

June 1 - August 7, 2009

CU-Boulder Department of

Chemical and Biological Engineering

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Are you looking for a summer research experience that is both professionally and personally rewarding?

The Department of Chemical and Biological Engineering at the University of Colorado will be conducting a ten-week summer research program for undergraduates in chemical engineering, chemistry, biochemistry, environmental engineering, bioengineering, materials science, and related fields.

Undergraduates will be selected for this program via a competitive process based on their academic record, letters of recommendation, personal statements, and accomplishments. This program is restricted to U.S. citizens or permanent residents.

Research Projects

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

- degradable orthopaedic biomaterials
- ultrathin polymer film growth
- biotechnology membrane separations
- atomic layer deposition
- liquid-crystal biosensors
- cross-linked liquid crystal assemblies
- zeolite membrane separation
- catalysis
- microparticle flows and synthesis
- polymers for microfluidic devices
- gas separation using ionic liquids
- photopolymerized microcomposites
- microparticles containing viruses
- nano-patterned molecular monolayers
- photopolymerized hybrid copolymers
- semiconductor gas sensors

Program Highlights

- weekly seminar
- weekly luncheons with faculty
- poster session
- graduate and post doctoral research mentors
- social events: rafting, hiking, Shakespeare festival
- financial provisions: \$4,500 stipend/\$2,000 food/lodging/travel
- modern apartment-style housing available
- minutes from downtown Boulder, 45 minutes from Denver
- access to public recreational trails

Interested students should submit a completed application form along with the requested supporting materials. Additional information and applications are available at:

<http://www.colorado.edu/che/reu/>

**Application packets must be postmarked by
March 1, 2009**