



Institute for Pure and Applied Mathematics
University of California, Los Angeles

Presents a Special Undergraduate Program

Research in Industrial Projects for Students ("RIPS")

June 25, 2006 – August 25, 2006

The Institute for Pure and Applied Mathematics is pleased to announce its summer research program for undergraduates: Research in Industrial Projects for Students (RIPS) for 2006.

- Students work in teams of 4 on real-world projects for 9 weeks. Projects are selected to have a major mathematical component and to be something that will 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, how to analyze cancer data using microarrays, statistical data assimilation methods for weather data, modeling particle transport phenomena in reactors, and designing missions to the moons of Jupiter.
- Sponsors for 2005 were Areté, Hewlett Packard, Jet Propulsion Lab, Lawrence-Livermore National Lab, Los Alamos National Lab, Microsoft Research, Pixar Animation and TimeLogic.
- Each project has a faculty mentor and an industry mentor to provide guidance and to connect RIPS students with the latest mathematical techniques.
- The Institute for Pure and Applied Mathematics occupies a Frank Gehry building centrally located on the UCLA campus in the Westwood neighborhood of Los Angeles, California.
- RIPS students are admitted from all over the US and the world. International students are eligible for RIPS.
- RIPS funding has come from the National Science Foundation, the National Security Agency and our industrial sponsors.
- Please go to our website to view comments from recent RIPS students, descriptions of recent projects and for an online application.
- Applications are due February 15, 2006.

We strongly encourage inquiries from interested undergraduate, faculty advisors and sponsoring organizations for Summer 2006. Faculty mentors and sponsoring organizations can email us to express their interest. Encouraging the careers of women and minorities is an important component of IPAM's mission. An online application for participants will be available on our website. If you have any program related questions please send an email to rips2006@ipam.ucla.edu

For more information please visit our website:
www.ipam.ucla.edu/programs/rips2006/rips2006_poster.pdf