



United States
Department of
Agriculture

National Institute
of Food
and Agriculture

www.nifa.usda.gov
[@USDA_NIFA](https://twitter.com/USDA_NIFA)

NIFA Funding Opportunities in Research, Education and Extension

Lisa Jahns, PhD, RDN

Mallory M. Koenings, PhD, RDN

National Program Leaders

National Institute of Food and Agriculture

USDA **NIFA**

NATIONAL INSTITUTE OF FOOD AND AGRICULTURE

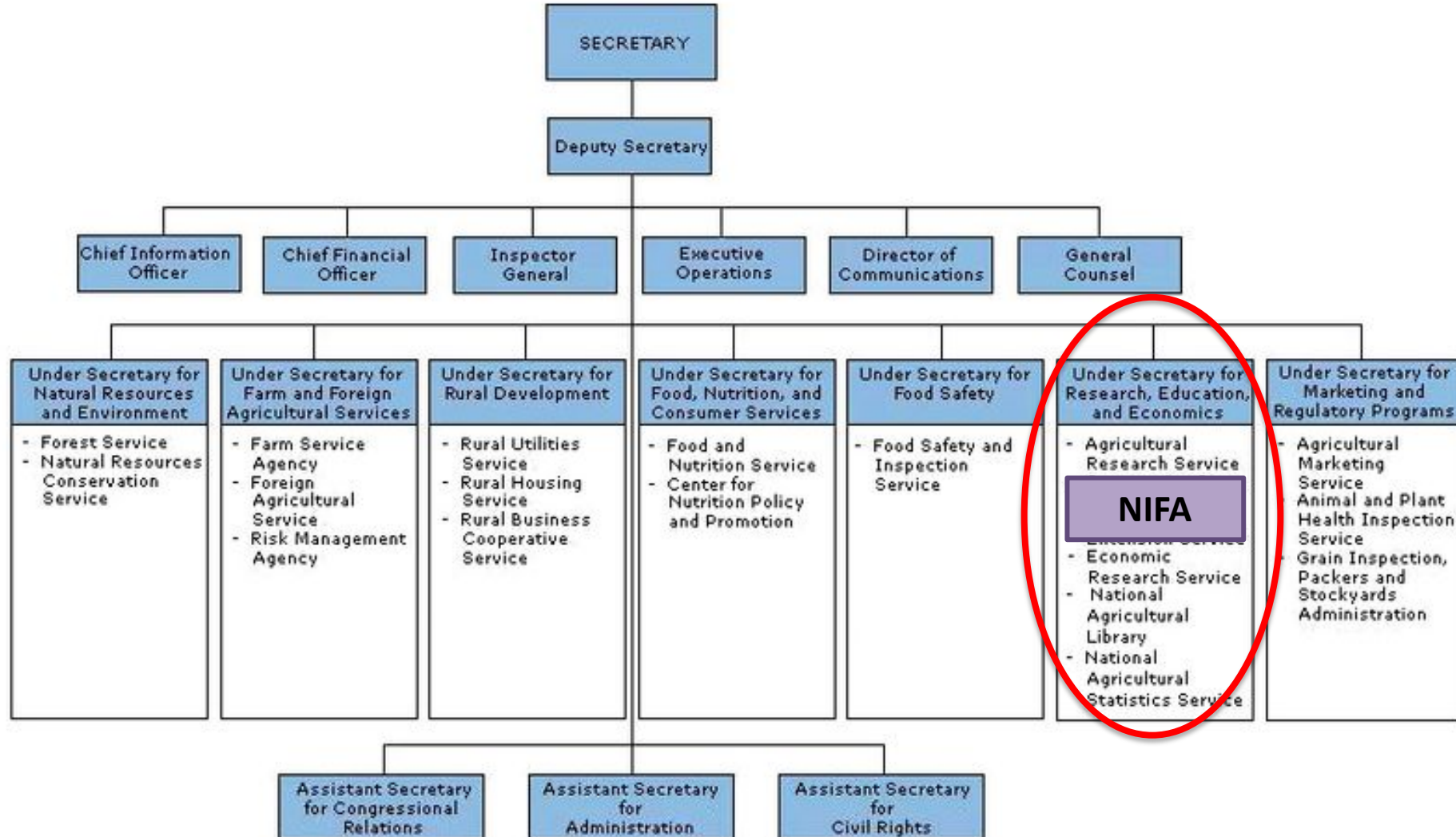
Overview

- NIFA Background
 - New National Program Leaders in the Division of Nutrition
 - Agriculture and Food Research Initiative (AFRI) Program Areas
- Opportunity for Questions
- Non-AFRI Competitive Nutrition Grant Programs
 - Education Grant Programs
- Opportunity for Questions

US Government Organizational Chart



USDA Organizational Chart





United States
Department of
Agriculture

National Institute
of Food
and Agriculture

www.nifa.usda.gov
[@USDA_NIFA](https://twitter.com/USDA_NIFA)

The NIFA logo, consisting of the letters "NIFA" in a large, white, sans-serif font, set against a background of green rolling hills.

NIFA

Who are we?

- **Lead federal agency providing extramural funding for food and agricultural sciences**
- **Restructured through the Food, Conservation, and Energy Act of 2008**
- **NIFA funding**
 - **\$1.8 Billion budget in FY2021**
- **Mission**
 - **Agricultural research, education, and extension**
- **Vision**
 - **Catalyze transformative discoveries, education, and engagement to address agricultural challenges**

Discovery

Translation

Innovation

Solution

NIFA Programs Cover Many Topics



Advanced Technologies

- Bioenergy
- Biotechnology
- Nanotechnology



Education

- Minority Serving Institutions
- Teaching and Learning
- Workforce Development



Food Science

- Food Quality
- Food Safety



Animals

- Animal Breeding
- Animal Health
- Animal Production
- Aquaculture



Environment

- Climate Change
- Ecosystems
- Invasive Pests and Diseases



Health

- Nutrition
- Obesity
- Wellness



Business and Economics

- Markets and Trade
- Natural Resource Economics
- Small Business



Farming and Ranching

- Agricultural Safety
- Agriculture Technology
- Farmer Education
- Organic Agriculture
- Small and Family Farms



International

- Global Engagement
- Global Food Security



Natural Resources

- Air
- Forests
- Grasslands and Rangelands
- Soil
- Water



People

- Community Vitality
- Family Well-Being
- Youth



Plants

- Crop Production
- Pest Management
- Plant Breeding
- Plant Health



United States
Department of
Agriculture

National Institute
of Food
and Agriculture

www.nifa.usda.gov
[@USDA_NIFA](https://twitter.com/USDA_NIFA)

NIFA

New Nutrition NPLs



Lisa Jahns, PhD, RDN
National Program Leader
(816) 820-9584
Lisa.Jahns@USDA.GOV



Mallory Koenings, PhD, RDN
National Program Leader
(202) 604-1985
Mallory.Koenings@USDA.GOV

Institute for Food Safety and Nutrition, Division of Nutrition



United States
Department of
Agriculture

National Institute
of Food
and Agriculture

www.nifa.usda.gov
@USDA_NIFA

National Program Leaders

NIFA

Contact Information

[HOME](#) [TOPICS](#) [PROGRAMS](#) [GRANTS](#) [TOOLS](#) [NEWSROOM](#) [IMPACTS](#) [RESOURCES](#) [SEARCH](#)

[HOME](#) [ABOUT](#) [WHO WE ARE](#) [ORGANIZATIONAL STRUCTURE](#) [NATIONAL PROGRAM LEADERS](#)

<https://nifa.usda.gov/national-program-leaders>

ABOUT

Who We Are

History

Relationship to USDA

Organizational Structure

Leadership

Institutes

National Program Leaders

What We Do

National Program Leaders

[Print](#) [Share](#)

NIFA National Program Leaders (NPLs) administer research, education, and extension programs that address national agricultural priorities.

