2016 Summer REU Site Program on Engineering Education Research

Department of Engineering Education
Utah State University, Logan, Utah
Sponsored by the National Science Foundation
http://www.eng.usu.edu/eed/reu/

Overview: This ten-week summer program provides undergraduate students in a science, technology, engineering, or mathematics (STEM) discipline with intensive experience in engineering education research, such as how learners' experience, background, and perception play a role when they learn engineering knowledge and skills. The program provides research experience for undergraduates (REU) and is not an internship. The program is sponsored by the National Science Foundation and hosted by Utah State University (USU) in Logan, Utah, a beautiful city nestled between two mountain ranges.

The central focus of this summer research program is on self-regulated learning (SRL). When confronted with a problem or task, a learner usually begins with generating thoughts, feeling, and actions to attain the best solution to that problem. The self-generated thoughts, feeling, and actions are called self-regulated learning. Numerous studies suggest that SRL is a significant predictor of a learner's academic performance. This ten-week program consists of a nine-week research on the USU campus (starting on June 6, 2016) and subsequent one-week at-home activities with research assignments. During the program, REU students will work with faculty mentors and their graduate students on four emerging research projects that focus on self-regulated learning in engineering education. REU students will participate in workshops, a research symposium, and a rich variety of social and recreational activities.

Abundant summer outdoor activities exist in Utah and nearby states, including numerous national parks and monuments, such as Yellowstone, Grand Canyon, Zion, Bryce, and Arches National Parks. Logan is among the best college town in the nation. From remote areas accessible only to hardy backpackers, to beautiful views enjoyed on a leisurely walk, Logan's wide spaces are a patchwork of scenic, recreational, and historic venues. Mountain hiking, biking, and rock climbing are among popular summer sports.

Stipend and Allowance: Each REU student will receive up to $7,500 stipend and allowance, including a stipend of $5,000, up to $700 for round-trip airfare ticket (or up to $700 for mileage reimbursement if driving his/her personal vehicle) to travel between their distant locations and USU, and a housing and meal allowance of $1,800. The cost of living in Logan is low.

Eligibility Requirements:

1. Must be at least 18 years old by the time the program starts on June 6, 2016.
2. Must be a citizen, national, or permanent resident of the United States.
3. Must be an undergraduate student who will not graduate before September 1, 2016 (in either 4-year or 2-year schools) with a good academic standing in a professional undergraduate program in science, technology (including engineering technology), engineering, or mathematics.
4. Demonstrated interest in engineering education research.

Students from institutions with limited or no research opportunities, or students from underrepresented groups, such as women and racial minority groups, are particularly encouraged to apply.

Application: The deadline of application is February 1, 2016. Submit your application online via http://www.eng.usu.edu/eed/reu/

Contact: If you have any questions, please contact Dr. Ning Fang at ning.fang@usu.edu or Dr. Oenardi Lawanto at olawanto@usu.edu.