



California Department of Food & Agriculture  
 Pierce's Disease Control Program  
 Pierce's Disease & Glassy-winged Sharpshooter Board

University of California  
 Agriculture and Natural Resources  
 Pierce's Disease Research Grants Program

## - Request for Pierce's Disease Research Proposals -

- Issued November 10, 2010 -

The following two programs are currently accepting research proposals for research on Pierce's disease and its vectors:

- The California Department of Food and Agriculture Pierce's Disease and Glassy-winged Sharpshooter Board (CDFA PD/GWSS Board) --- Accepting proposals for Biological and Economic research on Pierce's disease and its vectors.
- The University of California (UC) Pierce's Disease Research Grants Program --- Accepting proposals for Biological research on Pierce's disease and its vectors.

### Types of Proposals

- Biological Research Proposals: Proposals are being requested for projects that will contribute to finding solutions to this serious disease of grapevines and that are relevant to California conditions. All proposals received will be considered to be submitted to both the CDFA and the UC programs. Thus, each proposal must have two versions of the same budget, one under the format for each program. Proposals will be evaluated in a unified process. However, the CDFA program and the UC program will separately identify those projects that each program will support.
- Economic Research Proposals: Proposals are being requested for projects that will contribute to an understanding of the economic impact of PD/GWSS on agriculture. Note that proposals may be strengthened by delineating and building on economic lessons from diseases other than PD/GWSS in terms of impacts of the diseases themselves relative to control approaches and policies. All Economic Research Proposals received will be considered to be submitted to CDFA only.

Proposals are due via electronic submission on Thursday, January 13, 2011. Research contracts will be awarded for one to three years, beginning with fiscal year 2011-12 (July 1, 2011 to June 30, 2012). For projects awarded two or three years of funding, receipt of a subsequent year of funding will be contingent upon satisfactory progress being made during the prior year.

### **Timeline**

- Request for Proposals Released..... November 10, 2010
- Proposals due..... January 13, 2011
- Award Notification from CDFA and UC ..... May 12, 2011
- Start Date for Projects ..... July 1, 2011

### **Funding**

- The CDFA Pierce's Disease Research Program is funded by a special assessment paid by the California winegrape industry. Prior awards have ranged from \$19,000 per year to \$246,000 per year, with projects ranging 1-3 years in duration.
- The UC Pierce's Disease Research Grants Program is funded by a special grant to the University of California from the USDA National Institute of Food and Agriculture (NIFA; formerly CSREES). Prior awards have ranged from \$19,000 per year to \$162,000 per year, with projects ranging 1-2 years in duration.

## General Information

- Research proposal submissions anticipating funding from the CDFA program should be consistent with the research recommendations provided in the report “PD/GWSS Research Scientific Review: Final Report” released in August 2007 by the California Department of Food and Agriculture’s Pierce’s Disease Research Scientific Advisory Panel, which have been updated for this RFP (see Attachment A).
- Funding preference will be given to projects deemed likely to yield results that expedite and/or directly yield applicable industry solutions or provide insight into the economic impacts of PD/GWSS and its possible solutions. Multi-disciplinary team projects are encouraged.
- Researchers are responsible for obtaining all required governmental permits for working with live plant pests. For more information, please visit the following websites:
  - California permits: <http://www.cdfa.ca.gov/phpps/permitsandregs.html>
  - Federal permits: <http://www.aphis.usda.gov/ppg/permits/plantpest/index.html>.
- Submitted proposals and progress reports will not be returned. Confidential information and materials should not be submitted.
- Periodic progress reports and a final report will be required for each funded project. The research sponsors are committed to providing public access to data in a timely fashion in order to maximize progress and hasten the discovery of solutions to Pierce’s disease. Therefore, similar to federal grant programs, funded researchers may be required to post project information, including progress reports and certain types of data (e.g., gene sequences, expression data, etc.) on designated websites (see Attachment B for more information). In addition, funded researchers are expected to attend and report on their progress at the annual Pierce’s disease research symposium. The proceedings from prior symposia are available at [http://www.cdfa.ca.gov/pdcp/Research\\_Symposium\\_Index.html](http://www.cdfa.ca.gov/pdcp/Research_Symposium_Index.html).
- Information on past and current research is available at <http://www.piercesdisease.org/>. Researchers are encouraged to review this information to ensure proposed research represents new ideas or approaches.
- This RFP document is available online at: <http://www.cdfa.ca.gov/pdcp/Research.html>

