

PERALTA COMMUNITY COLLEGE DISTRICT
Board of Trustees Agenda Report
For the Trustee Meeting Date of July 17, 2012

ITEM TITLE: *(Please define the subject; e.g., change order – Berkeley City College)*

Request Authorization for Berkeley City College to Submit an Application for the National Science Foundation Advanced Technological Education Grant (NSF ATE).

SPECIFIC BOARD ACTION REQUESTED:

Authorization for Berkeley City College to Submit an Application for the National Science Foundation Advanced Technological Education Grant (NSF ATE).

ITEM SUMMARY: *(PLEASE DISCUSS THIS ITEM. IF A VENDOR IS INVOLVED, PLEASE INCLUDE THE COMPANY NAME AS WELL AS THE INDIVIDUAL.)*

The Advanced Technological Education (ATE) program promotes improvement in the education of science and engineering technicians at the undergraduate and the secondary school levels (grades 7 through 12). Proposals to the program may aim to affect specialized technology courses or core science, mathematics, and technology courses that serve as immediate prerequisites or co-requisites for specialized technology courses. The curricular focus and the activities of all projects should demonstrably contribute to the ATE program's central goals: producing more qualified science and engineering technicians to meet workforce demands, and improving the technical skills and the general science, technology, engineering, and mathematics (STEM) preparation of these technicians and the educators who prepare them.

SOURCE OF FUNDS (AND FISCAL/BUDGETARY IMPACT):

National Science Foundation
\$25,000 to \$300,000 per year for up to three years

BACKGROUND/ANALYSIS:

With an emphasis on two-year colleges, the Advanced Technological Education (ATE) program focuses on the education of technicians for the high-technology fields that drive our nation's economy. The program involves partnerships between academic institutions and employers to promote improvement in the education of science and engineering technicians at the undergraduate and secondary school levels. The ATE program supports curriculum development; professional development of college faculty and secondary school teachers; career pathways to two-year colleges from secondary schools and from two-year colleges to four-year institutions; and other activities. Another goal is articulation between two-year and four-year programs for K-12 prospective teachers that focus on technological education.

DELIVERABLES AND SCOPE OF WORK:

Adapt educational materials or courses developed elsewhere or develop new ones that add rigorous STEM content to technical courses and programs.

Develop innovative methods for using laboratory and field- and work-based experiences to improve students' understanding of basic principles and the modern workplace.

Integrate industry standards and workplace competencies into the curriculum including 21st century skills.

Improve the recruitment and retention of students by providing educational opportunities for an increasingly diverse student body.

Provide professional development for educators.

Assess student learning; and implement strategies to support student recruitment, retention, and completion.

ANTICIPATED COMPLETION DATE:

According to the National Science Foundation Program Solicitation, grants may be awarded in a wide variety of sizes and durations.

ALTERNATIVES/OPTIONS:

EVALUATION AND RECOMMENDED ACTION:

OTHER DEPARTMENTS IMPACTED BY THIS ACTION (E.G. INFORMATION TECHNOLOGY):

YES _____ NO X

COMMENTS:

WHO WILL BE PRESENTING THIS ITEM AT THE BOARD MEETING? (VICE CHANCELLOR)

(*****Board contract approval is subject to negotiation and execution by the Chancellor.)

DOCUMENT PREPARED BY:

Prepared by: Denise Jennings, Interim Director of Special Projects, BCC Date: 6/27/12

DOCUMENT PRESENTED AND APPROVED BY:

Presented and approved by: Debbie Budd Date: 6/27/12

FINANCE DEPARTMENT REVIEW

FINANCE REVIEW REQUIRED FINANCE REVIEW *NOT* REQUIRED

IF FINANCE REVIEW IS REQUIRED, DETERMINATION IS: APPROVED NOT APPROVED

IF NOT APPROVED, PLEASE GIVE REASON: _____

SIGNATURE: Ron Gerhard DATE: 7-12-12
RON GERHARD, CHIEF FINANCIAL OFFICER

GENERAL COUNSEL (Legality and Format/adherence to Education Codes):

Legal review required Legal review *not* required

If Legal review is required, determination is: Approved Not Approved

Signature: _____ Date: _____
General Counsel

CHANCELLOR'S OFFICE APPROVAL

Approved, and Place on Agenda Not Approved, but Place on Agenda

Signature: José M. Ortiz Date: 7-10-12
José M. Ortiz, Chancellor