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WESTERN INTEGRATED PEST MANAGEMENT CENTER  
DEPARTMENT OF ENVIRONMENTAL TOXICOLOGY  
ONE SHIELDS AVENUE  
DAVIS, CALIFORNIA 95616-8588  
<http://www.wripmc.org>

Dear Applicants,

The Western IPM Center is pleased to release two Requests for Applications (RFAs): “Regional IPM Competitive Grants Program” and “Addressing Western IPM Issues.” Applications for both programs are due on December 11, 2006. These RFAs may be accessed at [www.wripmc.org](http://www.wripmc.org).

The “Regional IPM Competitive Grants Program” is managed by the Western Region IPM Center (but administered by USDA-CSREES) and is open to applicants at Land Grant institutions in the west. The “Addressing Western IPM Issues” program is administered by the Western Region IPM Center and is open to all applicants.

The simultaneous release of these RFAs enables applicants to apply to either or both programs with less hassle. The application formatting and information to be submitted is as close as possible for the two RFAs. The delay in release of the “Addressing Western IPM Issues” RFA has allowed for increased available money, as we now have a clearer idea of remaining funds in the current grant. Applicants should be aware of an important change: The “Regional IPM Competitive Grants Program” applications must now be submitted via Grants.gov (<http://www.grants.gov>). Most Federal grants are making the switch to Grants.gov. Well before applying, confirm with your institution that they have an account and are ready to submit via this mechanism. “Addressing Western IPM Issues” applications are not submitted to Grants.gov. They are submitted directly to the Western IPM Center office in Davis, CA.

The two sets of proposals will be independently reviewed by a technical review panel. The “Regional IPM Competitive Grants Program” proposals are required to include a separate relevancy statement. A relevancy statement is not required for the “Addressing Western IPM Issues” program.

For both RFAs, follow all directions on what to submit, on format, length restrictions, due dates, and other requirements. We have not accepted several applications during the past few years because relevancy and conflict of interest statements and other required components were lacking. These mistakes are avoidable by simply double checking the requirements.

Releasing the two RFAs simultaneously is a test to see how well this serves the needs of our clientele. We welcome feedback on the process and timing.

Good luck with your submissions.

Rick Melnicoe  
Director, Western IPM Center



**Western Integrated Pest Management Center  
Request for Applications - 2006  
Addressing Western IPM Issues  
Application Deadline: December 11, 2006**

## **PART 1—FUNDING OPPORTUNITY DESCRIPTION**

The Western Integrated Pest Management Center (WIPMC) works with stakeholders to create collaborative relationships that identify and address critical pest management needs that are responsive to economic, environmental, and human health and safety concerns. In order to meet this goal, the WIPMC releases an annual Request for Applications to address IPM issues.

### **1. WIPMC Goals**

The WIPMC will support and promote projects that:

- improve economic benefits related to the adoption of IPM practices,
- reduce potential human health risks from pests and the use of IPM practices,
- minimize adverse environmental effects from pests and the use of IPM practices, and
- evaluate IPM adoption

### **Project Priority Areas: (Projects must address one or more of these priorities.)**

- (a) Development and implementation of IPM practices;
- (b) Development and 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) Evaluation of cost and benefits of implementation of IPM practices;
- (f) Outreach on endangered species protection;
- (g) Research and outreach on integrating new reduced risk tactics in IPM programs;
- (h) Research on how to make biopesticides more effective;
- (i) Urban pest management and environmental quality issues; or
- (j) Projects that evaluate IPM adoption.

### **2. Stakeholder Involvement**

The Western IPM Center is committed to addressing the pest management needs expressed by diverse stakeholders. Applications 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; and
- (d) 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.**

### **3. 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 (see Part III, A., Eligible Applicants). Applicants must address multi-state/territory relevancy in their proposals.

## **PART II—AWARD INFORMATION**

### **A. Available Funding**

Approximately \$300,000 is available for this competitive program. Of this amount, approximately \$150,000 is expected to be available for outreach and implementation and \$150,000 for research. The Project Review Panel reserves the right to recommend shifting funds between project types in order to fund the highest priority and best quality projects.

### **B. Project Types**

The WIPMC solicits applications for the following types of projects in FY 2007. Applicants must indicate the type of project they are proposing. The duration of a project can be no more than 18 months (January 1, 2007–July 31, 2008). The current prime award to the WIPMC has a final end-date of September, 2008; therefore the length of a competitive grant funded from this RFA is limited to 18 months.

#### **1. Outreach (Extension) and Implementation Projects**

Outreach and implementation project applications may be submitted for a duration of up to 18 months (January 1, 2007–July 31, 2008), with a maximum total project budget of \$60,000.

This funding category enhances outreach efforts that support the wide-scale implementation of IPM methods and that maximize opportunities to build strategic alliances with industry and user groups to expand their active participation in increasing the adoption of IPM methods. This category also includes evaluation and assessment projects relevant to IPM adoption.

