Welcome
For over a century, Mississippi State University has maintained a strong tradition as one of the top engineering schools in the country. We have a lot of exciting things happening in the Bagley College, and I hope that you will decide to become a part of our engineering family.

Our students have access to a wide range of educational opportunities in the classroom, in research labs and even around the world. Students can earn one of the 12 undergraduate degrees that are offered by our eight departments. Our world class faculty and staff are involved in cutting edge research, often with students working right along side them.

With more than $50 million in funded research projects, we’re helping to blaze new trails in fields as diverse as robotics and biomechanics. We’re a world leader in unmanned aerial systems, we’re helping to advance automotive technology, and we have the largest university-operated high voltage laboratory in North America.

On-campus students can take advantage of our Living-Learning Community, a unique residential environment where students study, live and enjoy campus life with fellow engineering students. Students can also participate in accelerated academic programs, co-ops or internships or travel the world with our faculty-led study abroad programs. And when it’s time to graduate, our students are recruited by more than 270 companies.

We want the Bagley College of Engineering to be YOUR college! If you have any questions about the college or need any additional information please don’t hesitate to let us know.

Hail State! Jason M. Keith
Dean and Professor
Earnest W. and Mary Ann Deavenport, Jr. Chair
**Aerospace Engineering**

Aerospace engineering is the branch of engineering concerned with the design, development, testing, and production of aircraft and related systems that fly within the Earth's atmosphere (aeronautics) and of spacecraft, missiles, rocket propulsion systems and other equipment operating beyond the Earth's atmosphere (astronautics).

**DEGREES WITHIN THIS DEPARTMENT**

- B.S. Aerospace Engineering
- Aeronautics
- Astronautics
- M.S. Aerospace Engineering
- Ph.D. Aerospace Engineering

[AE.MSSTATE.EDU](AE.MSSTATE.EDU)

---

**Agricultural & Biological Engineering**

Biological engineering offers the same foundational knowledge as any other engineering discipline plus additional knowledge in chemistry, biological sciences, biochemistry and microbiology. Biomedical engineering combines engineering principles and biomedical sciences to solve problems that deal with the human body and health.

**DEGREES WITHIN THIS DEPARTMENT**

- B.S. Biological Engineering
- B.S. Biomedical Engineering
- M.S. Biological Engineering
- M.S. Biomedical Engineering
- Ph.D. Biological Engineering
- Ph.D. Biomedical Engineering

[ABE.MSSTATE.EDU](ABE.MSSTATE.EDU)

---

**Dave C. Swalm School of Chemical Engineering**

Chemical engineering applies chemistry and math to make processes and products that improve all aspects of life including pharmaceuticals, semiconductors, artificial kidneys, solar panels, clean water and biocompatible polymers. Petroleum engineering prepares students for careers in the oil and gas industry, specifically reservoir engineering.

**DEGREES WITHIN THIS DEPARTMENT**

- B.S. Chemical Engineering
- Chemical Engineering Practice
- Chemical Engineering Research/Development Biomolecular
- B.S. Petroleum Engineering
- M.S. Chemical Engineering
- Ph.D. Chemical Engineering

[CHE.MSSTATE.EDU](CHE.MSSTATE.EDU)

---

**Civil & Environmental Engineering**

Civil and environmental engineering deals 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.

**DEGREES WITHIN THIS DEPARTMENT**

- B.S. Civil Engineering
- Environmental Engineering
- M.S. Civil Engineering
- Ph.D. Civil Engineering

[CEE.MSSTATE.EDU](CEE.MSSTATE.EDU)

---

**Computer Science & Engineering**

Computer science provides a foundation of knowledge for students with career objectives in a wide range of computing and computer-related professions. Software engineering helps fill the tremendous demand for engineers who can design and build reliable large-scale software systems.

**DEGREES WITHIN THIS DEPARTMENT**

- B.S. Computer Science
- B.S. Software Engineering
- M.S. Computer Science
- M.S. Cyber Security & Operations
- Ph.D. Computer Science

[CSE.MSSTATE.EDU](CSE.MSSTATE.EDU)

---

**Electrical & Computer Engineering**

Electrical engineering uses science, technology and problem solving skills to design, construct, develop and maintain electrical products, services, devices and information systems. Computer engineering involves the creation of intelligent systems characterized by the application of embedded digital processing technology.