## Eligibility

- Any individual or group affiliated with a university or governmental agency that has appropriate research capabilities is eligible and is encouraged to submit proposals. For the UC Program, the organization must be able to meet NIFA certification requirements (see “Additional Forms Required by the UC Program” on page 9 of the RFP).

## Format and Content of Research Proposals

- See Guidelines.

## Definitions of Participant Responsibilities

- **Principal Investigator (PI):** The Principal Investigator is the person with overall responsibility for the scientific conduct of the project and for expenditures of funds. Each project has only one PI.
- **Co-Principal Investigator (Co-PI):** A Co-Principal Investigator is a person who receives research support or material of significant value from the project. A project may have more than one Co-PI.
- **Cooperator:** A Cooperator is a person who provides advice, materials, or data to the project, makes arrangements for advancement of project activities, uses results developed in the project, and/or carries out research in parallel to the project research and which is mutually beneficial. A Cooperator does not receive research support or material of significant value from the project. A project may have more than one Cooperator.

## Review Process and Criteria

Proposals will be reviewed by *ad hoc* external reviewers and a review panel. In addition, the PD/GWSS Board's Research Screening Committee and the University of California's Pierce's Disease Research Grants Program Guiding Committee will review and make recommendations for funding of proposals by the respective programs. For the UC program, proposal budgets must be further reviewed and approved by USDA-NIFA before funds can be awarded.

**Biological Research Proposals** will be reviewed and evaluated in the following areas (100 points possible):

- **Objectives of Proposed Research/Relevance** - Are the objectives clearly stated, justified, worthwhile, and reasonable and consistent with priorities outlined in Attachment A? Is the proposed research likely to contribute significantly to Pierce's disease mitigation? If the proposed project is redundant with other research, is the redundancy beneficial? (25 points)
- **Experimental Procedures to Accomplish Objectives** – Is the work plan reasonable, feasible and capable of meeting the stated goals and objectives? Is the work plan of good scientific merit? (35 points)
- **PI, Co-PI(s) & Cooperators** – Do they have appropriate backgrounds, expertise, experience and capabilities for the proposed tasks? Is the team missing any critical capabilities? (10 points)
- **Research Capacity & Likelihood of Accomplishing Objectives** – Assuming that requested PD program funds are awarded, will the investigators have the resources, including facilities, to achieve the objectives? (10 points)
- **Research Timetable for Project** – Are the milestones appropriate? Are they achievable? (10 points)
- **Budget** – Is the budget reasonable and appropriate, including support for collaborator activities? (10 points)

**Economic Research Proposals** will be reviewed and evaluated in the following areas (100 points possible):

- **Objectives of Proposed Research/Relevance** - Are the objectives clearly stated, justified, worthwhile, and reasonable and consistent with priorities outlined in Attachment A? Is the proposed project non-redundant with other research? (25 points)
- **Methodology and Procedures for Accomplishing Objectives (Workplan)** – Is the workplan reasonable, feasible and capable of meeting the stated goals and objectives? Is the workplan likely to yield the targeted data and information (35 points)
- **PI, Co-PI(s) & Cooperators** –Do they have appropriate backgrounds, expertise, experience and capabilities for the proposed tasks? Is the team missing any critical capabilities? (10 points)
- **Research Capacity & Likelihood of Accomplishing Objectives** – Assuming that requested PD program funds are awarded, will the investigators have the resources, including facilities, to achieve the objectives? (10 points)
- **Research Timetable for Project** – Are the milestones appropriate? Are they achievable? (10 points)
- **Budget** – Is the budget reasonable and appropriate, including support for collaborator activities? (10 points)

## Due Dates for Submissions

Proposals should be submitted electronically via the internet **no later than Thursday, January 13, 2011**. Submit proposals online at <http://www.pdgrants.ucdavis.edu>.