This page contains a list of NIFA programs with their associated main contacts. You can also consult the specific NIFA Request for Applications (RFAs) that you are considering applying to; all RFAs list the current program contacts in the Agency Contacts section.

LIST OF PROGRAMS WITH NPL CONTACTS

[1890 LAND-GRANT INSTITUTIONS PROGRAMS](#)

- NPL: [Manoharan Muthusamy](#)
- NPL: [Maurice Smith](#)

[AGRICULTURE AND FOOD RESEARCH INITIATIVE \(AFRI\)](#)



United States
Department of
Agriculture

National Institute
of Food
and Agriculture

www.nifa.usda.gov
@USDA_NIFA

NIFA

Planning 2021 RFAs

<https://nifa.usda.gov/upcoming-rfa-calendar>

IT'S FUNDING SEASON!

Please visit the NIFA **UPCOMING RFA CALENDAR** for upcoming funding opportunities

Upcoming RFA Calendar

Target Mid-October 2020

RFA Type*	Solicitation Name:
New Competitive	AgrAbility
New Competitive	Organic Agriculture Research & Extension Initiative
New Competitive	Specialty Crop Research Initiative (SCRI) Program
New Competitive	Tribal College Research Grant Program
Multi-year Solicitation Year 2	Farm Business and Benchmarking Program (FBBP)
Directed RFA	Aquaculture Centers, section 1475
Directed RFA	

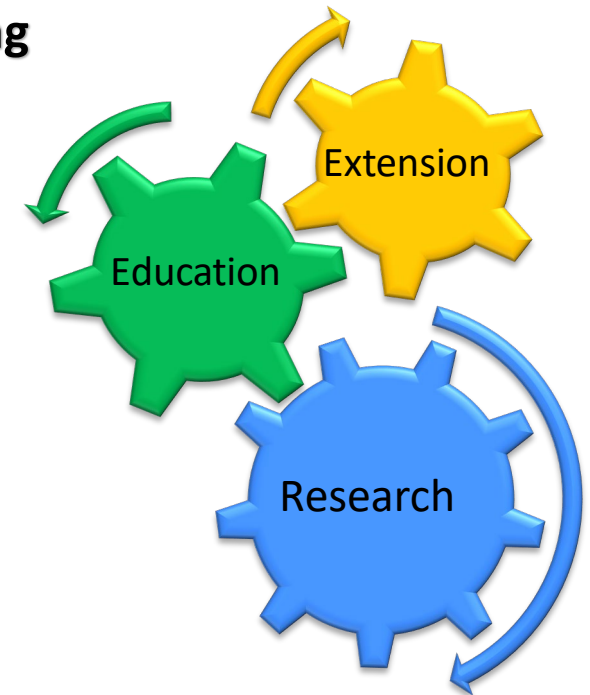
Competitive Nutrition Program Metrics

Program Area	Program Contacts	Anticipated 2021 RFA publication date	Anticipated Funding (\$ million)	2020 Success Rate
AFRI / Food and Human Health AFRI / Diet, Nutrition and the Prevention of Chronic Diseases Food and Agriculture Service Learning Program Gus Schumacher Nutrition Incentive Program Community Food Projects	Lisa Jahns	published	\$5.8	15%
	Mallory Koenings Lisa Jahns	published	\$4.8	15%
	Lisa Jahns Helen Chipman	published	\$1.9	8%
	Mallory Koenings Helen Chipman	published	\$41.6	48%
	Lisa Jahns Mallory Koenings	published	\$4.8	15%

Competitive Nutrition Programs (\$158.7** million total program funds)

Agriculture Food Research Initiative (AFRI)

- **NIFA's flagship competitive grants program**
- **Addresses key problems of National and regional importance by sustaining all components of agriculture**
 - **Research:** answers to complex societal and health issues
 - **Education:** training the agricultural workforce
 - **Extension:** translates research knowledge into practice
 - **Integrated:** Combination of two of the components above
- **~\$475M in budget via 3 different Requests for Applications (RFA)**
 - **Foundational and Applied Sciences (FAS)**
 - **Sustainable Agricultural Systems (SAS)**
 - **Education and Workforce Development (EWD)**



AFRI Sustainable Agricultural Systems

- **\$10 million projects over 5 years**
- **Integrated Projects only**
- **Coordinated Agriculture Projects or Strengthening CAP**
- **LOI due January 7, 2021 at 5pm Eastern**
- **Priorities**
 - **Sustainable Agricultural Intensification**
 - **Agricultural Climate Adaptation**
 - **Food and Nutrition Translation**
 - **Value Added Innovation**



United States
Department of
Agriculture

National Institute
of Food
and Agriculture

www.nifa.usda.gov
[@USDA_NIFA](https://twitter.com/USDA_NIFA)

