Research Experiences for Undergraduates (REU 2011)

Department of Industrial Engineering
Department of Computer Science
at Texas Tech University
Funded by the National Science Foundation
Grant No: CNS-1005212

Topic: Software Engineering and Service Composition

To Apply, go to http://www.cs.ttu.edu/reu/reu_index.php

Program Dates:
May 23 -- July 30, 2011

Application Deadline:
March 11, 2011

Notification of Decision:
April 4, 2011

Location:
Lubbock, TX

Funding (Each participant):
a stipend of $5,000;
university residential housing;
travel expenses;

Contact:
Prof. Susan Urban
T: 806-742-2484
F: 806-742-3411
Email:susan.urban@ttu.edu

Program Description:
The development of software and service oriented systems in a wide variety of application domains can serve as a broad spectrum of means for improving software development. Projects include:
- dynamic techniques for service composition and recovery in a service-oriented environment (Dr. Susan Urban);
- construction of a self-managed embedded software system using software specifications (Dr. Michael Shin);
- software development for autonomous robots and agents (Dr. Mohan Sridharan).

The undergraduate student research topics include language development, software tool design and implementation, application development in a variety of application domains to demonstrate applicability, and measurement of the improvements.

Eligibility:
- US citizens or US permanent residents.
- women and underrepresented minority undergraduate students are encouraged
- undergraduate computing degree program or related major with at least one year of courses taken within the program of study
- proficient in at least one computer programming language.