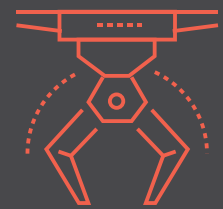




Advanced Manufacturing

North (Greater Sacramento)
Career & Training Pathways Profile



2026

Five-Year Outlook

6% sector growth

4,500+ annual job openings

3.2% of Greater Sacramento's jobs



FOR LABOR MARKET RESEARCH
NORTH FAR NORTH

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Introduction

Advanced Manufacturing has been greatly transformed through cutting-edge technological innovation, namely automation, robotics, and artificial intelligence (AI).

This sector involves the development of new products through manufacturing processes, as well as the maintenance of the machines and technologies used to create those products.

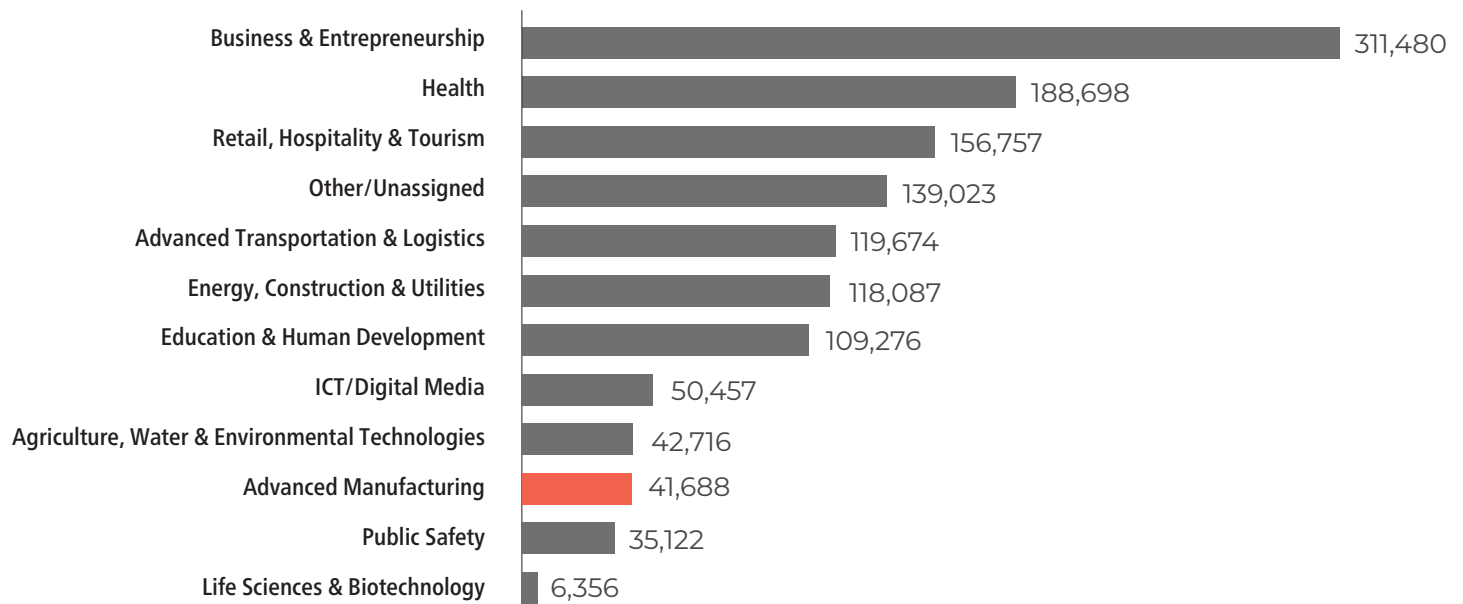
To make businesses more competitive, advanced manufacturing utilizes technologies, such as computer numerical control (CNC) machining, 3-D printing, robotics, and computer-aided design and drafting (CADD).

There is a diverse range of manufacturers in the Greater Sacramento area, including those in food and beverage manufacturing, metal fabrication, vehicle manufacturing, machining equipment, and defense technologies. The Greater Sacramento area is also a hub for semiconductor manufacturing. Thanks in part to funding from the CHIPS and Science Act and Cal Competes tax credits, the Greater Sacramento area plans to invest over \$2 billion in semiconductor projects in the region.



