



Research in Industrial Projects for Students (RIPS)

June 24 – August 24, 2007

IPAM is pleased to debut in 2007 a version of its Research in Industrial Projects for Students (RIPS) in **Beijing, China**, in addition to its original RIPS held on the UCLA campus.

Overview

The Research in Industrial Projects (RIPS) Program gives undergraduate students an opportunity to work on real-world research projects proposed by companies and national labs. Each RIPS team is comprised of four students, a faculty mentor, and an industry mentor. In the nine weeks, students learn the latest mathematical techniques relevant to their project and present their work to their sponsors. Industry mentors provide regular contact between the team and the sponsor, monitoring and helping to guide student work.

Projects

Projects have a major mathematical component and pose an interesting challenge to talented undergraduates. Recent projects have ranged from how to do a physics-based animation of a lava lamp, how to stitch together two images, using microarrays to analyze cancer data, statistical data assimilation methods for weather data, modeling particle transport phenomena in reactors, and designing missions to the moons of Jupiter.

RIPS-LA

Open to students of all nationalities, RIPS-LA is held on the UCLA campus. RIPS 2006 sponsors were Arete, Hewlett Packard, Jet Propulsion Lab, Los Alamos National Lab, Lawrence-Livermore National Lab, NASA Goddard Space Flight Center, Pixar Animation, Symantec, and TimeLogic – but new industrial sponsors join the RIPS Program each year.

RIPS-Beijing

In collaboration with Microsoft Research Asia (MSRA), ten U.S. students and ten Chinese students will work in mixed teams on projects sponsored by an MSRA research group. English is the only language required for participation. U.S. citizens and permanent residents may apply through IPAM; Chinese students will apply through MSRA.

Financial support

All participants will receive a stipend, housing, meals, and funding for travel to and from the RIPS site.

Application

Undergraduate students including graduating seniors must apply online by February 15. (The application will be available Nov. 1.) Encouraging the careers of women and minority mathematicians and scientists is an important component of IPAM's mission and we welcome their applications. More information is available online.

www.ipam.ucla.edu/programs/rips2007



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