



National Institute of Food and Agriculture

U.S. DEPARTMENT OF AGRICULTURE

Grants Support Technical Assistance Workshop

BIOENERGY, CLIMATE, AND ENVIRONMENT
FOOD PRODUCTION AND SUSTAINABILITY
YOUTH, FAMILY, AND COMMUNITY
FOOD SAFETY AND NUTRITION
INTERNATIONAL PROGRAMS

NIFA

Agricultural Systems and Technology

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Steven Thomson
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Agricultural Systems and Technology (AS&T)

AS&T programs support research, education, and Extension/outreach programs related to:

- Engineering and information systems for: forestry, plant and animal production and protection (including aquaculture)
- Engineering systems for post-harvest inspection, handling, processing, packaging, and distribution.
- Precision crop and on-farm water management
- Engineering Systems for Precision Livestock farming (PLF)
- Technology for sensing, automation and mechanization of labor-intensive tasks in crop and animal production (including aquaculture)
- Risk mitigation measures and systems that reduce hazards to agricultural workers that can include assistive technologies



AS&T

- Systems for converting, treating, processing, refining, or manufacturing products to utilize plant, animal, and woody biomass
- Improvement or expanded utilization of waste and byproducts generated in agricultural and food systems
- Engineered new or improved products and processes that utilize materials from agriculture or micro-organisms (including, but not limited to, bioplastics and biocomposites)
- Novel uses and high value-added products of nano-biomaterials from agricultural and forest origins for food and non-food applications
- Nanotechnology-enabled smart sensors for accurate, reliable and cost-effective rapid detection of pathogens, allergens, insects, diseases, chemical toxins, and contaminants in foods, plant and animal production systems, water, soil and the agricultural production environment.
- Environmental, health and safety assessments of engineered nanoparticles used in food and agricultural systems

Types of Programs

The Programs in AS&T are divided into two groups

- Agriculture and Food Research Initiative (AFRI) programs
 - AFRI Foundational and Applied Sciences (FAS) program (AFRI-FAS)
 - Sustainable Agriculture Systems (SAS) program
- Non-AFRI Programs



AFRI-FAS: Program Area Priorities

- A1511: Nanotechnology for Agricultural and Food Systems
- A1521: Engineering for Agricultural Production and Processing
- A1531: Biorefining and Biomanufacturing
- A1551: Engineering for Precision Crop and Water Management



AFRI FAS: Crosscutting Program Area Priorities

- **A1541: Data Science for Food and Agricultural Systems (DSFAS)**
- **A1701: Critical Agricultural Research and Extension CARE)**
- **A1721: Extension, Education & USDA Climate Hubs Partnership**



AFRI Sustainable Agricultural Systems

2023 Priorities:

- Climate-smart Agriculture and Forestry
- Strengthening the Bioeconomy
- Nutritional Security



Non-AFRI Programs

- Sustainable Agriculture Research and Education (SARE)
Regional Host Institution
- Beginning Farmer and Rancher Development Program (BFRDP)
- Open Data Framework (ODF)
- Urban, Indoor, and Emerging Agriculture (UIE)
- AgrAbility – Support Program for Farmers with Disabilities
- Listed in NSF RFAs; Ag-paneled proposals funded by AFRI
 - A7302 – Cyber-Physical Systems
 - A7301 – Foundational Research in Robotics
 - Signals in the Soil (SiTs)



Broadening Participation

- Strengthening grants create more funding opportunities for MSIs in AFRI programs
- Primary AFRI programs listed provide \$150K in additional funding for partnerships with MSIs or international institutions
- A1531 and A1541 AFRI program area priorities participate in the Tripartite collaborative opportunity between the US, the Republic of Ireland, and Northern Ireland



Resources

- Visit the [funding opportunities page](#)
- This link is useful to
 - Find the Request for Applications (RFA)
 - Locate the program
 - Locate the contact information
 - Locate Technical Assistance resources



Funding Opportunities Page

nifa.usda.gov/grants/funding-opportunities?page=1

Click on the Program name to learn more

FUNDING OPPORTUNITY

Crop Protection and Pest Management



Thursday, November 17, 2022

The purpose of the Crop Protection and Pest Management program is to address high priority issues related to pests and their management using IPM approaches at the state, regional and national levels. The CPPM program supports projects...



