



Partnerships

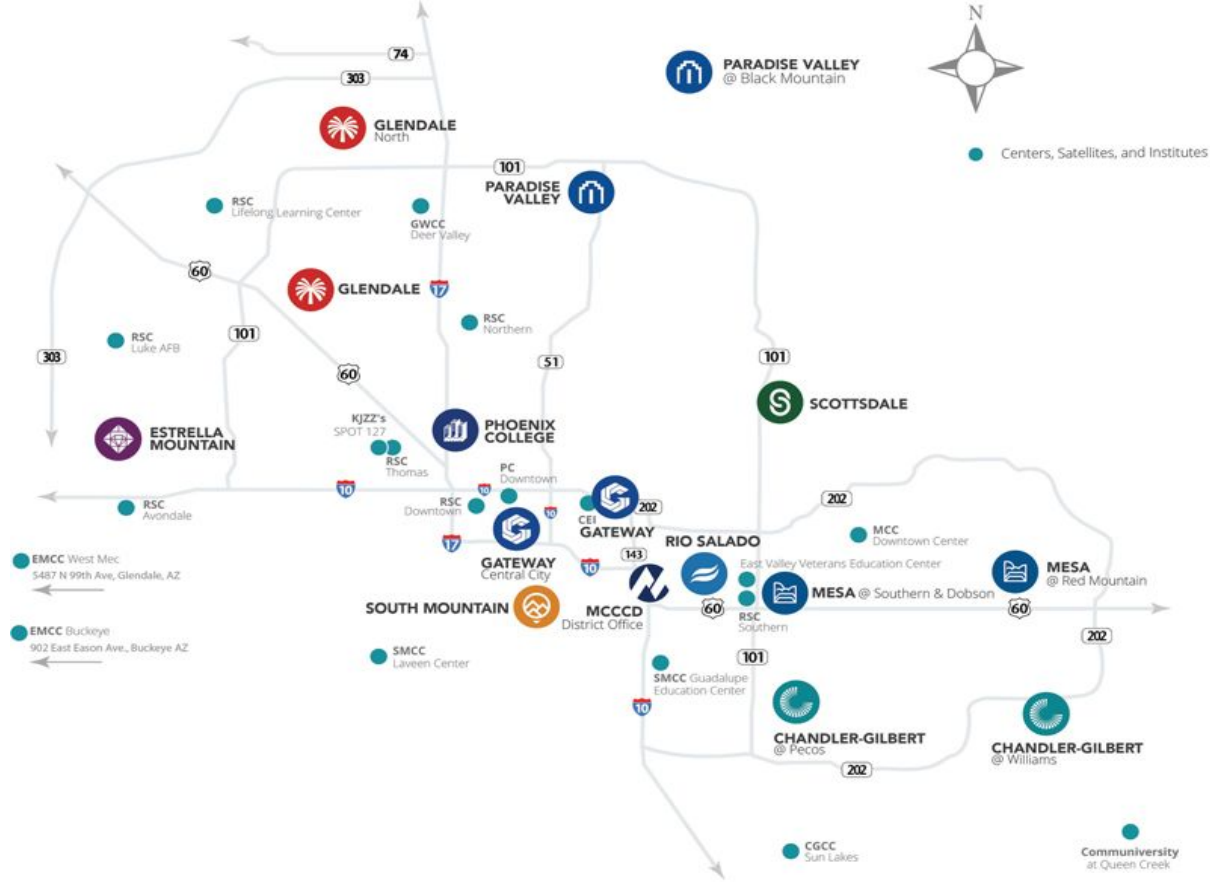
Building a Pipeline for Scope and Scale



MARICOPA
COMMUNITY COLLEGES

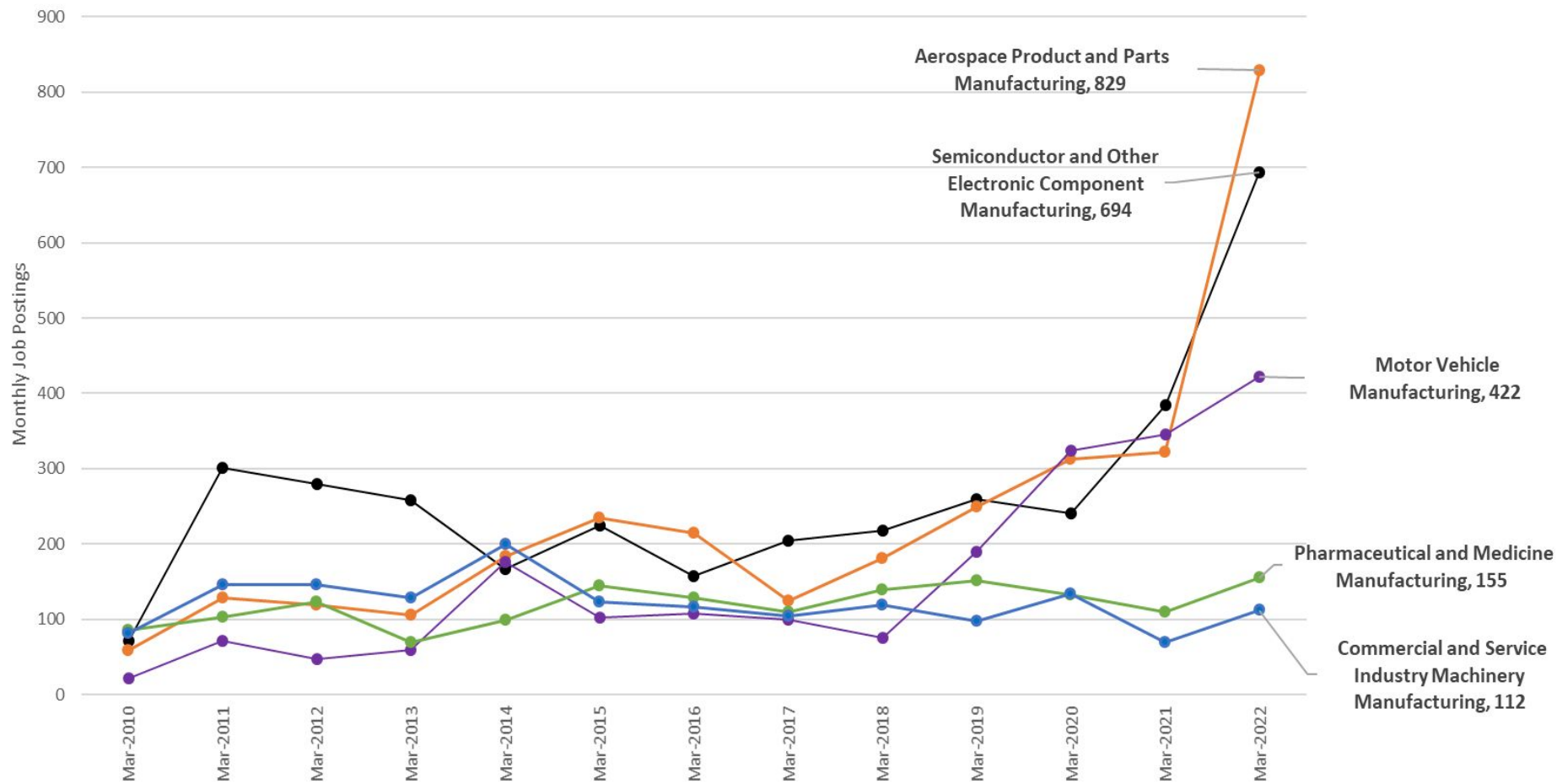
Leah Palmer, *Executive Director - Arizona Advanced Manufacturing Institute AzAMI,*
Maricopa Community College District lpalmer@mesacc.edu

Maricopa Community Colleges



- ✓ **College Based**
- ✓ **Regionally Focused**
- ✓ **Sector Driven**

Job Postings for Top 5 Manufacturing Industries



Now Enrolling

SEMICONDUCTOR TECHNICIAN QUICK START

LEARN
MORE



maricopa.edu/semico

Photo credit: Intel



Begin your exciting new career with only **10 days of training.**



Quick Start programs will be offered at:



CONTACT

Email: enrollment.services@domail.maricopa.edu
Call or text: (480) 731-8660

Semiconductor Marketing



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The Maricopa County Community College District (MCCCD) is an EEO/AA institution and an equal opportunity employer of protected veterans and individuals with disabilities. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, age, or national origin. A lack of English language skills will not be a barrier to admission and participation in the career and technical education programs of the District. The Maricopa County Community College District does not discriminate on the basis of race, color, national origin, sex, disability or age in its programs or activities. For Title IX/2004 concerns, call the following number to reach the appointed coordinator: (480) 731-8660. For additional information, as well as a listing of all coordinators within the Maricopa College system, visit <http://www.maricopa.edu/non-discrimination>.

