

MECHANICAL ENGINEERING

Bachelor of Science



Central to Designing Powerful Machines.

Central's BS in Mechanical Engineering graduates mechanical engineering professionals with a well-rounded education, and well-balanced analytical and experimental skills. It prepares student to develop specialized knowledge and acquire the necessary experience to pursue a career for various roles in industry or graduate studies. Mechanical Engineering applies in all industries and services including, but not limited to, fields such as aerospace, materials, design, and product reliability and safety.

Coursework includes mathematics and basic physical sciences, communications, including 3D modeling and CAD for designing mechanical parts and assemblies, and technical writing, general education, engineering sciences, and engineering design. The program culminates with a two-semester, sometimes industry-sponsored, capstone design project.

Program Features

- Program tailored to meet individual goals, interests, and the ever-changing industry
- Establishes graduates as valued practicing engineers
- Access to state-of-the-art labs and technologies
- Attend full- or part-time
- Option for 5-year accelerated BS/MS in Mechanical Engineering (Earn both degrees in 149 credits compared to 158 credits saving time and money)
- Internship opportunities
- Financial aid and scholarships available
- Free on-campus child care available



Engineering
Accreditation
Commission

The Mechanical Engineering program is accredited by the Engineering Accreditation Commission (EAC) of ABET.



Career Preparation

Mechanical engineers are employed by almost every industry, in one way or another, every aspect of life is touched directly or indirectly by mechanical engineers.

Career opportunities in mechanical engineering are excellent, and the occupational outlook is very good at both state, and national levels. A 2022 salary survey produced by Payscale.com found that new mechanical engineering graduates earned an average base salary of \$73,433. The American Society of Mechanical Engineers (ASME) reports median mid-career salaries for mechanical engineers as \$145,000.

Main employers of our graduate are: Pratt & Whitney, Sikorsky, Kaman Aerospace, Hanwha Aerospace, Collins Aerospace, Stanley Black & Decker, General Dynamics, Trumpf, Medtronic, and Heinkel-Loctite.



When asking our students 'What was the best part about your experience in the Engineering Department at Central? They replied:

"The best part were teachers that offered real world experience and examples in their lectures as it made the degree seem more valuable and real."

"Being exposed to academic engineers who also have industry experience and come from a wide variety of industries."

"Graduating. Being in actual hands-on classes where you're using machines and test equipment. Being forced to critically think, not solve a math problem."

"The best part about my experience in the Engineering Department at Central were the hands-on laboratory experiments that reinforce concepts learned within the class."



Clubs

American Society of Mechanical Engineers promote and enhance the technical competency and professionalism in students, enhances student's leadership skills and contributions to local society, and encourages students' and members' contributions to the well-being of humankind.

Central's **Society of Women Engineers (SWE)** empowers and supports women through innovative programs that provide technical and leadership experience in open and encouraging environments.

National Society of Black Engineers (NSBE) recruits, retains, and motivates engineering students of color at Central. NBSE implements programs that promote academic excellence, personal growth, and career development as it seeks to increase the number of professionals committed to community development and prepared to successfully compete in technical surroundings.



DID YOU KNOW?

All mechanical engineering students take a required 400- hour practical training course. This field training, under the supervision of qualified engineering practitioners, provides an opportunity for students to apply knowledge acquired in prior coursework to real-life applications. As a result of this engagement with industry, a large percentage of students remain in the surrounding communities to work for local industries after graduation. Employment in mechanical engineering is expected to grow faster than average, and the number of annual openings will offer very good job opportunities.



PROGRAM WEBSITE

ABOUT CENTRAL:

Central Connecticut State University is the largest university within the Connecticut State Colleges and Universities system. Founded in 1849, Central is also the state's oldest publicly funded university. Our campus is located in New Britain, Connecticut. Central is accredited by the New England Commission of Higher Education (NECHE).

