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Funding Opportunities Weekly Digest – January 29, 2020

Federal



Biotechnology Risk Assessment Grants Program

NIFA requests applications for the BRAG program for fiscal year (FY) 2020 and FY 2021 to support environmental assessment research concerning the introduction of genetically engineered (GE) organisms into the environment. These organisms include plants, microorganisms (including fungi, bacteria, and viruses), insects, fish, birds, mammals, and other animals excluding humans. Investigations on the effects of both managed and natural environments are relevant.

LOI (encouraged but not required) Deadline: 02/12/20 | Application Deadline: 03/18/20 | [View RFA](#)

Agriculture and Food Research Initiative (AFRI) Foundational and Applied Science

The goal of this program is to invest in agricultural production research, education, and extension projects for more sustainable, productive, and economically viable plant and animal production systems. The global agricultural output needs to be expanded significantly to meet the food needs of the population expected in 2050; thus, it is imperative to develop innovative,

safe, and sustainable management strategies for livestock, crops, and critical underlying resources.

[See AFRI Deadlines](#) | [View Grant Opportunity](#) | [View RFA](#)

Organic Transitions (ORG)

The goal of this program is to support the development and implementation of research, extension, and higher education programs to improve the competitiveness of organic livestock and crop producers, as well as those who are adopting organic practices.

Application Deadline: 02/27/20 | [View Grant Opportunity](#) | [View RFA](#)

Beginning Farmer and Rancher Development Program (BFRDP)

The purpose of this funding is to support the delivery of education, mentoring, and technical assistance programs to help beginning farmers and ranchers in the United States (US) and its territories with entering, establishing, building, and managing successful farm and ranch enterprises.

Application Deadline: 03/19/20 | [View Grant Opportunity](#) | [View RFA](#)

Higher Education Challenge (HEC) Grants Program

The purpose of this project is to enable colleges and universities to provide the quality of education necessary to produce baccalaureate or higher degree level graduates capable of strengthening the nation's food and agricultural scientific and professional workforce.

Application Deadline: 03/23/20 | [View Grant Opportunity](#) | [View RFA](#)

[View Additional NIFA Funding Opportunities](#)



Water Resources Research National Competitive Grants Program

Requests proposals for matching grants to support research on the topic of improving and enhancing the nations water supply including evaluation of innovative approaches to water treatment infrastructure design retrofitting maintenance management and replacement exploration and advancement of our understanding of changes in the quantity and quality of water resources in response to a changing climate population shifts and land use changes development of methods for better estimation of water supply both surface and groundwater including estimation of the physical supply and of the economic supply of water development and evaluation of processes and governance mechanisms for integrated surface ground water management and the evaluation and assessment of conservation practices.

Application Deadline: 3/19/20 | [View Grant Opportunity](#) G20AS00026



National Pork Board Professional Student Fellowship

This is an opportunity to ensure funding of professional student (MS, PhD, Veterinary-PhD) education and training in critical areas of study. This includes traditional and nontraditional disciplines that could help fill the pipeline of highly skilled employees to the pork industry. Training of professional students described in your proposal may take many forms but must go beyond what is typical of a mentor-mentee relationship between a faculty member and graduate student.

Application Deadline: 02/25/20 | [View Grant Opportunity](#)



FY 2020 Faculty Exchange Program—African Veterinary Science

The purpose of the Faculty Exchange Program is to assist developing countries to improve their university agricultural education, research, and extension programs by providing a one semester training program at US Land Grant Agricultural Universities. Participants are able to upgrade their technical knowledge in their subject area, but they also learn new teaching methods through class observation, and they will learn new research methods through experience in the lab or through short courses or one-on-one instruction.

Application Deadline: 03/02/20 | [View Grant Opportunity](#)



2020 Conservation Collaboration Grants or Agreements

The purpose of Conservation Outreach Grants or Agreements is to leverage National Resources Conservation Services (NRCS) and partner resources to assist historically underserved farmers and ranchers and assist farmers and ranchers to improve, restore, or maintain natural resources that improve soil health; improve water quality; provide habitat for local wildlife species of concern; improve the environmental and economic performance of working agricultural lands; and assist communities and groups to build and strengthen local food projects that provide healthy food and economic opportunities.

