

FACILITIES NEEDS ASSESSMENT APPLICATION
Fall 2017

Name of Person Submitting Request:	TATIANA VASQUEZ
Program or Service Area:	BIOLOGY
Division:	SCIENCE
Date of Last Program Efficacy:	SPRING 2017
What rating was given?	CONTINUATION
Amount Requested (if available):	Unknown
Strategic Initiatives Addressed: Strategic Directions + Goals	Goal 1- Access; 1.9 Increase access to courses required for CTE certificates; 1.10 improve access to courses that students need for graduation. Goal 6 – Facilities; 6.2 – Maintain a safe and secure environment; 6.4 – Continue with facilities improvement Goal 2 – Student success; 2.5 - Improve performance

NOTE: To facilitate ranking by the committee, submit separate requests for each project; however, multiple items can be submitted as one request if it is required that the projects are packaged together.

You are required to meet with Robert Jenkins--Director, Facilities, Maintenance, & Operations-- prior to submitting a Facilities Needs Request. 909-384-8662 or rjenkins@sbccd.cc.ca.us. Please provide the date of your meeting:

October 12 2017

Capital Improvement Repair

Brief Statement of Request:

Improve current deionized water system for the Biology laboratories in HLS and associated lab prep areas. Currently there are deionized water faucets without connections to a deionized water system.

Are there alternative funding sources? (for example, Department, Budget, Perkins, Grants, etc.)

Yes NO

If yes, what are they? _____

1. Provide a rationale for your request. (Explain, in detail, the need for this project.)

Every biology laboratory requires the use of deionized water because charged particles present in tap water cause side reactions that interfere or compete with desired reactions. biology laboratory perform many activities that even require washing glassware with deionized water. Deionized water is necessary in at least 70% of activities in every course. Yet, not all labs have flowing deionized water. Although the HLS building has pipes to carry

deionized water, many of the existing pipes are not hooked up to the deionizing system located in the north wing of the building. For example in three labs located in the south wing of the building none of the pipes are connected to the deionizer. Thus, for over a decade, lab staff have been required to physically transport five gallon carboys of water, weighing more than 40 pounds a piece, to supply the needs of the student and prep laboratories. This situation poses both an unnecessary burden and safety risk to staff and a logistical problem for instructors with limited availability of appropriate water for planned activities in crowded student laboratories.

We ask that the pipes intended to deliver deionized water to the student and preparation labs be hooked up to the deionizing system and that, where needed, appropriate taps are also be provided. Deionized water is a minimum requirement to conduct most laboratory experiences. Faculty, students, and lab technicians should have easy access.

2. Indicate how the content of the department/program's latest Efficacy Report and/or current EMP supports this request and how the request is tied to program planning. (*Directly reference the relevant information from your latest Efficacy Report and/or current EMP in your discussion.*)

EMP (p. 2) Challenge: Lack of deionized water system in all labs and lab preparation areas.
EMP (p. 1) Growing number of sections offered. The more sections are offered the more laboratories are used. The need of deionized water has been established, but if growing labs offerings is to occur we must supply the minimum requirements for an active lab.
EMP (p.2) Increase student success in the classroom.

3. Indicate any additional information you want the committee to consider (*for example, regulatory information, compliance, updated efficiency, student success data, planning, etc.*).

4. What are the consequences of not funding this facilities request?

- Risks of injury for classified staff.
- Negative impact to laboratory curriculum for developed activities and future innovation in lab experiences.
- Negative impact to lab skills.
- Negative impact to increase offering numbers of lab courses.