This field is a good fit for students who enjoy troubleshooting and problem solving. As the sector evolves, it will continue to need workers who are comfortable learning new tools and adapting to changing production technologies.

2024 Sector Employment



Note: The North subregion encompasses seven counties (El Dorado, Nevada, Placer, Sacramento, Sutter, Yolo, and Yuba) and eight community colleges (American River, Cosumnes River, Folsom Lake, Lake Tahoe, Sacramento City, Sierra, Woodland, and Yuba). The North Far North region spans 22 counties and 15 community colleges, stretching from the Greater Sacramento area, north to California's border with Oregon, and east to Nevada.

Sector Highlights

41,688
Jobs in 2024

43,993
Projected Jobs in 2029

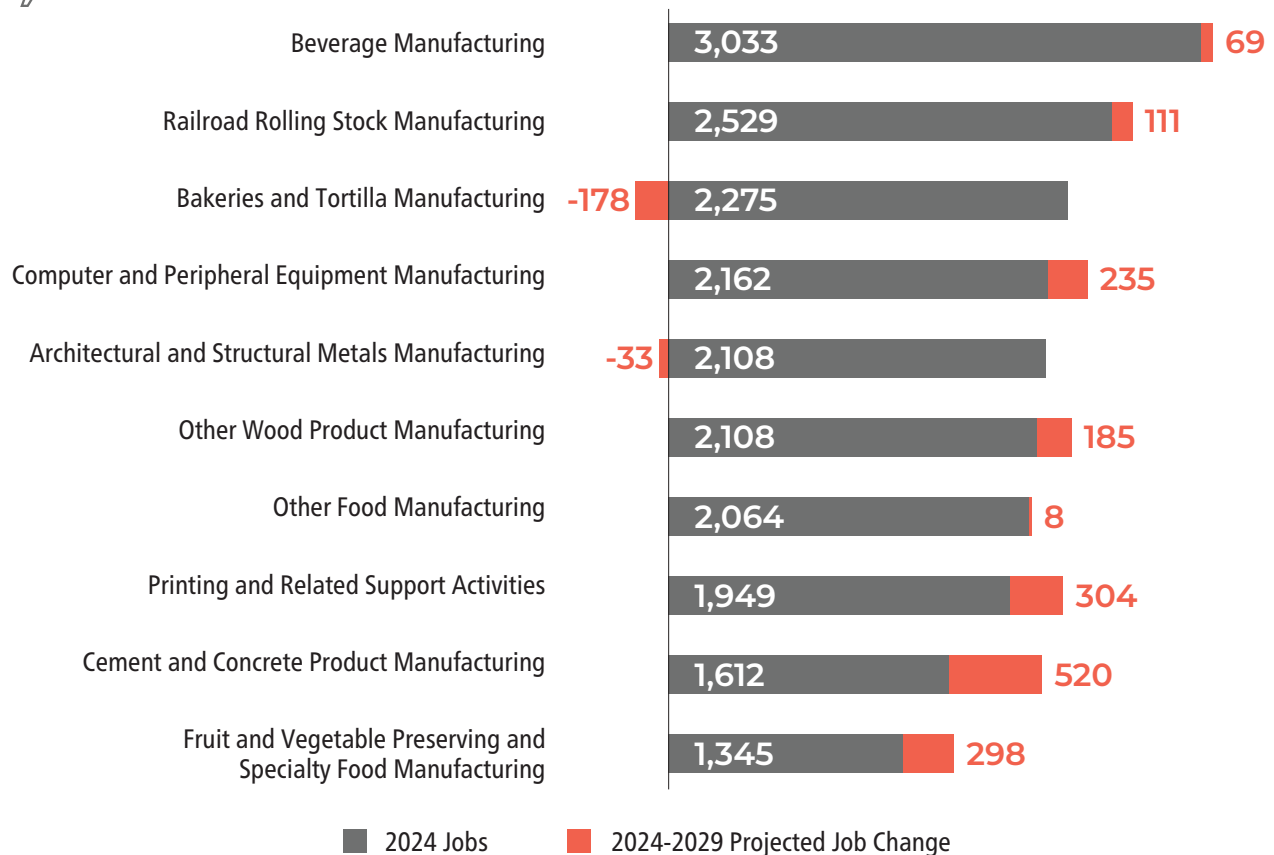
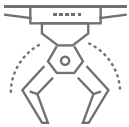
6%
Projected Job Growth,
2024-2029