#### **2. Research Projects**

Research project applications may be submitted for a duration of up to 18 months (January 1, 2007–July 31, 2008), with a maximum total project budget of \$60,000.

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. Practices should be designed to reduce initial pest populations, lower the carrying capacity of the ecosystem for pests, increase tolerance of hosts to pest injury, and/or provide tools for making management decisions such as monitoring methods and action thresholds. Long-term fundamental research is not appropriate for funding in this category. Novel, cutting-edge methods, for which there exist data 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. The project should be designed to minimize adverse impacts on beneficial organisms and to limit buildup of pest populations that are resistant to pesticides. 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.

### **PART III—ELIGIBILITY INFORMATION**

#### **A. Eligible Applicants**

Geographically, the WIPMC covers the following states and territories: Alaska, Arizona, California, Colorado, Hawaii, Idaho, Montana, Nevada, New Mexico, Oregon, Utah, Washington, Wyoming, American Samoa, Federated States of Micronesia, Guam and Northern Marianas. Applications from private individuals and institutions, businesses, commodity organizations, and governmental and nongovernmental organizations are invited. The Project Director must be from within the Western Region; however, collaboration with individuals outside the region is encouraged.

Project Directors are strongly encouraged to collaborate with institutions or groups in other states; with other colleges and universities; with representatives of private and nongovernmental agencies, including, but not limited to, grower and commodity organizations, environmental groups, and consumer groups; with other federal and state agencies; and with other stakeholders appropriate to the needs of the project. In such cases, one proposal and budget should be submitted, and the proposal should clearly identify the plans for coordinating the project during the implementation phase.

#### **B. Cost Sharing or Matching**

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. However, if matching funds are available to the project, they should be described in the budget narrative.

### **PART IV—APPLICATION AND SUBMISSION INFORMATION**

Each proposal must conform to the format described below. Please read this section carefully and adhere to format and page length requirements. Incomplete applications, applications exceeding page limitations, or applications received after the deadline will not be considered for funding and will be returned to the applicant.

## **A. Content and Form of Application Submission**

### **1. General**

- (a) Proposals must be typed in a 12 point (10 cpi) or larger font using 8½ by 11 inch paper, single-sided and single-spaced or double-spaced with one-inch vertical and horizontal margins.
- (b) Number each page of the application sequentially, starting with the Project Description, including the budget pages, required forms, and any appendices.
- (c) An original and **four (4) copies, as well as one electronic version** (Word for Windows or RTF) on CD or diskette must be submitted in one package.
- (d) The components of the application should be assembled in the following order:
  - (1) Application Cover Page (Form CSREES-2002). All required forms are available at the WIPMC web site: <http://www.wripmc.org/Research/index.html>.
  - (2) Table of Contents
  - (3) Project Summary (Form CSREES-2003). This should not exceed 1,000 spaces (letters, punctuation, and spaces between words).
  - (4) Project Description (maximum of 10 pages)
  - (5) References
  - (6) Appendices to Project Description
  - (7) Key Personnel: Submit a curriculum vitae (CV) for the Project Director and any co-PDs. If the consultant(s) or collaborator(s) are known at the time of application, CVs or resumes should be provided. The CVs should be no more than three pages including relevant publications during the last five years.
  - (8) Collaborative Arrangements (including Letters of Support)
  - (9) Conflict of Interest List (Form CSREES-2007)
  - (10) Budget (Form CSREES-2004)
  - (11) Budget Narrative
  - (12) Current and Pending Support (Form CSREES-2005) This should be completed for each PD or co-PD.

### **2. Other Project Application Information**

#### **(a) Project Summary/Abstract**

- (1) Project Type: The first line of your summary should state the type of project you are submitting, for example, “This is a Research project” or “This is an Outreach and Implementation project.”
- (2) The summary should be a self-contained, specific description of the activity to be undertaken and should focus on: overall project goal(s) and supporting objectives; plans to accomplish project goal(s); and relevance of the project to the priorities of the Western IPM Center.

#### **(b) Project Description**

Subsections (1) through (4) of the Project Description should not exceed eight pages in total. Subsection (5) shall not exceed two pages of written text in total. These restrictions (10-page limitation) have been

established to ensure fair and equitable competition. The Project Description must include all of the following:

(1) Problem, Background, and Justification

Describe why current technologies and practices are inadequate and how the proposed approach will help to improve or implement the pest management system and address the specific need(s) identified by growers and other stakeholders in the Western Region. Address the specific needs identified in this solicitation and identify the relative importance of the strategy(ies) to an improved pest management system in the region/area, and the potential applicability of the proposed approach to other production regions. Review ongoing or completed work (local/ regional/national) that is relevant, and include references. Describe how previous work will contribute to the proposed project.

(2) Objectives

Provide clear, concise, complete, and logically arranged statement(s) of the specific aims of or hypotheses addressed by the proposed effort.

