



UNDERGRADUATE PROGRAM

MECHANICAL ENGINEERING

2019
UNDERGRADUATE
ENROLLMENT:

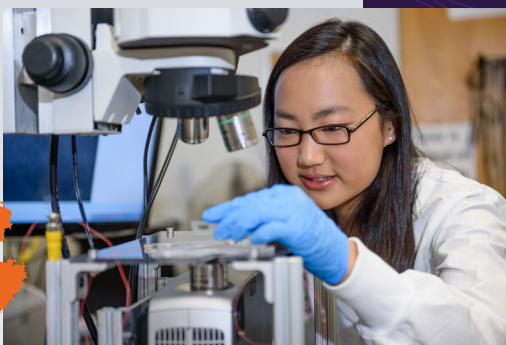
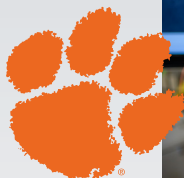
847

TOTAL CREDIT
HOURS:

125

Breadth, individuality, and flexibility are inherent characteristics of the mechanical engineering profession. Mechanical engineers, in a broad sense, make major contributions to the creation of products and systems that benefit everyone. They work in a variety of areas including Aerospace, Propulsion and Transportation, Power Generation, Defense,

Robotics, Automated Manufacturing, Construction, HVAC, Research, Product Development, Law, Medicine and Project Management. The practice of mechanical engineering includes one or more of the following activities: manufacturing, testing, research, product development, design, technical management, technical sales and marketing, construction, and teaching.



MECHANICAL ENGINEERING AT CLEMSON

Clemson's ME curriculum prepares its graduates for the challenges they can expect to encounter over the course of their careers. It covers the fundamental engineering sciences and all of the technical areas within mechanical engineering. It includes a balance of individual work and group activities, and exposure to the arts and humanities allows students to develop deeper cultural understandings and the insights needed to work in our complex modern society.

clemson.edu/cecas/me

MECHANICAL ENGINEERING

PROGRAM DETAILS:

Most Mechanical Engineering graduates take positions in industry, government, or business. Additional options for formal education in a graduate program include the Master of Science and Doctor of Philosophy degrees.

LABS AND FACILITIES FOR HANDS-ON TRAINING

Cook Engineering Laboratory – dedicated to undergraduate educational laboratories, Mechanical Engineering Student Shop in Cook Lab to support design/build/test of student projects. Design Innovation Studio in Fluor Daniel to support senior capstone projects. Makerspaces across campus – to support creative literacy. Specialized programs in energy systems at Clemson University Restoration Institute in Charleston and advanced manufacturing at CU-ICAR in Greenville.

CLUBS AND ORGANIZATIONS

Student organizations include:

- The American Society of Mechanical Engineers (ASME)
- The American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE)
- The Society of Automotive Engineers (SAE)
- Baja SAE and Formula SAE
- Pi Tau Sigma
- Clemson University Rocket Engineering (CURE)
- Society of Manufacturing Engineers (SME)

GLOBAL ENGAGEMENT

Today's graduates must compete and develop in a globalized workplace. ME offers several opportunities for you to prepare for a global career, ranging from summer abroad programs to international internships. Beyond just going abroad, we emphasize immersive experiences that enable you to engage with other cultures. Our faculty and advisors are prepared to mentor you in selecting your World Experience according to your budget and your personal and professional interests. Come and explore the world and its many interesting cultures with us.

GRADUATE AND PROFESSIONAL SCHOOL OPPORTUNITIES

Enrollment in the PHD and MS programs is open to students with degrees in physics, applied mathematics, or any branch of engineering. The Department also offers select courses, through in-person and synchronous video teleconference, to students and professionals in the greater Greenville and Charleston areas interested in pursuing a degree or developing a specific expertise to advance their career.



Department of
MECHANICAL ENGINEERING
College of Engineering Computing
and Applied Sciences

CLEMSON



UNDERGRADUATE RESEARCH

ME students are encouraged to participate in a Creative Inquiry project, which provides real-world research experience. Experience in a lab setting and the potential to be a part of peer-reviewed publications are vitally important for those pursuing graduate school and entering the workforce. Research in ME may encompass experimental, analytical and computational work.

CO-OPS AND INTERNSHIPS

The majority of our Mechanical Engineering students graduate with some type of work experience. Students in Mechanical Engineering have had great experiences at Robert Bosch, Duke Energy, BASF, Michelin, JR Automation Technologies, Arthrex, Inc., Itron, BMW, Boeing, Club Car, and BorgWarner.

EMPLOYERS

Graduates are hired nationally by Fortune 500 companies as well as agencies and companies serving local industries. Examples include:

- BASF
- BMW
- Boeing
- Duke Energy
- Eastman
- Exxon
- Fluor Corp
- Ford
- GE
- GM
- IBM
- Ingersoll-Rand
- Lockheed Martin
- Michelin
- NASA
- Tesla

More info at: clemson.edu/cecas/psu