ERWiN

An NSF REU Site for Experimental Research on Wireless Networking

University of Notre Dame
Summer Undergraduate Research

May 26 – July 31, 2009

Computer Science and Engineering

Co-Directors: Christian Poellabauer and Aaron Striegel

The Department of Computer Science and Engineering at the University of Notre Dame will conduct a ten-week summer undergraduate research program in the area of Experimental Research on Wireless Networking (ERWiN). Experience life as a graduate student, participate in cutting-edge research, develop and experiment with systems on state-of-the-art equipment, and partake in extra activities such as site visits, weekly seminars, and social events.

Students continuing college enrollment in Fall 2009 with interest in wireless networking and mobile computing are invited to apply. Women and minority students are particularly encouraged to apply. Participants must be U.S. citizens or U.S. permanent residents.

Research Projects

Each undergraduate will work with a faculty member on a research project in the area of wireless networking. Specific projects include:

★ Wireless network protocols
★ Mesh and ad-hoc networks
★ Wireless sensor networks
★ Location-aware mobile systems
★ Indoor and outdoor localizations
★ Mobile ad-hoc networks
★ Mobile multimedia
★ Visualization and GUI design
★ Cooperative robot teams
★ Energy efficient wireless devices
★ Novel cell-phone applications
★ Context-aware systems

Program Highlights

★ $4500 stipend and $1500 towards housing
★ State-of-the-art research facilities
★ Hands-on research alongside faculty and grad students
★ Weekend outings and social events
★ Site visits and excursions
★ Poster session with awards for best presentations
★ Exposure to career options following college graduation

Additional information and application instructions are available at:

http://www.cse.nd.edu/~darts/reu.html

Deadline for full consideration: March 13, 2009

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