

# Engineering Technologies & Design

## Career Roadmap

### MCCC Career Major

#### Academics

Engineering Design  
Computer Integrated Manufacturing  
Plan Reading  
Engineering Principles  
Engineering Capstone

#### College Credit

Students have the opportunity to earn college credit in this program.

#### Goals

Earn High School Diploma  
Earn Industry Certifications

#### MCCC Industry Certifications\*

Autodesk Inventor (Mechanical Design)  
Autodesk Revit (Architectural Design)  
Auto CAD (Design and Drafting)  
KUKA Robot Programming  
OSHA 10-HR General Industry  
CPR First Aid

#### Job Placement | Internships

Early Placement and Summer Internship opportunities are available in this program.

*\*Students who meet certification criteria will have the opportunity to test in their CT program.*

### Technical Careers

#### Associate Degree

Adv. Manufacturing Engineering  
Technology, Operations Engineering  
Technology, Electrical / Electronic  
Engineering Technology, Engineering  
Technology Programs, Engineering  
Management, Bio-Medical Engineering  
Technology, Surveying

#### Advanced Certifications

3D Digital Design & Manufacturing  
Technology  
Automated Maintenance Technician  
Computer-Integrated Manufacturing  
Electronic Engineering Technician  
Mechatronics and Quality Control

#### Jobs with Work Experience & Associate Degree

Industrial Maintenance Technician  
Machine Operator such as Press, Tool  
Room, Utility, EDM, CAD Operator  
/ Drafter, CNC Operator, Inventor  
Designer, Maintenance Manager, Quality  
Technician, Apprenticeship

### Professional Careers

#### Bachelor Degree\*

Aerospace Systems Engineering,  
Biomedical Engineering, Chemical  
Engineering, Civil Engineering, Computer  
Engineering, Corrosion Engineering,  
Electrical and Mechanical Engineering,  
Land Surveying

#### Master Degree\*

Engineering Management, Electrical  
Engineering, Civil and Mechanical  
Engineering, Engineering in Project  
Management, Business Administration

#### Doctoral Degree\*

Project Management: Business, Doctor of  
Education: Engineering, Business  
Administration: Management of  
Engineering & Technology, Strategy  
& Innovation, Doctorate of Systems  
Engineering & Applied Sciences

#### Extensive Work Experience\*

Senior Project Engineer, Mechanical Design  
Engineer, Programmer & Engineering  
Process Developer, Civil Structural Engineer,  
Environmental Engineer Project Manager

*\*Examples only. Degrees and work experience options are extensive.*



Your College & Career