NIFA

Foundational and Applied Science



Increased budget size

\$650,000 standard
grants



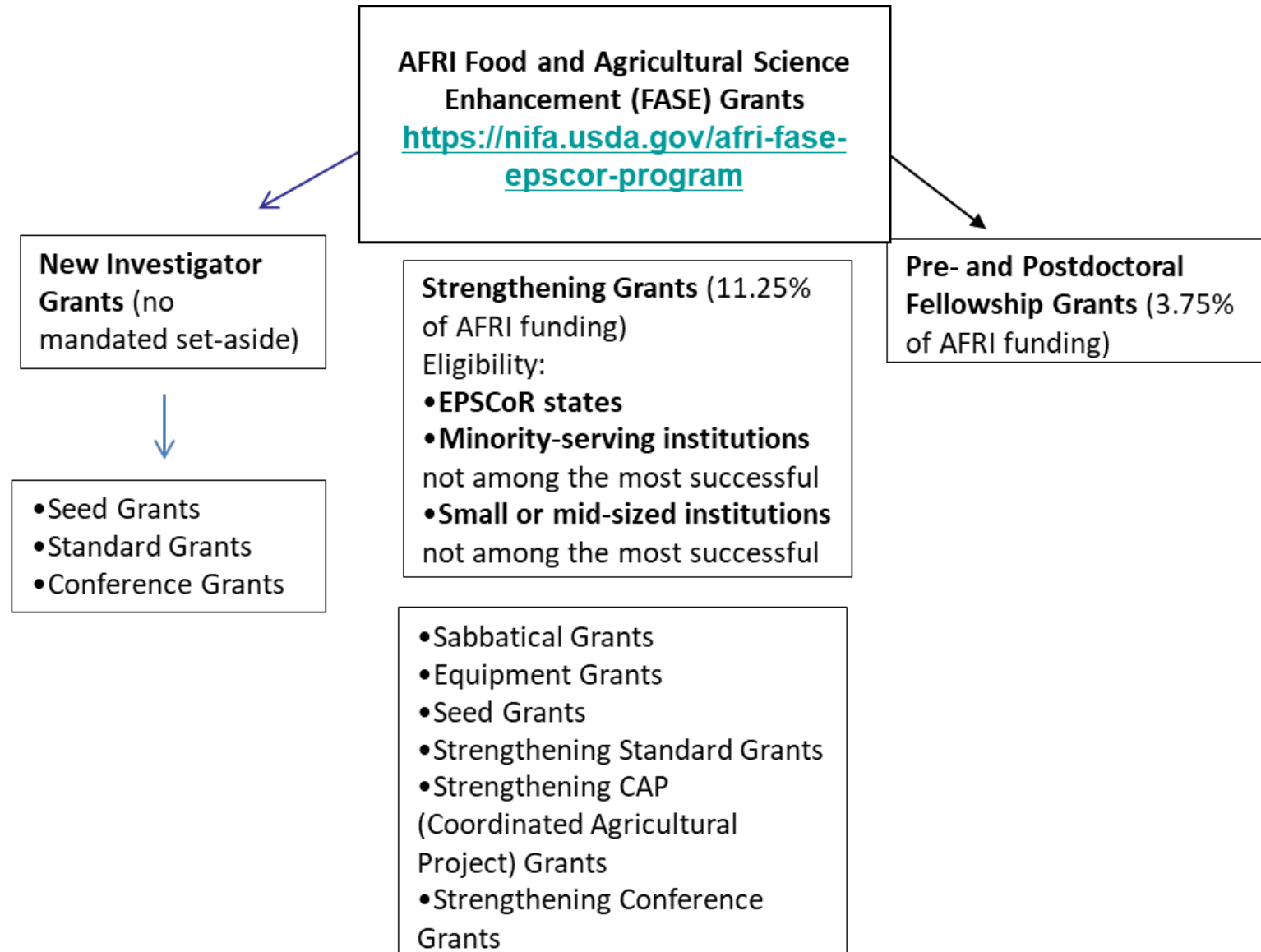
Partnership
Opportunities
(additional \$150,000)

MSIs
Small institutions
International



New Investigator
Seed grants
(\$300,000 over 2-years)

All AFRI program areas
Expected to attain >30% funding
rate
Reviewed in the same panel but
ranked separately





United States
Department of
Agriculture

National Institute
of Food
and Agriculture

www.nifa.usda.gov
@USDA_NIFA

NIFA

FY2021

Connecticut
Hawaii
Idaho
Louisiana
Maine
Massachusetts
Mississippi
Montana
Nevada
New Hampshire
New Jersey
New Mexico
North Dakota
Oklahoma
Rhode Island
South Carolina
South Dakota
Utah
Vermont

AFRI Food and Agricultural Science Enhancement – Strengthening Grants

FIGURE 1. Flow Chart for Strengthening Grant Eligibility

Do you have an appointment at
a State Agricultural Experiment Station or a degree granting institution?

Yes

No: Not Eligible

Is your organization in an EPSCoR state?

Yes: Eligible

No

American Samoa
District of Columbia
Guam
Micronesia
Northern Marianas
Puerto Rico
Virgin Islands

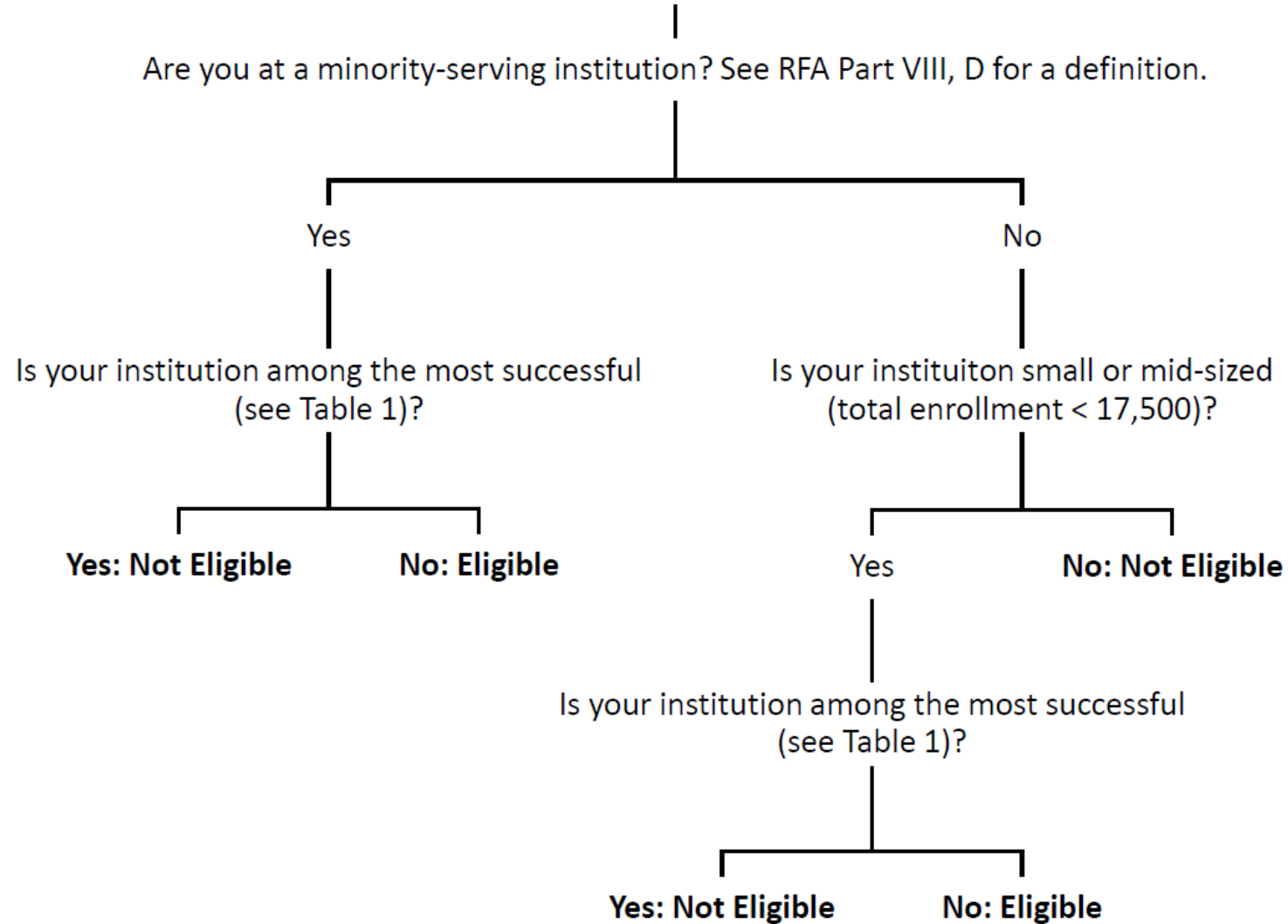


United States
Department of
Agriculture

National Institute
of Food
and Agriculture

www.nifa.usda.gov
[@USDA_NIFA](https://twitter.com/USDA_NIFA)