Application Deadline: 02/07/20 | [View Grant Opportunity](#)



**U.S. DEPARTMENT OF
ENERGY**

GOLDEN FIELD OFFICE

FY20 Bioenergy Technologies Multi-Topic FOA

The US Department of Energy's (USDOE) Bioenergy Technologies Office develops technologies that convert domestic biomass and other waste resources into fuel, products, and power to enable affordable energy, economic

growth, and innovation in renewable energy and chemicals production—the bioeconomy. This FOA will provide funding to address five topics: feedstock and supply logistics; advanced algal systems; conversion technologies; advanced development and optimization; and strategic analysis and crosscutting sustainability.

Application Deadline: 04/30/20 | [View Grant Opportunity](#) DE-FOA-0002203



Science and Technology Studies

The Science and Technology Studies (STS) program supports research that uses historical, philosophical, and social scientific methods to investigate the intellectual, material, and social facets of the scientific, technological, engineering, and mathematical (STEM) disciplines. It encompasses a broad spectrum of topics including interdisciplinary studies of ethics, equity, governance, and policy issues that are closely related to STEM disciplines.

Application Deadline: 02/23/20 | [View Grant Opportunity](#) NSF 19-610

Division of Integrative Organismal Systems Core Programs

Supports research aimed at understanding why organisms are structured the way they are and function as they do. Proposals should focus on organisms as a fundamental unit of biological organization.

Application Deadline: Accepted Anytime | [View Grant Opportunity](#) NSF 20-536

Spectrum and Wireless Innovation Enabled by Future Technologies (SWIFT)

The goal of these research projects may be the creation of new technology or significant enhancements to existing wireless infrastructure, with an aim to benefit society by improving spectrum utilization beyond mere spectrum efficiency. The SWIFT program seeks to fund collaborative team research that transcends the traditional boundaries of individual disciplines.

Application Deadline: 04/03/20 | [View Grant Opportunity](#) NSF 20-537

Computer Science for All

This program aims to provide all US students with the opportunity to participate in computer science and computational thinking education in their schools at the preK-12 levels. With this solicitation, the National Science Foundation focuses on both research and researcher-practitioner partnerships that foster the research and development needed to bring computer science and computational thinking to all schools.

Proposal Deadline 4/13/20 | [View Grant Opportunity](#) | [Program Solicitation](#) NSF 20-539

Dimensions of Biodiversity

This campaign promotes novel integrative approaches to fill the most substantial gaps in our understanding of the diversity of life on Earth. It takes a broad view of biodiversity, and focuses on the intersection of genetic, phylogenetic, and functional dimensions of biodiversity. Successful proposals must integrate these three dimensions to understand interactions among them. While this focus complements several core programs in the Biological Sciences Directorate at the National Science Foundation (NSF), it differs by requiring that multiple dimensions of biodiversity be addressed simultaneously, in novel ways, to understand their synergistic roles in critical ecological and evolutionary processes, especially pertaining to the mechanisms driving the origin, maintenance, and functional roles of biodiversity.

Proposal Deadline: 03/27/20 | [View Grant Opportunity](#) NSF 20-524



Building an Integrated Laboratory System to Advance the Safety of Human and Animal Food

The intended outcome of this funding opportunity announcement is to advance the goal of a national food safety system by supporting and enhancing state human and animal food testing laboratories tasked with surveillance and emergency response testing, including investigations of foodborne disease outbreaks. The resulting cooperative agreement will provide the additional support to these laboratories through the activities of an association that will conduct research on national testing capability and capacity; develop best practices and other guidance manuals; offer trainings, workshops, meetings,

and other educational resources; support ISO/IEC 17025 laboratory accreditation for non-accredited laboratories; and other activities to support human and animal food testing laboratories.

