

# TECHNOLOGY & ENGINEERING EDUCATION



*"I attribute my success largely to my experience at Millersville University and the professors who helped me develop and pursue my passion."*

*—Korbin, program graduate*

There is currently a shortage of technology & engineering education teachers in many states, which means there are exceptional job opportunities for Technology & Engineering Education graduates. Make a difference with your career choice. Choose this major if you enjoy problem-solving, learning by doing, and inspiring others.

## DEGREE

BACHELOR OF SCIENCE IN EDUCATION (B.S.E.)  
TECHNOLOGY & ENGINEERING EDUCATION

The **Technology & Engineering Education program (TECE)** is a teacher training program for individuals who desire to teach a broad range of courses in K-12 technology & engineering education. The 4-year program is comprised of general education courses to support a liberal arts foundation, technical courses to build content knowledge, and professional courses that immerse students in field experiences with K-12 students, including a full-time student teaching semester.

- An *optional* Engineering Design Education concentration is also available to build deeper understanding and expertise for STEM (science, technology, engineering, & math) education.

Graduates are eligible for Pennsylvania teacher certification in Technology Education which enables them to teach all courses in this content area such as computer-aided drafting and design (CADD), graphic communication, manufacturing and materials, STEM, engineering design, construction, energy and power, transportation, electronics, automation/robotics, and much more. Many states have reciprocity with Pennsylvania, which generally enables graduates to apply for certification there once they have the PA certification.

### Top 3 Reasons to choose Technology & Engineering Education

AT MILLERSVILLE UNIVERSITY

1. **Job prospects for Technology & Engineering teachers are exceptional.** There are more positions offered than there are graduates to fill them.
2. **Teachers make a difference.** A good Technology & Engineering teacher can positively influence hundreds or thousands of students in a lifetime.
3. **Technology & Engineering teachers work in a creative and dynamic learning environment.** There are abundant opportunities to solve problems, build solutions, and inspire others.



Watch this Video for Details <http://tinyurl.com/TECE-MU>

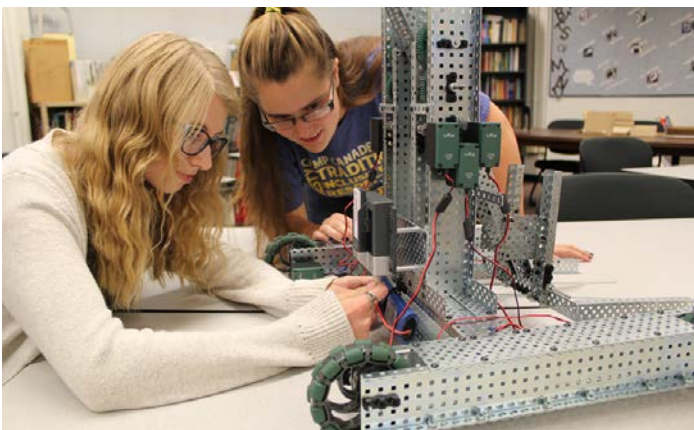


## CLUBS & ACTIVITIES

- **Technology & Engineering Education Collegiate Association at Millersville University (TEECA @ MU).** TEECA members engage in a wide variety of social, professional, service, and fund-raising events. Members participate in the Eastern Regional TEECA Conference every November in Virginia Beach, VA plus another National conference at a different U.S. location each spring.
- **Epsilon Pi Tau (EPT) – Beta Phi Chapter.** EPT is an international honor society for professions in technology, which includes Technology & Engineering Education. There are a number of benefits to membership, including opportunities for awards based on achievements or service.
- **Other Organizations.** TECE students can choose to join other organizations in AEST, including the Society for Manufacturing Engineers (SME), Marauder Graphics Club, Submersible Research Team, and Association of Technology, Management & Applied Engineering (MU Robotics Club).

## FACILITIES

Technology & Engineering education students have the advantage of taking hands-on classes in more than ten different laboratories in Osburn Hall, including graphic communication, materials/production, energy & power, electronics, automation, CADD, and others. There is also an integrative STEM lab, innovation lab, and seminar classroom where teacher candidates engage in design, problem-solving, and teaching methods courses.



Students and faculty advisors at the TEECA Competition in Virginia Beach.

## EXPERIENCE & SUCCESS

Students majoring in Technology & Engineering Education have many opportunities to engage with students in K-12 classrooms throughout our teacher preparation program. In addition to required field experiences and student teaching, some students choose to participate in other teaching-related programs through local community organizations and after-school programming. These experiences help to build students' confidence and expertise in preparation for their teaching career.



**Jana Zinn Bonds** (Class of 2008)

Jana says, "It is never a dull moment with middle school students and it is a joy to see the excitement they get from discovering the world of technology and engineering." Jana teaches 6th-8th grade Technology & Engineering at Emory H. Markle Intermediate in the South Western School District. Her curriculum covers a broad range of topics

including materials processing, energy conservation, robotics, engineering design, manufacturing, and digital media. Jana stays active by serving as a Technology Student Association (TSA) advisor and her school won the Program of Excellence award in 2011-2012.

### FOR INFORMATION CONTACT:

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