

CAREERS IN... AUTOMATED MANUFACTURING ENGINEERING TECHNOLOGY



WHAT CAN I DO WITH A DEGREE IN AUTOMATED MANUFACTURING/MANUFACTURING ENGINEERING TECHNOLOGY?

The automation industry is a branch of the electronics field and is one of the fastest growing areas of our national and international high technology economies. The field combines the electronics, electrical, and mechanics and includes the interaction and control of motors, computers, pneumatics, hydraulics and other processes used in manufacturing. Manufacturing engineering technicians are called upon to assist engineers in the research, development and the modification of new and current designs, products and processes. Many technicians are involved in the assembly, acceptance testing, and providing field service support for current products. The technician possesses an understanding of CAD drafting, engineering drawings, fluid power fundamentals, instrumentation and data acquisition, industrial electrical and electronics applications, machining and tooling principles and precision measurement.

The University of Akron offers a Bachelor's degree in Automated Manufacturing Engineering Tech and an Associates' degrees in Manufacturing Engineering Technology, in the areas of either Computer Aided Manufacturing or Industrial Supervision. Visit the Automated Manufacturing/ Manufacturing Engineering Technology Website at: <http://www.commtech.uakron.edu/?/engscitech/MfgEngTech2870-2890.html>.

AREAS OF SPECIALIZATION

- Manufacturing Engineer
- Process Engineer
- Aeronautical/Aerospace Engineer
- Production Engineer
- Computer-Aided Drafter
- Purchasing Supervisor
- Manufacturing Inspector
- Operations Technician

REQUIRED SKILLS

- Active listening and learning
- Judgment and decision making
- Visioning
- Communicating
- Equipment selection and testing
- Implementation planning
- Troubleshooting
- Systems perception

COMPANIES THAT HIRE

- Department of Transportation
- Consulting
- Financial Logistics/Software
- Manufacturing
- Engineering/ Business Service Industries
- Department of Defense

PROFESSIONAL ORGANIZATIONS

- Society of Manufacturing Engineers (SME) www.sme.org

JOB AND EARNING OUTLOOK

The Bureau of Labor Statistics states that opportunities will be best for individuals with an associate degree or extensive job training in engineering technology. As technology becomes more sophisticated, employers will continue to look for technicians who are skilled in new technology and require a minimum of additional job training. An increase in the number of jobs related to public health and safety should create job opportunities for engineering technicians with the appropriate training and certification. Overall employment of engineering technicians is expected to increase about as fast as the average for all occupations through 2014. Competitive pressures will force companies to improve and update manufacturing facilities and product designs, resulting in more jobs for engineering technicians. In addition to growth, many job openings will stem from the need to replace technicians who retire or leave the labor force.

According to the Occupational Outlook Handbook, median annual earnings of engineering technicians were \$46,310 in May 2004. The middle 50 percent earned between \$36,290 and \$55,750. The lowest 10 percent earned less than \$29,000, and the highest 10 percent earned more than \$67,900.

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Objective

Seeking a Fall 2006 internship in Manufacturing Engineering Technology

Education

Bachelor of Science in Automated Manufacturing Engineering Technology

The University of Akron, Summit College

Expected, May 2007
Akron, OH

- GPA: 3.5/4.0
 - Dean's List
 - Tau Alpha Pi – Engineering Technology Student Honorary
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Computer Skills

PeopleSoft	MS Word/WordPerfect	Excel
Desktop Publisher	Auto CAD	Lotus 1-2-3
NetWare 2.2	SPSS	PowerPoint

Relevant Experience

May - August 2006 *Intern* Little Tykes, Cleveland, OH

- Helped engineers design, develop, test, and manufacture toy products
- Assisted in product tests for safety
- Recorded compiled data, made sketches and rough layouts, analyzed results of testing, and wrote reports
- Worked in planning production
- Worked with engineers to eliminate production problems

Summers 2005 - 2006 *Engineering Assistant* Rubbermaid, Boston, MA

- Prepared layouts and drawings of the assembly process and of parts to be manufactured
 - Estimated labor costs, equipment life, and plant space
 - Assisted in testing and inspecting machines and equipment in manufacturing department
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Experience

May 2004 - Present *Server* Joe's Pizza World, Cleveland, OH

- Served customers with friendly demeanor
 - Assisted kitchen staff with preparing meals
 - Helped maintain a safe and sanitary work environment
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Activities/Honors

- Coordinator of Campus Events, University Programming Board
- Recipient of The Dorothy A. Mizer Endowed Scholarship
- Dean's List five semesters
- Member of Golden Key Society
- Toastmaster's