

Chemical Engineering

Degrees Offered

- Bachelor of Science in Chemical Engineering
- Master of Science in Chemical Engineering
- Master of Science in Environmental Engineering
- Master of Project Engineering and Management
- Ph.D. in Chemical Engineering
- Ph.D. in Environmental Engineering

Elective Focus Areas

- Classical Chemical (Process) Engineering
- Materials Engineering
- Bioengineering
- Environmental Engineering

Accreditation

ABET (Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology)

Companies that have recently provided internships and permanent employment

- 3M
- Air Liquide
- Cargill
- Celanese
- Chevron Texaco
- Conoco Phillips
- Dow Chemical
- BP America
- Monsanto
- Puget Sound Naval Shipyard
- GTC
- Semitool
- Smurfit Stone Container
- Micron
- FMC Corp.

Undergraduate Admission Requirements

1. GPA - freshman: 2.5; transfer: 2.0
2. SAT is suggested, but not required, for international students
3. TOEFL: 195/525

Graduate Program Requirements

1. GPA: 3.0
 2. GRE: Contact department
 3. TOEFL: 213/550
- E-mail: che@coe.montana.edu
www.montana.edu/gradstudies/depts_ce.shtml

MONTANA STATE UNIVERSITY ♦ BOZEMAN

Marks of Excellence

- Four winners of the nationally prestigious Goldwater Scholarship in recent years have been chemical engineering students at Montana State University.
- The Chemical Engineering Department at Montana State University has a long history of producing first-class graduates ready for productive engineering careers. The department, working with an Industrial Advisory Committee, consistently adapts the programs to meet changing professional needs.
- New laboratories in the engineering building provide quality facilities for undergraduates and graduates, including opportunities for research with world-class researchers in bioremediation of heavy metals, effectiveness of antibiotics against infections, biobarriers to control pollution and reactions of hypothermal oxygen ions at the MSU **Molecular Beam Facility**.

Historically, chemical engineering graduates have commanded the highest starting salaries of any bachelor's degree graduates.

—MSU Career Services Survey

Services For Students

- Four focus areas are available, allowing each chemical engineering student to explore an area of specific interest. These focus areas include traditional process engineering, materials science and engineering, bioengineering, and environmental engineering—each a potential career area for chemical engineering graduates.
- The department has a tradition of involving undergraduate students in ongoing research projects with the faculty. This is one way the department provides opportunities for professional development. Another is provided through our industrial relations program that opens doors to industrial experience for students during summer internships. These summer opportunities are with a wide range of international, national, and regional firms such as Air Liquide, 3M, Cargill, Micron, BP, Conoco Phillips, Celanese, and Dow.



Chemical engineering students work in the Conoco Chemical Process Laboratory at MSU.

Department of Chemical Engineering

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The College of Engineering



Majors

- Bio-Resources Engineering
- Chemical Engineering
- Civil Engineering
- Computer Engineering
- Computer Science
- Construction Engineering Technology
- Electrical Engineering
- Industrial and Management Engineering
- Mechanical Engineering
- Mechanical Engineering Technology

Competitive Edge

An MSU engineering education is a good value. Compared to annual undergraduate tuition at MSU,

- tuition at MIT costs 8 times more
- tuition at Stanford costs 7 times more

Accreditation

All engineering programs are accredited by Commissions (EAC or TAC) of the Accreditation Board for Engineering and Technology (ABET). Computer Science has been accredited by the Computer Science Accreditation Board—a recognition that has been earned by just 10 percent of all computer science programs in the U.S.

MSU engineering students achieve one of the highest passing rates on the Fundamentals of Engineering Exam in the nation.

- MSU's average pass rate over the past 10 years: 92 percent
- National average: 75 percent



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Profile of Achievement

Ramon Costa (from Spain) and Dipali Patel (from Tanzania) met as undergraduate engineering students at MSU. After working for a few years in Spain, and getting married, they are both back at MSU and eager to share their experiences with you.



"My wife Dipali and I graduated from MSU in 1999 in electrical engineering and industrial and management engineering, respectively. We had such a great time and awesome learning experience here at MSU that we decided to come back to graduate school in 2002 for our master's in industrial and management engineering. If the first time was great, the second is even better." —Ramon Costa

Best of Both Worlds

MSU's College of Engineering really does offer the best of both worlds: a nationally recognized education in a small town atmosphere. Here you will find a program large enough for your highest aspirations, and personal enough to appreciate your individuality.

Your professors will know your name, where you are from, your interests and what inspires you. At the College of Engineering, teaching is our top priority. You will receive individual attention in small classes. (Average class size for lectures and seminars is just 36 students. For labs, just 25.) And, unlike at larger universities, our faculty is available to provide help outside of class.

Our \$23 million Engineering and Physical Sciences building will give you the hands-on experience you'll need to keep up with industry and technology. Plus, with the complex's satellite uplink/downlink technology, you will be able to tap into resources across the U.S.

Opportunities Beyond the Classroom

Each year as many as 40 ambitious undergraduate students in math, engineering and science find a place to pursue their interests in the **Center for Biofilm Engineering**—one of only 18 Engineering Research Centers in the U.S. established by the National Science Foundation. The center brings MSU faculty and students together, in small teams, with representatives from companies such as Conoco and Proctor & Gamble to find ways to control the effects of biofilm bacteria growth in medical, industrial and environmental systems. Additional internship and research opportunities are available at the **Western Transportation Institute** and at the **Montana Manufacturing Extension Center**.

College of Engineering

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