Agriculture and Food Research Initiative (AFRI) - Foundational Program - Agriculture Economics and Rural Communities (AERC): Environmental and Natural Resource Economics

Opp ID: 149658 | Research | Last edited on 19 Feb 2015

Full Details

Website: http://www.nifa.usda.gov/fundingfas/aer.htm
Sponsor: United States Department of Agriculture (USDA)
National Institute of Food and Agriculture (NIFA)
Sponsor ID: A1651

Amount: Upper $500,000 USD
Total Program Funds: Approximately $16 million

Standard Grants must not exceed $500,000 total (including indirect costs) for project periods of up to 5 years.

Applicant Type:
- Academic Institution
- Commercial
- Government
- New Faculty/New Investigator
- Nonprofit
- Ph.D./M.D./Other Professional
- Small Business

Citizenship or Residency: United States

Activity Location: United States

Abstract:
This priority area examines the interrelationship of natural resources, the environment with agricultural and rural communities. Research projects funded through this priority will advance theories, methods and applications that contribute to understanding an ecological approach to agriculture that embraces production and sustainable resource management simultaneously. This priority area also provides coordination with the Renewable Energy, Natural Resources, and Environment (RENRE) Program Area in this solicitation. Research topics include but are not limited to:
1. Impacts or implications of agriculture, resource conservation and management.
2. Conservation and environmental policies affecting agriculture and rural communities.
3. Urbanization and land use change.
4. The economics of water resource management.
5. Methodological advances in non-market valuation and valuation of ecosystem services.
6. Incentive mechanisms and policies designed to promote resource conservation.

This Program Area emphasizes the interrelationships between agricultural system components to develop the next generation of engineered systems, products, processes, and technologies. It blends biological, physical, and social sciences. This approach will lead to sustainable, competitive, and innovative solutions for U.S. and global agriculture and food production. Some key disciplinary contributors may include: engineering; agricultural economics; chemistry; microbiology; soil science; animal and plant sciences; veterinary medicine; genetics; social sciences; behavioral sciences; food safety; physics; materials science, and toxicology. To the extent possible, applicants are encouraged to incorporate interdisciplinary sciences. By doing so, projects are more likely to incorporate varying dimensions of sustainability (economic, environmental, and social) and have a greater impact on agricultural problems.

The broad list of topics encompassed by this area includes, but is not limited to:
- New uses and products from traditional and nontraditional crops, animals, byproducts, and natural resources;
- Robotics, automation, precision and geospatial technologies, energy efficiency, computing, and expert systems;
- New hazard and risk assessment and mitigation strategies;
- Water quality and management and irrigation.

CFDA 10.310

Eligibility:
Eligible applicants include: 1) State Agricultural Experiment Stations; 2) colleges and universities (including junior colleges offering associate degrees or higher); 3) university research foundations; 4) other... more +
### Upcoming Deadlines

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**Keywords**  Agriculture and Food Sciences  Water Resources Management or Planning  Toxicology  Agricultural Engineering  Behavioral or Social Studies  Natural Resources Management  Food Safety  Physics  Land Management or Land Use  Water Quality  Agricultural Economics  Energy Efficiency  Land Use Planning or Policy  Chemical Sciences  Environmental Economics  Rural Planning or Policy  Natural Resources  Natural Resource Economics  Environmental Planning or Policy  Soil Sciences  Microbiology  Precision Farming  Environmental Conservation  Materials Sciences  Renewable Energy  Agricultural Conservation  Robotics  Automation