2,305
New Jobs by 2029

1,908
Businesses

3.2%
% of Greater Sacramento
Employment, 2024

Employment by Subsector



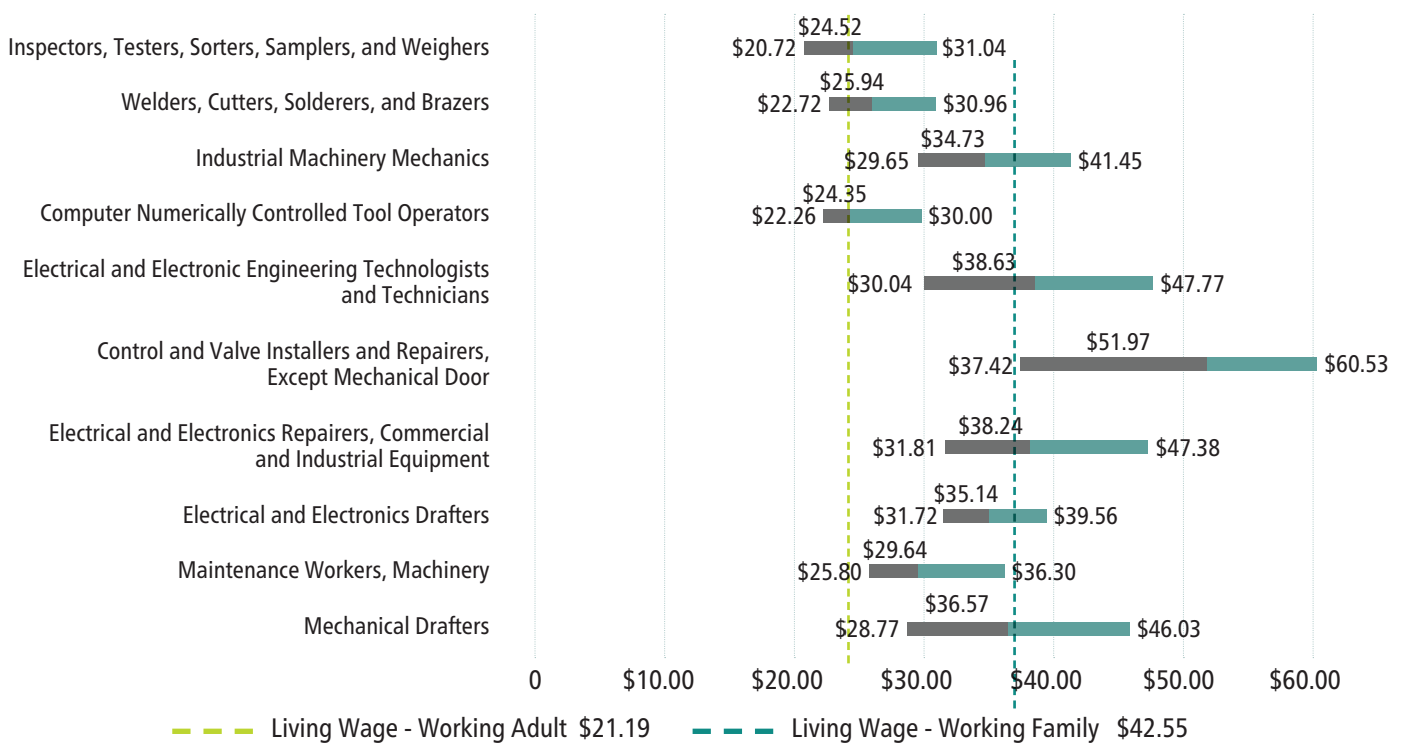
Note: The Advanced Manufacturing sector includes 325 distinct 6-digit NAICS codes. Contact the NFN COE for a complete listing of NAICS codes by sector.

