

Animal Health and Disease Research

2020-2021 Competitive Grants Program

Request for Proposals (RFP)

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| **Deadlines** |  |
| **Full Application** | **Friday, July 3, 2020 (5pm Eastern)** |

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# Funding Opportunity Description

## Overview

Research and Graduate Education announces the availability of U.S. Department of Agriculture (USDA) Animal Health and Disease Research Program funds and seeks applications from Penn State’s College of Agricultural Sciences faculty that adhere to Section 1433 of Subtitle E (Sections 1429-1439), Title XIV of Public Law 95-113 (7 U.S.C. 3191-3201), as amended.

This grant opportunity is being offered to support research that:

* promotes the general welfare through improved health and productivity of domestic livestock, poultry, aquatic animals, and other income-producing animals which are essential to the nation’s food supply and welfare of producers and consumers of animal products;
* improves the health of horses;
* facilitates the effective treatment and prevention (where possible) of diseases in both domesticated and wild species which, if not controlled, would be disastrous to the United States animal industries and endanger the Nation’s food supply;
* facilitates the prevention of disease in honey bees to protect the production of an important agricultural product;
* minimizes livestock and poultry losses due to transportation and handling;
* protects human health through control of animal diseases transmissible to humans;
* improves methods of controlling the birth of predators and other animals; and
* promotes the general welfare through expanded programs of research and extension to improve animal health.

Research and Graduate Education will seek proposals that are comprised of basic and applied studies on infectious and noninfectious agents which impair the normal state of the living animal body and/or affect the performance of vital functions. This includes research to improve the health of domestic livestock, poultry, aquatic animals and other income-producing animals (including honeybees) and to facilitate the effective prevention of diseases in both domesticated and wild animals which, if not controlled, would endanger the livestock and poultry industries.

Also included is research to minimize transportation and handling losses; monitor the suitability of animals and animal products to human use; protect public health through control of animal diseases transmissible to humans and improve methods of controlling the birth of predators.

Studies must relate directly to the health of a target livestock, poultry, honey bees, or aquatic animal species and includes laboratory studies, research on animal care as it relates to livestock health and well-being, investigation of metabolic diseases and reproductive diseases including endocrine dysfunctions such as anestrus. Application of molecular biology to animal health problems is included.

## Exclusions

The Animal Health and Disease Research Program was enacted to address health and diseases problems that exist pre-slaughter or pre-collection of animal products (pre-harvest). Research in nutrition, if no disease is produced or under study, is not included or allowable under the Animal Health and Disease Research Program. Research on reproductive biology per se is not included. Research to improve performance is not included except as it relates to improved health.

So-called “post-harvest” problems (post-slaughter or post-collection) of animal products is not included even though these are extremely important and closely related to pre-harvest problems.

## Solicitation and Oversight of Proposals and Projects

The Director of the Agricultural Experiment Station is responsible for soliciting and receiving research proposals, for facilitating a selection process to identify and determine funding eligibility for the proposals, and ensuring that funds received are properly budgeted, accounted for, and reported to USDA on an annual basis.

## Legislative Authority

Guidelines governing the use of funds allocated to Penn State’s College of Agricultural Sciences are provided under the provisions of Section 1433 of Subtitle E (Sections 1429-1439). Funds are allocated annually from USDA to the College of Agricultural Sciences based on the formula for apportionment as specified in Section 1433 and may vary from year-to-year.

# Eligibility Information

## Eligible Applicants

All College of Agricultural Sciences’ faculty (tenure-track or tenured and non-tenure track faculty with prior approval) are eligible to apply. Individuals can only be the Principal Investigator (PI) on one proposal, but may serve as co-PI on more than one proposal. The PI must be a tenure-track/tenured faculty member or a non-tenure track faculty member with prior approval holding a minimum rank of assistant professor. The PI will be considered the leader and will be responsible for subsequent reporting requirements. Other non-tenure track faculty, post-doctoral researchers and PhD candidates may participate as co-principal investigators, but cannot lead proposals. Principal investigators and key personnel must have an active research project, demonstrate competency to implement and complete a project, provide fiscal accountability, prepare project reports on time, and demonstrate a willingness to share information with researchers and other interested parties. Investigators who are delinquent in submitting progress reports to internal or external sponsors, are not eligible to apply.

