Center of Integrated Nanomechanical Systems

2009 Undergraduate Internship Program

University of California, Berkeley

June 22 – August 14

Be in the vanguard of cutting-edge nanoscience research

As a participant in our program, you will:

- Work directly with **leading scientists** in this exciting field of research
- Focus on the most **important and compelling topics** in nanotechnology
- Gain direct research experience that will **prepare you for a career in science**

Program participants receive:

- Summer stipend – $4,000 for 8 weeks (June 22–August 14)
- Room and board – UC dorm plus full meal plan
- Travel allowance (limited funds available)

Examples of Past Summer Internship Research Projects

Topic	Principal Investigator
Fundamentals and Research in Scanning Tunneling Microscopy	Prof. M. Crommie
Quantitative Single-Cell Analysis of Receptor Dynamics and Chemotactic Response on a Chip	Prof. L. Lee
Creating Receptor-Imbedded Polymer Coatings for an Electronic Nose	Prof. S.W. Lee
Controllability of Deposition of Near-Field Electrospinning	Prof. L. Lin
WetFet˜A High-k Gate Dielectric Transistor	Prof. T.J. King Liu
Galvanic Displacement of Platinum Clusters onto Silicon Wafers	Prof. R. Maboudian
Creating a Homogenous Molecular Substrate Tethered by Poly (ethylene glycol) for Gas Receptor Screening	Prof. A. Majumdar
Ferroelectric Characterization of Inkjet Printed PVDF Thin Films	Prof. R. Ramesh
Synthesis, Purification and Utilization of Boron Nitride Nanotubes	Prof. A. Zettl

To Apply

- Send your resume, including 3 references (name and email address), transcripts (unofficial okay), and a 350-word essay on why you want to participate in the COINS internship program (include your area of interest in nanoscience) to: coins_urap@calmail.berkeley.edu
- Students from underrepresented communities are encouraged to apply
- Must be a US citizen or permanent resident
- **Application deadline: February 6, 2009**
- Notification of acceptance will be sent by March 1, 2009

About the Center of Integrated Nanomechanical Systems (COINS)

COINS' mission is to inspire and realize revolutionary applications involving molecular transport, replication, and energy conversion using nanomechanical technology. Specifically, the technical focus of COINS is to develop, in parallel, two closely related nanosensor systems: (1) a new Personal And Community-based environmental MONitoring (PACMON), and (2) a chemical/biological sensing with integrated communication and power for tagging, tracking, and locating applications (TTL).

To learn more about COINS, visit nano.berkeley.edu/coins.