



COLLEGE OF AGRICULTURAL AND
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AGRICULTURAL EXPERIMENT STATION
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WESTERN INTEGRATED PEST MANAGEMENT CENTER
DEPARTMENT OF ENVIRONMENTAL TOXICOLOGY
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<http://www.wripmc.org>

Dear Applicants,

The Western IPM Center is pleased to release a Request for Applications (RFA) for “Western IPM Center 2010 Competitive Grant Programs.” Programs available in this RFA include: **Addressing Western IPM Issues** (includes Outreach and Research projects); **IPM Work Groups; Outreach and/or Publications** (*new opportunity*); and **Surveys/Crop Profiles** (*new opportunity*). Applications are due on Friday, September 4, 2009. This RFA may be accessed at www.wripmc.org.

Please note that research priorities have been expanded this year.

Proposals must be submitted electronically, and all components must be in portable document format (PDF). Applicants will have to register at <http://www.wripmc.org/PMCProjects/PIAccess/index.cfm> prior to submitting a proposal. The registration process is simple and should only take a minute.

Follow all directions on what to submit, format, length restrictions, due date, and other requirements.

If you encounter any problems or have questions regarding this process or the RFAs, please contact Linda Herbst at (530) 752-7010 or llherbst@ucdavis.edu.

Good luck with your submissions.

Rick Melnicoe
Director, Western IPM Center



*Fostering responsible pest management
for a sustainable future.*

Western Integrated Pest Management Center

2010 Request for Applications

Application Deadline: Friday, September 4, 2009

I. SUMMARY

The goal of the Western Integrated Pest Management Center (WIPMC) is to increase the economic benefits of adopting IPM practices and reduce the environmental and human health risks associated with managing pests. This goal was established by the National Roadmap for IPM. The WIPMC addresses this goal through competitive grants and other programs and projects. WIPMC programs address pest management needs for production agriculture, natural resources and recreational environments, and residential and public areas.

We encourage projects that extend integrated pest management (IPM) information to audiences who will use this knowledge to decrease the risks associated with pest management. New IPM methods may be developed under this program, but funds for this purpose are limited.

Available funds. The Center has approximately \$360,000 available to fund proposals submitted that identify IPM priorities, extend IPM information, or develop IPM methods. Proposals are limited to the following states and territories: Alaska, Arizona, California, Colorado, Hawaii, Idaho, Montana, Nevada, New Mexico, Oregon, Utah, Washington, Wyoming, American Samoa, the Federated States of Micronesia, Guam, and the Northern Mariana Islands.

Who may apply. Public and private institutions or organizations, businesses, commodity groups, and private individuals are eligible for these funds. The primary project director (PD) for a WIPMC project grant must reside in the western region, but co-PDs may be from outside the region.

Proposal submission. All proposals will be submitted through a secure online system in PDF at <http://www.wripmc.org/PMCProjects/ListRFAs.cfm>. The online proposal submission must be received by the WIPMC by **5:00 p.m. on Friday, September 4, 2009**.

II. GENERAL INFORMATION

The WIPMC is supported by the U. S. Department of Agriculture's National Institute of Food and Agriculture (NIFA), formerly CSREES. The WIPMC is a focal point for regional IPM team-building efforts, communication, and stakeholder participation, and the WIPMC helps people and institutions to set priorities for IPM research, extension, and education.

NIFA must award funds for this competitive grants program to the University of California prior to sub-contract approval. In the unlikely event that funding is not transferred to the University of California, sub-contracts will not be awarded. Proposals may request funding for up to two years (January 1, 2010–December 31, 2011). **The second year of funding is dependent on continued USDA allocations for the WIPMC.**

III. MULTI-STATE/TERRITORY INVOLVEMENT

A goal of the WIPMC grants program is to encourage collaborations among states/territories for purposes of efficiency, economy, and synergy. To fulfill this goal, applications must project benefits to more than one state/territory. Projects involving multi-state/territory collaboration are preferred, but those undertaken by PDs in a single state/territory that will benefit other states in the region are also encouraged. Applicants must address multi-state/territory relevancy in their proposals. **Project types A (Addressing Western IPM Issues) and B (IPM Work Groups) must be multi-state.**

IV. TYPES OF PROJECTS

The types of projects that may be funded through the WIPMC grants program are: (A) Addressing Western IPM Issues; (B) IPM Work Groups; (C) Outreach and/or Publications; (D) Surveys/Crop Profiles.

