



The Advanced Technology Center

SCCRC June 2024

What is the ATC?

- In 2017, the College conducted an environmental scan of Advanced Technologies in northern LA County with the assistance of the National Coalition of Advanced Technology Centers (NCATC).
- The scan concluded that the rapid growth in industrial automation and advanced technology, with its focus on “Industry 4.0”, and an aging workforce population in these industries has created the urgent need for skilled workers in advanced technology sectors including: integrated advanced manufacturing/computerized machining (CNC), welding/material joining, robotic manufacturing and welding, and integrated personal fabrication.

The need in this region is for employees with skills higher than those of a basic operator but less than an engineer.

College of the Canyons in collaboration with the William S. Hart Union High School District has a significant opportunity for growth in the advanced technology and manufacturing sector by expanding the curricular focus beyond basic operator skills to a focus on skill attainment that includes programming, diagnostics, and entry-level management skills. The jobs that result in this type of technical educational skill attainment are middle-skill level and provide wages for economic and social mobility.

Preparing Students for the Future of Work

Castaic High School
Manufacturing & Welding
Pathway

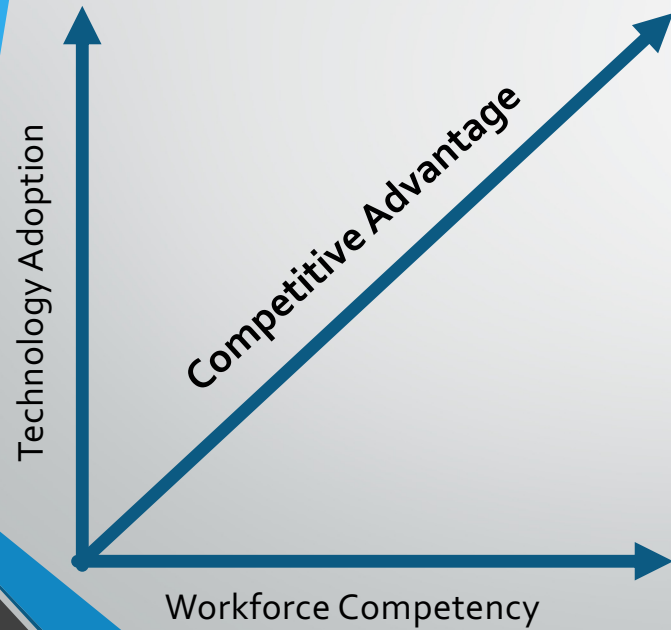
Manufacturing Essentials
Certificate of Specialization
Welding Certificate of
Specialization

ATC 2023-2024
Milling and Tooling
Manufacturing Essentials
Low-Observable Pathway

ATC 2024-2025
Machine Tending and Robotics
Certified Production Technician
CNC Manufacturing

ATC 2025-2026
Mechatronics
Certified Logistic
Technician

World Class Technology



New Program Launch

- The first credit pathway in Milling and Tooling will begin Fall Session 2024. This is a focused pathway comprised of 7 five-week courses resulting in certificate completion by next Spring (2024). Also, several industry recognized credentials will be available through NIMS (National Institute on Metalworking Skills) upon completion.
- Apprenticeship pathways are being developed.
- As the Advanced Manufacturing pathway is underway at Castaic High School this semester, students completing the pathway will be able to matriculate into the ATC in fall 2024.

The Power of Partnerships



The ATC is a public/private partnership. Our partners, who include industry and our vendors, have been instrumental in the design of both the physical space and the curriculum.



B&B Manufacturing
solutions in manufacturing

FANUC



APT

MANUFACTURING solutions

FMI

— AEROSTRUCTURES —



TA AEROSPACE

NORTHROP GRUMMAN



LOCKHEED MARTIN



KLEIN
Educational Systems



ITT

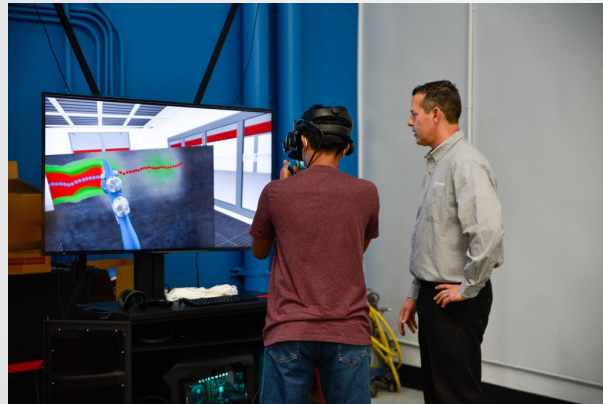
Glenair



WOODWARD

SUNVAIR

Low Observable Career Pathway



- >> ENTRY-LEVEL TRAINING.
- >> PROSPEROUS CAREER PATH.
- >> STEALTH TECHNOLOGY.
- >> YOU.



Are you interested in starting a career through experience and exposure, all the while supporting a mission that seeks to ensure the security of our nation and its allies? If so, then Northrop Grumman and COC's Low Observable program may be for you.



Stealth technology, also termed low observable technology, covers a range of methods and materials used to make aircrafts, ships, submarines, missiles, satellites, and ground vehicles less visible to radar and other detection methods. This 170-hour course offers participants the opportunity to be on the cutting-edge of the latest low observable technology. The program aims to train and prepare participants for an entry-level job as a Low Observable Specialist, which is in very high demand.



If you're interested in this opportunity, learn more and sign up here:
<https://www.eventbrite.com/e/low-observable-information-session-4th-cohort-tickets-492807469407>



Making a 200 Ton Aircraft Disappear is Impossible. Until it's Not.

ATC Promo Video

- <https://www.youtube.com/watch?v=CqL3SFAWaFs&t=2s>