Research Experiences for Undergraduates in Assistive Technologies for People with Disabilities

Department of Computer Science and Engineering
The University of Texas at Arlington

Arlington, TX

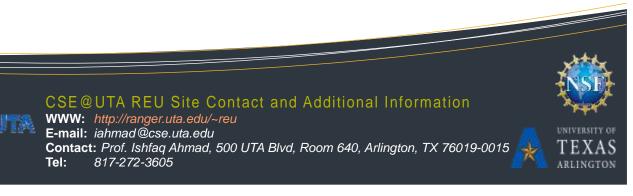## Summer 2019 Research Internships

Eight research assistantships are currently available for qualified undergraduate sophomore, junior and senior computer science and engineering students to participate in research in the field of assistive technologies for people with disabilities. The program will be conducted at an NSF supported REU Site in the Department of Computer Science and Engineering at the University of Texas at Arlington (CSE@UTA). In this project, the CSE Department, in partnership with several other departments at UTA, will offer an Research Experience for Undergraduates (REU) program focusing on assistive technologies (AT) for people with disabilities (PWD). The proposed theme encompasses innovative and novel topics that can help PWD meet barriers of different kinds - attitudinal, architectural, and technological - in accessing employment, navigating public spaces, freely communicating, and living independently. During this summer, each student will be working in a multi-disciplinary setting and exposed to innovative and novel inter-disciplinary projects through research and prototyping. The REU participants will work on computer programming, algorithms, sensors, data analytics, machine learning, computer vision, sensors, sign language, facial recognition, emotion and behavior analysis, smart care, augmented reality, data analytics, robots, human-machine interaction.

Stipend
Each participant will receive a $5,000 stipend and an allowance of $1,600 to cover housing and other subsistence costs. Students from a University other than UTA will also receive a travel supplement of $600 to compensate for added travel expenses.

Program Activities
The REU program runs for 10 weeks from June 10 to August 16, 2019. In this time, students will be involved in a training course and embedded in an active research program. During this program, participants will learn research, presentation, and writing skills, obtain a background in health technology and care research, and conduct their own research project under the supervision of computer science and nursing faculty. If desired, the student participants will have the opportunity to utilize the summer program to gain course credit.

Application Requirements
To qualify for the program, applicants have to be:
- American citizen or permanent resident
- Undergraduate student in computer science, engineering, health informatics, or related field
- Junior or Senior in Fall 2019

Application Schedule
- *March 15, 2019:* Priority Application Deadline
- *April 17 – April 26, 2019:* Notifications of Acceptance are sent out
- *April 30, 2019:* Declined Applicants informed

Application Process
Applications can be submitted electronically or by mail and consist of three components:
- Application form
- Transcript (unofficial is sufficient)
- Two letters of recommendation
  To Email: iahmad@cse.uta.edu

Detailed information and on-line application at:
http://ranger.uta.edu/~reu/Application.html

CSE@UTA REU Site Contact and Additional Information
WWW: *http://ranger.uta.edu/~reu*
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