NIFA





United States
Department of
Agriculture

National Institute
of Food
and Agriculture

www.nifa.usda.gov
[@USDA_NIFA](https://twitter.com/USDA_NIFA)

NIFA

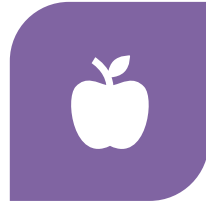
AFRI Farm Bill Priorities



PLANT HEALTH,
PRODUCTION,
AND PLANT
PRODUCTS



ANIMAL HEALTH,
PRODUCTION,
AND ANIMAL
PRODUCTS



FOOD SAFETY,
NUTRITION, AND
HEALTH
\$39 M



BIOENERGY,
NATURAL
RESOURCES, AND
ENVIRONMENT



AGRICULTURE
SYSTEMS AND
TECHNOLOGY



AGRICULTURE
ECONOMICS AND
RURAL
COMMUNITIES

Food Safety, Nutrition and Health

Food Safety and Defense

–May 27, 2021 August 25, 2022

Novel Foods and Innovative Manufacturing Technologies

–June 10, 2021 September 1, 2022

Diet, Nutrition and the Prevention of Chronic Diseases

–May 27, 2021; August 25, 2022

Food and Human Health

–June 10, 2021; September 1, 2022

Mitigating Antimicrobial Resistance Across the Food Chain

–June 10, 2021 September 1, 2022



United States
Department of
Agriculture

National Institute
of Food
and Agriculture

www.nifa.usda.gov
[@USDA_NIFA](https://twitter.com/USDA_NIFA)

The NIFA logo, consisting of the letters "NIFA" in a large, white, sans-serif font, set against a green background with a stylized mountain range silhouette.

NIFA

Food Safety, Nutrition and Health

- **Diet, Nutrition and the Prevention of Chronic Diseases (A1344) \$1 million, 3-5-year projects**
 - May 27, 2021; August 25, 2022
 - Integrated Projects; Standard Grants, Conference Grants, FASE Grants
- **Food and Human Health (A1343) \$650,000, 3-5-year projects**
 - June 10, 2021; September 1, 2022
 - Research Projects; Standard Grants, Conference Grants, FASE Grants

Diet, Nutrition and the Prevention of Chronic Diseases (A1344)

- **\$1 million, 3-5-year projects**
 - May 27, 2021; August 25, 2022
 - Integrated Projects; Standard Grants, Conference Grants, FASE Grants
- **Applicants must address at least one of the following:**
 - Develop, implement, and evaluate innovative research, educational, and outreach strategies **to improve eating patterns that support the prevention of chronic disease;**
 - Investigate, assess, and recommend food and nutrition research and program interventions with the goal **to improve and sustain health;** or
 - **Improve food security and nutritional health outcomes for low-income people** through an evidence-based approach to healthy eating and active living lifestyle programs, thereby supporting a pathway to self-sufficiency

Diet, Nutrition and the Prevention of Chronic Diseases (A1344)

- Projects must reflect understanding of the multifaceted and interactive nature of **research, education, and extension-outreach**
- Projects must also reflect knowledge of food availability and access, healthy lifestyles, and better food and nutrition choices

Food and Human Health (AFRI)

Applicants must address at least one of the following:

- **Enhance the nutritional value of foods** through improved bioavailability of vitamins, minerals, and bioactive components and improved absorption of vitamins, minerals, and bioactive components including nanoscale delivery;
- Investigate the **multi-directional impact of food composition and structure (including micro- and nano-structures) on human gut health** (i.e., nutrient absorption rates, secondary metabolites, pathogen interaction, physiological indications, sensory signaling, etc.) to assess the safety, quality, and nutritional value of foods; and/or
- Investigate the role of the **food components or contaminants on the human gut microbiome and its metabolites, and the subsequent impact on human health.**

Food and Human Health (A1343)

- Justification must be provided for the relationship of the bioactive component(s) being studied to **human health outcomes** and/or the health of the human gut microbiome.
- Priority will be given to applications that use a **whole food approach** or that address health effects of a combination of two or more bioactive components found in food. The whole food approach may also be one that adds enrichment, fortification or micro- and nano-encapsulation to enhance bioavailability of bioactive components in food.
- This program area priority does not support research on the development of dietary supplements, research on dietary therapies for existing disease, or for the establishment, expansion, or maintenance of dietary databases.

Food and Human Health (A1343)

- **Recently-funded projects include:**

- Ginger Root Extract for Neuropathic Pain
- Natural milk fat globules for in-situ generation of bioactive lipids for targeting inflammation
- Role of the gut microbiota on the beneficial effects of the vegetable *Urtica dioica* as a functional food
- An investigation of the impacts of fruit on the gut microbiota and its metabolites: connections to human health
- Watermelon Juice Promotes the Gut Microbiome Homeostasis

Food and Human Health (A1343)

An application that includes significant collaboration with minority-serving institutions, small- to mid-sized institutions, EPSCoR state institutions, and/or international partners will be funded up to \$150,000 above the listed budget maximum of \$650,000.

Applications that include such partnerships must begin their title as **“PARTNERSHIP: [full title...]”** The partnership team **MUST BE reflected among the listed Project Director and Co-Project Director(s). A minimum of \$150,000 of the budget MUST BE allocated to the institution(s) included as partner(s).**

Competitive Nutrition Program Metrics

Program Area	Program Contacts	Anticipated 2021 RFA publication date	Anticipated Funding (\$ million)	2020 Success Rate
AFRI / Food and Human Health AFRI / Diet, Nutrition and the Prevention of Chronic Diseases Community Food Projects Food and Agriculture Service Learning Program Gus Schumacher Nutrition Incentive Program	Lisa Jahns	published	\$5.8	15%
	Mallory Koenings Lisa Jahns	published	\$4.8	15%
	Lisa Jahns Mallory Koenings	published	\$4.8	15%
	Lisa Jahns Helen Chipman	published	\$1.9	8%
	Mallory Koenings Helen Chipman	published	\$41.6	48%

Competitive Nutrition Programs (\$158.7** million total program funds)

Community Food Projects (CFP)

- **Community Food Projects and Planning Grants**
- **Program to fight food insecurity through developing community food projects that help promote the self-sufficiency of low-income communities.**
- **CFP & PP are designed to increase food security in communities by bringing the whole food system together to assess strengths, establish linkages, and create sustainable systems that improve the self-reliance of community members over their food needs.**

Community Food Projects (CFP)

- **The purpose of the CFP is to support the development of projects with a one-time infusion of federal dollars to make such projects self-sustaining.**
- **The purpose of a Planning Project (PP) is to complete a plan toward the improvement of community & food security in keeping with the primary goals of the CFPCGP (see Part I, B of this RFA). PPs are to focus on a defined community and describe in detail the activities and outcomes of the planning project.**

Community Food Projects (CFP)

- **CFP and PP Eligibility = Public food program service providers, tribal organizations, or private nonprofit entities, including gleaners**
- **Applicants are encouraged to seek and create partnerships with public or private, nonprofit or for-profit entities, including links with academic institutions (including minority-serving colleges and universities), and/or other appropriate professionals, community-based organizations, and local government entities. Only the applicant must meet the eligibility requirements.**



United States
Department of
Agriculture

National Institute
of Food
and Agriculture

www.nifa.usda.gov
[@USDA_NIFA](https://twitter.com/USDA_NIFA)

NIFA

Community Food Projects (CFP)

- **1:1 matching required**

- May be in-kind

- **CFP**

- \$400,000 up to 48 months

<https://nifa.usda.gov/sites/default/files/rfa/FY21-CFP-MOD-RFA-508.pdf>

- **PP**

- \$35,000 up to 36 months

Community Food Projects (CFP)

- **Examples of CFP Projects include, but are not limited to,**
 - community gardens with market stands, value chain projects, food hubs, farmers' markets, farm-to-institutions projects, and marketing & consumer cooperatives.
- **Examples of PPs include, but are not limited to,**
 - community food assessments, coordination of collaboration development plans, GIS analyses, food sovereignty studies, and farm-to-institution exploration.