LOI Required: 02/21/20 | [View Grant Opportunity](#) RFA-FD-20-013

Integrated Food Safety System Online Research and Collaboration Development

The Office of Regulatory Affairs is soliciting a renewal application to support the development, support, and promotion of innovative information sharing and research tools hosted on the Integrated Food Safety System (IFSS) collaboration/research portal, which serves as a critical federal-state collaboration portal to advance food safety and public health.

Application Deadline: 03/25/20 | [View Grant Opportunity](#) RFA-FD-20-023

Center for Collaborative Research on Complex Generics

Collaborative interactions to stimulate generic drug research engagement from the generic drug industry and accelerate progress in areas of high priority to OGD and the generic drug industry. Infrastructure to support core program for the Center. Cutting-edge scientific research in analytical methods, modeling and simulation, formulation science, clinical and pre-clinical development, and other areas pertaining to generic drug research.

Application Deadline: 04/13/20 | [View Grant Opportunity](#) RFA-FD-20-007

NARMS Cooperative Agreement Program to Enhance and Strengthen Antibiotic Resistance Surveillance in Retail Food Specimens

The purpose of this funding opportunity announcement is to protect and promote public health by enhancing, strengthening and sustaining antibiotic resistance surveillance in retail food specimens within the National Antimicrobial Resistance Monitoring System for Enteric Bacteria (NARMS) program. The NARMS cooperative agreements will improve the detection of antibiotic resistance among enteric bacteria in food commodities, as well as potentially develop new sites as part of the program. Measurable outcomes of the program will be in alignment with the NARMS objectives.

Application Deadline: 05/01/20 | [View Grant Opportunity](#) PAR-16-099

Vet-LIRN Network Capacity-Building Projects

The purpose of this funding opportunity announcement is to support enhanced human and animal food safety by strengthening the capacity, collaboration, and integration of food-safety laboratories and networks, thereby facilitating an effective and coordinated response to future human and animal food safety issues. This cooperative agreement program is intended to build domestic laboratory capacity as put forth in the Food Safety Modernization Act (FSMA), by developing the Veterinary Laboratory Investigation and Response Network (Vet-LIRN) capabilities and capacity to investigate potential animal foodborne illness outbreaks.

Application Deadline: 09/20/23 | [View Grant Opportunity](#) PAR-18-604



Animal and Biological Material Resource Center

Of special interest are resources that emphasize use of broadly applicable, interdisciplinary validation tools to increase predictability of animal models, such as approaches to compare and determine relatedness and usefulness of a disease associated network/pathway/physiological process between an animal model and a human patient.

Application Deadline: 02/20/20 | [View Grant Opportunity](#) | [PAR-17-006](#)

MoTrPac Phase 2 Animal Studies

The new Prenatal Alcohol and SIDS and Stillbirth (PASS) Network members will use Molecular Transducers of Physical Activity Consortium (MoTrPAC) data to conduct detailed mechanistic studies to explore the functions, sources, and target tissues of molecules that transduce the beneficial effects of physical activity that have been identified in MoTrPAC.

Application Deadline: 3/20/20 | [View Grant Opportunity](#) | [RFA-RM-20-009](#)

Foundations and Nonprofit



2020 Seeding Solutions

Choose from six challenge areas which aim to solve large-scale agricultural problems while understanding broad implications and impacts.

Application Deadline: 02/26/20 | [View Grant Opportunity](#)

The International Consortium for Antimicrobial Stewardship in Agriculture (ICASA)

Call for letters of intent to advance stewardship and improve health outcomes for livestock. The letters of intent should describe concepts for the development, improvement, and/or validation of animal-health monitoring or rapid in-field, pen-side, or animal-side diagnostic tools.

Letters of Intent Deadline: 02/26/20 | [View Grant Opportunity](#)

2020 New Innovator in Food and Agriculture Research Award

With this program, the Foundation for Food and Agriculture Research (FFAR) intends to support and promote the future generation of exceptionally talented and creative new faculty who are conducting critical and highly innovative research, and who are establishing research programs that will lead to expanded availability of food and facilitate the global practice of sustainable agriculture as the world's population grows to more than 9 billion people by the year 2050.