A. Addressing Western IPM Issues – *Must be multi-state and address one or more of the stakeholder identified priorities listed below (a-k below).*

1. Outreach (Extension) and Implementation Projects

This funding category enhances outreach efforts that support the wide-scale implementation of IPM methods. Projects should be designed to maximize opportunities to build strategic alliances with industry and user groups resulting in increased adoption of IPM methods. This project type may be funded for up to two years at no more than \$50,000 per project.

2. Research Projects

This funding category develops the research base needed for the construction of comprehensive pest management systems that have a strong likelihood of contributing to ongoing IPM implementation efforts. Research may be proposed to develop individual tactics needed for pest management systems (e.g., biocontrol, cultural control, host resistance, particularly novel uses of chemicals, monitoring

methods, or decision support) or to increase the understanding of how interactions among tactics alter the effectiveness of pest management systems tactics within agricultural, recreational, suburban, and urban ecosystems. The experimental approach should emphasize field-scale experiments. Long-term fundamental research is not appropriate for funding in this category. Novel, cutting-edge methods, for which data exist to support the likelihood of successful pest management and adoption, are encouraged. Research involving chemical pesticides should be designed to reduce the amount applied and frequency of applications and to increase the selectivity of a pesticide. Applications should clearly demonstrate how the tactic or IPM system, once developed, can be incorporated into an existing management system. Projects funded in this category should demonstrate economic, social, and environmental benefits of IPM strategies and identify constraints to greater adoption of IPM systems by users. This project type may be funded for up to two years at no more than \$70,000 per project.

- (a) Development and implementation of IPM practices;
- (b) Implementation of models in pest management;
- (c) Research on the biology and ecology of invasive species (could include developing prevention, management, and rapid response programs);
- (d) Outreach and demonstration activities specific to IPM implementation;
- (e) Documentation of cost and benefits of implementation of IPM practices;
- (f) Development of IPM tactics for protection of endangered species;
- (g) Research and outreach on integrating new reduced risk tactics in IPM programs;
- (h) Research on how to make biopesticides more efficacious;
- (i) Community IPM (urban pest management) and environmental quality issues;
- (j) Measure the impact (human health, environmental, economic) of IPM adoption; or
- (k) Determine specific impacts of newer classes of pesticides on the beneficial species present in a cropping system.

3. Stakeholder Involvement

The WIPMC is committed to addressing the pest management needs expressed by stakeholders. All Addressing Western IPM Issues proposals **must** include explicit citations that document the stakeholder-identified needs addressed by the proposed project. Sources of stakeholder-identified needs include, but are not limited to:

- (a) Needs identified in Pest Management Strategic Plans (available online at <http://www.ipmcenters.org/pmsp/index.cfm>);

- (b) Recommendations or reports from program advisory committees;
- (c) Recommendations from stakeholder groups;
- (d) Needs and issues from Western Sustainable Agriculture Research and Extension (WSARE) sub-regional conferences (<http://wsare.usu.edu/conf/>); and
- (e) Other documented needs assessment evaluations.

Explicitly citing such sources is valuable in establishing both the importance of the project and that the Project Directors (PDs) and the grants program are engaged within the stakeholder community.

General letters of support that do not indicate the nature of the relationship of the stakeholders to the project DO NOT fulfill the requirement for demonstrating stakeholder involvement.

4. Logic Model

All “Addressing IPM Issues” proposals must include a logic model (see <http://www.ipm.gov/LogicModels/index.cfm> for samples of IPM logic models and this site also includes a template.

B. IPM Work Groups (IWGs) – *Must be multi-state*

We expect to fund IPM Work Groups for up to \$10,000 each per year, depending on the objectives presented in the proposal. While we anticipate that most IWG projects will be completed in one year, two-year projects may be approved with adequate justification.

IWGs must be multi-state work groups to address information, resource, and research needs in region-wide or broad-area categories, including minor crops, major crops, non-crop areas, IPM metrics and/or impact assessments, Community IPM (urban), cropping systems, geographical, school IPM, and other issues. These work groups must enhance communication and collaborations within the region for the IPM topic area addressed by the work group. A work group could also coordinate efforts to develop proposals for funding to address critical issues within the West.