Top Occupations

Occupation	2024 Jobs	2024-2029 Projected Change	2024-2029 Average Annual Openings	Typical Entry-Level Education
Inspectors, Testers, Sorters, Samplers, and Weighers	2,258	4%	285	High school diploma or equivalent
Welders, Cutters, Solderers, and Brazers	2,089	7%	244	High school diploma or equivalent
Industrial Machinery Mechanics	1,392	12%	149	High school diploma or equivalent
Computer Numerically Controlled Tool Operators	518	3%	54	High school diploma or equivalent
Electrical and Electronic Engineering Technologists and Technicians	483	4%	49	Associate degree
Control and Valve Installers and Repairers, Except Mechanical Door	310	17%	37	High school diploma or equivalent
Electrical and Electronics Repairers, Commercial and Industrial Equipment	356	4%	33	Postsecondary nondegree award
Electrical and Electronics Drafters	260	4%	25	Associate degree
Maintenance Workers, Machinery	192	10%	21	High school diploma or equivalent
Mechanical Drafters	204	2%	19	Associate degree

Note: Jobs for the above occupations may not solely exist in this sector and may be found in other sectors that require related services. Projected change includes new job growth and replacements.

Hourly Wages for Top Occupations



Note: The hourly wage ranges include the 25th percentile (entry-level), median, and 75th percentile (experienced) hourly earnings for workers employed in these occupations across the North (Greater Sacramento) subregion where the living wage in 2024 for a single working adult was \$21.19 and for a working family (defined as an adult and one infant) was \$42.55.



Job Posting Trends

Job posting trends examine all occupations assigned to the Advanced Manufacturing sector, regardless of skill or education level in the Greater Sacramento subregion.

Unique Online Job Postings

7,302

(3% of Region's Postings)

Median Advertised Hourly Salary

\$29.91

(Regional Average \$30.77)

Median Posting Duration

27 days

(Regional Average 25 Days)

Posting Intensity

3:1

(Regional Average 2:1)

Note: Job postings count the number of online job postings advertised in the 7-county North (Greater Sacramento) subregion between November 1, 2024 and October 31, 2025. COE has identified 105 occupations aligned with the Advanced Manufacturing sector, and those SOC codes were used to generate the list of aligned job postings. Contact the NFN COE for a complete listing of SOC codes by sector. Postings are limited to in-state employers and exclude staffing companies. Posting Intensity is the ratio of total job postings to unique (de-duplicated) job postings. Job posting results are weighted toward occupations with the most postings, influencing the frequency of results for employers, job titles, skills, work experience, and education.



Top Employers

Employers with the Most Postings

- | | |
|------------------------|--|
| 1. Siemens | 6. Crane |
| 2. State of California | 7. PG&E |
| 3. Intel | 8. Kratos Defense & Security Solutions |
| 4. Sam's Club | 9. Mi Rancho |
| 5. Stantec | 10. Walmart |

Most In-Demand Skills

Specialized Skills

- Project Management
- Auditing
- Hand Tools
- Machinery
- Warehousing

Soft Skills

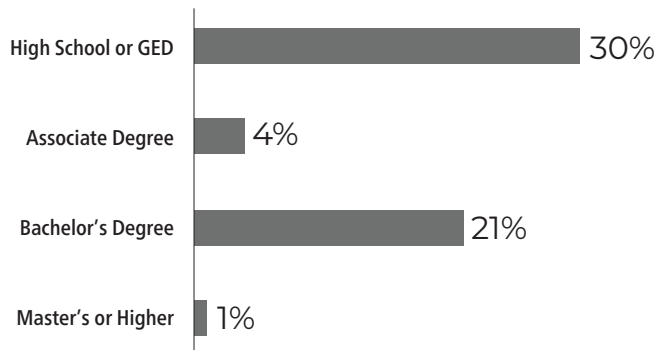
- Communications
- Operations
- Management
- Detail Oriented
- Problem Solving

