

Ganesh C. Bora PhD
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National Program Leaders
Precision Agriculture
USDA NIFA





National Institute of Food and Agriculture
U.S. DEPARTMENT OF AGRICULTURE

NIFA OVERVIEW





NIFA's Science Institutes

- **Institute of Bioenergy, Climate, and Environment**

- Enhance sustainable bio-based energy systems and products
- Enhance adaptive agro-ecosystems in response to climate variability and change

- **Institute of Food Production and Sustainability**

- Enhance global food security through productive and sustainable agricultural systems

- **Institute of Food Safety and Nutrition**

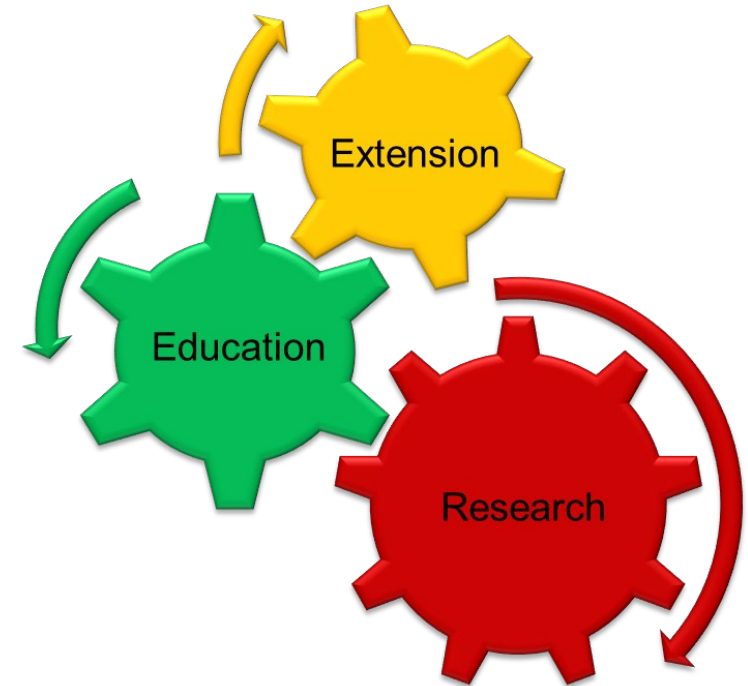
- Ensure safe food supply; improve citizens' health through nutrition; reduce childhood obesity; and improve food quality

- **Institute of Youth, Family, and Community**

- Enable vibrant and resilient communities; enhance youth development
- Prepare the next generation of scientists
- Enhance science capacity in minority serving institutions

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- **\$1.95 billion allocated to NIFA for FY2021**
- **NIFA provides capacity (formula) grants to land-grant universities**
- **Provides competitive grants to support research, education and extension at various institutions**
 - **Land-grant universities, non-land-grants, minority-serving institutions, community colleges, and other organizations**
 - **Eligibility varies by program and is listed in each Request for Application (RFA)**





How NIFA funds are provided

- Capacity grants - for land-grant institutions, schools of forestry, and schools of veterinary medicine to fund research and extension activities. The amount of funds provided to each institution is determined by a formula.
- Competitive grants - for fundamental and applied research, extension, and higher education activities, as well as for projects that integrate research, education, and extension functions. Individuals, institutions, or organizations may apply according to criteria listed in the Request For Applications (RFA).



Capacity Grants: Hatch Projects

- Hatch Funding given to Ag Experiment Stations
 - including insular areas (+AK, HI)
- Regular Hatch Projects fund: 75%
 - Dr. Vance Owens
- Multistate Hatch Projects fund: 25%
 - Dr. Ganesh Bora



Peer Review

- NIFA relies on a rigorous peer review process by research, extension, and/or education experts to select proposals of highest merit
- The program-specific evaluation criteria detailed in RFAs may include:
 - Scientific Merit
 - Qualifications of the Project Team
 - Institutional Capacity and Availability of Facilities
 - Project Planning & Management
 - Relevance to Agriculture and Program Priorities





NIFA Resources

Find out about NIFA news and events:

- NIFA events calendar:
<https://nifa.usda.gov/calendar>
- Sign-up for NIFA newsletters:
<https://nifa.usda.gov/newsroom/newsletters/update.html>
- NIFA Blog:
<https://nifa.usda.gov/newsroom/blogs>

Find a funding opportunity:

- Funding opportunities:
<https://nifa.usda.gov/grant-search>
- Upcoming RFA calendar:
<https://nifa.usda.gov/upcoming-rfa-calendar>
- Competitive Grants Flowchart:
<https://nifa.usda.gov/competitive-grants>

Application resources:

- NIFA Grant Resources:
<https://nifa.usda.gov/grant-training>
- Submitting a grant:
<https://nifa.usda.gov/apply-grant>
- Info on awarded grants:
<https://cris.nifa.usda.gov/Welcome.html>



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OVERVIEW OF THE AGRICULTURE AND FOOD RESEARCH INITIATIVE



Foundational and Applied Science:

- Plant health and production, plant products
- Animal health and production, animal products
- Food safety, nutrition, and health
- Bioenergy, natural resources, environment
- **Agriculture systems and technology**
- Agriculture economics and rural communities
- Cross-cutting Program Area Priorities

Agriculture and Food Research Initiative Competitive Grants Program

04/21/2021 Modifications: All substantive modifications and additional edits appear in red.

