



**Materials, Services, Facilities and Technology Fee
Fiscal Year 2016-2017 Budget Request Form***

DUE: Friday, January 15, 2016 @ 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: 12/8/15

Requestor: S. Aloisio Contact Phone Number: (805)4378999 E-mail: simone.aloisio

Amount of MSFT Funding Requested: \$386,000

Date Funding Needed by:

Will you receive funds from any other source(s)? YES **NO** – see note (*)

If yes, please detail amount requesting from other source(s) as well as your total request for fiscal year 2015-2016 (including request from MSFT).

*We have put in a budget request for some of this instrumentation this year.

Has this project or activity previously received MSFT funding? Not last year (*)

If yes, please attach copy of report

* We have obtained previous MSFT funding and have submitted reports for that, but we did not obtain funding in the last cycle.

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

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

Liquid Chromatograph Mass Spectrometer (LCMS) \$152,000

This is the next piece of capital equipment desired by the department. It would be a workhorse instrument in biochemistry (CHEM 461 and 463) and organic chemistry laboratories (CHEM 312 and 315), also used in advanced labs.

Gas Chromatograph Mass Spectrometer (GCMS) \$99,000

Replacement for equipment purchased in 2008. This piece of equipment is currently down and may not be revived. Workhorse instrument for organic chemistry laboratories, but also used for biochemistry and advanced laboratories.

Thermal Cycler \$9000

Piece of equipment used for biochemistry laboratories. Our current one is broken and retired.

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 (6x\$5500) \$33,000

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.

Microplate Reader \$48,000

For use in our new biochemistry laboratory and in advanced labs. We currently have an instrument used for research that is borrowed when we need it, but it would be more convenient to have one in the lab.

3. Project Assessment

The chemistry department will provide a report to the MSFT committee on how funds are spent, where equipment is located, and what classes the equipment is primarily used for.

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.