FUNDING OPPORTUNITY



Capacity Building Grants for Non-Land-Grant Colleges of Agriculture Program

Friday, October 7, 2022

Capacity Building Grants for Non-Land-Grant Colleges of Agriculture Program (NLGCA) Institutions may use the funds: (a) to successfully compete for funds from Federal grants and other sources to carry out educational, research, and...



You can

1. Access the RFA from the **Download RFA** button
2. Each program will host a RFA announcement and technical assistance webinar when the RFA is published. This webinar will be held by the program before the application due date. The registration information and the video recording can be accessed from the **Technical Assistance Webinar** button

Capacity Building Grants for Non-Land-Grant Colleges of Agriculture Program



SHARE

Capacity Building Grants for Non-Land-Grant Colleges of Agriculture Program (NLGCA) Institutions may use the funds: (a) to successfully compete for funds from Federal grants and other sources to carry out educational, research, and outreach activities that address priority concerns of national, regional, State, and local interest; (b) to disseminate information relating to priority concerns to interested members of the agriculture, renewable resources, and other relevant communities, the public, and any other interested entity; (c) to encourage members of the agriculture, renewable resources, and other relevant communities to participate in priority education, research, and outreach activities by providing matching funding to leverage grant funds; and (d) through: (1) the purchase or other acquisition of equipment and other infrastructure (not including alteration, repair, renovation, or construction of buildings); (2) the professional growth and development of the faculty of the NLGCA Institution; and (3) the development of graduate assistantships.

To apply for this grant program, the institution must be Certified as a Non-land Grant College of Agriculture. Please review the [NLGCA Eligibility Flowchart](#) and corresponding [Request for Non-Land-Grant Colleges of Agriculture Designation](#).

The RFA announcement and technical assistance webinar related to this FY 2023 funding opportunity has taken place. Please access the details about the webinar including recording/supporting documents through the Webinar heading.



Dates may vary. Please see RFA for exact dates.





You can

3. Access the **program page** for more information about the program through Program link
4. Access the **Program staff contact** information from
 - This page as shown here
 - Contact information also available in RFA

The screenshot shows a grant application page with the following elements:

- Apply for Grant** (button)
- Download RFA** (button)
- Technical Assistance Webinar** (button)
- Dates may vary. Please see RFA for exact details.
- 1** (Callout pointing to the 'Download RFA' button)
- 2** (Callout pointing to the 'Technical Assistance Webinar' button)
- PROGRAMS:** [Capacity Building Grants for Non-Land-Grant Colleges of Agriculture Program](#) (Callout **3** points to this link)
- ELIGIBILITY:** Other or Additional Information (See below)
- MORE INFORMATION ON ELIGIBILITY:** See Part III, A. Eligibility of the RFA for eligibility requirements. Applications may only be submitted by a Grant College of Agriculture (NLGCAs) certified as such by the National Institute of Food and Agriculture application. A current list of NLGCA's certified by NIFA can be found at the NLGCA List Resource webpage recipients may subaward to organizations not eligible to apply to this grants program, providing such necessary for the conduct of the project. All institutions certified as NLGCA prior to December 21, 2018 certification and meet the new criteria for NLGCA certification contained in the Federal Register Notice.
- POSTED DATE:** Friday, October 7, 2022
- FOR MORE INFORMATION CONTACT:** [Michelle Schelske-Santos](#) (Callout **4** points to this link)
- CLOSING DATE:** Thursday, December 1, 2022
- CONTACT FOR ELECTRONIC ACCESS PROBLEMS:** grantapplicationquestions@usda.gov
- FUNDING OPPORTUNITY NUMBER:** USDA-NIFA-NLGCA-009505



Questions ???

Panelists

Steven Thomson
Melvin Carter

Please put your questions
in the Q and A Box

Questions/comments/feedback:
AdminOpsTeam.NIFA@usda.gov

Subject line: Grant Support Technical Assistance
Workshop