

# MECHANICAL DESIGN

## Mission Statement

The Mechanical Design Technology program delivers an innovative and applied education that supports the workforce needs of the region's employers. In this program, students learn how to model design concepts in two and three dimensions, work in teams, and specify engineering design parameters to select materials and requirements for given applications.

## Mechanical Design Technology Program Objectives

- Graduates will be well versed and skilled in current hands-on design tools and STEM standards to solve engineering problems in industry.
- Graduates will gain the knowledge and competencies to become an effective cross functional team member.
- Graduates will be prepared for a career and advancements in the mechanical design field with a constant focus on continuous improvement.
- Graduates will experience a safe, quality, clean, hands-on labs, instructors with industry experience, and curriculum designed to help them progress in their careers.

## Mechanical Design Technology Student Learning Objectives

- An ability to apply knowledge, techniques, skills and modern tools of mathematics, science, engineering, and technology to solve well-defined engineering problems in Mechanical Design
- An ability to design solutions for well-defined technical problems and assist with the engineering design of systems, components, or processes appropriate in Mechanical Design
- An ability to apply written, oral, and graphical communication in well-defined technical and non-technical environments; and an ability to identify a use appropriate technical literature.
- An ability to conduct standard tests, measurements, and experiments and to analyze and interpret the results.
- An ability to function effectively as a member of a technical team.

## Mechanical Design Technology Careers

- Mechanical Designer
- Design Engineer Technologist
- Drafter
- Designer
- Programmer