



CENTER FOR
SENSORIMOTOR NEURAL ENGINEERING

RESEARCH EXPERIENCE FOR UNDERGRADUATES

June 16 - August 22, 2015

The University of Washington Center for Sensorimotor Neural Engineering (CSNE) will sponsor a summer research program for undergraduate students on the university's Seattle campus. Students will participate in ongoing research projects with investigators and will have the opportunity to take part in training sessions designed to provide the undergraduate scientist with solid critical thinking and communication skills that will serve as a foundation for graduate study.

The goal of the CSNE is to leverage an understanding of how biological systems acquire and process information to make smarter machines, and to interface those machines more effectively with the nervous system. This approach is being used by researchers at the Center to develop engineering interventions for neurological disease and injury, as well as to augment normal neural function. Research at the CSNE is focused on reverse-engineering the sensorimotor aspects of the brain, developing neural interfaces, using neural signals to control external devices, and developing sophisticated algorithms for closed-loop control between humans and machines.

THE PROGRAM PROVIDES OPPORTUNITIES TO:

- Participate in on-going neural engineering research at the University of Washington
- Improve your critical thinking, communication, and scientific presentation skills through sessions designed for student scientists
- Learn about the emerging field of neuroethics
- Prepare and present research results to the scientific community

APPLICANTS MUST:

- Devote 40 hours per week to the program
- Attend weekly classes, seminars, meetings and other required events
- Prepare and present a research poster at the undergraduate research symposium
- Make an oral research presentation at the end of the summer
- Be a US citizen

APPLICATIONS AVAILABLE NOVEMBER 2014
<http://csne-erc.org/content/research-experience-undergraduates>

QUESTIONS? VISIT CSNE-ERC.ORG OR EMAIL liseaj@uw.edu

APPLICANTS RECEIVE A \$5,000 STIPEND FOR THE 10 WEEK PROGRAM
HOUSING IS PROVIDED AT NO COST AND TRAVEL EXPENSES UP TO \$750 ARE COVERED

COMPLETED APPLICATIONS ARE DUE **FEBRUARY 1, 2015**