

ADVANCED MANUFACTURING TECHNOLOGY

CAREER PATHS

CNC TECHNICIAN AND OPERATOR
MACHINIST (MILL AND LATHE)
MECHANICAL ENGINEERING TECHNICIAN
OPTOMECHANICAL TECHNICIAN
PARTS FABRICATOR HYDRAULIC TECHNICIAN

SALARY

\$58,230*
2020 MEDIAN PAY

JOB GROWTH

2020-2030: 6%*



ADVANCED MANUFACTURING TECHNOLOGY



PROGRAM OBJECTIVE

The two-year Advanced Manufacturing Technology Associates Degree program is designed to prepare students for the modern manufacturing environment of today. This program will prepare students for entry level positions within companies that have implemented team-oriented design, production, quality, and maintenance systems within the manufacturing environment. The technical courses provide the graduate with a solid foundation of advanced manufacturing procedures. The combination of the general education courses and technical courses equip the graduates with the communication, mathematics, and problem-solving skills necessary to perform in the modern workplace.

READY. SET. WORK.

- Goal 1:** Graduates will possess the skills necessary to obtain entry-level technical positions in the manufacturing environment.
- 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 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 manufacturing or troubleshooting.
- Goal 5:** Graduates will possess the skills necessary to correctly and safely operate machines used in the production of mechanical parts.

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

American manufacturers are becoming increasingly dependent upon the use of high-tech equipment that involves multiple, integrated systems. It is critical that these companies be able to recruit and employ individuals who know how to operate, troubleshoot, and maintain this high-tech equipment.

PROGRAM COURSES

- Fundamentals of Metal Cutting with Lab
- Blueprint / Schematic Reading
- Shielded Metal Arc Welding with Lab
- Introduction to Electricity with Lab
- Subtractive Manufacturing Lathe Work with Lab
- Subtractive Manufacturing Milling Work with Lab
- Sensors and Systems in Automation with Lab
- Computer Numerical Control Machining- Lathe with Lab
- Computer Numerical Control Machining- Milling with Lab
- Programmable Logic Controllers with Lab
- Computer Aided Design / Computer Aided Manufacturing with Lab
- Total Quality Management
- Manufacturing Management with Lab or Internship
- Introduction to Business
- Introduction to Statistics
- College Algebra I and Trigonometry
- Student Success Seminar
- Microcomputer I
- English Composition I or Industry Communications
- Public Speaking
- Introductory Physics

Minimum Credits to Graduate

70



SCAN FOR YOUR FUTURE

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.