Examples of work group topics include the following:

- Identification of western region research and extension priorities that include stakeholder input. These priorities must clearly demonstrate needs in agricultural, natural, or community (urban) settings.
- Developing proposals to address western region priorities for submission to funding entities.
- Identification of IPM resource and information needs.

C. Outreach and/or Publications – *Are not required to be multi-state projects*

The WIPMC supports outreach activities and the development and printing of IPM publications. These projects should encourage the adoption of IPM practices in agricultural, community (urban), or natural settings. These projects can be funded up to \$20,000 each, dependent on the complexity of the task and the number of states involved. Single-state projects typically will not be funded for more than \$10,000.

D. Surveys/Crop Profiles – *Are not required to be multi-state projects*

The WIPMC supports:

Tactics surveys. These are typically sent to growers or other audiences to gather information about the pest management methods being used in a region on a particular crop or in a particular setting. Clearly identify how this survey will address WIPMC goals (see I. Summary). Expected range for funding is \$5,000–20,000, depending on complexity.

Crop Profiles. These documents identify the current status of the methods used to manage pests in a given crop. They gained their importance in the 1990s when the U.S. Environmental Protection Agency (EPA) began reassessing tolerances for organophosphates, carbamates, and possible carcinogens. Crop profiles catalog production information, insect pests, diseases, weeds, and the methods used to manage these. Successful crop profile applicants will be guided by the information found at <http://www.ipmcenters.org/cropprofiles/index.cfm>. You may propose to revise an outdated document or to develop a new one. Documents are not considered complete until they are approved by the WIPMC leadership and are included in the National IPM Centers' database. These projects will be funded from \$1,000–4,000 per crop.

EVALUATION AND SELECTION CRITERIA – ([A.] *Addressing Western IPM Issues Proposals*)

All proposals received will be acknowledged. A panel composed of non-western region reviewers will be convened in December to review all the proposals. You should not assume that reviewers are familiar with your program, abilities, and past accomplishments. Therefore, you must thoroughly address each required element (see Section VII, Application and Submission Information) and thoroughly detail how each element will be completed.

The criteria used for Technical Review to evaluate research projects and outreach and implementation projects are:

Criteria	Possible Points
Proposal Preparation <ul style="list-style-type: none"> • All components are included and the proposal is properly submitted. • Information is presented clearly and adheres to the format described in this RFA. 	10
Appropriate objectives, design, and methodology The following will be considered in establishing the overall scientific value of the project: <ul style="list-style-type: none"> • Will the planned research make a significant contribution to new knowledge or provide a better understanding of existing knowledge? • Is the problem clearly presented and literature review adequate? • Do the objectives address the problem presented? • What is the probability of success? • Does the project, as proposed, duplicate ongoing projects at other institutions? 	25
<ul style="list-style-type: none"> • Are the methods appropriate and sufficient to accomplish the stated objectives? • Can the objectives be accomplished in the stated time frame? 	15
<ul style="list-style-type: none"> • Degree of interdisciplinary collaboration, including collaboration among research, Extension, private consultants, industry, and the user community. • The feasibility of increasing IPM implementation as a result of the project. 	10
Evaluation and Implementation Plans <u>Research Projects:</u> <ul style="list-style-type: none"> • Implementation plan: Detail how the research may be applied in the field. --or-- <u>Outreach and Implementation Projects:</u> Implementation plan: <ul style="list-style-type: none"> • Detail how you are going to apply the research in the field. Evaluation plan: <ul style="list-style-type: none"> • Include an appropriate strategy/process to evaluate the success of the project. Success is evaluated in terms of outputs, impacts, and potential impacts. Outputs might include publications, information, data, meetings held, attendance at meetings held, etc. Impacts are specific changes in condition for those affected by your work. Potential impacts are the ways that your project's outputs could directly lead to changes in condition that will unfold in the future. 	20
Professional competence of the project team and past performance.	10
Appropriate budget	10
Total possible points for Technical Review:	100

EVALUATION AND SELECTION CRITERIA – (IPM Work Groups, Outreach/Publications, and Survey/Crop Profile Proposals)

