

## Summer Research Experience for Undergraduates

The Engineering Research Center (ERC) for Extreme Ultraviolet (EUV) Science and Technology (<http://euverc.colostate.edu/>) is soliciting applications for summer undergraduate research positions. Successful applicants will collaborate with faculty and graduate students on cutting-edge EUV research projects.

The EUV ERC is a partnership between Colorado State University, the University of Colorado, UC Berkeley and Lawrence Berkeley National Laboratory. Students participating in the REU program can choose among projects underway at all four institutions.

Positions offer opportunities for research in EUV science and technology, workshops on technical writing, preparing journal papers and posters, as well as outdoor social activities. Students receive a 10-week research stipend, as well as housing, and travel allowances. The program is open to students in engineering, physics, chemistry and related fields.

### Some Potential Projects (see the web page for more details!)

- ✓ Optimization of high power EUV lasers
- ✓ Development of multilayer mirrors using an ion beam sputtering system
- ✓ Development of high damage threshold thin films for high power laser systems
- ✓ Design, fabrication and testing of EUV multilayer optics
- ✓ Imaging and focusing with an EUV laser
- ✓ Optimization of femto-second lasers
- ✓ Development of laser pulse shapers

### Application Requirements:

1. Student Information Form (on back)
2. Statement of Purpose (on back)
2. Letter of Recommendation (from faculty member)
3. Copy of Official Academic Transcript

**Electronic Version of Flyer:** <http://euverc.colostate.edu/education/REU/REU.shtml>

### Eligibility:

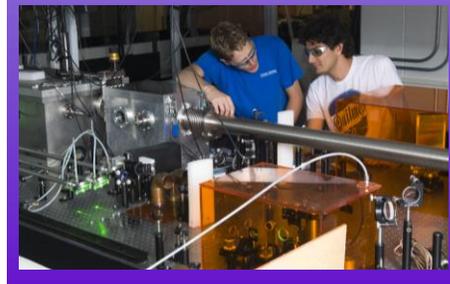
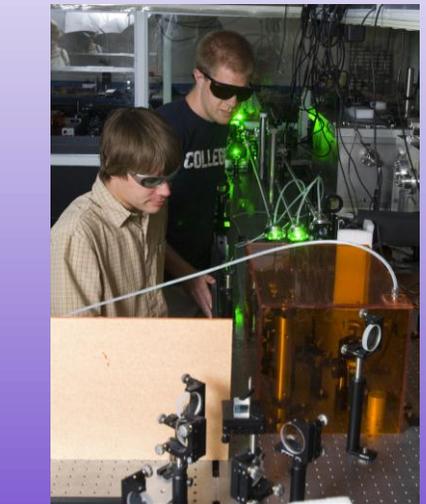
1. Sophomore, Junior or non-graduating Senior
2. U.S. citizen or permanent resident
3. GPA of 2.8 or greater (out of 4)

### Dates:

Applications due: March 2<sup>nd</sup> 2013.  
Preliminary Notification: March 23<sup>rd</sup>, 2013  
Program Dates: Summer 2013, to be announced

### Questions??

Contact: Kaarin Goncz, PhD  
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Fort Collins, CO 80523  
(970) 491-8186, [kgoncz@engr.colostate.edu](mailto:kgoncz@engr.colostate.edu)



## Student Information Form

Name \_\_\_\_\_  
Last First Middle

### Parents or Legal Guardian's Address

Street Address \_\_\_\_\_  
City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_  
Phone Number \_\_\_\_\_

### Emergency Contact

Name \_\_\_\_\_ Phone Number \_\_\_\_\_

### Current Address

Street Address \_\_\_\_\_  
City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_  
Phone Number \_\_\_\_\_

E-mail \_\_\_\_\_

U.S. Citizen \_\_\_\_\_ Permanent Resident \_\_\_\_\_ Not U.S. citizen \_\_\_\_\_

### NSF Diversity Reporting Information

The National Science Foundation requests such information simply to determine the diversity of students our program is attracting. It is strictly confidential and used only in aggregate form.

Gender F \_\_\_\_\_ M \_\_\_\_\_ Birthdate \_\_\_\_\_ Are you disabled? Yes \_\_\_\_\_ No \_\_\_\_\_

Ethnicity: Hispanic or Latino \_\_\_\_\_ Non-Hispanic or Latino \_\_\_\_\_

Race: Caucasian \_\_\_\_\_ African American \_\_\_\_\_ Asian \_\_\_\_\_  
Native American \_\_\_\_\_ Pacific Islander \_\_\_\_\_ Other \_\_\_\_\_

I do not wish to provide this information \_\_\_\_\_

### College or University you attend

Institution \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_

Major \_\_\_\_\_ GPA \_\_\_\_\_

Status (Next Fall): Sophomore \_\_\_\_\_ Junior \_\_\_\_\_ Senior \_\_\_\_\_

**I hereby certify to the best of my knowledge that the information furnished on this application is true and complete without evasion or misrepresentation. I understand that if found to be otherwise, it is sufficient cause for rejection or dismissal.**

Signed (Applicant) \_\_\_\_\_ Date \_\_\_\_\_

## Statement of Purpose

Describe (on 1-2 typed pages) your interest in the EUV Center REU program. Explain why you wish to participate in the program, what you hope to gain, and how this research experience will help you achieve your academic and career goals. Your statement should include a description of:

- Your specific research interests
- Any relevant research experience you have had in an academic or work setting
- Your goals beyond earning a baccalaureate degree (i.e. do you plan on attending graduate school)
- A statement about how you would benefit both the program and its participants

Please note that the statement of purpose is one of the most important parts of your application. Successful applicants demonstrate a general understanding of research conducted at the Center and can express a particular interest in one or more particular areas of study. Please include your name on your statement of purpose.