All projects must involve low-income participants.



United States
Department of
Agriculture

National Institute
of Food
and Agriculture

www.nifa.usda.gov
[@USDA_NIFA](https://twitter.com/USDA_NIFA)

NIFA

Food and Agriculture Service Learning Program (FASLP) K-12

- **Goal: Increase the knowledge of agricultural science and improve the nutritional health of children.**
- **By increasing the capacity for food, garden, and nutrition education within host organizations or entities, such as school cafeterias and classrooms, while fostering higher levels of community engagement between farms and school systems by bringing together stakeholders from distinct parts of the food system.**



United States
Department of
Agriculture

National Institute
of Food
and Agriculture

www.nifa.usda.gov
[@USDA_NIFA](https://twitter.com/USDA_NIFA)

NIFA

Food and Agriculture Service Learning Program (FASLP)

- Intended for eligible applicants to scale up or further develop existing farm to school initiatives and other food and agriculture experiential learning initiatives within a distinct area of communities and schools in a State or region.
- Applicants should also add to existing activities or include new activities such as training and technical assistance, evaluation activities, curriculum development, or incorporate farm to school strategies in trainings and professional opportunities along with working closely with agricultural producers in the local and regional areas.



United States
Department of
Agriculture

National Institute
of Food
and Agriculture

www.nifa.usda.gov
@USDA_NIFA

NIFA

Food and Agriculture Service Learning Program (FASLP)

- **Eligibility = state agricultural experiment stations; colleges and universities; university research foundations; other research institutions and organizations; Federal agencies; national laboratories; private organizations, foundations, or corporations; individuals; or any group consisting of two or more entities described herein.**



United States
Department of
Agriculture

National Institute
of Food
and Agriculture

www.nifa.usda.gov
@USDA_NIFA

NIFA

Food and Agriculture Service Learning Program (FASLP)

- **NO matching requirement**
- **Up to \$225,000**
- **<https://nifa.usda.gov/sites/default/files/rfa/FY21-FASLP-RFA-508.pdf>**
- **All projects must involve underserved rural and or urban communities and facilitate a connection between elementary schools and secondary schools with agricultural producers in the local and regional area**



United States
Department of
Agriculture

National Institute
of Food
and Agriculture

www.nifa.usda.gov
[@USDA_NIFA](https://twitter.com/USDA_NIFA)

NIFA

Food and Agriculture Service Learning Program (FASLP)

- **Examples include, but are not limited to:**

- Expanding farm to school programs beyond lunch to bring local or regional products into the School Breakfast program;
- Providing technical support in the form of face-to-face trainings, consultations, webinars, etc.;
- Developing promotional campaigns in support of farm to school initiatives;
- Establishing new or strengthening existing community partnerships (e.g. working with personnel to identify appropriate suppliers, etc.); 9.
- Encouraging increased consumption of fruits and vegetables through promotional activities, taste tests, and other activities;
- Expanding experiential or agriculture-based learning opportunities, such as the creation of school gardens, support to ag/food clubs, or increased exposure to on-farm activities; and,
- Developing and evaluating integrated curriculum to reinforce food and nutrition-based learning throughout the school environment.



United States
Department of
Agriculture

National Institute
of Food
and Agriculture

www.nifa.usda.gov
[@USDA_NIFA](https://twitter.com/USDA_NIFA)

NIFA

Purpose

Gus Schumacher Nutrition Incentive Program (GusNIP)

- Fund and evaluate projects intended **to improve the health and nutrition status of participating households.**
- Bring together stakeholders from various parts of the **food and healthcare systems** to foster understanding of how they **might improve the health and nutrition** status of participating households.

GusNIP Priorities

1. Maximize the share of funds used for direct incentives to participants;
2. Include coordination with multiple stakeholders;
3. Use direct-to-consumer sales marketing;
4. Test innovative or promising strategies;
5. Involves a diversity of types of firms (convenience stores, supermarkets, farmers' markets);
6. Demonstrate a track record of designing and implementing successful nutrition incentive programs that connect low-income consumers and agricultural producers;
7. Provide locally or regionally produced and fresh fruits and vegetables, especially those culturally appropriate for the target audience; and/or
8. Operate in underserved and/or economically distressed communities;
9. Offer supplemental services in high-need communities, including online ordering, transportation between home and store, and delivery services; and
10. Include food retailers that are open (1) for extended hours and (2) most or all days of the year.

GusNIP Grant Goals

- **GusNIP Nutrition Incentive Grants** are intended to increase the purchase of fruits and vegetables by low-income consumers participating in the Supplemental Nutrition Assistance Program (SNAP) by providing incentives at the point of purchase.
- **GusNIP Produce Prescription Grants** provide financial/non-financial incentives to members to purchase or procure fruits and vegetables intended to improve dietary health through increased consumption of fruits and vegetables, reduce individual and household food insecurity, and reduce healthcare usage and associated costs.
- **GusNIP National Training, Technical Assistance, Evaluation and Information Center Cooperative Agreements** provide services in support of the nutrition incentive grants, produce prescription grants, and to the Gus Schumacher Nutrition Incentive Program as a whole.

Project and Grant Types in FY2021

Project Types:

- *Pilot Project*: early stages of program development at less than the county level.
- *Standard Project*: mid-sized groups developing incentive programs at the county, multi-county or State level.
- *Large Scale Project*: multi-county, state-wide, regional or national incentive programs with the largest target audience of all GusNIP projects.

Grant Types:

- Nutrition Incentive Grants
- Produce Prescription Grants

GusNIP

Metrics, Reports, and Impacts

- Project initiation, annual progress reports and final technical reports.
 - Via NIFA's REEport System.
- Comprehensive GusNIP Evaluation
 - GusNIP grantees collect core metrics
 - GusNIP grantees share data with GusNIP NTAE Center
 - GusNIP NTAE Center collects and aggregates core data from GusNIP grantees through a central system to capture program success, identify best practices and areas to improve on a broad scale.

Equipment Grants Program (EGP)

EGP's total funding available in FY2021: ~\$4,700,000

Maximum funding per award: \$500,000

Proposals per Institution: Two maximum

Awards per Institution: One maximum

Proposals to the EGP are for the acquisition of only a single, well-integrated piece of equipment/instrument.

- Well-integrated research instrument means that the ensemble of equipment that defines the instrument enables a specific experiment to be undertaken.
- Separating or removing an element or component of such an integrated instrument would preclude any experiments from occurring or succeeding.



