

Summer Research Experience for Undergraduates

The Engineering Research Center (ERC) for Extreme Ultraviolet (EUV) Science and Technology 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 and the University of California, Berkeley. Students participating in the REU program will participate in projects underway at one of the two institutions. Although you can express a preference for a location, the faculty responsible for the program ultimately make assignments based on the best fit.

Positions offer a 10-week research opportunity in EUV science and technology along with seminars on current EUV projects and other relevant topics as well as social activities. Students receive a stipend, as well as housing and dining assistance. The program is open to students in engineering, physics, chemistry and related fields.

Some Potential Projects:

- ✓ 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
- ✓ EUV transient absorption investigations of dynamics - molecules and materials

Application Requirements: As your reference (1 person) to mail a single (1) letter of recommendation to the REU program administrator. You will upload all other deliverables to the application website.

1. Student Information
2. Statement of Purpose
2. Letter of Recommendation
3. Copy of Official Academic Transcript

The EUV ERC REU program is funded by Award #1461231 from the National Science Foundation.



- 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: Application site opens on December 15th, 2017
Applications accepted through Feb. 15th, 2018, by 5:00 PM MST.
Notification of acceptance processed through March 1st, 2017
Program Dates: May 29th through August 3rd, 2018

Program Websites:

Program Information and Application Link: <http://euverc.colostate.edu/education/REU/REU.shtml>