Additionally, for Biological Research Proposals, please submit one paper copy to each funding program. For Economic Research Proposals, please submit one paper copy to the CDFA program only. Paper copies should include all necessary institutional approvals and should be signed by all PIs, Co-PIs, and Cooperators. The paper copies must be postmarked no later than **Thursday, January 20, 2011**.

The mailing addresses are:

- For the UC Program: UC Statewide IPM Program, Attention Melanie Caruso, Robbins Annex, University of California, One Shields Ave., Davis, CA 95616-8621.
- For the CDFA Program: Pierce's Disease Control Program, Attention Doug West, California Department of Food and Agriculture, 2014 Capitol Ave., Suite 203, Sacramento, CA 95811.

Proposals that are incomplete, late, or exceed the maximum page length (10 pages + title page, budget, current, planned, pending, and recent PD/GWSS research support, biographies, and citations; 11-point Arial font; one-inch margins) may be eliminated from consideration.

## Questions

If you have questions about the CDFA and UC research grant programs, please contact one of the following:

For Submissions to UC  
Melanie Caruso  
UC Statewide IPM Program  
Ph: 530-752-5336  
[mmcaruso@ucdavis.edu](mailto:mmcaruso@ucdavis.edu)

For Submissions to CDFA  
Doug West  
Pierce's Disease Control Program  
Ph: 916-322-3434  
[dwest@cdfa.ca.gov](mailto:dwest@cdfa.ca.gov)

For questions about online submissions, please contact Ms. Melanie Caruso ([mmcaruso@ucdavis.edu](mailto:mmcaruso@ucdavis.edu)).

# RESEARCH PROPOSAL FORMAT AND GUIDELINES

Proposals must not exceed the maximum page length (10 pages + title page, budget, current, planned, pending, and recent PD/GWSS research support, biographies, and citations). Please use 11-point Arial font, and one-inch margins. Submit online at <http://www.pdgrants.ucdavis.edu>, where much of the information requested below can be entered in the corresponding blanks or as checked boxes. Electronic submissions are due **no later than Thursday, January 13, 2011**.

Additionally, for Biological Research Proposals, please submit one paper copy to each funding program. For Economic Research Proposals, please submit one paper copy to the CDFA program only. Paper copies should include all necessary institutional approvals and should be signed by all PIs, Co-PIs, and Cooperators. The paper copies must be postmarked no later than **Thursday, January 20, 2011**. The mailing addresses are:

- For submissions to the UC program: UC Statewide IPM Program, Attention Melanie Caruso, Robbins Annex, University of California, One Shields Ave., Davis, CA 95616-8621.
- For submissions to the CDFA program: Pierce's Disease Control Program, Attention Doug West, California Department of Food and Agriculture, 2014 Capitol Ave., Suite 203, Sacramento, CA 95811.

## **Project Type**

Please indicate if this is a Biological Research Proposal or Economic Research Proposal.

## **Project Title**

Please give the title of the proposal, in 150 or fewer characters. If this is a continuing project and you are changing the title, please explain why.

## **Signature and Authorization Page**

Furnish proof of authorization and agreement to conduct the proposed research by providing required institutional approvals and signatures of the PI, Co-PIs, and Cooperators. (Note: This applies to mailed paper copies only, not electronic submissions.)

## **Principal Investigator (PI)**

Please see the definitions for PI, Co-PI and Cooperator on page 2. Indicate the PI, i.e., the person responsible for overall project management, coordination, and execution. Include institutional affiliation, address, phone number, and e-mail address.

