

**EQUIPMENT NEEDS ASSESSMENT APPLICATION**  
**Fall 2016**

Name of Person Submitting Request:	<b>Lorrie Burnham</b>
Program or Service Area:	<b>Biology</b>
Division:	<b>Science</b>
Date of Last Program Efficacy:	<b>Spring 2013</b>
What rating was given?	<b>Continuation</b>
Equipment Requested	<b>Microscopes</b>
Amount Requested:	<b>\$290,000</b>
Strategic Initiatives Addressed: (See <a href="http://www.valleycollege.edu/about-sbvc/office-of-president/college_planning_documents/documents/strategic-plan-report-working-doc-8-25-15-2.pdf">http://www.valleycollege.edu/about-sbvc/office-of-president/college_planning_documents/documents/strategic-plan-report-working-doc-8-25-15-2.pdf</a> )	Strategic Goals of Student Success #2: 2.6.2; 2.6.3; 2.6.3.1 and .2; 2.6.5

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.)

The Biology Department's microscopes are the most commonly used pieces of scientific equipment in the department. They provide the versatility that allows students to perform qualitative and quantitative analysis of a diversity of life that cannot be encountered by any other means. The importance of microscopes to biology might be illustrated by equating them to brushes in a painting class, works of literature in English courses, or glassware to chemistry. The life expectancy of the microscopes is 10 years. Last year the Program review committee made this #1 on the list but we only received enough funds to replace the microscope in 3 of our 7 labs. The remaining scopes were purchased in 1998.

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.*)

The use of microscopes is identified explicitly and implicitly in COR's lab activities for Biology 100, 109, 155, 201, 202, 250, 251, 270. Assuming 6hrs of microscope (conservative estimate) use by each of these students, the department's microscopes accrue a per semester average use of 12700 hours, which works out to approximately 70 hours of use per microscope. 2013 Efficacy Report, p6, Pattern of service.

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

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

New microscopes would cause a decrease in the cost of repairs an bulbs
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5. What are the consequences of not funding this equipment?

Without funding these laboratory resources, many courses will be inadequate in training students for transfer to four-year universities and professional schools. The efficacy of the Department's laboratory courses is based on the availability of supplies and equipment
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