



What About Professional Schools?

Many of our graduates go on to professional schools. The mechanical engineering degree is sound preparation for graduate studies in engineering and for medicine, law, or business.

Many physicians, lawyers, and other professionals consider their comprehensive mechanical engineering background as a key reason for success in their careers. A good academic record in our comprehensive ME curriculum provides strong credentials for admission to any professional program.

Are There Extra-Curricular Activities?

A large part of the educational experience occurs outside of the classroom. The Department boasts student chapters of the American Society of Mechanical Engineers (ASME), Society of Automotive Engineers (SAE), and Pi Tau Sigma, ME Honor Society. Nearly all students are involved in one or more of these professional societies which afford professional and social contacts, as well as group projects. Activities include regular technical programs, plant trips, conferences and social gatherings. Examples of a award-winning student projects include developing vehicles for the electric car and the mini-Baha national competitions. These professional societies offer programs for continued education and professional development after graduation that keep practicing engineers abreast of new methods and technology.

Composite Body

- Custom made Fiberglass-Kevlar reinforced
- House of Kolor Paint, Purple Kandy with Orange/White accents

Frame

- 4130 Steel Tubular Frame
- Fully TIG Welded Construction

Engine

- Honda F4i 600 cc Sport bike engine
- Custom Aluminum Intake and Stainless Steel Exhaust



Michelin 20x6.5-13 Tires

- 7.0x13.0 Aluminum Wheels
- Exclusive Partnership with Michelin in 2003-2009

Suspension

- Double Unequal length A-Arms
- Pull rod Actuated ohlins Dampers

Drivetrain

- Torsen Differential
- Custom Aluminum Housing

Faculty

David Angstadt, Assistant Professor (PhD Lehigh)
 Eric Austin, Senior Lecturer (PhD Virginia Tech)
 Beshah Ayalew, Assistant Professor (PhD Penn State)
 Donald Beasley, Professor (PhD Michigan)
 Sherrill Biggers, Professor (PhD Duke)
 Mohammed Daqaq, Assistant Professor (PhD Virginia Tech)
 Jean-Marc Delhaye, Senior Lecturer (PhD Grenoble)
 Georges Fadel, Professor (PhD Georgia Tech)
 Richard Figliola, Professor (PhD Notre Dome)
 Mica Grujicic, Wilfred P. and Helen S. Tiencken Professor (PhD MIT)
 Imtiaz-ul Haque, Department Chair & Professor (PhD Clemson)
 Yong Huang, Assistant Professor (PhD Georgia Tech)
 Cecil Huey, Jr., Emeritus Professor (PhD Clemson)
 Nader Jalili, Associate Professor (PhD Connecticut)
 Paul Joseph, Associate Professor (PhD Lehigh)
 Thomas Kurfess, Professor & BMW Chair in Manufacturing; Director, CGEC (PhD MIT)
 Harry Law, Emeritus Professor (PhD Connecticut)
 James Leylek, Professor & Director of CU Computational Center for Mobility Systems (PhD Illinois)
 Gang Li, Assistant Professor (PhD Illinois)
 Lin Ma, Assistant Professor (PhD Stanford)
 Laine Mears, Assistant Professor (PhD Georgia Tech)
 Richard Miller, Associate Professor (PhD SUNY)
 Gregory Mocko, Assistant Professor (PhD Georgia Tech)
 Jay Ochterbeck, Professor (PhD Texas A&M)
 Mohammed Omar, Assistant Professor (PhD Kentucky)
 Pierluigi Pisu, Assistant Professor (PhD Ohio State)
 Christian E.G. Przirembel, Professor & Vice President for Research (PhD Rutgers)
 Jim Qiao, Assistant Professor (PhD Illinois)
 John Saylor, Associate Professor (PhD Yale)
 Joshua Summers, Assistant Professor (PhD Arizona)
 Lonny Thompson, Associate Professor (PhD Stanford)
 Chenning Tong, Associate Professor (PhD Cornell)
 Ardalan Vahidi, Assistant Professor (PhD Michigan)
 John Wagner, Associate Professor (PhD Purdue)
 Xiangchun Xuan, Assistant Professor (PhD Toronto)
 John Zigert, Professor & Timken Chair in Design (PhD Rhode Island)
 David Zumbrennen, Warren H. Owen-Duke Energy Professor (PhD Purdue)

