



NEESreu Program • Summer 2010

Research Experience for Undergraduates

Earthquakes... tsunamis... cyberinfrastructure

This is not your typical REU...

Are you interested in changing the world around you? Do earthquakes and tsunamis excite you? Would you like to interact with large scale test equipment or sophisticated cyberinfrastructure? You can spend the summer delving into leading-edge earthquake engineering experiments at world-class facilities, while building connections with mentors and a national network of interns.

Overview The George E. Brown, Jr. Network for Earthquake Engineering Simulation (NEES) is a network of experimental sites across the country designed to enhance engineers' and scientists' potential for discovery and collaboration. The network includes state-of-the-art equipment to support physical simulations of earthquakes and tsunamis. The sites use a cyberinfrastructure to collect, store and visualize high volumes of data and access earthquake engineering simulation software using ultra-high-speed Internet2 connections. Together, these resources provide the means for collaboration and discovery that lead to innovative solutions needed to protect life and property from the hazards of earthquakes and tsunamis.

About the Program The NEESreu is a dynamic 10-week summer research program for upper division undergraduate students interested in civil engineering, computer science/engineering, seismic risk mitigation, or engineering education. Each participant will be assigned to an individual project that contributes to the goals of an existing NEES research project or to development cyberinfrastructure tools and/or educational modules. The program period runs from June through August, with exact dates depending upon location. Students receive a \$5,000 stipend inclusive of housing expenses. You will work with NEES researchers, attend virtual trainings with other NEESreu interns, and participate in enrichment activities including an orientation session at one of the

labs and the Young Researchers Symposium at the end of the summer. Video conferencing and meetings using virtual world technology will be held to further the cohort experience with fellow NEESreu students at the various research sites. Mentors will include university faculty, researchers, and graduate students.



NEES@UNevada-Reno, 4-Span Bridge Test
(sponsored by NSF CMMI-0420347)

Visit www.nees.org for more information on the laboratory sites.

Applications will be reviewed beginning March 15 and continue until program is full.

Application Requirements

- Minimum GPA for acceptance into the program is 3.0
- Upper division undergraduate status (preferred)
- NSF limits participation in the program to U.S. citizens and permanent residents of the United States

Apply online at
www.nees.org/education/resources/undergrad/