

CLEMSON

2022-2023 UNDERGRADUATE PROGRAM

AUTOMOTIVE ENGINEERING

B.S. IN AUTOMOTIVE
ENGINEERING

1st in
the U.S.

Automotive engineering is a multi-disciplinary field, with skills that are applicable inside and outside the auto industry. The future of mobility is here and changing rapidly. You can be a part of this change, working to develop the next generation of mobility solutions. Professional opportunities are widespread for automotive engineers.

You can work right here in South Carolina, the automotive hub of the Southeast, or anywhere across the United States or the world. Clemson's automotive engineering program is renowned for developing top talent and known for being a pioneer in the sector.

APPROX. TOTAL
CREDIT HOURS

124



AUTOMOTIVE ENGINEERING AT CLEMSON

Clemson's Automotive Engineering Department is home to world-class faculty, state-of-the-art laboratories and facilities, an industry-focused curriculum, and connections to the top employers in the automotive world.

During your first two years on our main campus, our curriculum will give you a strong engineering foundation. Years three and four, primarily held at the CU-ICAR campus in Greenville, deliver targeted hands-on, industry-relevant courses. You'll be ready to impact the automotive landscape on Day One after graduation.

www.cuautomotive.com

AUTOMOTIVE ENGINEERING

PROGRAM DETAILS

A Bachelor of Science in Automotive Engineering can open many doors for you. You'll have the option to go straight into industry, government agencies or research labs, or to continue your education with our Master of Science in Automotive Engineering or Ph.D. in Automotive Engineering.

LABS AND FACILITIES FOR HANDS-ON TRAINING

- Chassis Dyno
- Anechoic Chamber
- Environmental Chamber
- Four Post Shaker
- Full Size and Single Cell Engine Dynos
- Battery Lab
- AVX Lab — Home of Deep Orange
- Clemson Composites Center
- Clemson Vehicle Assembly Center

EMPHASIS AREAS

- Vehicle Autonomy and Electronics
- Advanced Powertrains and Drivelines
- Manufacturing and Materials
- Vehicle Performance
- Systems Integration
- Human Factors

DESIGN PROJECT

Students in their senior year have the opportunity to participate in a design project that mirrors the world-renowned Master's-level Deep Orange program. In Deep Orange, graduate students build a concept car from scratch in partnership with an OEM or industry sponsor. At the undergraduate level, you'll get a taste of the entire process.

GRADUATE AND PROFESSIONAL SCHOOLS

We offer a 33-credit Master of Science in Automotive Engineering, a Ph.D. in Automotive Engineering, and a Graduate Certificate in Automotive Engineering. Undergraduate students who are sure they want to complete our M.S. are encouraged to take the B.S. to M.S. pathway, which can shorten the length of the Master's program by up to one year (must have a 3.4 GPA to participate).

CLUBS AND ORGANIZATIONS

- Clemson Automotive Engineering Student Association
- Clemson Automotive Engineering Student Ambassador Program
- SAE International

CLEMSON



UNDERGRADUATE RESEARCH

Students are encouraged to engage with their instructors for opportunities to work on research projects in their labs as well as participate in Creative Inquiries. Often working in labs is a proving ground that can lead to even more complex projects.

EMPLOYERS

Over 95% of our previous graduates work in industry, which includes more than just the automotive sector. We have graduates who work in technology, aerospace, materials science engineering, and more. Our frequent employers include

- ABB
- Apple
- BMW
- Bosch
- Canoo
- Cummins
- FEV
- Ford
- GM
- Honda R&D
- Magna
- Mercedes Benz
- Michelin
- Motorsports
- National Labs
- SpaceX
- Stellantis
- Tesla
- Toyota
- Volvo
- ZF Transmission