

# Research Experiences for Undergraduates in Intelligent Environments for Healthy Living and Aging in Place

Summer 2014

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## **Overview:**

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 intelligent environments for health and aging. 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). The student participants will investigate problems related to sensor systems, intelligent data management, smart care support, unintrusive health monitoring, and assistance technologies in the context of non-invasive technologies for health self-management and for aging-in-place. During this summer, each student will be working in a multi-disciplinary setting under the supervision of Computer Science and Nursing faculty and in collaboration with graduate and undergraduate students. The projects will be performed in the larger context of a multi-disciplinary research project, *SmartCare*, aimed at designing software and hardware systems to enhance care, support and encourage healthy living, facilitate remote health monitoring and diagnosis, improve the quality of life for persons with disabilities or chronic conditions, and facilitate aging-in-place.

## **Program Schedule and Activities:**

This REU program consists of a 10-week Summer session, from June 2 to August 8, 2014. The student participants will have the opportunity to utilize the summer program to gain course credit by enrolling in a 3-credit hour seminar course during the 2014 Summer session at UTA. Non-UTA students will be required to enroll at UTA as summer students and are encouraged, if they desire to do so, to arrange, through their home institutions, for transfer of these credit hours towards their degree programs. During this program, the students are expected to participate in both individual and team research activities, report on their progress, and attend weekly group meetings.

## **Stipend:**

Each recruited student will receive a stipend of \$5,000 and an additional subsistence allowance of \$1500 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 additional travel expenses. Upon acceptance the REU program will supply each student with the necessary documentation to enroll and, if so desired, to register for the summer course and assistance will be available to help in the search for accommodations. Students who drop out of the program, or whose assistantships are terminated due to unsatisfactory performance, will not receive the remainder of their stipend from the point of termination of their research assistantship.

## **Selection Criteria & Application Package:**

Only computer science or computer engineering majors (or those in a closely related field) who are going to be a junior, or senior during the 2014-2015 academic year are eligible to participate in the program. Applicants must be U.S. citizens or Permanent Residents. A minimum GPA of 3.0 is required. Talented students, whose GPA is less than (but close to) 3.0 will also be considered. These students are asked to provide a detailed statement explaining the reasons for their current GPA.

Interested applicants need to submit a completed application form, a copy of their current transcript issued by the university (an unofficial copy is sufficient for the application but an official copy will be required from accepted applicants once they have been selected), and three letters of recommendation (preferably by the applicant's academic professors and advisors). The applicants will be ranked based on their GPA, academic and extra-curricular accomplishments, experience, courses taken, and recommendation letters. If necessary for the decision, the top twenty finalists will be interviewed, and twelve students will be selected. Women, minorities, or members of any protected class are strongly encouraged to apply.

### **Deadline and Submission Procedure:**

Applications can be submitted electronically on-line or by email, or using conventional mail. In both cases, a priority application deadline of March 15, 2014 and a final application deadline of March 29, 2014 applies for the receipt of complete applications. Applications will be accepted until the final application deadline. However, offers to highly qualified candidates will be made starting after the priority deadline and continued until all positions are filled.

For electronic submissions recommendation letters should be sent directly by the reference writer to [reu@cse.uta.edu](mailto:reu@cse.uta.edu). All other materials should be sent in one e-mail to the same address ([reu@cse.uta.edu](mailto:reu@cse.uta.edu)).

For paper applications, please submit your complete application package (including reference letters) to:

Manfred Huber  
University of Texas at Arlington  
Department of Computer Science and Engineering  
Box 19015  
Arlington, TX 76019-0015  
Phone: 817-272-2345  
Fax: 817-272-3784  
Email: [reu@cse.uta.edu](mailto:reu@cse.uta.edu)