



The Department of Computer Science at the University of Texas at Dallas and the National Science Foundation



Summer Research Experiences for Undergraduates

Verification and Validation for Software Safety

June 1 – July 26, 2011

<http://paris.utdallas.edu/reu>

Application deadline: March 15, 2011

Eligible applicants are those who have an interest in pursuing a graduate education, are currently enrolled in an accredited undergraduate institution, and are U.S. citizens or permanent residents. Incoming seniors will be given preference, but sophomores and juniors with strong academic records will also be considered. Special welcome is extended to students from underrepresented groups (women, minorities, and persons with disabilities) and academic institutions with limited research opportunities. Selected participants for this NSF REU program will receive a grant to pursue a summer research opportunity with a faculty member at the Computer Science Department of the University of Texas at Dallas. Included will be a \$3,600 stipend, a housing allowance, and a travel reimbursement for those from outside the Dallas metro area.

The focus of the research is on “**verification and validation for software safety**,” however, the technology and research skills learned by the students have general applicability to research and practice in their future studies. We provide a close collaboration with our industry partners. In addition to work on assigned research projects at the university, special field trips to Raytheon, Lockheed Martin Aeronautics Company, and EDS/HP will be arranged to help the students better understand how software safety is verified and validated in practice for real-life applications. This also gives students a chance to directly communicate with practitioners to receive a first-hand account of the work environments and lifestyles in the industry.

Qualifications:

- US citizens or permanent residents
- Major in Computer Science or Software Engineering
- Proficiency in C/C++, FMEA, FTA, and UML is preferred

Industry Advisors:

- David Struble (Raytheon Network Centric Systems)
- Mike Siok (Lockheed Martin Aeronautics Company)
- Tom Hill (EDS, an HP Company)

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