

# BACHELOR OF SCIENCE IN ELECTRO-MECHANICAL ENGINEERING TECHNOLOGY

The B.S. in Electro-Mechanical Engineering Technology (EMET) program is offered in response to a growing demand from industrial and consulting companies for engineering staff members with a wide range of technical knowledge. Only four other schools in the nation, other than Penn State, offer a baccalaureate degree program combining electrical and mechanical engineering technologies, and none of these schools are located in Pennsylvania.

## Gain Marketable Experience in College

This program prepares students for employment in industries that integrate both the electrical and mechanical disciplines. The interdisciplinary training, along with in-depth study of modern instrumentation, process control, and quality control concepts, gives students the broad range of practical, team-oriented, and problem-solving skills that are needed in today's workforce. Additionally, students will gain applied experience at all academic levels by working on multidisciplinary design projects sponsored by local companies to solve challenging problems.

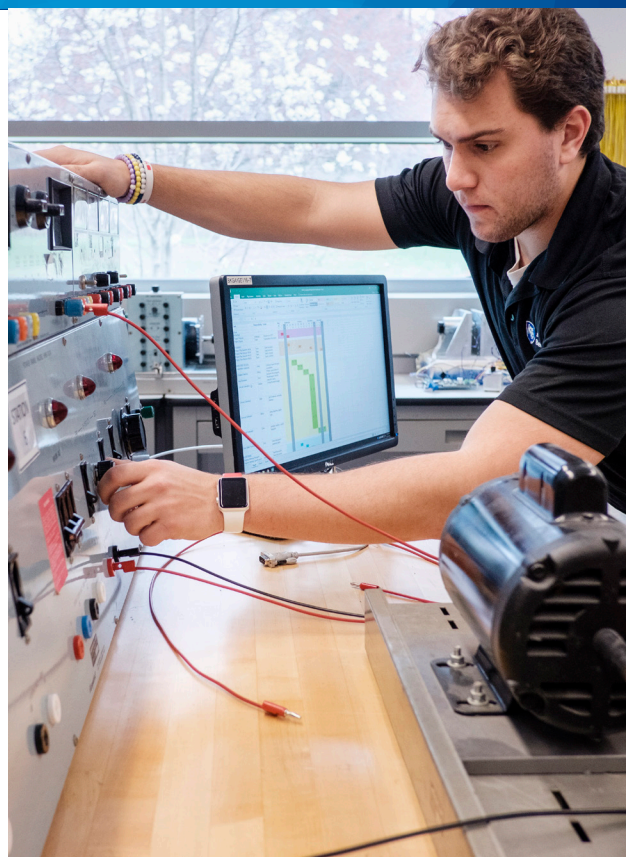
## Graduate Education

Students in the Electro-Mechanical Engineering Technology program will be well prepared for graduate and professional schools. Many have enjoyed success in graduate programs offered by Penn State and Temple.

## Academic Minors

Enhance your degree with one of the college's academic minors; the following are recommended for EMET majors.

- Business
- Entrepreneurship & Innovation
- Information Sciences & Technology



## Job Titles and Salaries

The following is a list of job titles and salaries, which was compiled from the Bureau of Labor and Statistics *Occupational Outlook Handbook*. This is only a partial list to provide you examples of the kinds of jobs available to graduates with a B.S. in Electro-Mechanical Engineering Technology. Some positions require additional experience.

Title	2018 Median Pay
Biomechanical	\$88,550
Electrial	\$99,070
Electro-Mechanical	\$99,070
Manufacturing	\$87,040
Mechanical	\$87,370
Process	\$87,040
Product Design	\$87,370
Systems	\$99,070



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The B.S. EMET degree program provides the undergraduate education required for a career as an engineer working in a modern, highly-automated environment. The program emphasizes a breadth of knowledge in all fields of technology related to the automated processes found in today's manufacturing, production, assembly, and materials processing industries. Topics related to operation and control of manufacturing and production processes are covered including: instrumentation and monitoring methods, principles of machine design, automated control techniques, thermal and fluid sciences, computerized manufacturing systems, principles of electrical and electronic circuit operation, computer-aided design, statistical analysis, and quality control.

The primary aim of the EMET program is to provide graduates with the knowledge and skills necessary to apply current methods and technology to the development, design, operation, and management of electro-mechanical systems, particularly in those industries where automated systems are prevalent. Specific educational objectives of the program are to ensure that graduates are capable of and actively included in the following: the specification, procurement, and integration of electromechanical systems; the operation, testing, and maintenance of electromechanical systems; working as a member of a team on various projects; and the preparation and delivery of technical documentation and communications.

An inherent feature of automated systems across all sectors of business and industry is that they incorporate electrical, electronic, mechanical, and instrumentation components. Professionals working with these systems must be skilled in all these areas. The EMET program is designed to provide the skills needed with hands-on experience. Graduates from the program are prepared to perform, regardless of the particular industrial sector. The need for cross-discipline capabilities is particularly true of small and mid-sized manufacturing and production industries.

The Electro-Mechanical Engineering Technology baccalaureate degree is accredited by the Engineering Technology Accreditation Commission of ABET.

**Dr. Marietta Scanlon**

Program Coordinator

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## Admission Process

Applying for degree admission to Penn State Berks is simple. Applications are available on the web at [berks.psu.edu](http://berks.psu.edu). Penn State reviews applications throughout the year. Students can expect a decision within four to six weeks after completing the process. Contact the Berks Admissions Office with your questions at 610-396-6060.

## Transfer Students

Penn State Berks welcomes students who began their education at other institutions. Contact the Berks Admissions Office with your transfer questions at 610-396-6060.

## Financial Aid

Eligibility for all financial aid is determined by completing the Free Application for Federal Student Aid (FAFSA) form available on the web at [fafsa.ed.gov](http://fafsa.ed.gov). Contact the financial aid coordinator at Berks or visit [psu.edu/studentaid](http://psu.edu/studentaid) for a complete description of the types of available student aid and the application process at 610-396-6070.

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