



**Materials, Services, Facilities and Technology Fee
Fiscal Year 2014-2015 Budget Request Form***

DUE: Friday, February 14, 2014 @ 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 Department Instrumentation Request

Name of organization requesting funds: Chemistry Department Date: 2/12/14

Requestor: Simone Aloisio Contact Phone Number: (805) 437-8999

E-mail: simone.aloisio@csuci.edu

Amount of MSFT Funding Requested: \$304,100

Date Funding Needed by: AY 2014/2015

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 2013-2014 (including request from MSFT).

Has this project or activity previously received MSFT funding? yes

If yes, please attach copy of report

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. 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 (Dept/Divison Head)

Signature

Date

1. Project Description

This request is a prioritized list of instrumentation for use in chemistry teaching laboratories. For each piece of equipment, we will indicate a cost and whether the equipment is new or a replacement, and which classes the equipment will be used in. The list is prioritized based on department need. Even partial funding of this proposal will greatly improve the quality of the education in our laboratories, or at least not deteriorate the quality of labs we have.

2. Project Budget

High Performance Liquid Chromatography (HPLC) instrument **\$50,000**

Replacement for equipment purchased in 2003. Used primarily in organic chemistry laboratory, but also used in some other upper division courses.

Rotovaporator and Vacuum Pump **(2 x \$13k)** **\$26,000**

Additional equipment for organic chemistry laboratory. We have two of these for the entire laboratory and would like to expand our capabilities by adding two.

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.

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

For use in analytical (CHEM 251) and physical chemistry laboratories. Potentially (pun intended) also useful for biochemistry laboratory. We don't have any electrochemical experiments in these classes right now. This would allow us to develop new experiments for these classes.

Furnace(s) **(\$1350 + \$3750)** **\$5100**

We are asking for two furnaces for our laboratories. Furnaces are used to combust materials in crucibles in CHEM 251. It would allow us to decrease the experiment/prep time for some of the existing laboratories in this class. It would also lead to new experiments for this class. They can also be used to clean ceramicware. As the number of sections of this class grow, we are finding the need for a large and small furnace.

Liquid Chromatograph Mass Spectrometer (LCMS) **~\$160,000**

This is the next piece of capital equipment desired by the department. I would be a workhorse instrument in organic chemistry laboratories, but would also be useful for biochemistry classes. The department could share the cost for the purchase of this equipment if partial funds are made available.

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. 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 smaller than what we are requesting here.

Report for AY 2013 2014 Funds

Dan,

As a report from last year's MSFT funds allocated to chemistry, I am sending you this email.

For Fall 2013 we were approved the purchase an FTIR for \$20k. We purchased one for \$19,778 and it was delivered and installed in October.

For Spring 2014 we were approved to purchase a GCMS for \$58k. We purchased one for \$57834 with an estimated shipping cost of \$375. We expect the instrument to ship and be installed in early March.

Both of these instruments are located in ALI 233, our upper division instructional laboratory. They are workhorse instruments for organic chemistry courses, but are also used in other upper division courses periodically.

I hope this suffices. Thanks,

Simone