## Reporting Requirements

Annual reports and subsequent termination reports are required from all successful applicants and must be submitted through REEport via the USDA NIFA portal.

# Award Information

## Available Funding

The amount of funding available for the Animal Health and Disease Research Competitive Grants Program is estimated to be $40,000 annually (based on previous funding).

Proposal budgets must not exceed a total of $40,000 per year (October 1 through September 30) for up to two years and the amount requested must align with the nature of the proposed work. Funding will be allocated annually from USDA appropriations and must be expended the year they are allocated. Subsequent year funding is contingent on adequate federal appropriations. Budgets in excess of $40,000 per year can be submitted, but significant justification should be included in the budget justification to warrant a higher funding level.

# Application and Submission

## Submission Dates and Times

An electronic version of the proposal should be submitted via one unified pdf to Research and Graduate Education ([agresearch@psu.edu](mailto:agresearch@psu.edu)) **by 5 p.m. on Friday, July 3, 2020.**

## Content and Format of the Proposals

The full proposal (a single, compiled pdf file) must contain the following, in the following order:

1. **TITLE PAGE (1 page)**

Include a brief, clear, and specific title. The title, by itself, should give a good indication of the proposal topic. Also include all investigator(s) and their respective title and department.

1. **ABSTRACT SENTENCE AND EXECUTIVE SUMMARY (1 page)**

Provide an abstract sentence to succinctly describe the proposed work. Provide a brief description of the problem to be addressed, project objectives, expected deliverables and a description of the effort to be undertaken in terms that can be understood by a diverse audience including the general public, university personnel, stakeholders, non-experts, and various public and private organizations.

1. **FULL PROPOSAL NARRATIVE (5 pages maximum)**

All pages in the project narrative should be numbered, and should be single spaced, with at least one-inch margins. The **Proposal narrative section is not to exceed 5 pages.** Text of the proposal narrative should be prepared using Times Roman or similar type face and using a font no smaller than 12 pt. Proposals not conforming to this format will be returned without review.

1. **PREVIOUS WORK AND PRESENT OUTLOOK:** Provide a brief summary covering pertinent research on the problem, the status of current research and the additional information needed, and how this proposal is expected to contribute to this need.
2. **OUTCOME BASED OBJECTIVES**: Provide a complete, concise, clear, and logically arranged statements defining the specific outcome-based aims of the proposed efforts along with details of the anticipated accomplishments. In all proposals, the objectives should delineate both the proposed aims, projected outcomes, deliverables, and any results anticipated.
3. **APPROACH/PROCEDURES:** Describe *in detail* how each of the stated objectives will be reached. List the proposed treatments, include a clear description of your experimental design and experimental units, reference methods to be used, appropriate statistical analysis, and estimated length of time required for the analyses. For all proposals, describe how the project will be managed (for example, how coordination between partners will be achieved and maintained if applicable).
4. **TIMETABLE:** All proposals must include a timeline that demonstrates the step by step progression of the research effort proposed, with appropriate milestone dates. In addition, describe the significant anticipated accomplishments that will demonstrate reportable progress.
5. **LITERATURE CITED, a**s appropriate.
6. **BUDGET (1 page)**

A summary budget (up to 2 years) must be included in the proposal and should only include direct costs. Budgets do not need to be prepared by the College’s Grants and Contracts Office. Equipment (>$5,000), tuition, supplemental salary, international travel, and subcontracting to outside entities is not permitted on the proposals. The Principal Investigator and Co-Principal Investigator(s) will have 10% of their salaries paid as match to directly support these research efforts and do not need to be included in the submitted budget. Fringe benefits will be provided by the University and should not be included on the summary budget. All other project costs typically allowed by federal extramural research sponsors are allowed in this program.