United States
Department of
Agriculture

National Institute
of Food
and Agriculture

www.nifa.usda.gov
[@USDA_NIFA](https://twitter.com/USDA_NIFA)

The NIFA logo, consisting of the letters "NIFA" in a white sans-serif font, is positioned on the right side of the slide. The background of the top right corner features a stylized green landscape with rolling hills and a bright light source, possibly the sun, creating a gradient effect.

NIFA

AFRI'S EDUCATION AND WORKFORCE DEVELOPMENT

Student Opportunities

2015-2020 Employment Opportunities for College Graduates in Food, Renewable Energy, and the Environment Report. The report indicates shortages of graduates in the FANH disciplines, and a corresponding need to fill an estimated 57,900 annual openings for individuals with baccalaureate or higher degrees in food, renewable energy, and environmental specialties between 2015 and 2020.

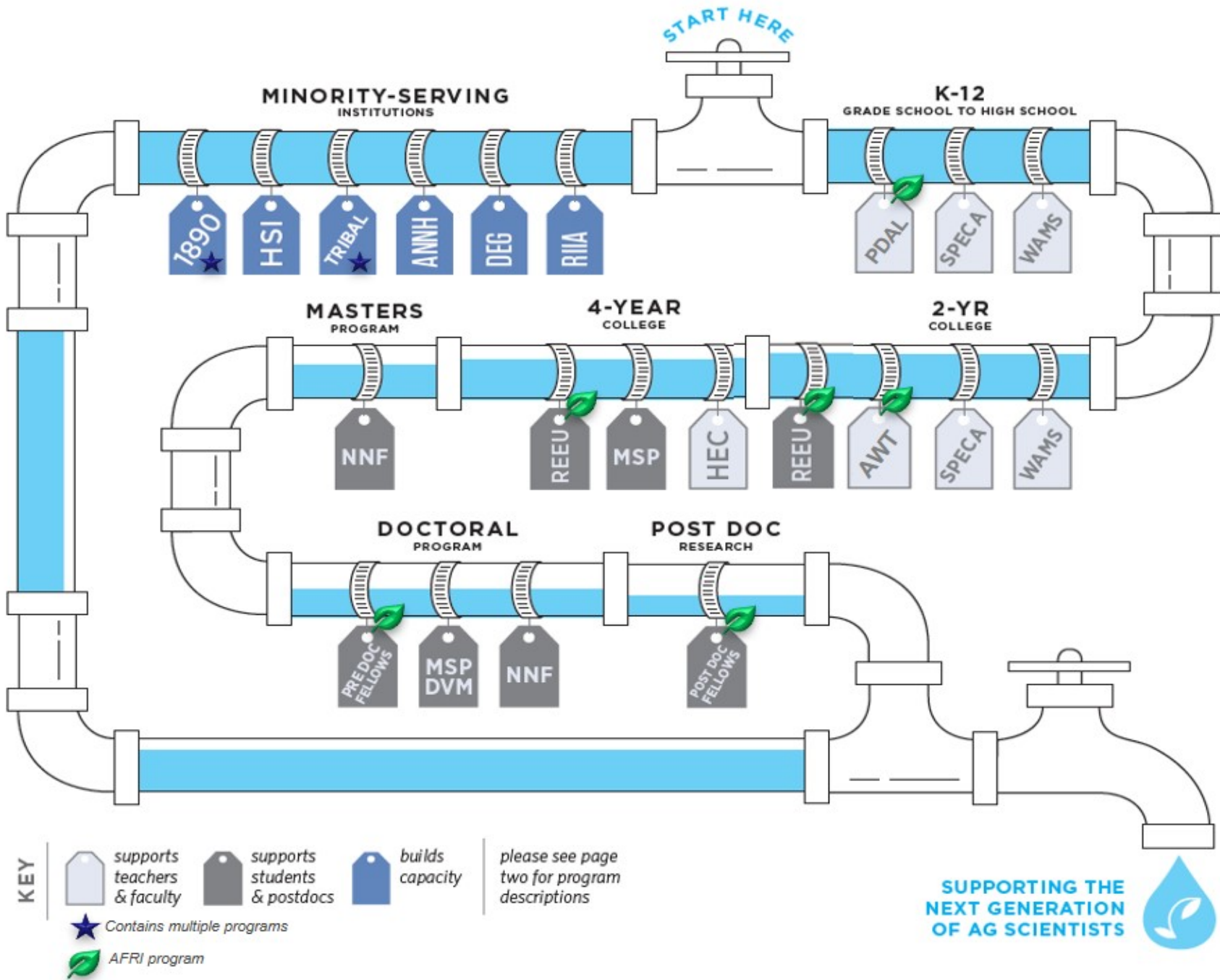
Educational and Workforce Development

- **Post-doctoral Fellowships- focus on Science Blueprint priorities**
- **Graduate Fellowships- focus on Science Blueprint priorities**
- **Research and Extension Experience for Undergraduates**
- **Agricultural Workforce Training Grants (Community Colleges)**
- **Professional Development for Agricultural Literacy (K-12)**
- **Non-formal Education (4H) for Technology in Agriculture**



Goals of NIFA's Education Portfolio

- Improve scientific and agricultural literacy
- Recruit and train a skilled workforce to face challenges and provide needed skills
- Promote greater learning and engagement through improved formal and non-formal instruction and teacher training
- Advance science by supporting more inclusive graduate and postdoctoral training in critical research fields
- Strengthen educational capacities of MSIs in instruction, curriculum and educational infrastructure



FY2021 Agriculture and Food Research Initiative (AFRI) Education and Workforce Development (EWD) Priority Areas



Theme 1: Agricultural Literacy & Workforce Development

Opportunities / Challenges	NIFA Programs
<ul style="list-style-type: none"> • 58.0 M enrolled in K-12 • Many without farming background or experience • Many teachers and students unaware of opportunities in food and agriculture • More than 51% of undergraduates enrolled in Community Colleges 	<ul style="list-style-type: none"> • <u>Programs</u>: PDAL, AWT, SPECA, WAMS, AITC • <u>Funding</u>: ~14 M • <u>Priorities</u>: Teacher development, curriculum development, recruitment, workforce training and retraining • <u>Other</u>: Increased focus on Community College programs and workforce development after 2017

Theme 2: Improved Learning & Engagement

Opportunities / Challenges	NIFA Programs
<ul style="list-style-type: none"> 17.3 M undergraduates in U.S. Only 36,112 graduates from Agriculture and Forestry Colleges; not sufficient to fill the 59,400 job opportunities (<i>Purdue Study</i>) Need for improved recruitment of minorities in food and agricultural sciences Non-formal agricultural leadership programs are having growing impacts; e.g., 4H impacts 7 M youth. 	<ul style="list-style-type: none"> <u>Programs</u>: HEC, MSP, REEU, NLGCA <u>Funding</u>: ~ \$24 M <u>Priorities</u>: Faculty development, curriculum development, experiential learning to enhance undergraduate education programs <u>Other</u>: FAEIS, to collect data on faculty and students

Theme 3: Advancing Science

Opportunities / Challenges	NIFA Programs
<ul style="list-style-type: none"> Science and engineering doctoral education remains dependent on non-American talent: ~40% of graduates Producing more food and agricultural sciences doctorates is essential for NIFA to achieve its mission Long-term impacts on training and workforce development of next generation (e.g., many NNF recipients are having major impacts) 	<ul style="list-style-type: none"> <u>Programs</u>: NNF, AFRI Pre-Doc and Post-Doc <u>Funding</u>: ~ \$17 M <u>Priorities</u>: Education; mentoring; research, extension and education experiences. <u>Other</u>: AFRI Pre- and Post-Doc funding is 3.75% of AFRI.



