

Career Profile for Manufacturing Technology

General Program Description: The **Associate in Applied Science (AAS) degree in Manufacturing Technology** prepares students for employment as technicians and managers in the manufacturing industry. The program provides skills in computer programming and operation for current and future needs of the manufacturing industry. Students also gain knowledge, skills, and experience in traditional machining and manufacturing processes. The program is comprised of specialized curriculum in manufacturing technology, emphasizing mathematical and scientific theory, and a general education component. The **Associate in Applied Science (AAS) degree in Manufacturing Engineering Technology** prepares technologists with both conceptual and practical applications of processes, materials, and products related to manufacturing industries. The curriculum combines coursework in technology with a General Education component. The optional **Certificate of Completion (CCL) programs in Manufacturing, Manufacturing Management, CAD/CAM/CNC I, CAD/CAM/CNC II, Manufacturing I, Manufacturing II** provide a stepped paths leading to the AAS degree.

Advancement Options: In order to advance in manufacturing, workers usually need a degree in business or engineering, and experienced supervisors can advance to department head or production manager positions. In-house training programs must also be completed. Engineering technicians usually begin by doing routine duties, working under the close supervision of experienced technicians or engineers. Engineering technicians with leadership skills may advance by keeping their skills current through continuing education classes or completing additional coursework to become an engineer.

Projected Job Growth: This occupation has a projected **10% growth over 10 years** (between 2003 and 2013) for the Greater Phoenix region. There are an average projected **215 job openings each year**, comprised of 71 new jobs and 144 positions vacated by individuals leaving the field (due to retirement, death, career changes, or other reasons).

Location	Pay Period	Bureau of Labor Statistics - 2005 Salaries*		
		Entry-level	Median	Experienced
United States	Hourly	\$14.52	\$31.81	\$62.83
	Yearly	\$30,200	\$66,167	\$130,700
Greater Phoenix	Hourly	\$10.97	\$29.52	\$64.58
	Yearly	\$22,800	\$61,433	\$134,300
Arizona	Hourly	\$11.42	\$29.45	\$62.99
	Yearly	\$23,800	\$61,267	\$131,000

For more career information for Manufacturing Technology, visit:

www.bls.gov/oco, www.maricopa.edu/workforce,
<http://www.acinet.org/>, or
www.mc.maricopa.edu/students/career/

For MCC program information, contact
Todd Verch, 480-461-7767,
Manufacturing Technology Program Director, or visit
<http://www.mc.maricopa.edu/dept2/manufacturing/>

*Labor market information provided by AZ Dept of Economic Security in cooperation with the U.S. Dept of Labor, Bureau of Labor Statistics. Wages will vary depending on the employer, location, hours worked, experience, responsibility and other factors. Career and Re-Entry Services will collaborate with academic and occupational program departments to develop internship and career experience opportunities.

Sample Job Titles: Computer Aided Design (CAD), Computer Aided Manufacturing (CAM), and Computer Numerical Control (CNC) Programmers, CAD/CAM/CNC Implementers, Equipment Maintenance Technicians, Product Testing Technicians, Production Management, Materials Engineers, Industrial Engineering Technicians, Industrial Production Managers

Types of Employers: Manufacturing Silicon Wafers, Manufacturing Engineering Firms, Hi-tech Manufacturing Firms

Local Employers who posted related jobs on local job boards: Volt Services Group, AmBath, Integrity Staffing Solutions, Natural Stone Manufacturing, Alcoa Fastening Systems, Sargent Controls, General Dynamics

Professional Associations
National Council for Advanced Manufacturing (NACFAM)
<http://www.nacfam.org>

For current job openings, go to Maricopa Career Network
<http://mcmaricopa.jobing.com/>

National Association of Manufacturers (NAM)
<http://www.nam.org>

Manufacturing Technology Overview At-A-Glance:

- Hire, train, and supervise other employees
- Work is often physically active
- Work indoors or outdoors, depending on field
- Help develop a variety of products
- Mostly work with metals, ceramics, plastics, and semiconductors
- Deal with the management of people and equipment
- Plan the production schedules at plants and factories

www.azcis.intocareers.org

For additional information on Manufacturing Technology careers or to watch occupational videos, visit:

Arizona Career Information Systems (AzCIS)
www.azcis.intocareers.org
User name: mesacc; Password: 4azcis02

Career Voyages
www.careervoyages.gov

Internships are supervised practical training in a short-term or temporary position with an emphasis placed on instruction, training, mentoring, networking and gaining applied work experience. These positions may be paid or unpaid. Contact Career and Re-Entry Services for internship information: 480-461-7430.

Internship Completed: _____ Dates: _____ Location: _____

Service-Learning is a teaching and learning method that connects meaningful community service with academic learning through guided reflection. Contact the Center for Service-Learning for more information: 480-461-7393.

Service-Learning Completed: _____ Dates: _____ Location: _____

Transfer Options: Contact Transfer Services for more transfer information: 480-461-7452.

Career Assessments Completed:

Career Assessment / Results	Date Completed	Reviewed by

Career Readiness Workshops / Activities Completed:

Workshop Name / Activity	Date Completed	Follow Up Contact (s)
Resume Writing Workshop		
Resume completed and reviewed by:		
Participate in Mock Interview		
How To Prepare for a Career Fair		
Attend Career Fair / Job Expo Location:		
Joined Professional Association:		

MCC Career and Re-Entry Services
Providing Guidance for Career and Workplace Success

For more Career Profiles, visit

<http://www.mc.maricopa.edu/students/career/careerprofiles.html>

Meet with a Career Advisor in Bldg #36, Room SS5N - adjacent to the Kirk Student Center, 480-461-7430

