



AZNext

Arizona State
University

Closing the Skills Gap to Build the Future Workforce

AZNext is a training program designed to create a bold, innovative, and sustaining workforce development ecosystem that addresses the need for more skilled workers in modern data analytics, IT, cybersecurity, and advanced manufacturing roles in Arizona and across the U.S.

**Provided at no cost to
the participant.**

Contact Us

Email

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Website

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Social Media

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Want to Work with REAL VACUUM TECHNOLOGY Used in Semiconductor and Other Manufacturing? Join Our Newest AZNext Program at ASU!



The **AZNext Vacuum Fundamentals** program is open for enrollment.

This course introduces you to the practices and technologies used by Various industries utilizing vacuum technology in manufacturing.

This program can start you on a career in the fast-growing field of vacuum science used in many areas today such as: Semiconductor Manufacturing, Aerospace/Aviation, Electronics, Solar Panel Manufacturing, and Medical Device manufacturing just to name a few. During this course, you will learn the theories behind vacuum science as well as use real, industry-level components to build and test data from an actual vacuum chamber apparatus. When you complete this course, you will have a working basic knowledge of vacuum components, sensors, pumps and the overall technology of vacuum used by industry today.

This course is designed for beginners with no previous knowledge of vacuum technology (see note in admission requirements). So perfect for entry level and workers looking to upskill or reskill, or experienced workers looking to sharpen their skills.

Technologists and Technicians?

Technologist and Technicians are classified as “Bright Outlook occupations” from the Bureau of Labor Statistics [website](#) which is officially defined as the occupations to be expected to grow rapidly in the next several years with large numbers of job openings.

Fast Facts

Median Salary: \$61,210 (U.S.)

Job Growth: Estimated 25% or Higher (US)

How to Apply



Link to [Application](#)

Questions

Email: AZNext@asu.edu

To learn more, connect with AZNext today!

Program Timeline

The program is offered in-person on the ASU Polytechnic Campus in Mesa AZ. and lead by an instructor with real-world experience in the field of vacuum. You will be working on a team with other students such as yourself in a laboratory environment building a vacuum chamber.

This specialization program covers:

- 1) Vacuum theory.
- 2) What leading industries use vacuum systems.
- 3) How vacuum systems are used in these industries.
- 4) You will build an entire vacuum chamber by hand.
- 5) Using the latest in vacuum sensors and vacuum pumps, you will use an Arduino Microprocessor to take data on the system and learn about pressure measurements and leak detection.
- 6) As a bonus, you will see how you can boil water until it freezes.....

When you complete this exercise, you will know many of the basic components and sensors and pumps etc. used in vacuum technology and be able to speak intelligently on the topic. **The course is 1 full 8-hour day**, offered on various days of the week (contact us for the latest schedule).

What You Will Receive

Upon successfully completing the course participants will receive an AZNext/ASU Digital Certificate.

Admission Requirements

Participants must be:

- 17 years of age or older
- A high school or GED graduate
- Unemployed, underemployed, looking to upskill/retrain