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
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
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
NIFA Programs Cover Many Topics

**Advanced Technologies**
- Bioremediation
- Biotechnology
- Nanotechnology

**Animals**
- Animal Breeding
- Animal Health
- Animal Production
- Aquaculture

**Business and Economics**
- Markets and Trade
- Natural Resource Economics
- Small Business

**Natural Resources**
- Air
- Forests
- Grasslands and Rangelands
- Soil
- Water

**Education**
- Minority Serving Institutions
- Teaching and Learning
- Workforce Development

**Environment**
- Climate Change
- Ecosystems
- Invasive Pests and Diseases

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

**People**
- Community Vitality
- Family Well-Being
- Youth

**Food Science**
- Food Quality
- Food Safety

**International**
- Global Engagement
- Global Food Security

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

**Health**
- Nutrition
- Obesity
- Wellness
New Nutrition NPLs

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Institute for Food Safety and Nutrition, Division of Nutrition
National Program Leaders

National Program Leaders

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-GRA nt INSTITUTIONS PROGRAMS

- NPL: Manoharan Muthusamy
- NPL: Maurice Smith

AGRICULTURE AND FOOD RESEARCH INITIATIVE (AFRI)
Planning 2021 RFAs

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

**IT’S FUNDING SEASON!**

Please visit the NIFA UP COMING RFA CALENDAR for upcoming funding opportunities.
## Competitive Nutrition Program Metrics

<table>
<thead>
<tr>
<th>Program Area</th>
<th>Program Contacts</th>
<th>Anticipated 2021 RFA publication date</th>
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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
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
AFRI Food and Agricultural Science Enhancement (FASE) Grants
https://nifa.usda.gov/afri-fase-epscor-program

New Investigator Grants (no mandated set-aside)
- Seed Grants
- Standard Grants
- Conference Grants

Strengthening Grants (11.25% of AFRI funding)
Eligibility:
- EPSCoR states
- Minority-serving institutions not among the most successful
- Small or mid-sized institutions not among the most successful

Pre- and Postdoctoral Fellowship Grants (3.75% of AFRI funding)
- Sabbatical Grants
- Equipment Grants
- Seed Grants
- Strengthening Standard Grants
- Strengthening CAP (Coordinated Agricultural Project) Grants
- Strengthening Conference Grants
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

Is your organization in an EPSCoR state?

Yes: Eligible

No

No: Not Eligible

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

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
Are you at a minority-serving institution? See RFA Part VIII, D for a definition.

Yes

Is your institution among the most successful (see Table 1)?

Yes: Not Eligible

No: Eligible

No

Is your institution small or mid-sized (total enrollment < 17,500)?

Yes

No: Not Eligible

Is your institution among the most successful (see Table 1)?

Yes: Not Eligible

No: Eligible
AFRI Farm Bill Priorities

- Plant Health, Production, and Plant Products
- Animal Health, Production, and Animal Products
- Food Safety, Nutrition, and Health
- Bioenergy, Natural Resources, and Environment
- Agriculture Systems and Technology
- Agriculture Economics and Rural Communities

$39 M
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
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.
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.
• 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
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).
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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.
Community Food Projects (CFP)

- **1:1 matching required**
  - May be in-kind

- **CFP**
  - $400,000 up to 48 months

- **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.
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.
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.**
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.
Food and Agriculture Service Learning Program (FASLP)

• NO matching requirement

• Up to $225,000


• 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
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.
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.
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.
AFRI’S EDUCATION AND WORKFORCE DEVELOPMENT
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
• 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

1. Food and Agriculture Non-Formal Education (FANE & CEEY, A7801)
2. Professional Development for Agricultural Literacy (PDAL, A7501)
3. Agricultural Workforce Training (AWT, A7601)
4. Undergraduate Research and Extension Experiential Learning Fellowships (REEU, A7401)
5. Pre-doctoral Fellowships (A7101)
6. Post-doctoral Fellowships (A7201)
7. Agricultural Literacy Evaluation (ALE & OCPD, A7702) only in FY2021
## Theme 1: Agricultural Literacy & Workforce Development

<table>
<thead>
<tr>
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<th>NIFA Programs</th>
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<td>• 58.0 M enrolled in K-12</td>
<td>• <strong>Programs</strong>: PDAL, AWT, SPECA, WAMS, AITC</td>
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<tr>
<td>• Many without farming background or experience</td>
<td>• <strong>Funding</strong>: ~14 M</td>
</tr>
<tr>
<td>• Many teachers and students unaware of opportunities in food and agriculture</td>
<td>• <strong>Priorities</strong>: Teacher development, curriculum development, recruitment, workforce training and retraining</td>
</tr>
<tr>
<td>• More than 51% of undergraduates enrolled in Community Colleges</td>
<td>• <strong>Other</strong>: Increased focus on Community College programs and workforce development after 2017</td>
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## Theme 2: Improved Learning & Engagement

