



AZ HIGH TECH FUTURES

AUTOMATION & ROBOTICS

Programs available at: Mesa, GateWay, Maricopa Skill Center






What can I do in Automation & Robotics?

Automation is a highly technological industry where technicians control machinery and robotics with computers. Manufacturing processes utilize high-tech systems using electronics, lasers, and hydraulics. An automation technician learns these sophisticated systems in order to program and troubleshoot them.

Day in the Life

Start the day with a process engineer looking over plans for a new system. Next, replace some malfunctioning optical sensors and double-check the computer code that controls the conveyor belts. Work with a team to install a new machine and test every aspect of its performance.

Show Me the Money

Entry level		\$30,800/yr
Mid level		\$46,600/yr
Senior level		\$70,400/yr

Students in our courses will learn skills that are aligned with industry standards. Students will learn how to:

- Set-up and repair equipment using various machine shop tools
- Read and interpret engineering documentation common to manufacturing
- Diagram, construct, measure, and analyze test circuits and networks
- Understand the effects of actions on the system as a whole
- Apply project management and teamwork strategies to lean and six sigma methodology
- Select, install, troubleshoot, and maintain motors, sensor, and relays

STEVE RECTOR – EQUIPMENT TECHNICIAN – BARD PERIPHERAL VASCULAR

Steve Rector is an Equipment Technician at Bard Peripheral Vascular where they make cardiovascular grafts and stents. "They fully depend on me to make sure all the equipment is running and operational for manufacturing."

He enjoys seeing projects develop into products: "I feel like it's a direct result that saves peoples lives."

He began his education with Maricopa Community Colleges while working at another company. "Initially I just took classes to gain the skills I needed to keep my job." A few courses later, he decided to get an AAS degree.

Now he is working towards a Bachelors, and plans to pursue an MBA degree.



PURSUE YOUR HIGH TECH FUTURE THROUGH MARICOPA COMMUNITY COLLEGES!

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Mesa & GateWay Community Colleges (Shared Program)

Associate of Applied Science (AAS) in:

- Automation Technology (64-68 credits)*

Certificate of Completion (CCL) in:

- Automation Technology Level 1 (17 credits)*
- Automation Technology Level 2 (15-17 credits)*
- Automation Technology Level 3 (10 credits)*

Mesa Community College (Only)

Certificate of Completion (CCL) in:

- Electromechanical Manufacturing Technology (34 credits)

Maricopa Skill Center (Only)

Certificate of Completion (CCL) in:

- Automation Technology (611 hrs)
- Automation Technology Fast Track (58 hrs)
- Automation Technology Integrated (173 hrs)

(* indicates it is a hybrid program. This new program in Automation Technology will be offered beginning Spring 2010. Students will take online classes and hybrid classes with open lab times.

PURSUE YOUR HIGH TECH FUTURE THROUGH MARICOPA COMMUNITY COLLEGES!

Whether you're just out of high school, going back to college, or seeking to upgrade your job skills, the Maricopa Community Colleges offer a wide range of opportunities. Our 10 colleges and 2 skill centers are dedicated to excellence, meeting your educational needs with affordable, convenient classes.

Learn more at www.azhightech.com

- Chandler-Gilbert
- Estrella Mountain
- GateWay
- Glendale
- Maricopa Skill Center
- Mesa
- Paradise Valley
- Phoenix
- Rio Salado
- Scottsdale
- South Mountain
- Southwest Skill Center



HTWI is an initiative of the Division of Academic and Student Affairs at the Maricopa Community Colleges.



HTWI
HIGH TECH WORKFORCE INITIATIVE



National
Science
Foundation

Funded, in part, by a grant from the National Science Foundation. DUE 0603379