Application Deadline: 03/04/20 | [View Grant Opportunity](#)



2020 Reproductive Conditions and Disease Request for Proposals

This request for proposals seeks research that may address but is not limited to the following topics: male and female fertility/infertility; cryptorchidism; dystocia; infectious disease including Brucellosis, pyometra, and other disorders of the

male and female reproductive tract.

Application Deadline: 03/18/20 | [View Grant Opportunity](#) | [View RFP](#)

2020 Dermatology and Allergic Disease Request for Proposals

Canine Health Foundation (CHF) is seeking innovative approaches to canine atopy, with a primary goal of the studies supported by this request to include the identification of novel immune signaling targets involved in pathophysiology of canine atopic dermatitis, and to further validate and prioritize a next generation of pharmaceutical or vaccine targets of which agonism or antagonism might improve the lives of dogs with canine atopic dermatitis.

Application Deadline: 03/30/20 | [View Grant Opportunity](#)

2020 Vector-Borne Disease Request for Proposals

The request for this proposal seeks critical research to diagnose, prevent, and treat vector-borne diseases in dogs. Diseases of interest include, but are not limited to, heartworm disease, leishmaniasis, ehrlichiosis, anaplasmosis, Rocky Mountain spotted fever, hepatozoonosis, babesiosis, bartonellosis, hemotropic mycoplasmosis, and Lyme disease.

Application Deadline: 03/30/20 | [View Grant Opportunity](#)



The SNPRC Pilot Research program 2020 Competition

This program provides opportunities and support for investigators to use Southwest National Primate Research Center (SNPRC) nonhuman primate resources in highly focused, short-term studies with a high likelihood of enhancing the value, utility, feasibility, and attractiveness of nonhuman primates for biomedical research. High priority will be given to studies that propose to generate preliminary data for applications to the National Institutes of Health (NIH) for support of future research projects. Those proposing to develop new nonhuman primate models of disease, or develop and/or test new research methods, instrumentation, or approaches for biomedical research using nonhuman primates, also will be considered responsive to the goals of the program.

Letter of Intent Deadline: 02/14/20 | [View Grant Opportunity](#)



Feline and Canine Proposals

Proposals on any topic that advances the health of cats and dogs will be considered. Immediate interest in proposals that address issues pertaining to feline comorbidities, feline tooth resorption, and feline cognitive dysfunction syndrome.

Application Deadline: 03/11/20 | [View Grant Opportunity](#)

Investigating Novel Device to Reduce Epileptic Seizures

Researchers will evaluate a novel wearable wireless collar device to help improve treatment of canine epilepsy. The device, adapted specially for dogs from a human epilepsy therapy device, stimulates a nerve in the neck that connects the brain to the heart. The investigators will test whether the device effectively causes detectable changes in heart rate and brainwaves in dogs. Identifying noninvasive and nonpharmaceutical therapies for epileptic dogs will increase the available treatment strategies for this frustrating disease.

Application Deadline: 06/01/20 | [View Grant Opportunity](#) Study ID: D20CA-840



2020 Access to Veterinary Care

Grant awards will support veterinary programs at colleges/schools of veterinary medicine that train veterinary students serving a community of need where a lack of accessible veterinary services has been identified. The community need may be due to a variety of barriers, including but not limited to: language, culture, socioeconomic status, or access to transportation.

Application Deadline: 03/04/20 | [View Grant Opportunity](#)

For Profit



Wildlife Acoustics Scientific Product Grant

We want to enable those involved in animal biology, research, and conservation to do their best work easily and quickly. To that end, Wildlife Acoustics has established a grant program to support bioacoustics research efforts from chiropteran, avian, terrestrial, amphibious, and marine wildlife, to everything else in between.

Application Deadline: 02/15/20 | [View Grant Opportunity](#)

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