Criteria	Possible Points
<p>Proposal Preparation All components are included and the proposal is properly submitted. Information is presented clearly and adheres to the format described in this RFA.</p>	10
<p>Objectives and Anticipated Impacts The proposal is innovative and furthers the mission of the WIPMC. Specifically, the objectives will:</p> <ul style="list-style-type: none"> • establish IPM priorities; OR • develop multidisciplinary IPM methods that minimize pesticide risk; OR • help people to adopt IPM 	25
<p>Objectives tie directly to the goals of the appropriate project category, as follows:</p> <p><i>B. IPM Work Groups:</i></p> <ul style="list-style-type: none"> • The proposed activity or issue is either new or expands significantly on a previous effort. • The composition of the work group adheres to the guidelines in the RFA (e.g., members are from as many states in the region as possible). <p><i>C. Outreach and/or Publications:</i> The project will fill important existing gaps.</p> <ul style="list-style-type: none"> • A distribution plan for publication projects is clearly articulated. • Outreach projects clearly identify the audience that will be targeted by their efforts. <p><i>D. Surveys/Crop Profiles:</i></p> <ul style="list-style-type: none"> • The importance of the setting or crop to the region is explained. • The priority for a new or revised document is demonstrated. • The planning process and involvement of stakeholders in identifying the necessity for and prioritization of crop profiles is detailed. 	25
<p>Evaluation plan: Include an appropriate strategy/process to evaluate the success of the project. The evaluation plan will effectively indicate when the anticipated impacts have occurred in the target audience—that is, when the project has succeeded. Success is evaluated in terms of <i>outputs</i>, <i>impacts</i>, and <i>potential impacts</i>. <i>Outputs</i> might include publications, information, data, meetings held, attendance at meetings held, etc. <i>Impacts</i> are specific changes in condition for those affected by your work. <i>Potential impacts</i> are the ways that your project’s outputs could directly lead to changes in condition that will unfold in the future.</p>	20

Criteria Continued	Possible Points
Professional competence of the project team The CV(s) indicate that the PD and team have the expertise needed to carry out the project.	10
Appropriate budget <ul style="list-style-type: none"> • The budget is well-defined, reasonable for the proposed project, and within the project funding limits described in this RFA. • It follows guidelines described in the RFA and on the USDA-CSREES form. • The budget narrative follows the order of the budget form and fully explains any assumptions in the budget. • Combined proposals have separate budgets and budget narratives for each project type. 	10
TOTAL POINTS	100

MATCHING FUNDS

While PDs are encouraged to seek matching funds, there are no cost-sharing or matching requirements associated with the WIPMC grants program. Matching resources will not be factored into the review process as an evaluation criterion.

APPLICATION AND SUBMISSION INFORMATION

Proposals must be submitted in the following format. This RFA and all forms required can be obtained at <http://www.wripmc.org/PMCProjects/ListRFAs.cfm>. All applicants **must** use the forms provided on the WIPMC Web page. Proposals must be submitted in electronic format.

Application must include:

TITLE. Should be brief, clear, and specific. The title is limited to 100 characters (letters, punctuation, and spaces between words).

2009 WIPMC APPLICATION FORM. This form must be signed by the authorized representative of the submitting organization and submitted as a PDF.

SUMMARY (Project Summary form). Must be a clear summary of the project, its objectives, and procedures for accomplishing the objectives. Include a brief statement of how the proposed project meets WIPMC priorities (see Section II). This should not exceed 1,000 characters (letters, punctuation, and spaces between words).

LENGTH. Proposals must not exceed ten (10) pages in length, excluding Title and Summary page, Literature Cited, CVs, budgets and budget narratives, and other attachments. Proposals must be typed in a 12 point or larger font, single-spaced or double-spaced, with 1-inch vertical and horizontal margins.

PROJECT NARRATIVE (Project Narrative form). This section should include only the topics below. Other forms and sections contain additional information. This is the section that is subject to the ten (10) page limit.

Previous Work, Related Experience, and Justification

Provide a brief summary discussing pertinent experience, the status of current work, additional information needed, and how this project is expected to contribute to this need. The nature of the project and its objectives will determine the ease of predicting success, but where feasible, it is appropriate to indicate the likelihood of achieving the objectives in a specified length of time.

Objectives

There should be a concise, complete, logically arranged and numbered series of statements defining the objectives of the project. Project Directors should group objectives in a way that seems most logical for the proposed project.

