ELECTRICAL ENGINEERING TECHNOLOGY

STEM
Science, Technology, Engineering, and Math
About the Major

An Electrical Engineering Technology Bachelors of Science degree prepares students to solve problems related to generating, distributing, transmitting and using electrical energy. We apply relevant technologies to address immediate needs both large and small. An Engineering technology degree is different than engineering because the class and laboratory work focuses on applications. You will learn the theories of how things work, but you will be able to apply those theories in meaningful ways. Our curriculum includes many projects, culminating in a two semester capstone experience. These projects prepare students to effectively manage large assignments when they get into “the real world.”

Sample Coursework

- Introduction to Circuit Analysis
- Applied Object-Oriented Programming
- Introduction to Microprocessors
- Digital Fundamentals II
- Electrical Power & Controls
- Real Time Digital Signal Processing

Possible Career Opportunities

- Aircraft & Avionics Technician
- Computer Hardware Engineer
- Electrical Engineer
- Engineering Technician
- Sales Engineer
- Science Technician

Employment Outlook

Employment of electrical and electronics engineers is projected to grow 4 percent from 2012 to 2022, slower than the average for all occupations. Job growth is expected because of electrical and electronics engineers’ versatility in developing and applying emerging technologies. These engineers will also experience job growth in computer systems design, as these industries continue to implement more powerful portable computing devices. The rapid pace of technological innovation and development will likely drive demand for electrical and electronics engineers in research and development (Bureau of Labor Statistics, U.S. Department of Labor, Occupational Outlook Handbook, 2014-15 Edition, Electrical and Electronics Engineers).

Salary Expectations

Examples of national median annual salaries of careers that can be obtained with an Electrical Engineering Technology degree are (O*NET, 12/2013): Aircraft & Avionics Technologist $55,350, Electrical Engineer $87,920, Computer Hardware Engineer $100,920, Engineering Technologist $57,850, and Sales Engineer $91,830.

Graduate/Professional School Opportunities

Computer Engineering Technology graduates may choose to pursue advanced degrees in one of the following areas: Engineering Technology, Business Management, Electronic Engineering, Computer and Info Sciences, and Law or Health-related fields Other Engineering Fields.

Where Can I Get More Information?

Purdue School Engineering & Technology
Office: SL 174 Phone: (317) 274-9713
engr.iupui.edu

Institute of Electrical & Electronic Engineers
www.iccusa.org

Interest Code

Realistic  Investigative  Enterprising