Foundational and Applied Science Program

Fiscal Years (FY) 2021 and 2022 Request for Applications

LETTER OF INTENT DEADLINE: Varies by Program Area

APPLICATION DEADLINE: Varies by Program Area

ELIGIBILITY: See Part III, A of this RFA

This RFA solicits applications for two review cycles (2021 and 2022) covering three years of budgets (FY 2021, FY 2022, and FY 2023). Applicants considering applying to the 2022 review cycle should check the AFRI RFA webpage and www.grants.gov after **December 15, 2021** for the 2022 Funding Opportunity Number and Application Kit, as well as for any other changes.



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AFRI Grant Types

- Standard Grants
- Seed Grants
- Coordinated Agricultural Projects (CAP)
- Conference Grants
- Food and Agriculture Science Enhancement (FASE) Grants
 - Pre- and Postdoctoral Fellowship Grants
 - Strengthening Grants – several types
 - New Investigator Grants



Some Pertinent Grant Programs - general

- A1521 Engineering for Ag. Production and Processing - 650K
- A1551 Engineering for Precision Crop and Water Management -
- A1541 Data Science for Agricultural Systems (DSFAS) - 650K and 1M
- NIFA/NSF: National Robotics Initiative - 1.2M
- NIFA/NSF: Cyber-Physical Systems - 1.2M (or 1.6M with TTP) No Deadline



More Pertinent Grant Programs

- NIFA/NSF: AI Institutes - 4M/Year for up to 5 years (Two grants for 2020 and Two for 2021)
- SBIR 8.13 – Plant Prod. and Protection Engineering program
- A1601 – Small and Medium farms - Denis Ebodaghe



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‘Regional Innovation and Demonstration of Climate-smart Agriculture for Future Farms (CAFF)

Link to the RFA

[FY 2022 AFRI Foundational and Applied Science RFA \(usda.gov\)](https://www.usda.gov/afri/funding/fy-2022-afri-foundational-and-applied-science-rfa)



Program Area Priority A1556

Establish an agricultural testbed and demonstration farm for climate smart agriculture or forestry. The farm will incorporate animal, plant, or combined animal and plant production systems or forestry systems with advanced precision agricultural technologies to develop and implement climate-smart agricultural or forestry practices that will reduce emission of GHG, create positive economic, environmental, and social impact and address unique regional production systems in the US. Public-private partnerships are encouraged. The long-term goals of this program area priority include sustainable agricultural and forestry production systems, resilient food or forestry supply chains, value-added products, enhanced socio-economic opportunities, and thriving rural communities.



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Program Code:	A1556
Program Code Name:	Regional Innovation and Demonstration of Climate-smart Agriculture for Future Farms (CAFF)
CFDA Number	10.310
Project Type(s):	Integrated Projects only
Grant Type(s):	a. Standard and FASE (Strengthening Standard) Grants <u>only</u> b. See Part II § C.2 for requirements specific to FASE Grant applications.
Letter of Intent Deadline	Not applicable
Application Deadline(s)	2022: Thursday, October 6, 2022 (5:00 p.m. Eastern Time)
Grant Duration:	Up to 48 months for Standard Grants and Strengthening Standard Grants
Maximum Award Amount(s):	Including indirect costs: \$4,000,000 for Standard Grants and Strengthening Standard Grants
Program Area Priority Contact(s):	a. Dr. Ganesh Bora, (816) 489-0944 or ganesh.bora@usda.gov b. Dr. Amer Fayad, (816) 894-7228 or amer.fayad@usda.gov c. Dr. Steven Smith, (202) 445-5480 or steven.i.smith@usda.gov d. Dr. Ann Stapleton, (816) 274-1942 or ann.stapleton@usda.gov e. Dr. Adam Wilke, (816) 398-5277 or adam.wilke@usda.gov f. Dr. Diomides Zamora, (202) 590-6049 or



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WORK WITH NIFA

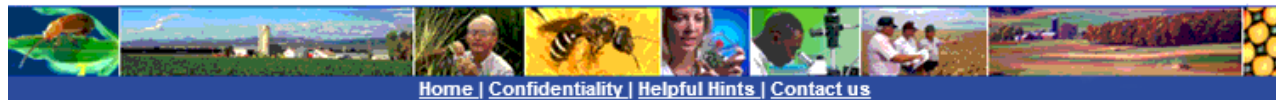


Volunteer to serve as a panelist



United States Department of Agriculture
National Institute of Food and Agriculture

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Review
System



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Welcome to the Peer Review System for the National Institute of Food and Agriculture. If you are a returning panelist, you may log in and get started.

Volunteer:

If you would like to volunteer to serve as a peer review panelist for our programs, please provide your information using this link for [Panelist Recruitment](#). Panelists are selected based on their expertise, credentials, and NIFA panel needs. For more information, contact the program staff listed in the Request for Applications for the program you are interested in serving on.

Panelist Account Activation:

If you do not have a login and have received the welcome to PRS email to serve on a NIFA panel, you may use this link to [Activate your Account](#).

An asterisk (*) indicates a required field.

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PRS has been modified to work on multiple browsers. Edge, Chrome, Firefox, and Safari have all been verified as compatible with PRS as of June 2021. If you have difficulty accessing PRS on one of these browsers, please contact the program staff member assisting with your panel.

Privacy information: The information you provide will be used by NIFA in selecting reviewers for grant applications submitted to NIFA programs. In addition, the contact information may be used to update records pertaining to active NIFA grant applications and grants. This information will not be used for any other purpose

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<https://prs.nifa.usda.gov/prs/preLogin.do?page=welcome>



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QUESTIONS?????



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THANK YOU!

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