

Career Profile for Electro-Mechanical Drafting

General Program Description: The Associate in Applied Science (AAS) degree in Electro-Mechanical Drafting prepares students to work as drafter technicians in machine drafting, Computer Numerical Control (CNC) programming, manufacturing process sheets, and electronics. Students develop skills in drawing block, schematic, and logic diagrams, printed wiring board drawings, and integrated circuit drawings. The program emphasizes current technological needs in the drafting industry. The optional **Certificates of Completion (CCL) in Electro-Mechanical Drafting, Computer Aided Drafting, and Mechanical Drafting** provide stepped paths that lead to the AAS degree.

Advancement Options: The technology in this field is always changing, always moving forward. The fundamentals of technical drawing are constant, but the tools used to produce technical drawings and models change almost daily. Perhaps no other field has and is benefiting so greatly from the continuous and synergistic advances in computer hardware, software, display, and output technology as is the field of design drafting technology. Drafters who gain experience and knowledge may become design drafters or senior drafters. With additional training or experience, drafters may also move into related positions, such as technical writer, sales engineer, or engineering assistant.

Projected Job Growth: As architects and engineers become more familiar with CAD programs, less work will be given to drafters. This is why the occupation is growing slowly. Despite the slow growth, jobs will become available as current drafters retire or transfer to other occupations. Growth will be slightly faster for mechanical drafters.

Location	Pay Period	Bureau of Labor Statistics - 2006 Salaries*		
		Entry-level	Median	Experienced
United States	Hourly	\$13.57	\$21.76	\$35.81
	Yearly	\$28,200	\$45,250	\$74,500
Greater Phoenix	Hourly	\$12.77	\$21.71	\$37.14
	Yearly	\$26,600	\$45,150	\$77,300
Arizona	Hourly	\$12.88	\$21.30	\$36.29
	Yearly	\$26,800	\$44,300	\$75,500

For more career information for Electro/Mechanical Drafting, 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,
Program Director of Drafting and CAD,
or visit**

<http://www.mc.maricopa.edu/dept2/drafting/>

*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: Architects, Civil Engineers, Scientists, Designers, Drafters, Engineering/Design/Drafting Technicians, Plant Managers, Structural Designer, Electrical Designer, Instrumentation & Controls Designer, Mechanical Engineer (Power/Energy)

Types of Employers: Design Companies, Architectural and Landscape Design firms, Consulting, Construction, and Civil Engineering Companies, Mapping Companies, Public Utilities, Public Works Departments, the Military, and Defense Contractors, Machinery Manufacturers, Architectural & Structural Metal Manufacturers

Local Employers who posted related jobs on local job boards: DZ Atlantic, Pipeline Systems Incorporated, M3 Engineering & Technology Corporation, General Employment Enterprises Inc.

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

www.globalspec.com/reference/2638/American-Design-Drafting-Association-ADDA

Drafting and CAD Design Overview At-A-Glance:

- Prepare technical drawings for buildings and other structures
- Work with engineers and architects
- Often specialize in an area of construction
- Use CAD (computer-aided design)
- May work overtime to meet deadlines
www.azcis.intocareers.org

For additional information on Drafting and CAD 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

