Civil & Environmental ENGINEERING

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MISSISSIPPI STATE UNIVERSITY™

Civil & Environmental ENGINEERING

Preparing engineers for the challenges and discoveries of the 21st century

MISSISSIPPI STATE UNIVERSITY™
JAMES WORTH BAGLEY COLLEGE OF ENGINEERING

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What is Civil & Environmental ENGINEERING?

The efforts of civil and environmental engineers help to define the quality of life around the world through both public and private enterprises. The work of civil and environmental engineers interacts with many aspects of society, including water resources, environmental sanitation, intermodal transportation, structures and many other parts of the infrastructure of modern life. These projects help promote public safety, foster economic and community development and raise the standard of living for populations across the globe.

A career in civil and environmental engineering can often offer both personal and professional fulfillment and opportunities for public stewardship.

Why choose Civil & Environmental ENGINEERING @ MSU?

- **Be recruited for jobs across the globe.** Hundreds of companies visit MSU annually in search of a CEE student for co-op, internship and career openings. Graduates are working globally for companies, industry, academia and agencies.
- **Define the career you want.** With eight technical areas, it's not hard to find your niche. Not only do we offer an Environmental Engineering concentration, we also have dozens of technical electives allowing you to tailor your degree to the area you prefer.
- **Find a home here.** CEE currently has an 85% retention rate for students who finish their freshman year.
- **Become a professional engineer.** Our curriculum is focused on helping you become a professional engineer. Our BSCE program is accredited by the Engineering Accreditation Commission of ABET and our students have FE and PE Exam pass rates that exceed state and national averages.

"Being part of the Civil & Environmental Engineering Program is like being part of a family."
Tina Burcham Seals (BS '87)
Former Head Coach, MSU Women's Volleyball

Technical Areas

Construction – Ensure that design and construction achieve project goals while maximizing economy, efficacy and safety.

Environmental – Using physical, chemical and biological processes to remove pollution, toxins and contaminants which could harm humans, wildlife and natural resources.

Geotechnical – Design systems using soils and geologic materials to provide strong foundations, dams and reservoirs.

Materials – Design better materials to improve sustainability and reliability and to help solve issues like pavement deformation.

Structural – Analyze and design safe structures that can support a variety of loads during adverse conditions such as hurricanes, floods, high winds and earthquakes.

Transportation – Optimize the movement of people, goods and materials in all conditions using connected, multimodal systems.

Urban Planning – Coordinate projects aimed at organized community development and economic growth.

Water Resources – Deal with issues concerning the quality and quantity of water while designing systems that reduce flooding and protect the public.

While You're Here

- **Build leadership skills** by joining a professional society or student organization such as the American Society of Civil Engineers (ASCE), Soil and Water Conservation Society (SWCS), Engineers Without Borders (EWB), Associated General Contractors (AGC) and the Institute of Transportation Engineers (ITE). These groups attend national and local meetings, compete with other universities and provide service at home and abroad.
- **Make connections** with alumni and engineering experts who visit MSU's campus. Students are able to gain insight through the mentorship program, student-led events and professional development opportunities.
- **Enhance your engineering skills** through undergraduate research topics ranging from cutting edge desalination procedures to emergency construction material techniques for disaster relief.
- **Gain experience** through the co-operative education program or summer internship opportunities.

Financial Aid & Scholarships

A variety of scholarships and fellowships are available for undergraduate and graduate students. Civil and environmental engineering at MSU awards over

$50,000 annually,

with over 33 awards supported by

28 endowed and annual scholarships.

An up-to-date list of scholarships can be found at www.cee.msstate.edu/departmental-scholarships.

Other opportunities for financial aid exist with the Bagley College of Engineering and MSU. Go to www.sfa.msstate.edu for more information.

"It's such an exciting time to be a Civil and Environmental Engineering major at MSU. From the challenging coursework to the amazing job outlook after graduation, I couldn't have picked a better major."

Cayla Cook (BS '16)

Offered through CEE

B.S. Civil Engineering
Concentration in Environmental Engineering option available

M.S. Civil Engineering
Seven technical options available

Ph.D. Civil Engineering
Seven technical options available

Job Opportunities

MSU CEE graduates have gone on to work for some of the world's top companies, federal and state agencies, industries, consulting firms and academic institutions.

Over 800 companies employ our alumni.

- Army Corps of Engineers
- AT&T
- Bechtel Group
- Chevron Texaco
- Entergy
- Ergon
- ExxonMobil
- Halliburton
- Ingalls Shipbuilding
- International Paper
- NASA
- Department of Transportation

JUST TO NAME A FEW