

EQUIPMENT 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
Equipment Requested	Micropipets
Amount Requested:	\$900
Strategic Initiatives Addressed:	Goal 1, Access Strategic Directions + Goals Goal 2, Student Success

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

Replacement Additional

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 position.)

Biotechnology is universal now in different areas of Biology. Contemporary lab activities in biology require instruments of precision especially for measurement of micro-volume. This request is for micropipets, instruments that have applications in many aspects of our biology course offerings including Cell & Molecular Biology, Organismal Biology, and Evolutionary Ecology. The department requests four additional micropipets to facilitate hands on learning for Biology students in courses directly related to the AS and AS-T Biology degree.

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.*)

Our Program Efficacy report (pp. 18-19) demonstrates the wide diversity of employment opportunities that our Biology students face today. But they must be ready with various technical skills. The average percentage of occupations designated in the Biotechnology Industry range in the upper 70s (p19). The EMP data for AS degrees (p. 1) demonstrate our commitment to leading the Biology students' academic pathways. Nevertheless, their preparation with meaningful skills for transfer and employment are required. Scientific equipment is not cheap; the funds available to the department are limited (see Program Efficacy Report, *challenges* p. 20).

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

4. Indicate any related costs (including any ongoing maintenance or updates) and department/program's plans to support those costs.

None

5. What are the consequences of not funding this equipment?

- Limited implementation of Biotechnology labs.