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<td>• 17.3 M undergraduates in U.S.</td>
<td>• <strong>Programs</strong>: HEC, MSP, REEU, NLGCA</td>
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<tr>
<td>• Only 36,112 graduates from Agriculture and Forestry Colleges; not sufficient to fill the</td>
<td>• <strong>Funding</strong>: ~ $24 M</td>
</tr>
<tr>
<td>59,400 job opportunities <em>(Purdue Study)</em></td>
<td>• <strong>Priorities</strong>: Faculty development, curriculum development, experiential</td>
</tr>
<tr>
<td>• Need for improved recruitment of minorities in food and agricultural sciences</td>
<td>learning to enhance undergraduate education programs</td>
</tr>
<tr>
<td>• Non-formal agricultural leadership programs are having growing impacts; e.g., 4H impacts</td>
<td>• <strong>Other</strong>: FAEIS, to collect data on faculty and students</td>
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<td>7 M youth.</td>
<td></td>
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</table>
### Opportunities / Challenges

- 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)

### NIFA Programs

- **Programs**: NNF, AFRI Pre-Doc and Post-Doc
- **Funding**: ~ $17 M
- **Priorities**: Education; mentoring; research, extension and education experiences.
- **Other**: AFRI Pre- and Post-Doc funding is 3.75% of AFRI.
ADDITIONAL INFORMATION
Select Student Opportunities

<table>
<thead>
<tr>
<th>NNF</th>
<th>AFRI-Fellows</th>
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</table>
| 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. | 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 |
<table>
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<th>Acronym</th>
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<td>AITC</td>
<td>Agriculture in the Classroom</td>
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<td>SPECA</td>
<td>Secondary Education, Two-Year Postsecondary Education, and Agriculture in the K-12 Classroom Challenge Grants Program</td>
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<td>WAMS</td>
<td>Women and Minorities in Science, Technology, Engineering, and Mathematics Fields Program</td>
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<td>Professional Development for Agricultural Literacy AFRI Priority Area</td>
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<td>AWT</td>
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<tr>
<td>TERA</td>
<td>National Food and Agricultural Sciences Teaching, Extension, and Research Awards</td>
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<td>REEU</td>
<td>Research and Extension Experiences for Undergraduates AFRI Priority Area</td>
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<td>HEC</td>
<td>Higher Education Challenge Grants Program</td>
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<td>FAEIS</td>
<td>Food and Agriculture Education Information System</td>
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<td>NLGCA</td>
<td>Capacity Building Grants for Non-Land Grant Colleges of Agriculture Program</td>
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<tr>
<td>MSP</td>
<td>Higher Education Multicultural Scholars Program</td>
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<tr>
<td>NNF</td>
<td>Food and Agricultural Sciences National Needs Graduate and Postgraduate Fellowship Program</td>
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MINORITY-SERVING INSTITUTION PROGRAMS
HSI Grants

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

National Program Leader
Irma Lawrence - ilawrence@usda.gov
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
HSI Grants

• $50,000 – $1M

• Deadline – January 2021

• ~9% funding rate
Finding Previously Funded Projects

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

Welcome to the Current Research Information System (CRIS) website. 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.
Searching CRIS

Fulltext Terms: nutrition

AND these

NOT these

Subfile: CRIS

Records retrieved: 15411
Max Records to Display: 50

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| 1025432 | GINGER ROOT EXTRACT FOR NEUROPATHIC PAIN | Shen, C., Neugebauer, VO, ED., and Hamod, AB, (TENAS TECH UNIVERSITY HEALTH SCIENCES CENTER) |
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
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 ir
combined intake of whole cereals and pulses beyond their complementary amino acid nutrition is rarely researched. Furtherm
manipulated to maximize their benefits to human health without adverse effect on food sensory profile must be investigated to
uncover evidence that key bioactive components of whole grain cereals and pulses (specifically indigestible carbohydrates and polyp

...
Data Gateway Keyword: “Animal Science”

PROJECT EXAMPLES

https://nifa.usda.gov/data
Agricultural Literacy & Workforce Development: Animal Sciences Projects

“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

“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
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

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

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

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
More Information

• NIFA Explanatory Notes

• 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
Thank you!