What Can I Do With A Major In: Engineering

DESCRIPTION
Prepare students for careers where creative solutions to global challenges are needed to advance society. Graduates become engineers and product designers. Students apply their new-found knowledge in our Project-based Learning (PBL) approach with companies across the region, and beyond, through WCU’s Center for Rapid Product Realization.

WHAT JOBS ARE AVAILABLE?
Aerospace Engineering Technician  Agricultural Technician  Airport Engineer
Biomedical Equipment Technician  Cartographic Technician  Chemical Technicians
Civil Engineering Technician  Electrical Technician  Electronics Technician
Electro-Mechanical Technicians  Environmental Technician  Geological Data Technician
Fire Protection Engineering Tech  Geological Technician  Industrial Engineering Tech
Mechanical Engineering Technician  Mathematical Technician  Nuclear Technician
Nuclear Engineering  Petroleum Technician  Soil Conservation Technician
Solar Energy Systems Designer  Sound Engineering Tech  Surveying Technicians
Tool Designer  Machine Designer  Technical Illustrator
Metallurgic Engineering  Ocean Engineering  Software Engineering

WHO EMPLOYS STUDENTS WITH THIS MAJOR?
General Electric | Borg Warner | Meritor | Moog | Snap On | Conmet | Caterpillar | Eaton | Goodyear | Halliburton | Jackson Paper

INTERNSHIP INFORMATION
At Western Carolina University there are numerous internship opportunities for students. In some cases internships are established through a faculty member in the student's major. Oftentimes students find part-time jobs in an area related to their field of study. When this happens, students should discuss with their academic advisor the possibility of receiving college credit. Generally, three hours of general elective credit can be earned for a minimum of 200 hours of experience.

WHAT SKILLS ARE LEARNED IN THE CLASSROOM?
- an ability to select and apply the knowledge, technique, skills, and modern tools of the discipline to broadly-defined engineering technology activities;
- an ability to select and apply a knowledge of mathematics, science, engineering, and technology to engineering technology problems that require the application of principles and applied procedures or methodologies;
- an ability to conduct standard tests and measurements, to conduct, analyze, and interpret experiments and to apply experimental results to improve processes;
- an ability to design systems, components, or processes for broadly-defined engineering technology problems appropriate to program educational objectives;
- an ability to function effectively as a member or leader on a technical team;
- an ability to identify, analyze and solve broadly-defined engineering technology problems;
- an ability to apply written, oral, and graphical communication in both technical and non-technical environments;
- an ability to identify and use appropriate technical literature;
- an understanding of the need for an ability to engage in self-directed continuing professional development;
- an understanding of and a commitment to address professional and ethical responsibilities including a respect for diversity;
- a knowledge of the impact of engineering technology solutions in a societal and global context;
- and a commitment to quality, timeliness and continuous improvement

**KNOWLEDGE**
- Apply their technical knowledge as practicing professionals or engage in graduate education.
- Work successfully in their chosen career individually and within a professional team environment.
- Engage in professional development in their profession by adopting to new technology and career challenges..

Interested in the classes you’ll be taking? Check you your eight semester program here: [http://www.wcu.edu/WebFiles/WordDocs/BSE_8_Semester_Plan_ME.docx](http://www.wcu.edu/WebFiles/WordDocs/BSE_8_Semester_Plan_ME.docx)

**PROFESSIONAL RESOURCES**
- American Society for Engineering Education: [https://www.asee.org/member-resources/councils-and-chapters/engineering-technology-council](https://www.asee.org/member-resources/councils-and-chapters/engineering-technology-council)

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