## **Co-Principal Investigators (Co-PIs)**

Include institutional affiliations, addresses, phone numbers, and e-mail addresses. Indicate the roles of each Co-PI and make sure that each Co-PI is aware of his/her proposed participation.

## **Cooperators**

Indicate the roles of each cooperator, and make sure they are aware of their proposed participation.

## **Research Area**

Indicate, from the following list, the one primary research area in which the project falls, as well as any secondary areas:

- Crop Biology
- Disease Epidemiology
- Pathogen Biology & Ecology
- Pathogen & Disease Management
- Vector Biology & Ecology
- Vector Management
- Vector/Pathogen Interaction
- Economic Effects
- Other

### **Expected Duration of Project**

Indicate the number of years for which funding is requested (three years maximum).

### **Budget Summary**

Supply the budget total for each year requested. (Note: more information on the proposed budget, including detail and justification, is requested below)

### **Keywords**

Supply important keywords that characterize this project.

### **Project History**

Indicate if this is a new or continuing project. If a continuing project, indicate when it began, the number of years of activity, and the sources of funding. Also, indicate how this project relates to other past, current, and anticipated future research projects. Summarize previous work in this area (1600 characters).

*Clarification about Progress Reports:* Please be advised that progress reports should not be included as part of your submission. Instead, use the sections entitled "Project History" and "Summary" to briefly discuss any previous work on your project that is relevant to the present proposal.

### **Summary**

Include a layperson summary of this project (approximately 100 words).

### **Objectives of Proposed Research and Path to Application**

State the aim or broad goal of the proposal, followed by a numbered list of specific objectives. After the specific objectives provide a summary of the potential impact and relevance of the proposed research, covering the points indicated below (3200 characters).

- **Biological Research Proposals:** Describe how the project's findings will lead to practical applications in California winegrape production and describe the steps that must be taken to achieve field application. Provide an estimate of the timeframe involved. Describe how the overall project and each objective address the fundamental goal of solving the Pierce's disease problem in California. For those proposals that present a control strategy nearing the application stage, include a research component intended to estimate the anticipated costs and economic benefits of implementing the control strategy. Cite relevant literature. Describe the project's relevance to the research recommendations from the CDFA PD Research Scientific Advisory Panel in their recent report entitled "PD/GWSS Research Scientific Review" (See Attachment A).
- **Economic Research Proposals:** Describe how the research will further the understanding of the economic consequences of PD or the economics of potential PD solutions, and how the research can lead to better solutions to the PD problem. Describe how the overall project and each objective address the fundamental goal of solving the Pierce's disease problem in California. Cite relevant literature. Describe the project's relevance to the research recommendations from the CDFA PD Research Scientific Advisory Panel in their recent report entitled "PD/GWSS Research Scientific Review" (See Attachment A).

### **Methodology to Accomplish Objectives**

- **Biological Research Proposals:** Discuss the experimental procedures for each objective. Discuss laboratory experiment or plot design, expected results, statistical analyses, methods to be used, parameters of data collection including sampling methods, and potential pitfalls and limitations. Cite relevant literature.
- **Economic Research Proposals:** Explain the approach to be taken and be specific with respect to research methods, data collection, and statistical analysis. Cite relevant literature.

### **Research Timetable**

Outline the timeline for the research project, indicating start dates, periods of activity, and completion dates for each activity and objective, and for the entire project.

### **Research Capacity and Likelihood of Accomplishing Objectives**

Summarize how the principal investigators' and cooperators' research capacities (i.e., dedicated financial sources, computer facilities, laboratory and field resources, and human resources) and previous work make the proposed work feasible and increase the likelihood for accomplishing the stated objectives.

### **Intellectual Property**

Describe any intellectual property, other than copyrighted publications, that this project is likely to produce, and provide information or a URL describing your institution's policies for managing intellectual property. In addition, researchers should make reasonable efforts to describe any proprietary technologies, including methodologies, that your research will necessarily use or incorporate and the steps, if any, that may be required in order to use these proprietary technologies for practical field applications of the project's research results. Researchers should also note that the Public Intellectual Property Resource for Agriculture ([www.pipra.org](http://www.pipra.org)) is available for consultation on PD/GWSS intellectual property issues. See Attachment B for more information about intellectual property and data sharing.

