergraduates (REEU)	michelle.schelske-santos@usda.gov
Predoctoral Fellowships	Dr. Ray Ali, (816) 926-1453 or nifafellows@usda.gov
Postdoctoral Fellowships	Dr. Ray Ali, (816) 926-1453 or <u>nifafellows@usda.gov</u>

For administrative questions related to

- 1. Grants.gov, see *Part IV*
- 2. Other RFA or application questions, please email grantapplicationquestions@usda.gov
- 3. Awards under this RFA, please email awards@usda.gov

U.S. Postal Mailing Address:

National Institute of Food and Agriculture U.S. Department of Agriculture P.O. Box 419205, MS 10000 Kansas City, MO 64141-6205

Courier/Package Delivery Address:

National Institute of Food and Agriculture United States Department of Agriculture 2312 East Bannister Road, MS 10000 Kansas City, MO 64141-3061

APPENDIX II: GLOSSARY OF TERMS

Glossary of Terms

Agriculture and Food Research Initiative – AFRI

Authorized Representative – AR

Agricultural Research, Extension, and Education Reform Act of 1998 – AREERA

Coordinated Agricultural Project – CAP

Centers of Excellence – COE

Data Management Plan – DMP

Education and Workforce Development – EWD

Established Program to Stimulate Competitive Research – EPSCoR

Food and Agricultural Science EnhancementFASE

Indirect costs – IDC

National Institute of Food and Agriculture – NIFA

Request for Application – RFA

Research, Education, and Economics – REE

United States Department of Agriculture – USDA

APPENDIX III: DEFINITIONS

Refer to <u>7 CFR 3430 Competitive and Noncompetitive Non-formula Federal Assistance Programs – General Award Administrative Provisions</u> for additional definitions.

Terms	Definitions
Applied Research	Research that includes expansion of the findings of
Applied Research	fundamental research to uncover practical ways in which
	· · · · · · · · · · · · · · · · · · ·
	new knowledge can be advanced to benefit individuals and
	society.
Continuation Award	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.
Education Activity	Education activity or teaching activity means formal
	classroom instruction, laboratory instruction, and
	practicum experience in the food and agricultural sciences
	and other related matters such as faculty development,
	student recruitment and services, curriculum development,
	instructional materials and equipment, and innovative
	teaching methodologies.
Established Program to Stimulate	EPSCoR is a list of eligible states that are eligible for
Competitive Research	USDA EPSCoR funding which is determined every year
	by NIFA. This list includes states having a funding level
	no higher than the 38th percentile of all States based on a
	3-year rolling average of AFRI funding levels, excluding
	FASE Strengthening funds granted to EPSCoR States and
	small-midsized and minority-serving degree-granting
	institutions. The current list is included in the "AFRI
	Grant Types" PDF in the attachments list on the AFRI
	RFA Resources page.
Extension Activity	Extension activity means an act or process that delivers
	science-based knowledge and informal educational
	programs to people, enabling them to make practical
	decisions.
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Terms	Definitions
Food and Agricultural Science	FASE Grants mean funding awarded to eligible applicants
Enhancement Grants	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.
Fundamental Research	Fundamental research means research that (i) increases
T undamental Research	knowledge or understanding of the fundamental aspects of
	phenomena and has the potential for broad application;
	and (ii) has an effect on agriculture, food, nutrition, or the
	environment.
Limited Institutional Success	Limited institutional success means institutions that are
Emined institutional Success	not among the most successful universities and colleges
	for receiving Federal funds for science and engineering
	research. A list of successful institutions is provided in the
	"Table 2 Least Successful Institutions" PDF in the
	attachments list on the <u>AFRI RFA Resources page</u> .
Matching	The process through which a grant recipient match
	awarded USDA funds with cash and in-kind contributions
	on a dollar-for-dollar basis. The matching funds must
	derive from non-Federal sources.
Minority	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
	of Agriculture's initiative, or in response to a written
	request with supporting explanation.
Minority-Serving Institution	Minority-Serving Institution means an accredited
, ,	academic institution whose enrollment of a single minority
	or a combination of minorities exceeds 50% 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).

Terms	Definitions
Multidisciplinary Project	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.
New Application	An application not previously submitted to a program.
Nutrition Security	Nutrition security means all Americans have consistent
	and equitable access to healthy, safe, affordable foods
	essential to health and well-being.
Renewal Application	A project application that seeks additional funding for a
	project beyond the period that was approved in an original
D 1 1/4 1 A 11/4	or amended award.
Resubmitted Application	A project application that was previously submitted to a program, but the application was not funded.
Resubmitted Renewal	A project application that requests additional funding for a
Application	project beyond the period that was approved in the original
	award. This is an application that had previously been
	submitted for renewal to but not funded.
Small and Mid-Sized Institutions	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	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	A team composed of investigators from multiple
	disciplines that cross boundaries using holistic approaches
	to address complex challenges that cannot be solved using
	single-disciplinary approaches.

Terms	Definitions
USDA Established Program to	EPSCoR States mean States which have been less
Stimulate Competitive Research	successful in receiving funding from AFRI, having a
States	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 in the
	"AFRI Grant Types" PDF in the attachments list on the
	AFRI RFA Resources page.

APPENDIX IV: OTHER AFRI RESOURCES

AFRI program information is available on the <u>NIFA AFRI website</u>. The following are among the materials available:

- 1. Stakeholder Input
- 2. Requests for Applications
- 3. AFRI Abstracts of Funded Projects Listed by State
- 4. AFRI Annual Review
- 5. Frequently Asked Questions
- 6. Interagency Programs
- 7. AFRI RFA Resources
 - a. *Most Successful Universities and Colleges*. Any institution listed on this list, Most Successful Universities and Colleges Receiving Federals Funds, is not eligible for Strengthening Grants from the FASE program unless they are located in an EPSCoR state. See "Table 1 Most Successful Institutions" in the attachments list.
 - b. Lowest One Third of Universities and Colleges Receiving Federal Funds. The lowest one third of universities and colleges receiving Federal funds is used to determine eligibility for possible waiver of matching funds requirement for Equipment Grants (see "Table 2 Least Successful Institutions" in the attachments list).
 - c. *Flow Chart for Strengthening Grant Eligibility.* The Flow Chart for Strengthening Grant Eligibility will help to determine your eligibility to apply for strengthening grants (see "FASE Strengthening Grant Eligibility Flow Chart" in the attachments list).
- 8. AFRI Deadlines