

# Career Profile for Electromechanical Automation Technology

**General Program Description:** The **Associate in Applied Science (AAS) degree in Electromechanical Automation Technology** prepares students to work as electromechanical automation technicians in industrial and commercial companies, using equipment that incorporates mechanical, hydraulic, pneumatic, electronic, optical, and thermal devices. The program provides a broad algebra-based background required for a career in Electro-Mechanical Automation Technology. The optional **Certificate of Completion (CCL) in Electromechanical Automation Technology** provides a stepping path that leads to the AAS degree.

**Advancement Options:** Opportunities for advancement in this occupation are best for engineers who keep up on the rapid changes in technology. This requires periodic retraining. Engineers start in entry-level positions. They generally advance to higher positions as they gain experience and knowledge. With experience and the desire to supervise others, engineers may eventually advance to chief engineer. This position oversees all projects and manages other engineers.

**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     | \$14.34                                     | \$21.50         | \$33.03         |
|                 | Yearly     | \$29,800                                    | \$44,700        | \$68,700        |
| Greater Phoenix | Hourly     | <b>\$14.71</b>                              | <b>\$18.93</b>  | <b>\$25.94</b>  |
|                 | Yearly     | <b>\$30,600</b>                             | <b>\$39,400</b> | <b>\$54,000</b> |
| Arizona         | Hourly     | \$14.87                                     | \$19.38         | \$27.30         |
|                 | Yearly     | \$30,900                                    | \$40,300        | \$56,800        |

For more career information for Electromechanical Technicians, visit:

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

For MCC program information, contact  
John Bentley, 480-461-7127,  
Electromechanical Automation Program Director,  
or visit <http://www.mc.maricopa.edu/dept2/electronics/>

\*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:** Aircraft Structure, Surfaces, Rigging & Systems Assemblers; Coil Winders, Tapers & Finishers; Computer-Controlled Machine Tool Operators, Metal & Plastic; Electric Motor, Power Tool, & Related Repairers; Stationary Engineers & Boiler Operators; Welders, Cutters, Solderers, & Brazers; Welding, Soldering, & Brazing Machine Setters, Operators & Tenders

**Types of Employers:** Medical equipment, semi-conductor, defense, communications, transportation, industrial, power, electronic systems

**Local Employers who posted related jobs on local job boards:** Manpower Inc., SUMCO Phoenix Corporation, Adecco North America, General Dynamics

**Professional Associations**  
**Institute of Electrical and  
Electronics Engineering**  
[www.ieee.org](http://www.ieee.org)

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

**IEEE Computer Society**  
[www.computer.org/portal/site/ieeecs/index.jsp](http://www.computer.org/portal/site/ieeecs/index.jsp)

### Electromechanical Technicians Overview At-A-Glance:

- Usually specialize in one area
- Design things from cell phones to power generators
- Often work in teams and with clients
- Help engineers solve technical problems
- Often assemble prototypes for testing
- Work in most areas of engineering
- May work overtime to meet deadlines
- Work indoors in laboratories, offices, or manufacturing plants

[www.azcis.intocareers.org](http://www.azcis.intocareers.org)

**For additional information on Electromechanical Technician careers or to watch occupational videos, visit:**

Arizona Career Information Systems (AzCIS)  
[www.azcis.intocareers.org](http://www.azcis.intocareers.org)  
User name: mesacc; Password: 4azcis02  
Career Voyages  
[www.careervoyages.gov](http://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<br>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