Software and Technical Skills

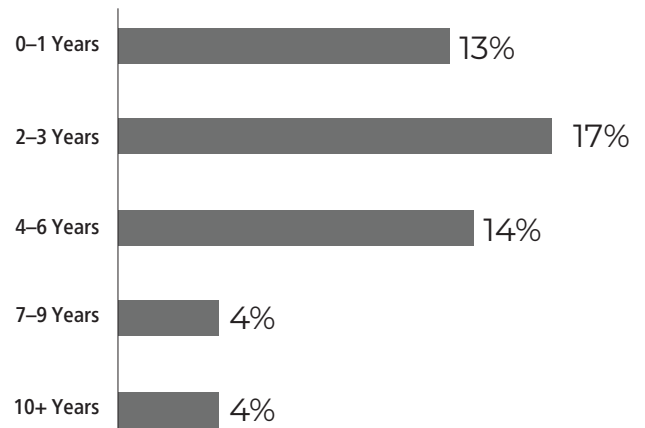
- Microsoft Office (Access, Excel, Outlook, PowerPoint, Word)
- AutoCAD
- Autodesk Revit
- Python
- SAP Applications

Education & Experience in Job Postings

Employer-Preferred Education



Employer-Preferred Work Experience



The percentages might not equal 100% because not all employers include education or work experience in their job postings.

COMMUNITY COLLEGE Training Programs



American River College	Cosumnes River College	Folsom Lake College	Lake Tahoe College*	Sacramento City College	Sierra College	Woodland Community College	Yuba College
Advanced Electronics and Telecommunications	Welding Technology	CAD/CAM Programming		Aircraft Maintenance Technician	Advanced Manufacturing	Welding Technologies	Welding Technologies
Digital Home Technology Integration		Manufacturing and Industrial Technology		Applied Apparel Studies Construction	Civil Engineering Technology		Fabrication and Manufacturing Methods
Electronic Systems Technology		Production Planning		Automated Systems Technician	Drafting and Engineering Support: Mechanical/Civil		Manufacturing Technology/Machining
Engineering Technology		Quality Technician		Electric (Power-Lighting Systems)	Facilities Automation and Building Energy		
Mechatronics		Modern Making		Electro-Mechanical Technician	General Engineering Technology		
Millwright Apprenticeship				Industrial Controls Technician	Mechatronics Technology		
Robotics				Industrial Maintenance Technician	Welding Technology		
Shielded Metal Arc Plate and Pipe				Mechanical (HVAC/Piping/Plumbing Systems)			
Solar Energy Systems Design, Estimation & Sales				Surveying (Geomatics)			
Solar Energy Technology							
Welding Technology							

* This/these college(s) do not offer programs related to the sector.

Note: Due to discrepancies in the California Community Colleges Curriculum Inventory (COCI) and how Taxonomy of Programs (TOP) codes are categorized by sector, this list may not include all related or currently available training programs.

This publication was supported through Strong Workforce Program (SWP) funding from the North Far North Regional Consortium and the California Community Colleges Chancellor's Office Economic and Workforce Development Grant. SWP is an initiative designed to expand career education (CE) programs offered by the California Community Colleges to supply a skilled workforce to California's employers. The North Far North Regional Consortium (NFNRC) is charged with coordinating the planning and implementation of CE programs among community colleges within the 22-county North Far North region, which includes the North (Greater Sacramento) and Far North subregions. The NFNRC has 12 sectors, which are listed in the chart on page 1. This sector profile summarizes key data about current and projected workforce demand, hourly wages, job postings, and community college programs to support the goals of SWP.



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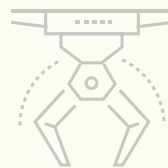
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Sources

- Lightcast 2025.4 - QCEW Employees, Non-QCEW Employees, and Self-Employed
- Centers of Excellence for Labor Market Research Occupation Crosswalk
- California Community Colleges Chancellor's Office Data Mart
- California Community Colleges Curriculum Inventory (COCI)
- "California Competes Tax Credit Awardee List - California Governor's Office of Business and Economic Development." 2016. <https://business.ca.gov/california-competes-tax-credit/awardee-list/>.