Funding will be allocated annually (October 1 through September 30) from USDA appropriations and must be expended the year they are allocated. Subsequent year funding is contingent on expenditure of prior year funding and adequate federal appropriations.

Salary savings will not be returned to the academic unit, but will be reinvested into furthering efforts of College research programs.

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| **Description** | **Year 1** | **Year 2** | **Total** |
|  | 10/01/20 - 09/30/21 | 10/01/21 - 09/30/22 | 10/01/20 -09/30/22 |
| Materials and Supplies |  |  |  |
| Travel |  |  |  |
| Purchased Services |  |  |  |
| Other |  |  |  |
| **Estimated Total Direct Costs** |  |  |  |

1. **BUDGET JUSTIFICATION/ BUDGET NARRATIVE: (1-2 pages)**

Include a detailed budget justification. The budget justification is used to completely explain your expenses and easily understood by the reviewers and USDA. Please provide a justification (brief description and explanation of need) for the following budget sections:

* 1. Personnel
  2. Expendable supplies
  3. Travel
  4. Purchased Services
  5. Other (computer time, publications, etc.)

## When and Where to Submit Application

**Full Proposals are DUE by 5 pm Eastern, Friday, July 3, 2020.**

All materials listed above must be compiled into a single pdf file and emailed to Research and Graduate Education (agresearch@psu.edu).

## Contact Persons

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# Review Process and Criteria

## General Review Process Description

The proposal reviews will ensure that the projects recommended for funding are of sufficient quality to merit funding; the proposed projects meet that criteria as defined by USDA’s Animal Health and Disease Research Program. Final decisions for funding will be made by the Associate Dean for Research and are contingent on a USDA approved Animal Health AES project.

## Merit Reviews

Each proposal will be reviewed to determine the need, priority, and scientific feasibly of the proposed project. The reviews will assure that the proposals are scientifically sounds, relevant to society’s agricultural and food needs, not duplicative of efforts undertaken elsewhere, and have been evaluated in terms of national priorities.

The merit review process for Animal Health and Disease Research will accomplish the following:

* Ensure completeness of project proposal.
* Evaluate relevance of the proposed research.
* Evaluate quality and scientific value of the proposed research.
* Consider opportunities for cooperation with other individuals and/or units.
* Provide opportunity for the project leader to interact with reviewers and make adjustments as appropriate.
* Provide USDA NIFA with an indication, project by project, that the process was followed.

## USDA NIFA Review

To ensure compliance with the purposes of Subtitle E – Animal Health and Disease Research, USDA must review and approve proposals in REEport prior to expenditure of Animal Health funds. USDA will review project proposals for compliance with the provisions of the Animal Health Act. They will review project proposals for scientific and technical adequacy and will also review classification coding of projects as they are approved to insure accurate identification and recording of the proposed research efforts.

# Award Administration

## Administrative Program Management

The first-named investigator on the proposal will be considered the PI and will be responsible for subsequent reporting requirements. PIs and key personnel must demonstrate competency to implement and complete a project, provide fiscal accountability, prepare project reports and demonstrate a willingness to share information with researchers and other interested parties.

## Award Notice

Notification of award will come from Research and Graduate Education. Notification is expected to be made in late July 2020.

## Project Accountability Reporting Requirements

By the submission of an Animal Health and Disease Research Program Competitive Grant proposal and acceptance of funding, all investigators agree to:

1. ensure the quality of the project and expend all monies within the time frame specified in the award notice;
2. submit Project Initiation forms through REEport to establish a corresponding AES project for this proposal and complete and submit annual accomplishment and/or termination reports as required by USDA; and
3. acknowledge “USDA National Institute of Food and Agriculture, Animal Health and Disease Research Program” in published articles, manuscripts, dissertations, posters, presentations, inventions, patents, and press releases.