

June 1 - August 6, 2010

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, 2010**