



College of Engineering Profile

2007-2008

The College of Engineering at Colorado State has a strong tradition of excellence in science and engineering. The vision of the College of Engineering is to be nationally and internationally recognized for excellence and innovation in education, research, professional services, and outreach. We will serve society by solving problems of global importance and through contributions to national and international economic development.

Departments

- Atmospheric Science
- Chemical and Biological Engineering
- Civil and Environmental Engineering
- Electrical and Computer Engineering
- Mechanical Engineering

Programs of Study

The college announced the state's first School of Biomedical Engineering this year and also received approval for a new concentration in Engineering Education. Our undergraduate programs are accredited by the Accreditation Board for Engineering and Technology.

Bachelor's Degree Programs:

- Chemical and Biological Engineering
- Civil Engineering
- Computer Engineering
- Electrical Engineering
- Engineering Science
- Environmental Engineering
- Mechanical Engineering

Master's and Doctoral Degree Programs:

- Atmospheric Science
- Bioengineering
- Chemical Engineering
- Civil Engineering
- Electrical Engineering
- Mechanical Engineering

Interdisciplinary Programs:

- Certificate in Biomedical Engineering
- Master of Engineering degree

Residence Life

Colorado State's new Engineering Academic Village opened this fall, offering students an integrated academic and co-curricular experience with valuable opportunities for greater faculty-student interaction.

Faculty

- New positions in all five of our departments have increased our faculty by 25 percent in two years; currently there are 99 tenured or tenure-track faculty members in the college.
- All faculty members hold terminal degrees (Ph.D.).
- Four faculty members have been elected to the National Academy of Engineering.
- Three of the 12 University Distinguished Professors are in the college.
- Faculty/student ratio averages 15 to 1 for undergraduates and 6 to 1 for graduate students.

Other Employees

- Ninety percent of the administrative professional staff directly supports the research program as research scientists, research associates, or research coordinators.
- Assistant deans, directors, coordinators of advancement programs, and academic staff support the College of Engineering enterprise.

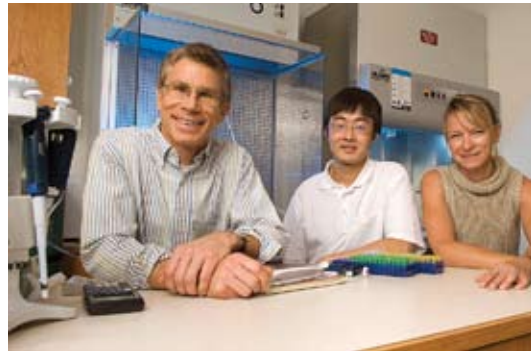
Enrollment and Degrees Awarded

Colorado State's College of Engineering is an international leader in educating engineers for the 21st century, developing the next generation of innovators, entrepreneurs, and corporate and civic leaders.

- Undergraduate enrollment for Fall 2007 was 1463 students.
- Graduate student enrollment for Fall 2007 was 538, with foreign nationals comprising 32 percent of that total.
- Approximately 300 College of Engineering undergraduates annually earn B.S. degrees, and 150 students earn graduate degrees annually.
- International students are enrolled in our undergraduate and graduate programs across all disciplines.
- Twelve percent of undergraduate students in our college are ethnic minorities, and 15 percent are women. Ninety-one of our undergraduates are foreign nationals.
- Twenty-three percent of our graduate students are women, and 6 percent are ethnic minorities.
- The average entering freshman ranks in the top 20th percentile and has a grade-point average of 3.75 and an average ACT composite score of 26 or SAT combined score of 1195.

**Colorado
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<http://www.engr.colostate.edu>



Research

Strong collaborations between the scientific and engineering communities at Colorado State provide a firm foundation for world-class research and educational programs.

- More than \$50 million in research is conducted annually in the College of Engineering, averaging \$500,000 per faculty member. With 9 percent of CSU's faculty, the college is responsible for about 20 percent of CSU's research expenditures.
- Colorado State is the lead institution for the NSF Center for Extreme Ultraviolet Science and Technology.
- CSU is a collaborating institution in the NSF Center for Collaborative Adaptive Sensing of the Atmosphere.
- CSU leads the NSF Science and Technology Center for Multi-Scale Modeling of Atmospheric Processes.
- The Colorado Center for Biorefining and Biofuels, a collaboration between Colorado universities and industry, launched in Fall 2007.
- CloudSat, a satellite mission conceived by CSU scientist Graeme Stephens, celebrated its first anniversary as the world's most sensitive cloud-profiling radar in orbit.
- The college is developing a series of research clusters that support local, regional, and state economic development initiatives and interdisciplinary research.

Programs of Research and Scholarly Excellence

The College of Engineering is home to four of Colorado State University's 16 Programs of Research and Scholarly Excellence (PRSE):

- Department of Atmospheric Science
- Center for Extreme Ultraviolet Science and Technology
- Engines and Energy Conversion Laboratory
- Environmental and Water Resources Engineering Program.

College of Engineering faculty members participate in the interdisciplinary Musculoskeletal Research program, another designated PRSE.

Economic and Workforce Development

The creation of economic development initiatives is an essential element in our strategic plan.

- We engage the private sector in our technology transfer process, realizing technological solutions that truly have global impact and expanding our contributions to economic prosperity through workforce development, translational research, and start-up companies.
- Examples of engineering technology transfer include Envirofit, Solix Biofuels Inc., AVA Solar, DuPont, and JMAR Technologies Inc.
- College of Engineering graduates receive job offers from a wide range of companies, agencies, and academic institutions.
 - 82 percent have job offers 30 days after graduation, and 93 percent within 90 days.
 - 58 percent participate in an internship, research, or experiential learning program.
 - 70 percent are hired in the state of Colorado; 4 percent take international positions.
 - 13 percent go directly to graduate school.
 - Engineering's Career Liaison advises 650 students per academic year.

International Programs

The College of Engineering has made a strong international impact in research and education.

- CSU faculty helped establish the Peace Corps and the Asian Institute of Technology.
- A new degree concentration in International Engineering has been established.
- Our students engage in international education, service, and field projects.
- Our faculty is active in numerous international research, teaching, and outreach programs.

Alumni

The College has 14,483 living alumni residing around the world.

Scholarships, Fellowships, and Internships

More than 220 graduate and undergraduate scholarships and fellowships are awarded annually.

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