

NAU Microelectronics Metrology/Quality Control Apprenticeship Program

In alignment with the goals of the nation's CHIPS Act, NAU is committed to developing a future-ready workforce that fuels microelectronics innovation and bolsters domestic production capabilities. Through our unregistered and registered Arizona Apprenticeship Programs in Phoenix and Flagstaff, we offer exceptional training opportunities for individuals seeking careers in advanced manufacturing metrology, quality assurance and calibration roles, including:

- Calibration Technicians
- Quality Control Analysts
- Semiconductor Processing Technicians

NAU goes beyond standard training programs by partnering with companies to provide training that meets and surpasses professional industry standards and offers a tailored training experience for individual employers. Here are some of the benefits companies receive from hosting their own apprenticeship program:

- Targeted Talent Acquisition: Bridge the skills gap with a workforce trained precisely for your requirements.
- Enhanced Productivity: Boost efficiency by instilling best practices and fostering a knowledge-sharing culture.
- Reduced Turnover Costs: Cultivate loyalty & retention, minimizing onboarding and recruitment expenses.
- Succession Planning Made Easy: Ensure workforce stability by developing future leaders from within.
- Improved Safety and Performance: Equip your team with the skills and knowledge to prioritize safety and maximize output.
- Innovation Spark: Embrace fresh perspectives and ideas from new generation of talent.

NAU Microelectronics Metrology/Quality Control Apprenticeships provide a rigorous and comprehensive curriculum aligned with the highest industry standards. Invest in your future and empower your team with the expertise they need to excel in the dynamic microelectronics industry.

Modules:

Fundamental Understanding of Microelectronics and Metrology
Technical Skills, OTJ Training
Quality Assurance and Control
Problem-Solving and Analytical Skills

Technical Documentation and Reporting
Safety and Compliance.
Soft Skills
Adaptability to Technological Advancements
Project Management Basics (for those aiming at quality manager roles)
Ethics and Professionalism

Length of Programs:

- High school and CTE students, NAU offers a 2-year program of in-depth instruction and on- the- job-training at your site.
- AAS degree holders, have same option for only 1 year
- BS degree holders, need just one semester along with their on-the-job-training

Arizona Apprenticeship Program Requirements:

Per the Arizona Department of Economic Security, “Apprentices must be full-time employees of the employer who is sponsoring the training program. In a School-to-Registered Apprenticeship program, apprentices may be employed part-time. The wage of an apprentice starts at 40-50% of a skilled worker's wage and will increase progressively with satisfactory completion of work assignments and Related Technical Instruction”. Apprentices must attend Related Technical Instruction combined with a required on-the-job-learning experience. Most programs require approximately 144 hours of Related Technical Instruction to 2,000 hours of apprenticeship-related, hands-on training.

NAU collaborates with stakeholders to provide comprehensive program support. We design and deliver engaging technical instruction, develop marketing materials and manage recruitment campaigns, and handle all administrative tasks. Additionally, we work closely with partners to monitor and evaluate the program, ensuring it remains relevant and effective.

Potential Apprenticeship Program Funding for Employers:

The Arizona Department of Economic Security notes funds may be available to eligible employers to provide the cost of tuition, books, supplies, fees, uniforms, tools, and other items needed by the client to complete the Registered Apprenticeship program. The Workforce Innovation and Opportunity Act (WIOA) allows for funding that may also support outreach, recruitment, application; intake and assessment; supportive services; related technical instruction/classroom training; on-the-job training and customized training.

To find out more, please contact:

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