

MECHATRONICS TECHNOLOGY

CAREER PATHS

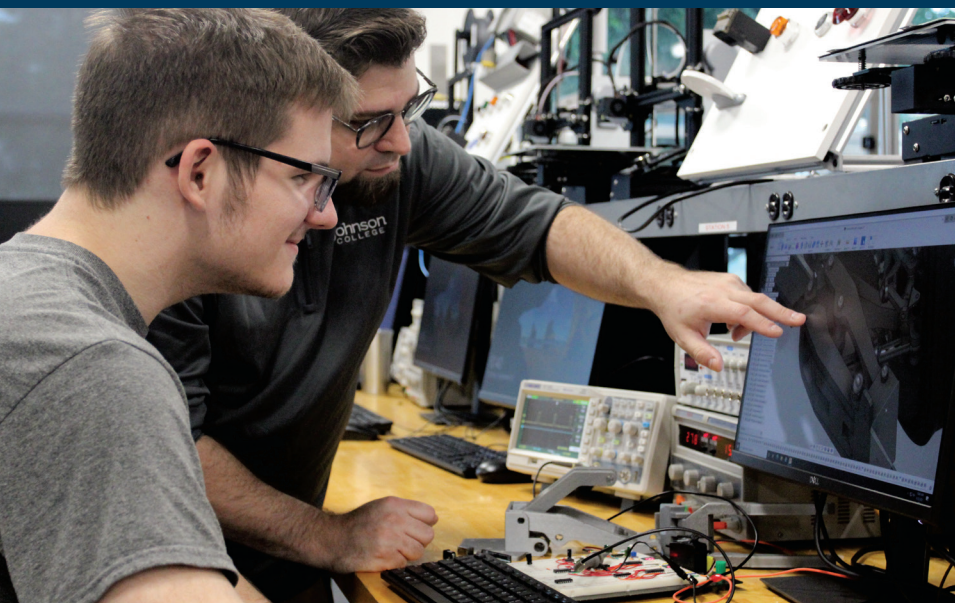
MECHATRONICS TECHNOLOGISTS & TECHNICIANS
AUTOMATION TECHNICIANS

SALARY

\$60,360*
MEDIAN ANNUAL INCOME



SCAN FOR YOUR FUTURE



PROGRAM OBJECTIVE

Johnson College's two-year Associate Degree Mechatronics Technology program prepares graduates as entry-level technicians. Students will become proficient in the theoretical and practical applications associated with electronic devices, fabrication technologies, electro-mechanical systems, and industry 4.0.

READY. SET. WORK.

- Goal 1:** Graduates will possess the skills needed to obtain an entry-level technician position in the mechatronics field.
- Goal 2:** Graduates will be able to troubleshoot electrical, electronic, and mechanical systems using theoretical principles and measured values to resolve operational issues.
- Goal 3:** Graduates will demonstrate the ability to communicate with a customer, team member, or supervisor in a professional manner to determine the nature of a problem or to explain repairs.
- Goal 4:** Graduates will demonstrate the proper and safe use of hand tools, measuring equipment, and test equipment used during fabrication or troubleshooting.

Applicants are encouraged to arrange a campus visit and a personal information session with a Recruitment Advisor. Appointments may also be made to meet with appropriate faculty and current students.

CAREER OPPORTUNITIES

Electro-mechanical technicians have the ability to work in many industrial environments, including energy, plastics, computer and communications equipment manufacturing, and aerospace. They often work both at production sites and in offices.

PROGRAM COURSES

CREDITS

SEMESTER 1

DC Electricity and Instrumentation	2
DC Electricity and Instrumentation Lab	1
Alternating Current and Passive Devices	2
Alternating Current and Passive Devices Lab	1
Principles of Mechatronics Technology	2
Hand Fabrication	1
Hand Fabrication Lab	2
Computer-Aided Design	3
Trigonometry	3
First-Year Experience	1

SEMESTER 2

Sensors and Systems in Automation	2
Sensors and Systems in Automation Lab	1
Additive Manufacturing	1
Additive Manufacturing Lab	2
Microcontrollers & Applications	1
Microcontrollers & Applications Lab	2
Microcomputer I	3
English Composition I	3
Introductory Physics	3

SEMESTER 3

Automation and Robotics I	2
Automation and Robotics I Lab	2
Programmable Logic Controllers I	2
Programmable Logic Controllers I Lab	2
Industry 4.0	1
Industry 4.0 Lab	3
Public Speaking	3
Customer Service and Our World	3

SEMESTER 4

Automation & Robotics II	2
Automation & Robotics II Lab	2
Programmable Logic Controllers II	2
Programmable Logic Controllers II Lab	2
Production & Assembly	2
Production & Assembly Lab	3
Capstone Project	1
Capstone Project Lab	3
or Internship	4

MINIMUM CREDITS TO GRADUATE 71

This semester layout is based off of a fall start. Students who start in the spring will be required to attend an additional semester to complete their degree.

There may be special admission requirements for this program. Please speak with a Recruitment Advisor by calling **570-702-8856** or visit our website johnson.edu to review our requirements.