

2011 Request for Applications

HICAHS Pilot/Feasibility Research Projects

ATTENTION, Agricultural Organizations:
See separate RFA for HICAHS
[Community-Initiated Grant Program.](#)



Overview

In accordance with its mission, the [High Plains Intermountain Center for Agricultural Health and Safety \(HICAHS\)](#) offers funding to support projects in agricultural health and safety research. As one of several [Agricultural Health Centers](#) funded by the [National Institute for Occupational Safety and Health](#) (NIOSH), HICAHS has established a program to support feasibility projects. The goals of the HICAHS Pilot/Feasibility Project program are: (1) To develop new and creative research, prevention, intervention, outreach, education, evaluation or translation findings and outcomes related to agricultural and forestry safety and health at institutions in federal Region VIII (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming); (2) to foster the development of new, collaborative partnerships between HICAHS members, private industry, and regional State and Federal agencies with stakeholder interests in agricultural and forestry health and safety; (3) to build research capacity related to health and safety in agriculture and forestry in the HICAHS region.

Projects in this cycle will be funded at a level from \$5,000 to \$15,000 for a 1 year project duration (including indirect costs). Application success rates have averaged between 25 and 50% in past years. The requirements and criteria for pilot/feasibility projects are described below.

Pilot/Feasibility Research Projects

Pilot research funding enables investigators to establish preliminary success and experience in agricultural health research, meanwhile increasing the likelihood of future funding. We encourage applications from student investigators *or* any investigator who is new to the field of *agricultural and forestry health and safety research*. Specific eligibility requirements are listed below. Examples of past funded pilot/feasibility projects include (but are not limited to):

- Effects of herbicides on human reproductive health
- Musculoskeletal disorders in dairy parlor workers
- Exposures to fine particulate matter during animal feeding operations
- Evaluating the prevalence of drug-resistant bacteria in dairies
- Effects of human exposure to Gram-positive and Gram-negative bacteria in agricultural dusts on inflammatory and immune responses
- Interventions and education to promote machine safety during grain handling
- Effects of mountain bark beetle infestations on the safety of forestry workers

However, any areas of research related to agricultural and forestry health and safety will be considered.

This application may also be found at www.hicaahs.colostate.edu/documents/HICAHS_Pilot_Projects_RFA_2011.pdf

Applicant Eligibility

Eligible pilot research project investigators are:

- Junior investigators with research interests in agricultural health and safety;
- Graduate research trainees, occupational medicine residents, or postdoctoral fellows;
- Faculty members of any rank who are interested in the field of agricultural health and safety;
- Staff from health departments/state agencies and non-academic public health institutions who wish to conduct research in the field of agricultural health and safety.

Investigators from minority and underrepresented populations are strongly encouraged to apply.

Evaluation Criteria

Review committee members will provide an overall impact/priority score to reflect their assessment of the likelihood for the project to exert a sustained, powerful influence on the research field(s) involved, in consideration of the following review criteria:

1. *Significance:*
 - Does the research address an important problem in the HICAHS region in agricultural health and safety? See NIOSH's [National Occupational Research Agenda for Agriculture, Forestry, and Fishing](#) for details and guidance
 - Does the research address an important problem or critical barrier to progress in the field of Agricultural Health and Safety research?
 - Does the research address an important problem in the HICAHS region in occupational and environmental safety and health? See <http://www.hicaHS.colostate.edu/ourmission.html>
 - If the aims are achieved, how will scientific knowledge, technical capability and/or clinical practice be advanced?
 - How will successful completion of the aims change the concepts, methods, technologies, treatments, services or preventive interventions that drive this field?
2. *Innovation:*
 - Does the application challenge and/or seek to shift current research or clinical practice paradigms?
 - Does the research project involve novel concepts, approaches, methods, instrumentation or interventions?
 - Are the concepts, approaches, methods, instrumentation and/or interventions novel to Agricultural Health and Safety or novel in a broad sense?
 - Does the application refine or improve existing theoretical concepts, approaches, methods, instrumentation or interventions?
3. *Approach:*
 - Are the overall strategy, conceptual framework, design (including composition of study population), methods, and analyses adequately developed, well-integrated, well-reasoned and appropriate to the aims of the project?
 - Does the applicant acknowledge potential problem areas and consider alternative tactics?
4. *Collaboration and Partnerships:*
 - Does the study involve multiple stakeholders (employees, employers, and academia)?
 - Is there interdisciplinary interaction or potential?
 - Does the proposal include graduate students or others who will benefit from training in research methods in agricultural health safety?

5. *Investigator(s):*

- Are the PIs, collaborators, and other researchers well-suited to the project?
- If early-stage or new investigators, do they have appropriate experience and training? Do they have suitable mentors?
- If established investigators, are they new to the field of Agricultural Health and Safety research?
- If the project is collaborative or multi-PD/PI, do the investigators have complementary and integrated expertise; are their leadership approach, governance and organizational structure appropriate for the project?

6. *Environment:*

- Does the environment in which the work will be performed contribute to the probability of success?
- Are the institutional support, equipment, and other physical resources available to the investigators adequate for the project proposed?
- Can the project be accomplished in the timeline presented?
- Will the project benefit from unique features of the scientific environment, subject populations or collaborative arrangements?
- Does the proposed project increase the institution's ability to conduct Agricultural Health and Safety research and contribute to regional needs?

7. *Additional Criteria:*

- Does the research project have the potential of obtaining pilot data that may increase the probability of developing fundable larger grants or contracts in the future?
- Will the research benefit under-served populations or members of minority groups?
- Is the budget appropriate to complete the scope of the work proposed?
- Does the proposal contain adequate protections for human subjects or vertebrate animals (if necessary)?
- Does the proposal contain adequate biohazard, radioactive hazard, or physical/chemical hazard protections for the researchers?

