



# Advanced Manufacturing Technology Center

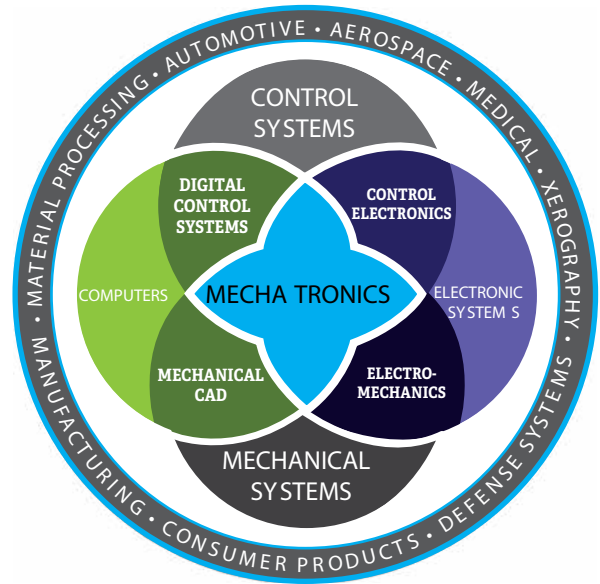
## Mechatronics/Automation Technician

### What is Mechatronics?

The word *mechatronics* describes a field that combines **mechanics** and **electronics**. The technology is used to create automated processes that operate with minimal human intervention, freeing workers from routine tasks.

Automated systems are used to produce electronic devices used in all industries – including manufacturing, computer-aided design, information technology, communications, medical and surgical devices and defense.

In these environments, production line down-time can cost thousands of dollars per hour in lost productivity and missed production deadlines. For the manufacturer to remain viable, it is imperative that their lines remain operating at peak efficiency. Mechatronics technicians keep the production lines functioning at the highest capacity.



### What is an automation technician?

The skills taught include electrical, mechanical, and computer technologies. Automation technicians will usually assist the design, development and engineering staff, as well as work closely with others to install, maintain, modify and repair mechatronic systems, equipment and component parts.

**The Bureau of Labor Statistics indicates that the median salary for experienced electro-mechanical technicians is \$53,340 per year or \$25.65 per hour.**



The Advanced Manufacturing Technology Center for Eastern Connecticut

**QUINEBAUG VALLEY COMMUNITY COLLEGE**

742 Upper Maple Street, Danielson, CT 06239

[www.QVCC.edu/manufacturing/](http://www.QVCC.edu/manufacturing/)

## QVCC's Program

**Instructors have years of experience in the robotics/automation field**

**Enhance your current skills to advance your career**

**Hands-on learning**

**Paid internships**

**Our Facility is NIMS Accredited until 2023** (*National Institute of Metalworking Skills*)

**Our graduates get jobs! Assistance with job placement**

**Earn a scholarship! Through the Gene Haas or QVCC Foundations**

# 4 STEPS TO BECOME A STUDENT

## 1. ADMISSION

Apply online today and get accepted this week!  
[www.QVCC.edu/apply](http://www.QVCC.edu/apply)

## 2. FINANCIAL AID

Apply for Financial Aid: [www.fafsa.ed.gov](http://www.fafsa.ed.gov)  
QVCC Code: 010530

## 3. TAKE YOUR ASSESSMENT TEST

To schedule your Basic Skills Assessment (BSA) test sign up online at: [www.timecenter.com/QVCC](http://www.timecenter.com/QVCC)

## 4. ADVISING & REGISTRATION

Meet with an advisor to select the courses appropriate for your certificate. Stop by or call Jodi Clark 860.932.4128 or Sandy Gould 860.932.4178.

## 2020-2021 Schedule

### Semester 1

MFG 133 Math for Electricity and Electronics	3
MFG 143 Industrial Motor Controls	3
MFG 144 Hydraulics and Pneumatics	3
MFG 146 Programmable Logic Controllers	3
MFG 159 Industrial Maintenance	3

### Semester 2

MFG 138 Digital Fundamentals	3
MFG 140 Robotics	3
MFG 142 Electronic Circuits & Devices	3
MFG 145 Electronic Variable Speed Drive Systems	3
MFG 162 CNC Maintenance & Repair	3

**TOTAL CREDITS** **30**

Classes run Monday - Friday, 3:30 - 6:30 pm

Take an individual course or the entire two-semester proposed certificate.

30 credits apply to an Associate of Science in Technology Studies.

Associate of Science in Technology Studies credits transfer to Central Connecticut State University's Bachelor of Sciences in Robotics and Mechatronics.

## Earn Additional Credentials

Enrolled students have the opportunity to earn up to four credentials through the National Institute of Metalworking Skills as part of their certificate. The credentials will be in:

1. Basic Hydraulic System
2. Basic Pneumatic System
3. Basic Mechanical System
4. Electronic Control System



Learn More:

**Jodi Clark**

**Advanced Manufacturing  
Technology Center  
Assistant Director**

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860.932.4128

[www.QVCC.edu/manufacturing/](http://www.QVCC.edu/manufacturing/)