HOW WE ARE MAKING IT HAPPEN:

Quick Start Partnership Design

- ✓ **Acceleration MODEL** for targeting scope scale designing 10-day credit courses belonging to an existing **pathway earning college credit, industry certification and leads to a degree pathway.**
- ✓ **Recruited Adjunct Faculty** recruited 49 qualified 20 instructors trained and teaching currently
- ✓ **Joint Marketing Systemized** - college teams use landing pages, QR codes, measure hits, pretesting for readiness, constant contact
- ✓ **Industry Hiring Recruiters** connect at hiring Fairs monthly
- ✓ **DEI is a Priority** - increasing the **# of women** technicians as well as overall **diversity and equity (measured)**
- ✓ **State Partnership** - Economic Development - Industry and Engagement



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Meeting Current and Future Demand: Scope and Scale -Building the Infrastructure

- ✓ **Regional Approach** (3) collaborating across Maricopa County for using Systems Driven student access, leveraging Automated Industrial Technology (AIT) program
- ✓ **Curriculum AIT 132 Designed Maricopa Faculty and Industry**, centralized project management, equipment and certifications meeting (**weekly**)
- ✓ **Resource Development & Grant Funding \$1.5M**
 - A. Support from industry with the tools, equipment and supplies needed for the job roles.
 - B. State and Foundation Funding tuition, equipment and Staffing for Student Navigation 1.5M and 300K to deploy
- ✓ **Shared Data** pipeline matriculation from **outreach to employment** with benchmarking and refinement where needed.



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Student Data - Aerospace

(June 2019 – December 2023)

- Certifications to Date: **928**
- Number of Classes: **109**
- Number of Students: **860**
- Students of Color: **45%**
- Female Students: **26%**
- Age Group 18-29: **61%**
- First Generation: **51%**



Race & Ethnicity

Race Ethnicity



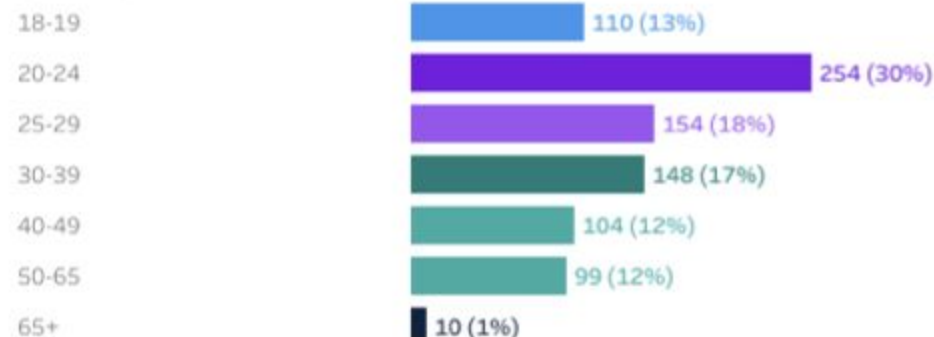
Gender



Max First Generation



Age Groups



Student Data - Semiconductors

(June 2022 – December 2023)

- Certifications to Date: **774**
- Number of Classes: **75**
- Number of Students: **814**
- First-Gen returning: **62**

- Students of Color: **65%**
- Female Students: **33%**
- Age Group 18-29: **44%**
- First Generation: **50%**



Race & Ethnicity



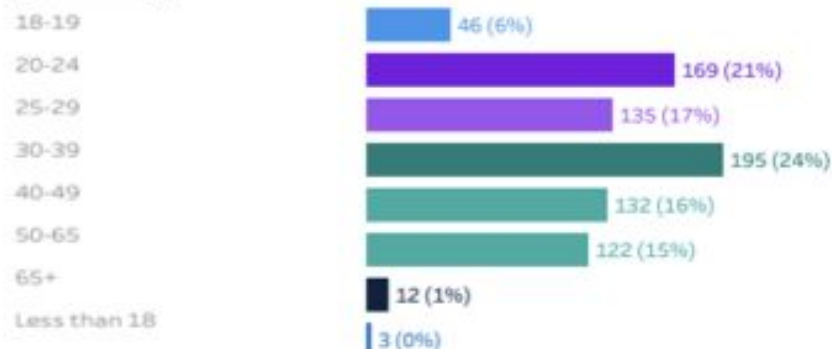
Gender



Max First Generation



Age Groups



Automated Industrial Technology Program (AIT)

