

Engineering Technology

Jackson Center

2 Year Program

Brian Sullivan

Engineering Technology is an authentic makerspace equipped with machinery used in industry. The program is designed to meet the advanced manufacturing industry's current and emerging workforce needs. Students in the new shared-time Engineering Technology program will explore the production of metal and plastic products through manual and automated processes. Completers of this program will acquire a diverse and well-rounded set of academic and technical skills that will prepare them to enter the workforce and/or college. Students interested in pursuing a degree in engineering will have the opportunity to gain an understanding of the capabilities and limitations of production machinery. This knowledge is valuable to aspiring engineers as they will possess a well-rounded understanding of the production process, and Prototyping and development, allowing them to problem-solve and troubleshoot design challenges before they hit the production floor.

Related Job Titles

- CNC Operator
- Machinist
- Production Technician
- Welder
- Metal Fabricator
- Team Assembler
- Engineering Technician

Skills You Will Learn

- Blueprint/Product Specification Reading and Interpretation
- Materials Selection
- Quality Control/Precision Measurement
- Coding (G-Code)
- CNC machining
- Automation
- Manual Machining
- Digital Readout (DR)
- MIG and TIG welding
- Product Production
- OSHA safety
- Additive manufacturing (3D-printing)
- Task robotic development

Career Ladder

CNC operators with several years of experience may advance to supervisory positions. They may also become programmers of CNC machining tools. All trade areas can continue their education to become:

- Manufacturing Engineer
- Industrial Engineer
- Mechanical Engineer
- Inspector
- Technical Sales

Continuing Education

Ocean County College
Rutgers University
Rowan University
TCNJ
Drexel University