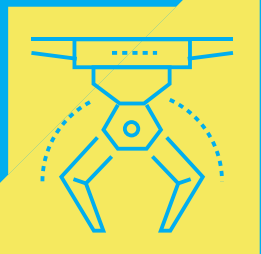




Advanced Manufacturing

North (Greater Sacramento) Subregional Sector Profile



2023



FIVE-YEAR OUTLOOK

9%
sector job growth
over next five years

4,500+
annual job openings
over next five years

3.5%
of Greater
Sacramento's jobs

This project is supported by Strong Workforce Program (SWP) funding.



Introduction

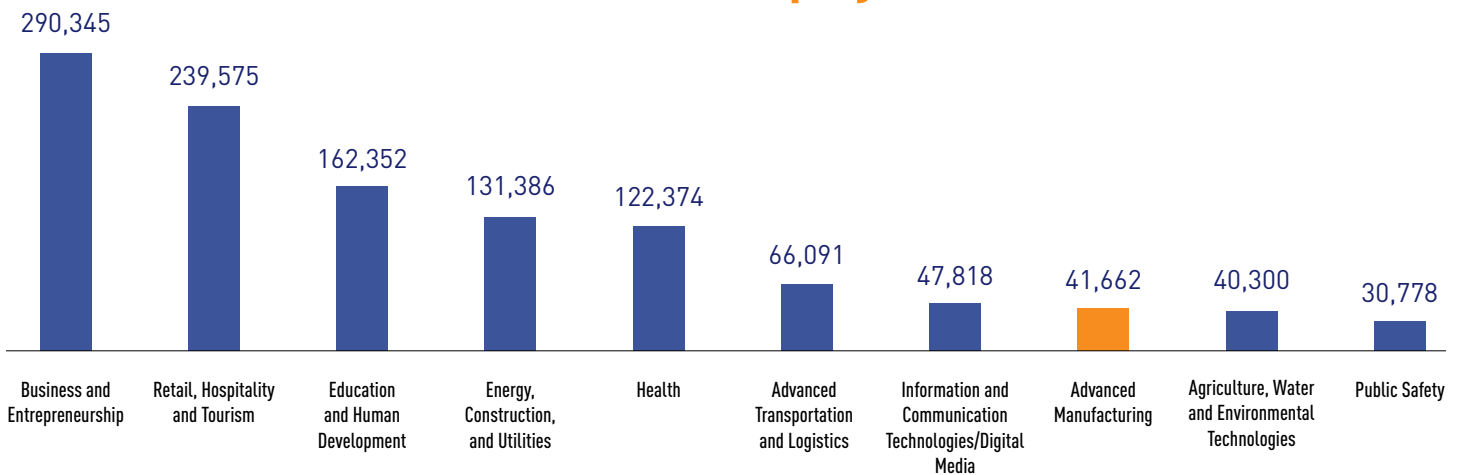
This sector profile highlights in-demand, middle-skill jobs that pay above a living wage. Middle-skill jobs, those which require education or training beyond a high school diploma but less than a bachelor's degree, are a critical component of the overall workforce and support the economic vitality of the region and the state.

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 California's Strong Workforce Program (SWP).

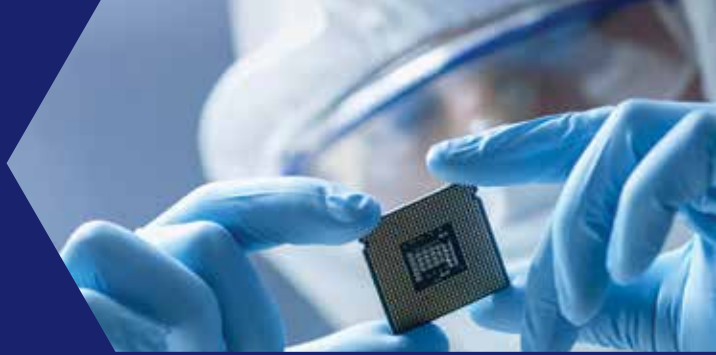
SWP is an initiative designed to expand career education (CE) programs offered by the California Community Colleges to supply a skilled workforce to California's employers. The North Far North Regional Consortium (NFNRC) is charged with coordinating the planning and implementation of CE programs among community colleges within the 22-county North/Far North region, which includes the North (Greater Sacramento) and Far North subregions.

The 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).