United States
Department of
Agriculture

National Institute
of Food
and Agriculture

www.nifa.usda.gov
[@USDA_NIFA](https://twitter.com/USDA_NIFA)

The NIFA logo is set against a green background with a stylized landscape of rolling hills and a sun or moon in the upper left corner. The letters "NIFA" are in a large, white, sans-serif font.

NIFA

ADDITIONAL INFORMATION

Select Student Opportunities



NNF

Supports **New graduate student** training for master's and/or doctoral degree programs in **areas of specified National need**

- Institution applies to support a cohort of students
- Eligible students must be citizen or nationals of the United States and **have not completed more than one semester of their program.**



AFRI-Fellows

Prepares the next generation of research, education, and/or extension professionals

- PhD Candidates
- Postdoctoral Scholars
- **Fellow individually applies**
- **Proposals must include:**
 - Project Plan
 - Professional Development Plan
 - Mentoring Plan
 - Evaluation Plan



United States
Department of
Agriculture

National Institute
of Food
and Agriculture

www.nifa.usda.gov
@USDA_NIFA

NIFA

Program Name Acronyms

Acronym	Program Name	Program Code
AITC	Agriculture in the Classroom	AITC
SPECA	Secondary Education, Two-Year Postsecondary Education, and Agriculture in the K-12 Classroom Challenge Grants Program	SPECA
WAMS	Women and Minorities in Science, Technology, Engineering, and Mathematics Fields Program	WAMS
PDAL	Professional Development for Agricultural Literacy AFRI Priority Area	A7501
AWT	Agricultural Workforce Training AFRI Priority Area	A7601
TERA	National Food and Agricultural Sciences Teaching, Extension, and Research Awards	TEACH
REEU	Research and Extension Experiences for Undergraduates AFRI Priority Area	A7401
HEC	Higher Education Challenge Grants Program	ER
FAEIS	Food and Agriculture Education Information System	FF-L
NLGCA	Capacity Building Grants for Non-Land Grant Colleges of Agriculture Program	NLGCA
MSP	Higher Education Multicultural Scholars Program	KF
NNF	Food and Agricultural Sciences National Needs Graduate and Postgraduate Fellowship Program	KK
AFRI- Fellows	Predoctoral Fellowship Program	A7101
	Postdoctoral Fellowship Program	A7201



United States
Department of
Agriculture

National Institute
of Food
and Agriculture

www.nifa.usda.gov
[@USDA_NIFA](https://twitter.com/USDA_NIFA)

The NIFA logo is positioned on the right side of the slide, set against a background of green, rolling hills. The letters "NIFA" are in a large, white, sans-serif font.

NIFA

MINORITY-SERVING INSTITUTION PROGRAMS



United States
Department of
Agriculture

National Institute
of Food
and Agriculture

www.nifa.usda.gov
[@USDA_NIFA](https://twitter.com/USDA_NIFA)

The NIFA logo, consisting of the letters "NIFA" in a large, white, sans-serif font, set against a green background with a stylized white outline of a mountain or hill.

NIFA

HSI Grants

<https://nifa.usda.gov/funding-opportunity/hispanic-serving-institutions-education-grants-program-hsi>

National Program Leader

Irma Lawrence - ilawrence@usda.gov



United States
Department of
Agriculture

National Institute
of Food
and Agriculture

www.nifa.usda.gov
[@USDA_NIFA](https://twitter.com/USDA_NIFA)

The NIFA logo, consisting of the letters "NIFA" in a large, white, sans-serif font, set against a green background with a stylized mountain range silhouette.

NIFA

HSI Grants

- **Grants to HSIs to improve:**
 - Curricula Design, Materials Development and Library Resources
 - Faculty Preparation and Enhancement for Teaching
 - Instruction Delivery Systems
 - Scientific Instrumentation for Teaching
 - Student Experiential Learning
 - Student Recruitment and Retention
- **Grant Types: Conference, Regular, and Collaboration**
- **FY2020: \$7.8 million available for funding, \$1 million in continuation awards**
- **No Matching Required**



United States
Department of
Agriculture

National Institute
of Food
and Agriculture

www.nifa.usda.gov
[@USDA_NIFA](https://twitter.com/USDA_NIFA)

NIFA

HSI Grants

- **\$50,000 – \$1M**
- **Deadline – January 2021**
- **~9% funding rate**





United States
Department of
Agriculture

National Institute
of Food
and Agriculture

www.nifa.usda.gov
@USDA_NIFA

NIFA

Finding Previously Funded Projects

<https://cris.nifa.usda.gov/>

Current Research Information System

More 



Welcome to the Current Research Information System (CRIS) web site. The Current Research Information System (CRIS) provides documentation and reporting for ongoing agricultural, food science, human nutrition, and forestry research, education and extension activities for the United States Department of Agriculture; with a focus on the National Institute of Food and Agriculture (NIFA) grant programs. Projects are conducted or sponsored by USDA research agencies, state agricultural experiment stations, land-grant universities, other cooperating state institutions, and participants in NIFA-administered grant programs, including Small Business Innovation Research and Agriculture and Food Research Initiative. The Planning, Accountability, & Reporting Staff office of NIFA is responsible for maintaining CRIS.



United States
Department of
Agriculture

National Institute
of Food
and Agriculture

www.nifa.usda.gov
@USDA_NIFA

NIFA

Searching CRIS

Fulltext Terms

nutrition

...AND these

...NOT these

Subfile

☐ (Any)

☒ CRIS

☐ HNRIMS

Records retrieved: 15411

Max Records to Display: 50 ▼

Search

Display Results

Exit to Menu

Exit to Home

Clear Form




United States
Department of
Agriculture

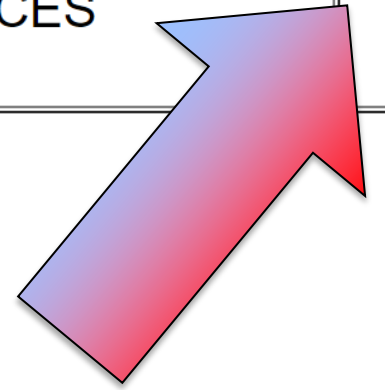
National Institute
of Food
and Agriculture

www.nifa.usda.gov
[@USDA_NIFA](https://twitter.com/USDA_NIFA)

NIFA

Retrieved Records

	1025432	GINGER ROOT EXTRACT FOR NEUROPATHIC PAIN	Shen, C. , Neugebauer, VO, ED. , and Hamod, AB, . (TEXAS TECH UNIVERSITY HEALTH SCIENCES CENTER)	More
--	---------	--	---	----------------------





United States
Department of
Agriculture

National Institute
of Food
and Agriculture

www.nifa.usda.gov
@USDA_NIFA

NIFA

CRIS Reports

- Award Information
- Non-Technical Summary
- Objectives
- Approach
- Progress
- Impact
- Publications

ACCESSION NO: 1020303 **SUBFILE:** CRIS
PROJ NO: TEX0-2-9349 **AGENCY:** NIFA TEX
PROJ TYPE: HATCH **PROJ STATUS:** NEW
START: 17 SEP 2019 **TERM:** 21 JUL 2024

INVESTIGATOR: Awika, JO, .