### **Current, Planned, Pending, and Recent PD/GWSS Research Support**

Use the following format to identify support for your current, planned, pending, and recent projects that have any component related to the research proposed in your submission.

- Provide information on all current, planned, pending, and recent projects, whether or not there is a specific time commitment by a PI or Co-PI. Where there is a time commitment (with or without a salary provision) indicate the percentage of time on an annual basis. If there are no current, planned, or pending PD-related projects, please state "NONE."
- Explain any connections and/or overlaps between existing and/or pending support and this submitted proposal. How will the total support package tie together? If there is overlap, please provide a short narrative describing what activities overlap and the percentage of effort on the proposed project that is to be devoted to the overlapping activities. If no overlap is expected, please state "NONE."

#### Related current projects

Name	Supporting agency & project number	Total budget	Effective & expiration dates	Percent of time committed	Project title
(PIs and Co-PIs)					
(PIs and Co-PIs)					

#### Related projects that are planned (within the next 6 months) or for which funding is pending, and recent (past 5 years) projects for which funding was received

Name	Supporting agency and project number	Total budget	Proposed effective & expiration dates	Percent of time committed	Project title
(PIs and Co-PIs)	This proposed project				
(PIs and Co-PIs)					

**Biographical Sketches**

Include a brief biographical sketch for each PI and Co-PI. List 15 of his/her most recent publications (not just those relating to the current project). Maximum of two pages per PI or Co-PI, excluding the list of publications.

**Budget Request**

- For Biological Research Proposals: Present the budget in both the CDFA and UC formats.
- For Economic Research Proposals: Present the budget in the CDFA format only.
- Indirect costs will not be covered by either program and should not be included.
- Special rules for proposals seeking CDFA funding:
  - CDFA retains the right to claim ownership of any equipment purchased using CDFA funds.
  - Services of private subcontractors must be obtained through a competitive bid process.

**Budget format for the CDFA Pierce's Disease and Glassy-winged Sharpshooter Board**

Present the budget using the following format. Do not put amounts in shaded areas. Include a narrative explanation and justification of budget items.

**Budget format for submissions to the CDFA PD/GWSS Board**

	FY 2011-12		FY 2012-13		FY 2013-14		
	% of Time on Project	Amount (\$)	% of Time on Project	Amount (\$)	% of Time on Project	Amount (\$)	TOTAL
Personnel							
Professional							
SRA/Tech							
Lab Assistant							
Other							
Employee Benefits							
<b>SUBTOTAL</b> (Personnel + Benefits)							
Supplies and Expenses							
Equipment							
Travel							
Other							
Indirect Costs*							
<b>SUBTOTAL</b> (Supplies, Expenses, Equipment, etc.)							
<b>TOTAL</b>							

(\*Indirect costs cannot be covered by CDFA.)

**Budget format for the UC Pierce's Disease Research Grants Program**

Prepare a budget page using the form CSREES 2004 (or designated replacement form) and a detailed budget narrative, following the instructions for the form (see <http://www.ipm.ucdavis.edu/FORMS/> for forms and instructions). Although funding is approved and transferred on a yearly basis, note your needs for the length of the proposed project (maximum of three years). Note that:



- All budget categories for which support is requested must be individually listed (with costs) in the same order as the budget and justified in a budget narrative.
- "Nonexpendable Equipment" and "All Other Direct Costs" categories must be itemized and the cost per item must be provided.

**Literature Cited**

Include a list of literature cited in the research proposal. Provide complete citations (authors, year published, full title, journal or book title, and inclusive page numbers). Within the proposal, cite references by author and year.

**Additional Forms Required by the UC Program**

Additional certifications may be required for proposals selected for funding by the UC program. UC program awardees will be given instructions regarding any additional forms needed in their award letters.