North (Greater Sacramento) 2021 Sector Employment



SECTOR Highlights



41,662
Jobs in 2021

45,328
Projected Jobs in 2026

9%
Projected Job Growth,
2021-2026

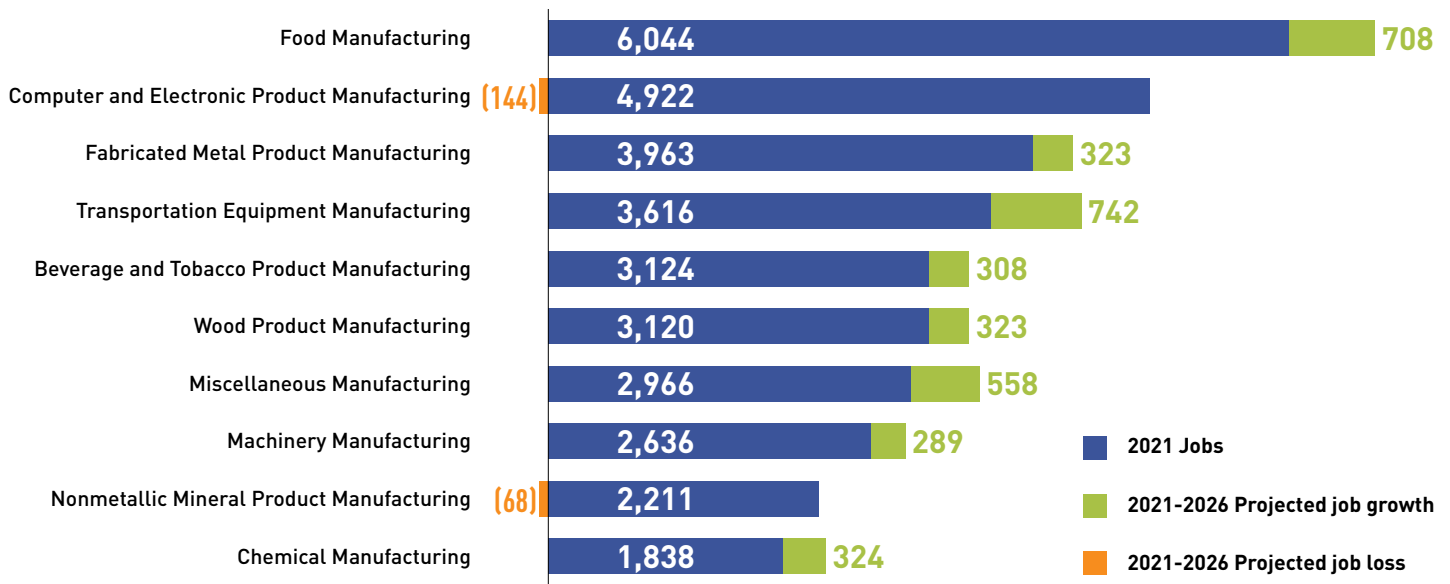
+3,666
New Jobs by 2026

1,799
Businesses

3.5%
of Greater Sacramento
Employment, 2021

Note: The Advanced Manufacturing sector includes 336 distinct 6-digit NAICS codes. Contact the NFN COE for a complete listing of NAICS codes by sector.