PERFORMING INSTITUTION:
TEXAS A&M UNIVERSITY
750 AGRONOMY RD STE 2701
COLLEGE STATION, TEXAS 77843-0001

EXPLOITING BIOACTIVE COMPOUNDS IN GRAINS TO IMPROVE FOOD QUALITY & PREVENT CHRONIC DISEASES

NON-TECHNICAL SUMMARY: Cereal grains and grain pulses are primary staples often consumed together, and contribute a r
They thus impact human **nutrition** and health in important ways. Protective effects of consuming whole grain cereals and grain
including cardiovascular disease, type-2 diabetes, and cancer, among others, are well documented in both observational and in
combined intake of whole cereals and pulses beyond their complementary amino acid **nutrition** is rarely researched. Furthermo
manipulated to maximize their benefits to human health without adverse effect on food sensory profile must be investigated to p
evidence that key bioactive components of whole grain cereals and pulses (specifically nondigestible carbohydrates and polyph



United States
Department of
Agriculture

National Institute
of Food
and Agriculture

www.nifa.usda.gov
@USDA_NIFA

NIFA

Data Gateway Keyword: “Animal Science”

PROJECT EXAMPLES

<https://nifa.usda.gov/data>

USDA

United States Department of Agriculture

National Institute of Food and Agriculture

ABOUT

DATA GATEWAY

BUDGET & LEGISLATION

CONTACT

LA

HOME

TOPICS

PROGRAMS

GRANTS

TOOLS

NEWSROOM

IMPACTS

RESOURCES

SEARCH

HOME > DATA GATEWAY

Data Gateway

The National Institute of Food and Agriculture is committed to serving its stakeholders, Congress, and the public by using new technologies to advance greater openness. To strengthen transparency and promote open government, NIFA is providing easy access to data and metrics on how the agency disseminates funding.

NIFA is committed to increasing transparency and making technical advancements to ensure that data is easily accessible. The Data Gateway provides the ability to filter and export data.

[Learn how to use the Data Gateway](#). Visit our [Project Based Search Highlights](#) and [Congressional District Map Highlights](#) for a quick visual overview of the features available.

The Data Gateway enables users to find funding data, metrics, and information about research, education, and extension projects that have received grant awards from NIFA. Users can use terms and filters to search for projects, choose the data elements to see in the results, and export the results.

For a quick overview, [view the Data Gateway Factsheet](#). For details on the Data Gateway tool, [visit the Data Gateway Resource Page](#).

SEARCH PROJECTS:

SEARCH

RESET

RECENT AWARDS

Recent Awards show the history of NIFA's funding from Fiscal Year 2002 (FY02) to the present.

CONGRESSIONAL DISTRICT

The Congressional Funding Map shows the distribution of NIFA's competitive and capacity grants by Congressional district.

KNOWLEDGE AREA

Knowledge Area (KA) is a taxonomy used to categorize NIFA's research, education, and extension projects by funding into related topics, such as animal diseases or soil.

FIELD OF SCIENCE

Field of Science (FOS) is a taxonomy used to organize NIFA's projects by funding and the type of science, such as genetics or molecular biology, used in projects.

SUBJECT OF INVESTIGATION

Subject of Investigation (SOI) is a taxonomy used to group projects by funding with related focus areas, such as food or people and communities.

AWARD TRENDS

Award Trends shows the dollar amount NIFA awarded by fiscal year – from FY02 to present – activity type, such as extension or integrated, and related trends.



United States
Department of
Agriculture

National Institute
of Food
and Agriculture

www.nifa.usda.gov
@USDA_NIFA

NIFA

Agricultural Literacy & Workforce Development: Animal Sciences Projects



AITC

“In 2019, 87,000 teachers and 8.2 million students in pre-kindergarten through 12th grade were reached by this project. additionally, the project also provides funds for regional mini-grants and this year some of these include one in which the Florida program will develop a unit on aquaculture for teachers in 3rd through 8th grade” Project Director: Lisa Gaskala, National Agriculture in the Classroom Organization. Award: 2018-45042-28608



AFRI-AWT

“North Dakota State College of Science and NDSU where students will receive hands-on training in slaughter, meat cutting, and meat processing to meet the growing needs for local meat businesses and retail stores. Upon completing the program, students will receive a **Meat Processing Certificate and have the skills to effectively work in local and small meat businesses and local retail stores.**” Project Director Craig Zimprich, North Dakota State College of Science. Award: 2021-67037-34169

Improved Learning & Engagement: Animal Science Projects



AFRI-REEU

16 projects supporting “Animal Science” (~32 students each) between FY2016- FY2019 including:

- 2017-67032-26009: Undergraduate Research and Education **Exploring One Health:** Protecting our food supply, animal health, and the environment; University of Delaware.
- 2018-67032-27813: TExAS Scholar Program: Teaching with Experiential Learning in Animal Science; Texas A&M University-Kingsville



AFRI Agricultural Workforce
Training

12 projects supporting “Animal Science”(~5 students each) since FY2015 including:

- 2018-38413-28142: Food Systems: Recruiting, Retaining, and Graduating Multicultural Leaders in **Veterinary Medicine**; Michigan State University
- 2020-38413-30729: Engaging multicultural scholars in **feed-the-future careers in the animal sciences**; North Carolina State University.

Improved Learning & Engagement: Animal Science Projects



NNF

79 projects (~4-5 students each) supporting “Animal Science” between FY2008-2020 including:

- 2017-38420-26790: **Genome editing for enhanced animal production: A multidisciplinary educational approach**; University of California, Davis
- 2019-38420-28972: Innovative Multidisciplinary **Training of Animal Scientists** in Reproduction and Genomics; University of Missouri - Columbia



AFRI Fellows

209 projects supporting “Animal Science” between FY2011-2019 including:

- 2018-67011-28016: Maternal Nutrition, Epigenetic Modification, and Programming of Fetal Liver, Muscle, and Cerebrum in Beef Cattle; M. Crouse- North Dakota State University **Predoctoral Fellowship conversion to USDA-ARS**
- 2020-67034-34004: From **genome to phenome in animal genetics** studies; E. Norton at University of Arizona



United States
Department of
Agriculture

National Institute
of Food
and Agriculture

www.nifa.usda.gov
@USDA_NIFA

The NIFA logo, consisting of the letters "NIFA" in a large, white, sans-serif font, set against a green background with a stylized leaf or mountain shape.

More Information

- **NIFA Explanatory Notes**

<https://www.usda.gov/sites/default/files/documents/19nifa2021notes.pdf>

- **Lists all NIFA programs, brief summaries & authorizations**
- **Lists current budget and proposed \$ changes to next year's budget**
- **Prioritizes new areas for work to justify proposed budget changes**



United States
Department of
Agriculture

National Institute
of Food
and Agriculture

www.nifa.usda.gov
[@USDA_NIFA](https://twitter.com/USDA_NIFA)

NIFA

Thank you!