(3) Methods, Procedures, and Timetable

Describe how each of the stated objectives will be addressed. Include appropriate experimental design and experimental units, reference methods to be used, and appropriate statistical analyses. Include a timetable for the start and completion of each phase of the project. The degree of collaboration should be specifically addressed for multi-disciplinary, multi-organizational, and multi-state/territory collaboration, respectively. If collaboration in any of these three aspects is inappropriate, justification must be provided.

(4) Collaborative Arrangements

Formal consulting or collaborative arrangements with others should be fully explained and justified. In addition, evidence (e.g., letter of support) should be provided that the collaborators involved have agreed to render these services. The applicant also will be required to provide additional information on consultants and collaborators in the budget portion of the application.

(5) Implementation and Evaluation Plans

The Implementation and Evaluation Plans portion of the application should not exceed two pages in length.

a. Research Projects: Applications must describe how the tactic or system, once developed, might be incorporated into an existing crop management program or other pest management situation on a large scale.

b. Outreach and Implementation: Applications must provide detailed plans for evaluation of the project. The evaluation plan should include specific evaluation objectives and measurement indicators (e.g., adoption rate, number of acres impacted, pesticide use, risk reduction, profitability) that will be used to measure impacts and outcomes resulting from the project. Evaluation plans that include surveys should indicate survey expertise of investigators and/or describe the survey methodology that will be used.

3. Budget

Each proposal must include a detailed budget form (CSREES-2004) for each year or partial year of requested support and a budget form that summarizes total project costs for the duration of the project.

Indirect costs of up to 20% of the total cost of the project can be supported by these funds. Additional details on budget issues are available, upon request, at the WIPMC office.

4. Budget Justification

A brief budget justification statement (i.e., Budget Narrative) is required and must provide details for each line item in the budget.

For any subcontractors the budget justification must include a summary budget and a budget for each year as well as a budget justification (with the same detail as required for the applicant budget).

5. Appendices to Project Description.

Appendices are allowed if they are directly germane to the proposed project. The addition of appendices should not be used to circumvent the text and/or figures and tables page limitations.

6. References

All references to works cited should be complete, including titles and all co-authors, and should conform to an acceptable journal form. References are not considered in the page-limitation for the Project Description.

**C. Submission Dates and Times**

An original, four copies, and one electronic version of each proposal must be received by the Western Integrated Pest Management Center by 5:00 p.m. on Monday, **December 11, 2006**. Facsimile copies are not acceptable. Send proposals to:

Linda Herbst, Associate Director  
Western Integrated Pest Management Center  
Department of Environmental Toxicology  
4249 Meyer Hall (Only Needed For FedEx)  
University of California  
One Shields Avenue  
Davis, California 95616-8588  
530-752-7010

## PART V—APPLICATION REVIEW INFORMATION

### A. Technical Review

A technical panel will review, evaluate, score, and rank the applications for technical merit. The panel will consist of research and Extension personnel from outside the Western Region. The panel will include representatives from each major pest discipline, plus appropriate production and social scientists.

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

Criteria	Possible Points
Appropriate objectives, design, and methodology The following will be considered in establishing the overall scientific value of the project. Considerations include: Overall scientific value 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?	30
Are the methods appropriate and sufficient to accomplish the stated objectives? Can the objectives be accomplished in the stated time frame?	20
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.	20
Evaluation and Implementation Plans <u>Research Projects:</u> Implementation plan: Detail how the research may be applied in the field. --or-- <u>Outreach and Implementation Projects:</u> Implementation plan: Detail how you are going to apply the research in the field. Evaluation plan: Include an appropriate strategy/process to evaluate the success of the project.	10
Professional competence of the project team	10
Appropriate budget	10
<b>Total possible points for Technical Review:</b>	<b>100</b>

## **PART VI—AWARD ADMINISTRATION**

### **1. Reporting Requirements**

**Final Report:** A final report must be submitted to the WIPMC Director by September 1, 2008. This report should provide the status of all the objectives in the funded project. The WIPMC final report guideline is available at <http://www.wripmc.org/Research/index.html>.

The University of California prohibits discrimination or harassment of any person on the basis of race, color, national origin, religion, sex, gender identity, pregnancy (including childbirth, and medical conditions related to pregnancy or childbirth), physical or mental disability, medical condition (cancer-related or genetic characteristics), ancestry, marital status, age, sexual orientation, citizenship, or status as a covered veteran (covered veterans are special disabled veterans, recently separated veterans, Vietnam era veterans, or any other veterans who served on active duty during a war or in a campaign or expedition for which a campaign badge has been authorized) in any of its programs or activities.

University policy is intended to be consistent with the provisions of applicable State and Federal laws.

Inquiries regarding the University's nondiscrimination policies may be directed to the Affirmative Action/Staff Personnel Services Director, University of California Division of Agriculture and Natural Resources, 300 Lakeside Drive, 6th Floor, Oakland, CA 94612-3550, (510) 987-0096.