

Civil Engineering

Degrees Offered

- Bachelor of Science in Civil Engineering
 - Bio-Resources Engineering Option
- Bachelor of Science in Construction Engineering Technology
- Master of Science in Civil Engineering
- Master of Science in Environmental Engineering
- Master of Construction Engineering Management
- Ph.D. in Engineering
 - Civil Engineering Option
 - Environmental Engineering Option
 - Applied Mechanics Option

Students specializing in structural engineering, environmental engineering, transportation engineering or water resources engineering may participate in the concurrent B.S./M.S. program, which enables students to complete both a bachelor's and a master's degree in five years.

Accreditation

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

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: cedept@ce.montana.edu
www.montana.edu/gradstudies/depts_civil.shtml



MONTANA STATE UNIVERSITY ♦ BOZEMAN

Marks of Excellence

Civil Engineering is the largest undergraduate program in the College of Engineering at Montana State University, with over 620 students. The graduate program has 70 students pursuing master or doctoral degrees.

The department's affiliations with the **Center for Biofilm Engineering** and the **Western Transportation Institute** enable undergraduate students to participate in research activities. The department's internship program is among the strongest at the university.

Civil engineering students participate in the following professional organizations:

- American Society of Civil Engineers (ASCE)
- Bio-Resources Student Club (BREN Club)
- Association of General Contractors (AGC)
- Institute of Transportation Engineers (ITE)
- Montana Association of Registered Land Surveyors (MARLS)
- Chi Epsilon and Sigma Lambda Chi (honor societies)

Services for Students

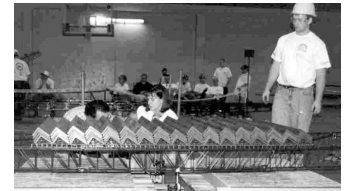
Many students receive scholarships from sources outside the department. Endowments provide \$70,000 per year to students.

The department offers a new pre-professional program to its students to ensure that they are in the right degree program before they have taken courses that may not be relevant in other majors. Freshmen and transfer students are admitted into the professional program after they complete aptitude-indicating courses at the freshman and sophomore levels.

All undergraduates in the department are assigned an academic advisor when they enter the program. Academic advisors help students choose and schedule courses, fill out paperwork for graduation, advise on scholarships and undergraduate work opportunities and help students over other hurdles in the academic path.

Career Opportunities

Civil engineering and construction technology graduates compete well for jobs, with nearly 100 percent employment. Many students receive multiple job offers prior to graduation. Students completing the bachelor's programs can expect starting annual salaries in the U.S. between \$35,000 and \$40,000.



MSU students compete at the ASCE Steel Bridge Competition.

Department of Civil 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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