Procedures

A numbered procedure statement should correspond with each numbered objective. These statements should outline the essential working plans and methods that will be employed in attaining each objective. The procedure statement should show that the proposed work has the potential to provide data and information that will accomplish the objectives.

Outputs, Impacts, and Potential Impacts

Identify the project's expected outputs, impacts, and potential impacts and how they relate to the goals of the WIPMC as stated in this RFA. *Outputs* might include publications, information, data, meetings held, attendance at meetings held, etc. *Impacts* are specific changes in condition for those affected by your work. Impacts include adoption of technology, creation of jobs, reduced cost to the consumer, less pesticide exposure to farmers, access to more nutritious food, and a cleaner environment and healthier communities. *Potential impacts* are the ways that your project's outputs could directly lead to changes in condition that will unfold in the future.

Evaluation Plans

A discussion of plans to evaluate progress must be included. A timeline showing expected progress and expected outputs, impacts, and potential impacts (see previous paragraph) would be helpful and could be used as a part of a future progress report to demonstrate satisfactory progress.

Probable Duration

The planned duration of proposed projects can be one or two years.

Cooperation of Key Personnel and Institutional Units Involved

Identify key personnel and each institutional unit contributing to the project. In multiple-institutional proposals, each institution should be identified and the lead institution designated. Applicants should clearly define the roles and responsibilities of each person and institutional unit of the project team, if applicable.

If the project includes consulting, collaborative, or sub-contractual arrangements, such arrangements should be fully explained and justified in the budget narrative and budget. In addition, evidence should be provided here that the collaborators involved have agreed to render these services. Acceptable documentation for this purpose includes letters of intent or statements of work from the individual or organization. Copies of either letters or email messages from the collaborators will suffice for this purpose.

LITERATURE CITED (Literature Cited form). Only those publications cited should be listed in this section. Fifteen (15) literature citations should be the maximum for most projects. To provide uniformity, the following format should be used: Author(s). Title. Journal. Volume: Pages. Year.

ADDITIONAL FORMS

Curriculum vitae (CV forms). Project Directors, co-Project Directors, and any collaborators who will receive a portion of the budget must provide current vitae (three pages maximum) including a listing of the most relevant publications during the last 5 years.

Budget (Budget form). If requesting funding for two years, a budget form must be provided for each year as well as a combined budget form. A brief budget justification statement (Budget Narrative form) is required and must provide details for each line item in the budget. Indirect costs of up to 22% of the total cost of the project can be supported by these funds. Additional details on budget issues are available, upon request, from the WIPMC office.

Current and Pending Support (Current and Pending Support form). A completed Current and Pending Support form must be included for each Project Director and co-Project Director.

Conflict of Interest (Conflict of Interest form). A completed Conflict of Interest form must be included for each Project Director and co-Project Director.

National Environmental Policy Act Exclusion (National Environmental Policy Act Exclusions form [CSREES-2005])

USDA-CSREES Assurance Statements (USDA-CSREES Assurance form [CSREES-2007]) is required.

ADDITIONAL APPENDICES (e.g., letters of support). All appendices must be in electronic form. Because of computer virus concerns, all appendices must be combined in a single PDF document. Please be aware that reviewers are under no obligation to read appendices, and they should be used only to provide documentation of statements presented in the main proposal.

SIGNATURES. The 2009 WIPMC Application Form of each proposal must be signed by the appropriate university/corporate officer and faxed (530-754-8379) to the WIPMC office by 5:00 p.m. Pacific time on **Friday, September 4, 2009.**

PROGRESS REPORT. Successful applicants of two-year projects must submit a progress report to the WIPMC by December 31, 2010. The progress report should follow the WIPMC report guidelines found at http://www.wripmc.org/CenterProjects/IPM%20Issues_rept_guide.pdf.

FINAL REPORT. A final report must be submitted to the WIPMC no later than 60 days after the expiration of the project. The final report should follow the WIPMC report guidelines found at http://www.wripmc.org/CenterProjects/IPM%20Issues_rept_guide.pdf.

SUBMISSION OF PROPOSALS. All required materials for each proposal must be submitted online in PDF at <http://www.wripmc.org/PMCPProjects/ListRFAs.cfm> by 5:00 p.m. Pacific time on **Friday, September 4, 2009.** Facsimile and email copies are not acceptable.

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