



**PROGRAMMATIC GRANT PROGRAM: Development at the Interfaces: Cross-disciplinary Curriculum, Workshops, and Facilities**

*<http://www.calstate.edu/csuperb/grants/programmatic/>*

**2010 REQUEST FOR PROPOSALS**

**Key Dates & Information:**

RFP Release Date: August 31, 2009

Proposal Due Date: February 8, 2010, 5:00 p.m. pacific time

Award Notification: May, 2010

Maximum Award Amount: \$15,000

Project Duration: May 1, 2010 - October 31, 2011

**Program Description:**

The California State University Program for Education and Research in Biotechnology (CSUPERB) aims to increase cross-disciplinary faculty involvement in biotechnology and to support emerging areas, or interfaces, of biotechnology across the California State University (CSU) system. The 2010 Programmatic Request for Proposals (RFP) is specifically targeted toward the development of innovative cross-disciplinary curriculum, workshops, teaching strategies, or facilities containing specialized equipment that require collaboration of faculty representing more than one disciplinary area. Secondly, CSUPERB emphasizes the system-wide dissemination of curricular materials developed, including online courses, modules and case studies, or the sharing of new facilities across the CSU system to engage, impact and prepare students in biotechnology.

Successful 2010 Programmatic projects might include, but are not limited to, the following examples:

- Design, development and implementation of biotechnology courses, modules, workshops or curriculum addressing tissue engineering, biofuels, environmental toxicology, molecular

diagnostics, bio-nanotechnology, statistical analysis of genomic data, food safety, decision making based on high throughput screening, synthetic biology, health care disparities, etc.;

- Development of online, life sciences industry-responsive curriculum addressing regulatory affairs, quality assurance, or other specialized industry-specific topics;
- Development of specialized, shared core facilities, networking, equipment and/or instrumentation for work at biotechnology interfaces, such as biomedical device design and manufacture;
- Development of student internship or research programs at disciplinary interfaces related to biotechnology;
- Design, development and implementation of shared resources for students and faculty to improve cross-disciplinary or inter-disciplinary collaborations, build learning communities or promote projects at biotechnology interfaces;
- Design, development and implementation of (or transformation of “cookbook laboratories” into) inquiry-based exercises or active learning projects at the interfaces of biotechnology;
- Hands-on short courses or workshops for CSU faculty, students and staff system-wide addressing techniques or methods used at the interfaces of biotechnology (formerly solicited separately as CSUPERB workshops).

### **2010 Programmatic Grants Review Criteria:**

- Projects must be original and/or innovative.
- Projects *must involve faculty from more than one discipline or department*. Projects must not involve faculty from only “traditional” (biology, chemistry, plant sciences, genetics, molecular biology) biotechnology disciplines. Successful projects will describe a collaborative, equal partnership working toward a common, or shared, course, curriculum or facility.
- Proposed projects must engage and impact CSU students; student impact should be defined clearly in the proposal.

- Proposed projects must have a plan to publish, share or disseminate work online or share, remotely or otherwise, facilities with CSU colleagues system-wide.
- Proposals must demonstrate and describe institutional commitment and support for projects. PIs should include letters of support or evidence of departmental, campus or other support, funds and shared resources that together indicate not only the feasibility of the project, but also sustainability of the programmatic work done.
- The proposed project must be biotechnology related. CSUPERB welcomes and encourages applications from CSU faculty in all disciplines related to the current practice of biotechnology, including but not limited to life sciences, physical sciences, clinical sciences, math, computer science, agricultural science, engineering, and/or business.

### **Eligibility:**

#### *Investigators & Key Personnel:*

The Programmatic Grants program is open to Principal Investigators (PIs) who are tenured or tenure-track (T/TT) CSU faculty. Other CSU staff may be listed as co-PIs or key personnel. Proposal teams can be made up of faculty from more than one CSU campus, however, the proposal should specifically focus on multi-campus agreements, institutional support and sustainability issues. CSUPERB will consider only one proposal per PI or co-PI at a time to the Programmatic Grants Program. Investigators applying to the Programmatic Grants Program are encouraged to apply to other CSUPERB Grants and Awards Programs.

#### *Budget:*

CSUPERB will review PR proposals with budgets **up to \$15,000**. Duration of the award will be 18 months from the project start date of May 1, 2010. Please note these awards will be made primarily with fiscal year 2009-2010 CSU general fund dollars, pending the California state budget.

#### *Equipment:*

Programmatic Grants allow both classroom instructional and research laboratory use of equipment requested.

*Proposal Submission:*

Proposals must be submitted on 2010 programmatic proposal template form and according to guidelines available at the CSUPERB webpage:

<http://www.calstate.edu/csuperb/grants/programmatic/>.

**Proposal Submission Instructions:**

Applicants are required to submit both hardcopy (with original signatures) and electronic versions of their completed proposals. Application forms and submission instructions are available at: <http://www.calstate.edu/csuperb/grants/programmatic/>. Completed applications must be submitted to the CSUPERB program office before 5:00 p.m. pacific time, Monday, February 8, 2010.

Applications that are complete and meet eligibility requirements will be evaluated for merit by a review panel comprised of CSU faculty with expertise reflecting the applications received. A proposal review meeting will be held in April 2010. Final funding decisions will be made by the CSUPERB Program Office. Funding decisions are based on recommendations made by the review panel, available funds and CSUPERB programmatic priorities. As part of the peer review process, all proposals will receive written reviews.

**Post-Award Reporting Requirements:**

Successful Programmatic Grant PI's are strongly encouraged to present the results of their funded project at the January 2011 or 2012 CSU Biotechnology Symposium.

At completion of the project, Final Reports will be due in the CSUPERB Program Office **within 90 days** of project end date. Detailed instructions and report forms are available at:

<http://www.calstate.edu/csuperb/grants/report-forms/>. Final reporting helps to document the need for and justify continuation of the program. CSUPERB may also contact PIs and co-PIs for longer-term impact reporting.

**Program Contacts and Addresses:**

Submit proposals to and contact for information about application forms:

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For information about this program and RFP, contact either:

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