



## Research in Industrial Projects for Students (RIPS)

June 22 – August 22, 2008

RIPS will be held on the UCLA campus again next summer. Students of all nationalities as well as graduating seniors are eligible to apply. Applications are due February 15.

### 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 Sponsors

Recent RIPS sponsors include Accelrys, Amgen Inc., Areté Associates, Cedars Sinai, Jet Propulsion Lab, Los Alamos National Lab, Lawrence Livermore National Lab, Pixar Animation, and Symantec – but new industrial sponsors join the RIPS Program each year.

### Financial support

All participants will receive a stipend, housing, meals, and funding for travel to and from Los Angeles.

### Application

Undergraduate students including graduating seniors must apply online by **February 15**. 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 and the application is available online.

[www.ipam.ucla.edu/programs/rips2008](http://www.ipam.ucla.edu/programs/rips2008)



IPAM is an NSF funded institute

