I hear…and I forget
I see…and I remember
I do…and I understand

The ITL Program won the **2005-06 Diversity Service Recognition Award** from the CU-Boulder Chancellor’s Advisory Committee on Minority Affairs. ITL was selected for its commitment to creating a more diverse student population at CU-Boulder and for enriching the exposure of K-12 students to engineering, reaching out in particular to students of color, young women, and first-generation college-bound students.

“Scientists investigate what is; they discover new knowledge by peering into the unknown…

**Engineers** create what has not been; they make things that have never existed before…”

— Joe Bordogna, Deputy Director, National Science Foundation

Named a **Program of Excellence** by the Colorado Commission on Higher Education, the ITL Program provides summer engineering workshops and classes to extend hands-on learning to K-12 teachers and students, as part of its integrated K-16 engineering program. See its extensive K-12 curricula at **TeachEngineering.org**.

Integrated Teaching & Learning Program and Laboratory

College of Engineering and Applied Science
University of Colorado at Boulder

“…one of the finer teaching environments on the planet.”

— Hewlett-Packard

Engineering Educator Newsletter, Fall ’97

Visit the ITL website for more information:

**http://itll.colorado.edu**
Creating Tomorrow’s Engineers

The Integrated Teaching and Learning Program at CU-Boulder is a nationally-recognized engineering education leader. The Program was named one of three finalists for Boeing’s Outstanding Educator Award in 1996 and 1997. In 2000, it received the inaugural Recognition Award from the Corporate and Foundation Alliance, a group of 35 engineering and technology corporations and foundations working with the National Science Foundation to recognize the country’s top undergraduate science, math, engineering and technology educational programs.

Using inter-disciplinary, hands-on approaches and incorporating leading-edge technology, engineering students at CU-Boulder gain the understanding and confidence to succeed. The Program reflects the contemporary world of professional engineering by supporting students, working in teams on real-world projects, to learn the open-ended problem-solving skills critical to their career paths.

Program components include a first-year design and build course, sophomore- and junior-level experimental hands-on learning courses, an invention and innovation course, design expos, and senior design projects.

The ITL Laboratory is unlike any other educational facility in the world. Its curriculum-driven design supports a variety of learning styles and features first-year design studios, an active learning center, a computer network integrating all experimental equipment throughout two large, open laboratory plazas, fabrication “shacks,” group work areas, and student-centered, technology-rich electronics and manufacturing centers.

The ITL Laboratory itself is a teaching tool with exposed engineering systems — described in 11 interpretive tour signs. A collection of interactive exhibits and kinetic sculptures capture the interest of budding engineers of all ages. Annually, thousands of K-12 students and teachers visit the ITL Laboratory, many to participate in hands-on, ears-on and minds-on K-12 engineering camps, events and workshops.