



**Materials, Services, Facilities and Technology Fee
Fiscal Year 2017-2018 Budget Request Form***

DUE: Friday, January 20, 2017 @ 5:00 P.M.
Please return completed requests via email to gina.matibag@csuci.edu

If you have questions about this form, please contact Gina Matibag at (805) 437-3320
For additional information please consult the MSFT web page.

Project or Activity Title: Chemistry Laboratory Instrumentation Refresh

Name of organization requesting funds: Chemistry Department Date: 1/20/2017

Requestor: Contact Phone Number: () E-mail:

Amount of MSFT Funding Requested: \$321,000

Date Funding Needed by: Fall 2017

Will you receive funds from any other source(s)? YES **NO**
If yes, please detail amount requesting from other source(s) as well as your total request for fiscal year 2016-2017 (including request from MSFT).

Has this project or activity previously received MSFT funding?
If yes, please attach copy of report
Progress report for 2016 award due 2/2, forthcoming. No award in 2015.

Please describe how the use of MSFT funds for this project or activity will benefit the CI student body.

Please provide the following in your application. You may attach additional pages and materials (applicants may be requested to meet with the committee to discuss proposals):

1. **Brief Project Description.** Describe the project and its benefits to the educational or co-curricular experience of students at CI. Please provide specific information about how MSFT funds will be used and their impact on the campus. Please describe how this project benefits CI students? Please describe items and provide justification if your request includes the purchase of computers, equipment, furniture or other materials. Please provide a timeline for implementation of the proposed project. If physical improvements are requested please describe need, scope and impact of work to be

completed. If the project includes provision of services please indicate the type of service, personnel costs and level or quantity of service to be provided with project funds.

2. **Project/Activity Budget.** Please enclose a complete detailed budget of the entire project. Indicate (in **bold**) specific items of requested MSFT funding including (where applicable) a schedule and priority of project items to be considered if the project is funded at a reduced level. Were other, less costly, approaches considered when preparing the budget for the project? Are there elements that could be eliminated or deferred if funding is not available for the entire project?
3. **Project Assessment.** Describe how the effectiveness of the project will be assessed and measures that will be used to determine if it has attained its objectives. Please note a report will be due at the end of the semester (or fiscal year for annual projects). If funded, how will the project acknowledge the use of student funds so that students are aware that their student fees made (or helped to make) it possible? If appropriate, indicate how the project or activity promotes sustainability at CI.
4. **Sources of Project Support.** Please list the other sources of funding, and additional support for the activity. If this project or activity has been conducted previously please indicate how it was funded. Please explain if MSFT is the only source of support for the project.

Fiscal Management: Project sponsor's unit or department may be responsible for incurred over and above what is funded through the MSFT. If support is requested for costs beyond initial award, or for use on activities or materials not included in approved proposals, the project sponsor must seek approval from the MSFT committee. The project sponsor will be responsible for managing purchases and transfers of funds related to approved projects.

Please review MSFT web page for information about the fund and its objectives before submitting your application.

Requestor

Signature

Date

AVP / Dean

Signature

Date

1. Project Description

The request is a prioritized list of instrumentation for teaching laboratories. For each piece of equipment, we will indicate the cost, whether the equipment is new or a replacement, and which classes we anticipate using the equipment for. Even partial funding of this proposal will help us keep our instrumentation needs up to date. Like computers or projectors, scientific instrumentation has a finite lifetime and is subject to technological advancements that make older equipment out of date.

2. Project Budget

Microplate Reader **\$51,000**

For use in our new biochemistry laboratory and in advanced labs. We need one of these for our biochemistry labs. This was a piece of equipment requested through our regular budget process and we were referred to the MSFT.

Gas Chromatograph Instrument **\$27,000**

Replacement for equipment purchased in 2003. We originally purchased two of these and are done to one instrument for our organic laboratories. We requested a replacement for this in our base budget but were told to go through MSFT.

Optical Light Scattering Instrument **\$30,000**

For use in physical chemistry laboratory, it would allow us to develop new experiments for this class that utilize light scattering techniques to count and characterize particles.

Scanning UV/Vis Spectrometer **\$15,000**

We have an aging unit for organic chemistry, but with our biochemistry laboratories moving to a new classroom, we could use one in that laboratory. We could also develop new experiments for physical chemistry (CHEM 372).

Potentiostats **\$33,000**

(6x\$5500)

For use in analytical (CHEM 251) and physical chemistry laboratories. Potentially (pun intended) also useful for biochemistry laboratory. We have limited electrochemical experiments in these classes right now. This would allow us to develop new experiments for these classes.

Gas Chromatograph Mass Spectrometer (GCMS) **\$75,000**

Replacement for equipment purchased in 2008. This piece of equipment is down and it will be too expensive to revive. Workhorse instrument for organic chemistry laboratories, we made this same request in 2016 when the instrument looked to be on its last legs.

Preparatory Ultracentrifuge **\$90,000**

This would be a refurbished preparatory centrifuge we could use for our biochemistry classes. We want to develop more experiments for our biochemistry I and II labs. This would allow us to determine the properties of macromolecules – size, shape, density – in real time.

3. Project Assessment

The chemistry department will provide a report to the MSFT.

4. Sources for Project Support

The chemistry department has an O&E budget, but equipment is not a line item. We do have funds from IDC, CERF, and some salary savings we can use to purchase equipment, but the magnitude of those funds is typically much smaller than what we are requesting here.