**DEGREES WITHIN THIS DEPARTMENT**

- B.S. Electrical Engineering
- B.S. Computer Engineering
- M.S. Electrical & Computer Engineering
- Ph.D. Electrical & Computer Engineering

[ECE.MSSTATE.EDU](ECE.MSSTATE.EDU)

---

**Industrial & Systems Engineering**

Industrial and systems engineering involves the design, improvement and installation of integrated systems of people, materials, information, equipment and energy. The task of an industrial and systems engineer is to improve the performance and safety of processes by identifying and eliminating wastes of time, money, materials and energy.

**DEGREES WITHIN THIS DEPARTMENT**

- B.S. Industrial Engineering
- M.S. Industrial Engineering
- Ph.D. Industrial & Systems Engineering

[ISE.MSSTATE.EDU](ISE.MSSTATE.EDU)

---

**Mechanical Engineering**

Mechanical engineering is the application of science and mathematics to the design, development and operation of mechanical and energy systems. In addition to their strong foundation in the sciences, mechanical engineers must develop speaking and writing skills and spend much of their time creating complex design processes.

**DEGREES WITHIN THIS DEPARTMENT**

- B.S. Mechanical Engineering
- M.S. Mechanical Engineering
- Ph.D. Mechanical Engineering

[ME.MSSTATE.EDU](ME.MSSTATE.EDU)
Study Abroad

With today’s integrated global economy, engineers must understand other cultures and ways of doing business by being a part of collaborations that span the globe. In order to help engineering students be better prepared for the global workplace, the BCoE has developed opportunities and joined with other universities to provide students and faculty with opportunities to gain international experience by studying abroad. In years past, the BCoE has offered MSU faculty-led courses in France, England, and Germany.

Organizations & Teams

Build leadership skills by engaging in research projects or joining a professional society. The BCoE has over 35 organizations, including Society of Women Engineers, National Society of Black Engineers, Theta Tau Professional Engineering Fraternity, Society of Hispanic Professional Engineers, and Engineers Without Borders.

Participate in competitions and events, like the Space Cowboys rocket team, EcoCar, NASA Robotic Mining Competition, ASCE Concrete Canoe Competition, Xipliter Unmanned Aircraft Systems team, or our annual Engineering Week.

Research

Being a part of the most up-to-date research allows students numerous educational opportunities and the ability to be taught by over 100 professors actively involved in state-of-the-art research. The college also has the facilities to conduct a wide variety of design, analysis and testing and works with many centers such as the Center for Advanced Vehicular Systems (CAVS), the High Performance Computing Collaboratory (HPC2), amongst many others. Research is supported by external funding from many government agencies, as well as large and small private companies.

Study Abroad

Students CAN study at 43 INTERNATIONAL UNIVERSITIES in 23 DIFFERENT COUNTRIES

BAGLEY.MSSTATE.EDU/STUDENTORG

Research

$61.4M IN EXTERNAL RESEARCH EXPENDITURES

BAGLEY.MSSTATE.EDU/RESEARCH

Co-op & Internships

Involvement in MSU’s Cooperative Education Program allows students to earn money and gain practical experience. Students are encouraged to apply for the cooperative education or internship programs and will begin working on a resume, interviewing skills, and overall professional development. Cooperative education is a unique academic program that allows students to obtain valuable work experience related to their field of study while still in school. Work semesters alternate with school semesters, and after completing three work semesters, most students have gained 52 weeks of work experience before graduation.

Co-op & Internships

65% STUDENT PARTICIPATION IN CO-OP/INTERNSHIP

COOP.MSSTATE.EDU
Mississippi State University is an equal opportunity institution. Discrimination in university employment, programs or activities based on race, color, ethnicity, sex, pregnancy, religion, national origin, disability, age, sexual orientation, genetic information, status as a U.S. veteran, or any other status protected by applicable law is prohibited. Questions about equal opportunity programs or compliance should be directed to the Office of Compliance and Integrity, 56 Morgan Avenue, P.O. 6044, Mississippi State, MS 39762, (662) 325-5839.