- **AIT Certificate I**
 - AIT100 Industrial Safety
 - AIT105 Modern Maintenance Operations
 - AIT 110 Mechanical Power Transmission Systems
 - AIT 115 Hydraulic Systems
 - AIT120 Pneumatic Systems
 - AIT 125 DC and AC Components and Circuits
- **AIT Certificate II**
 - AIT 205 Power Electronics and Variable Frequency Drives (VFD)
 - AIT 210 Programmable Logic Controller (PLC) Programming and Troubleshooting
 - AIT 215 Process Control Systems (Controlling Liquid Flow & Chemicals)
 - AIT 225 Industrial Motors and Motor Control
 - AIT 270 Robotics 1 (Universal Robots)
- **Associate of Applied Science – Additional Courses**
 - AIT 275 Robotics 2 (FANUC Robots and Interfacing to Vision Systems)
 - AIT250 AIT Capstone (Configure, Program entire Machine with Robot)
 - AIT 291 AIT Internship
- **AIT QuickStart/Bootcamp CCL Courses and technical Electives to Pathway**
 - AIT 123 J-STD Soldering Certification
 - AIT 124 Composites
 - AIT 128 A-620 Cable and Wire Harness Assembly Certification
 - AIT 132 Industrial Technology for the Semiconductor Industry



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IMPACT that Moves the Needle

Meeting Immediate need:

- **Program Portal Entries: 5532 students** have entered the landing page to start enrollment process. **Over 4,000 have passed the pre-test**, affirming they are ready for enrollment.
- Currently serving **projected 892 semiconductor technicians** from July 2022 through December 2023.

Skills Credentialing:

- **Professional Skills training for the workplace:** Situational Awareness, reading, math and Navigation for information
- **NIMS and IPC A620 industry certification testing:** portable Semiconductor competencies and serves WIOA participants



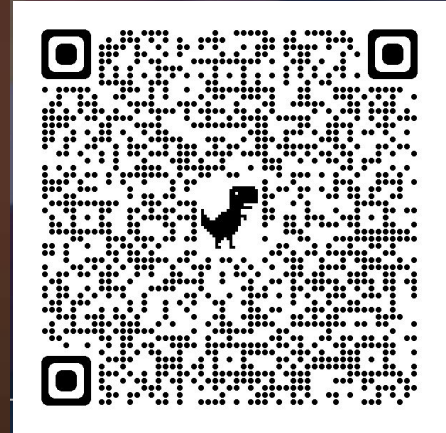
VIRTUAL REALITY RECRUITMENT

- ✓ 80 Virtual Oculus Headsets for training to recruit and could be used to strengthen classroom hands-on applications
- ✓ A Career Exploration tool for building student interest in high schools for aerospace and semiconductor (over 600 experienced VR)
- ✓ Can be designed as an assessment tool prior to enrollment.
- ✓ Reaching underserved communities with new opportunities





Changes Lives



Questions?



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Press-Building Scope and Scale

[My Trip with the First Lady Dr. Jill Biden](#)

<https://www.abc15.com/news/first-lady-jill-biden-to-visit-valley-tucson-on-monday>

<https://www.ccdaily.com/2022/03/flexible-training-programs-for-in-demand-jobs/>

Technology Magazine

-- <https://www.technologymagazine.org/intel-maricopa-to-unveil-workforce-development-initiative-at-mcc/>

<http://anglenews.com/jill-biden-pays-tribute-to-beau-during-tour-of-the-tohono-oodham-nation-on-cancer-center/>

<https://inbusinessphx.com/technology-innovation/maricopa-community-colleges-and-intel-to-launch-new-semiconductor-manufacturing-workforce-development-initiative>

<https://finance.yahoo.com/news/job-training-community-colleges-agenda-180810330.html>

Aerospace press

<https://www.route-fifty.com/management/2022/04/states-look-community-colleges-fill-labor-gap/365684/>

https://www.tucsonsentinel.com/nationworld/report/041522_community_college_labor_states-look-community-colleges-fill-labor-gap/

<https://birminghamwatch.org/states-look-to-community-colleges-to-fill-labor-gap/>



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