

Discover DIVERSIFIED ENGINEERING

Industry Overview

Engineering is a growing industry that offers opportunities to develop and work with various technologies. Engineers use science, critical thinking, and mathematics to develop new ideas, products, and technologies, often to make life simpler or more efficient.

Butler Tech Engineering Program Overview

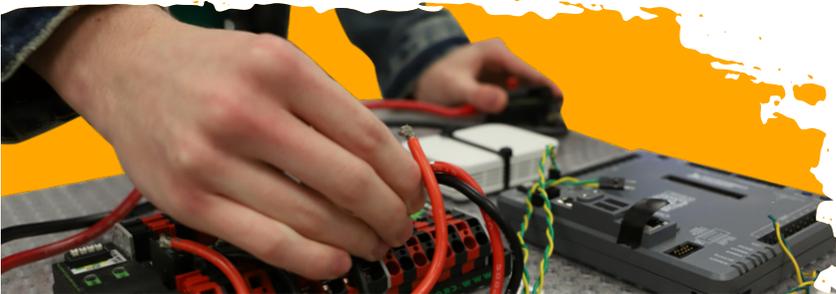
Students in the Engineering pathway learn to design and create solutions to complex problems using cutting-edge technologies. You'll learn to employ robotics to perform various operations, apply electrical theory and use electronic devices to control machines, and manufacture parts and devices.

Tools and Equipment

- 3D Printers (ABS, PLA, PTG)
- Laser Engraver
- Autodesk Fusion 360 (Computer-Aided Design Software)
- CNC Machines
- Industrial Mill
- Welders & Plasma Cutters
- Power Equipment (Drill Presses, Band Saws)
- Robotic Arms
- VEX Robotics

Student Organization

All Diversified Engineering students participate in SkillsUSA, a student business organization that empowers members with a structured program that promotes citizenship, leadership, employability, technical, and professional skills training.



bt Butler
Tech
in Hamilton City
Schools

Coursework

- Manufacturing Operations (10)
- Computer Integrated Manufacturing (11)
- Welding Technologies (11)
- CNC Mills & Lathes (12)
- Senior Capstone (12)

Certifications

- OSHA-10
- NC3/LEEPS Welding Safety
- NC3/LEEPS Principles of Welding
- NC3/LEEPS Introduction to GMAW
- NC3/LEEPS Introduction to FCAW
- HAAS Mill Operator Certification



Your PASSION. Your PURPOSE. Your IMPACT.

Skills

Active Listening

Giving full attention to what other people are saying, taking time to understand the points being made, asking questions as appropriate, and not interrupting at inappropriate times.

Complex Problem Solving

Identifying complex problems and reviewing related information to develop and evaluate options and implement solutions.

Judgment and Decision Making

Considering the relative costs and benefits of potential actions to choose the most appropriate one.

Personality

Investigative

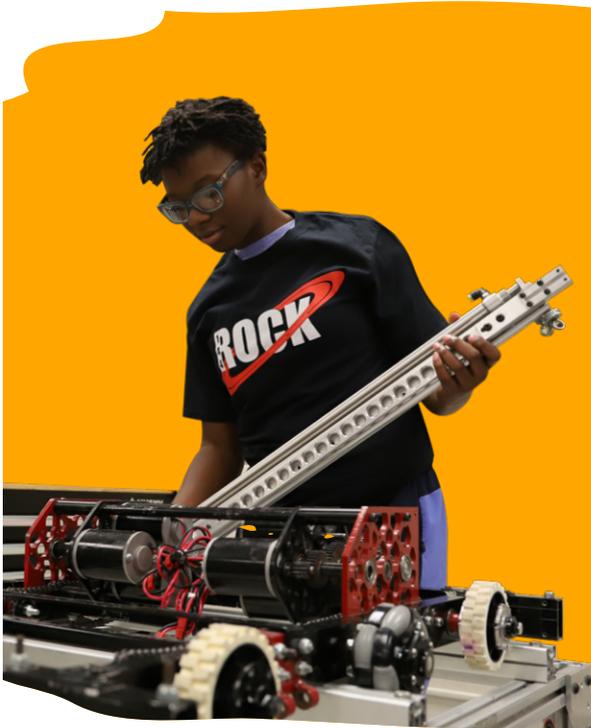
People interested in this work like activities that include ideas, thinking, and figuring things out.

They do well at jobs that need:

- Analytical Thinking
- Attention to Detail
- Initiative
- Innovation
- Integrity
- Persistence

Career Pathways

- Engineer
- Manufacturing Installer
- Manufacturing Maintenance
- Quality Control Inspector
- Robotic Programmer



"This course provides a fantastic chance to apply the engineering design process from design through manufacturing to finished product with all 'hands-on' coursework. It is a free-form educational experience that students can adapt to their own style of learning."

Student, *Engineering*

"This is an amazing opportunity to earn my Associate's Degree while still in high school in a very high demand career field."

Senior student, *Engineering*

Discover Engineering through Butler Tech and pursue a career that's right for you.

Butler Tech connects high school students to career technical education in more ways than ever. Complete your traditional academic courses in half of each school day and fill the other half of your day with career-focused labs and on-the-job training. Each moment in a Butler Tech career technical program is a step toward building your future.



See your guidance counselor for application information.

ButlerTech.org
Follow Us @ButlerTech



Updated 12-2022