Application Instructions

Disqualifiers

In addition to assessing the strengths and weaknesses of applications according to the criteria listed above, the Review Committee reserves the right to **withdraw** an application from consideration if:

- The application is incomplete
- The application is submitted after the deadline
- The applicant does not follow the application instructions outlined below
- The project aims and objectives do not relate to the mission and goals of the HICAHS
- The application refers to participating organizations or collaborators that have not submitted letters of support for the application

Important Application Dates

The application deadline is **November 15th, 2011**. Projects may begin as soon as January 1, 2012 and must end by September 14, 2012. ***No funds will be disbursed without proof of Human Subjects (or Animal Care) Institutional Review Board approval (if applicable).***

Application Instructions

Please use PHS398 forms (Revised 6/2009), which can be found at:

<http://grants.nih.gov/grants/funding/phs398/phs398.html>.

- (1) Face Page (PHS398 Form Page 1)
- (2) Abstract (PHS398 Form Page 2)
- (3) Detailed Budget and Budget Justification including travel to Fort Collins, Colorado to present at a HICAHS seminar (PHS398 Form Pages 4 and 5)
- (4) A short biographical sketch (NIH format) for each person involved in the research (4 pages maximum for each biosketch)
- (5) Specific Aims and Objectives Page (**1 page limit**)
- (6) Research Plan (**5 page limit for items a through f**)
 - (a) *Significance* of the research
 - (b) *Innovation* and novelty
 - (c) *Approach*, including, but not limited to:
 - (i) Population, process, or phenomenon to be studied
 - (ii) Methods of data collection
 - (iii) Methods of data analysis
 - (iv) Evaluation methods and plan (as applicable to education, outreach, interventions)
 - (v) Quality assurance measures
 - (d) Expected implications of research findings or feasibility project
 - (e) Future directions (i.e., long-term goals, plan for additional funding, etc.)
 - (f) Timeline for proposed research
- (7) References (not included in the page limit)
- (8) (If necessary) IRB approval or copy of submitted application and NIH Certification. Projects involving human subjects are required to obtain IRB approval. Alternatively, a copy of animal care committee approval is required if animal research is being proposed.
- (9) Letter of Support from a mentor or faculty sponsor is required for all students. This letter should indicate the student investigator's ability to complete the proposed study in the timeline given, the student investigator's potential as a researcher and the potential for future funding. Any co-investigators/collaborators must provide a letter(s) of support which should indicate their agreement to collaborate and what will be their role(s) in the project.
- (10) Other Letters of Support: applications requiring extensive data analysis should either include a statistician co-investigator on their research team or the applicant should provide a letter of support from someone qualified to conduct or give guidance on the proposed analysis.
- (11) Letters of support from collaborators, if applicable.

Successful applications are those that address the review criteria specified under the Evaluation Criteria section above. Examples of previously funded applications are available upon request. Applications must conform to page limits referenced in the Application Instructions. Please use 11 point or larger font. Page margins must be no less than 0.5" on any side.

Submission Process

Submit your application electronically (Word or PDF) to: Allison.DeVries@Colostate.edu on or before **November 15, 2011**.

Review Committee

Complete applications will be evaluated by a review panel. Meritorious applications will be assigned a priority score based on the applicable criteria (see evaluation criteria above).

Awards

- 1) Pilot project funds are rewarded on a competitive basis.
- 2) The budget period covers a nine-month period (1/1/12-09/14/12).
- 3) The maximum award is \$15,000 for one year including indirect costs.
- 4) Applicants cannot receive more than a cumulative total of 2 pilot research awards as a Project Investigator.
- 5) Carryover is not allowed.
- 6) **Allowable expenses** include all relevant project expenses including:
 - Support personnel including salary (limited to 5% of a 12 month equivalent salary plus fringe benefits for faculty) and tuition support for graduate students.
 - Supplies and small specialized equipment.
 - Domestic travel necessary to conduct the research and to scientific meetings to present results.
 - Indirect costs up to 8%.
 - Equipment purchased for the project becomes the property of the university sponsoring the principal investigator.
- 7) **Disallowed expenses**
 - Indirect cost >8%, faculty mentor salary >5% of a 12-month equivalent salary plus fringe benefits).
 - Technical conference travel.
 - Routine clerical assistance.

Awards will be announced in January, 2012.

Final Written Report and Progress Reports

- 1) Each investigator will receive instructions from Allison De Vries on how to submit program evaluation data to HICAHS. This data can be submitted as frequently as pilot activities occur, but it is recommended that it be submitted at least every quarter. A sample activity form used to gather evaluation data is available here: www.hicahs.colostate.edu/Documents/ActivityFormSample.pdf
These short activity forms will help you prepare the final report.
- 2) A brief (1-2 page) written interim report is due 6 months following the project start date. This report should indicate the progress of the study including preliminary results and any problems encountered.
- 3) A final written report must be submitted 3 months after the end of the proposed budget period, with results preferably presented in manuscript form or in the form of a brief white paper with executive summary. This report should also document all presentations, publications and extramural funds that have resulted, in part, directly or indirectly from this award.
- 4) The investigator must acknowledge support from the NIOSH High Plains Intermountain Center for Agricultural Health and Safety in all publications and presentations resulting from the award. Use of the HICAHS logo is encouraged: www.hicahs.colostate.edu/Documents/HICAHS_LOGO_large.jpg

Research Seminar Presentation

Investigators will be required to present their project at a HICAHS seminar, details to be determined. For more information contact: Allison.DeVries@Colostate.edu.