Employment by Industry Subsector

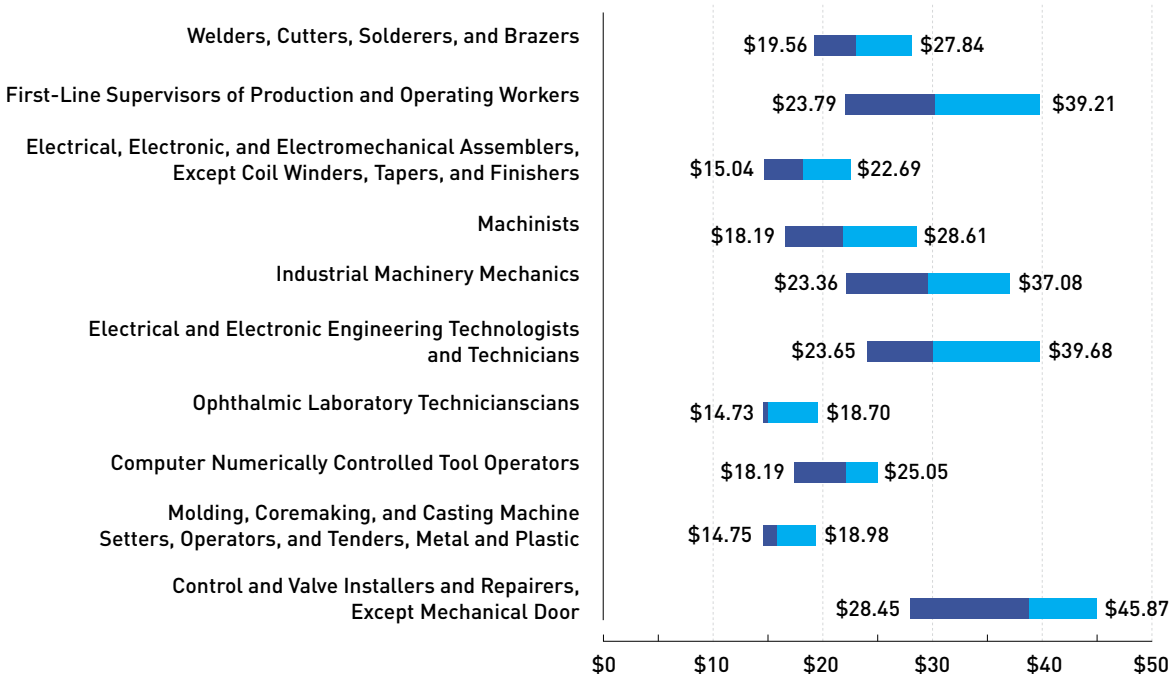


Priority Middle-Skill Occupations

Occupation	2021 Jobs	2021-2026 Projected % Change	2021-2026 Average Annual Openings	Typical Entry-Level Education
Welders, Cutters, Solderers, and Brazers	2,244	13%	308	High school diploma or equivalent
First-Line Supervisors of Production and Operating Workers	2,114	11%	262	High school diploma or equivalent
Electrical, Electronic, and Electromechanical Assemblers	1,308	6%	165	High school diploma or equivalent
Machinists	1,156	11%	150	High school diploma or equivalent
Industrial Machinery Mechanics	1,097	18%	140	High school diploma or equivalent
Electrical and Electronic Engineering Technologists and Technicians	687	5%	72	Associate degree
Ophthalmic Laboratory Technicians	370	7%	54	High school diploma or equivalent
Computer Numerically Controlled Tool Operators	391	11%	53	High school diploma or equivalent
Molding, Coremaking, and Casting Machine Setters, Operators, and Tenders, Metal and Plastic	360	12%	48	High school diploma or equivalent
Control and Valve Installers and Repairers	335	26%	48	High school diploma or equivalent

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 replacement jobs.

Middle-Skill Hourly Wage Ranges



These occupations pay a starting wage at or above the subregion's living wage.

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 Greater Sacramento subregion where the living wage in 2021 was \$14.53 per hour.

Priority Middle-Skill Job Postings



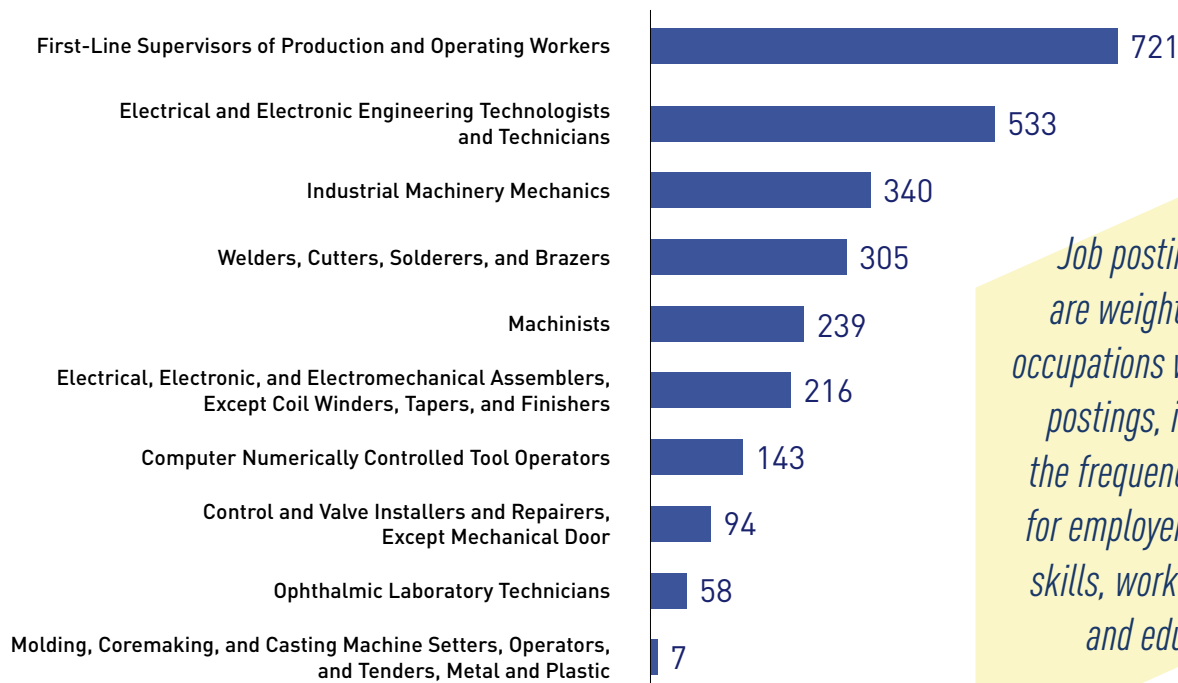
Posting intensity is the ratio of duplicated to unique job postings. A higher-than-average posting intensity can mean employers are putting more effort into hiring.

