

# Materials, Services, Facilities and Technology Fee Fiscal Year 2018-2019 Budget Request Form

**DUE: Friday, January 19, 2018**

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

## ▼ Application

### Project or Activity Title

Chemistry Laboratory Instrumentation Refresh

### Requestor

Simone Aloisio

### Requestor Phone Number

437-8999

### Requestor Email

Simone.Aloisio@csuci.edu

### Amount of MSFT Funding Requested

504000.00

### Date Funding Needed by

12/1/2018

### Are you a member of the Division of Student Affairs?

- ☒ No  
☐ Yes

### Please select your AVP/Dean

Meriwether, James H - Interim Dean of Arts & Sciences

### Will you receive funds from any other source(s)?

- ☒ No  
☐ Yes

### Has this project or activity previously received MSFT funding?

- ☐ No  
☒ Yes

### Please list the 4-digit MSFT sequence and Title

1603

### Please attach a copy of report

[MSFT1603.docx](#)

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 files as needed (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 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.

**Brief 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. We know this is a large request, and are not expecting it to be fully funded. If the resources are available though, we do have need for them. Like computers or projectors, scientific instrumentation has a finite lifetime and is subject to technological advancements that make older equipment out of date.

**Brief Project Description Additional Documents**

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**Project/Activity Budget**

Gas Chromatograph Mass Spectrometer (GCMS)      \$75,000  
Replacement for equipment purchased in 2008. This piece of equipment is retired and we have not been able to replace it. Workhorse instrument for organic chemistry laboratories, we made this same request in 2016 and 2017.

Fluorimeter      \$39,000

This would be a new piece of equipment that we would use for biochemistry laboratories, as well as some upper division laboratory electives. It would replace our older fluorimeter, which is about 9 years old.

Circular Dichroism Spectrophotometer \$156,000

This is a new instrument. We would use it for biochemistry laboratories. It would significantly enhance our ability to do protein thermodynamics. Our only current option for this is to send samples out. A state-of-the art instrument of this type would enhance biochemistry laboratory student education.

Glove Box \$36,000

A glove box would be used for Inorganic and Materials chemistry courses, and would allow us to develop labs for these courses. A glove box is needed when working with substances that react with air, or when surfaces need to keep especially clean. It is likely that we would need more of these as we grow, but one would get us started in this field.

Analytical Ultracentrifuge \$198,000

This an analytical 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.

#### Project/Activity Budget Additional Documents

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#### Project Assessment

The chemistry department will provide a report to the MSFT at the end of the academic year, when funds have been spent.

#### Project Assessment Additional Documents

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#### Sources of 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 much smaller than what we are requesting here.

#### Sources of Project Support Additional Documents

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#### 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.

 Simone Aloisio Jan 19 2018

#### ▼ AVP/Dean Review

☒ I approve of this MSFT Fee Application

 James Meriwether Jan 19 2018