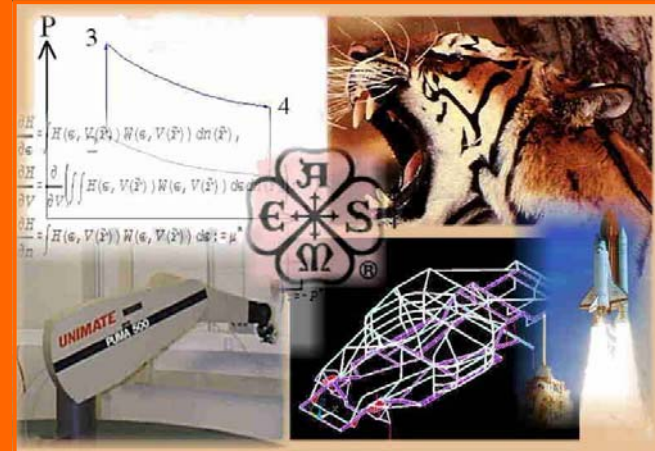
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Mechanical Engineering

"Advance in Every Direction"



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Advance in Every Direction

What is Mechanical Engineering?



Humans, in general, are problem solvers who apply science, mathematics, and technology in their work. The various engineering disciplines are distinguished by the particular areas of science, mathematics, and technology that they employ and the problems they address. Mechanical engineers usually focus on matters related to

manufacturing, energy, machines, materials, transportation, and design — perhaps a wider range of areas than any other engineering disciplines.

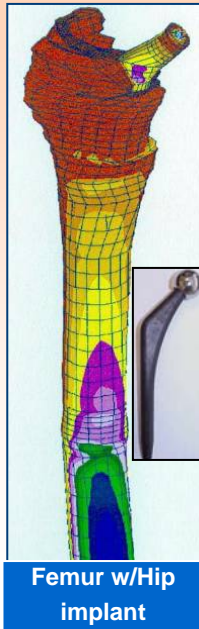
Mechanical engineers are involved at every level in production of almost everything you use including automobiles, clothing, building products, aircraft, and computers.

Are There Jobs?

The professional breadth of Mechanical Engineers enables them to find a place in almost every industry. Accordingly, Clemson ME graduates have a very bright job outlook. In fact, over 85% of our BS graduates have at least one job offer prior to graduation. Our graduates find positions in all major companies such as DuPont, Exxon, Ford, BMW, Lockheed, Ingersoll-Rand, BASF, Fluor Daniel, Hoechst-Celanese, General Electric and IBM.

What Does the Curriculum Include?

Clemson's ME curriculum is designed to prepare our graduates for challenges over the span of a 40-year career. Our ME students receive comprehensive preparation in all of the technical areas of engineering and in professional communication.



They are involved in a balance of both individual work and group activities. Exposure to the arts and humanities allows for a deeper cultural understanding and the insight needed to work in a complex modern society.



The ME curriculum at Clemson is a balanced program encompassing the physical and engineering sciences, design, laboratory experience, humanities and social sciences, communication skills and computer proficiency. Ultimately, students are challenged to apply their knowledge to solve practical individual problems. The four-year program requires completion of 124 credit hours, ending with an industry sponsored senior design

project. The curriculum is accredited by the Accreditation Board for Engineering and Technology (ABET).

Honors Program

Qualified students may be invited to enter the Calhoun College, the Honors Program of Clemson University. Honors students increase their breadth by completing additional requirements in selected coursework. Within Mechanical Engineering, honors students work individually with their selected faculty member on a special research or design project which culminates in a Senior Thesis. The thesis is a unique accomplishment that distinguishes



the Honors graduate from all others. About 10-15 students participate in this program each year. Students who successfully complete the requirements will graduate with Departmental Honors and their permanent records note them as Calhoun College Scholars.



Cooperative Education

About 30% of Mechanical Engineering students participate in the Cooperative Education Program. These students alternate periods of classroom study with related work assignments at participating industries. The additional year invested provides the opportunity to explore different career possibilities, to earn extra income, and to gain valuable work experience.

Study Abroad Programs

Engineering is an international profession with more and more companies expanding worldwide. The Clemson Mechanical Engineering program recognizes this fact and offers optional international opportunities. The Engineering Program for International Careers (EPIC) offers two years of language and cultural training in either French, German, or Japanese with a 4-6 month internship at a host company's domestic location in their third year. The fourth year includes intensive language training followed by a 4-6 month international internship. The fifth year offers additional cultural broadening while the student completes the engineering curriculum.