2,656
Online Job Postings

3:1
Posting Intensity
(Regional Average 4:1)

Note: Job postings count the number of online job postings advertised in the 7-county North (Greater Sacramento) subregion between January 1, 2022-March 31, 2023. Postings are limited to in-state employers and exclude staffing companies. Job posting results represent the top 10 priority middle-skill occupations.

Job Postings by Occupation



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 & Job Titles

Employers with the Most Postings

Siemens
 Hupp Draft Services
 Construction Innovations
 FMC Technologies
 Morgan Technical Ceramics

Job Titles with the Most Postings

Production Supervisors
 Mechanical Assemblers
 CNC Machinists
 Electronics and Electrical Technicians
 Welders and Fabricators

Most In-Demand Skills

Specialized Skills

- Hand Tools
- Welding
- Machining
- Machinery
- Fabrication

Soft Skills

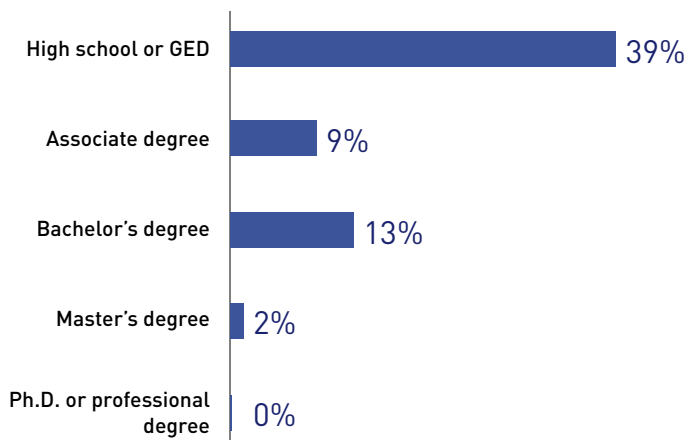
- Communications
- Operations
- Troubleshooting
- Management
- Detail Oriented

Software and Technical Skills

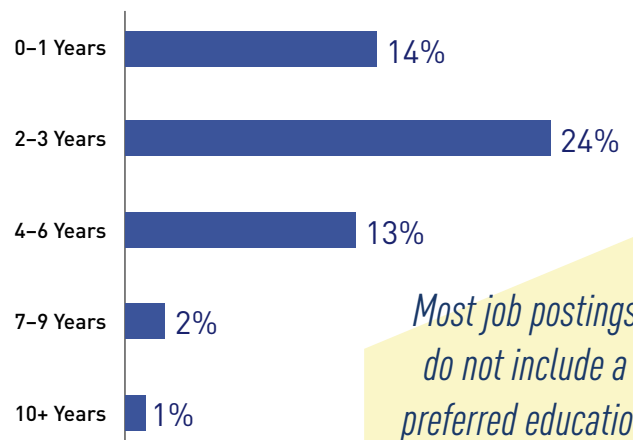
- Microsoft Office (Access, Excel, Outlook, PowerPoint, Word)
- G-Codes
- SAP Applications
- SolidWorks (CAD)
- Operating Systems

Education & Experience in Postings

Employer-Preferred Education



Employer-Preferred Work Experience



Most job postings do not include a preferred education or experience level.

Community College Programs



American River College	Cosumnes River College	Folsom Lake College	Lake Tahoe College	Sacramento City College	Sierra College	Woodland Community College	Yuba College
Advance Electronics and Telecommunications	Welding Technology	Industrial Quality Control Technician	None	Aircraft Maintenance Technician	Advanced Manufacturing	Advanced Welding Technologies	Advanced Welding Technologies
Electronic Systems Technology		CAD/CAM Programming		Applied Apparel Construction & Studies	Civil Engineering Technology	Welding Technology	Fabrication and Manufacturing Methods
Engineering Technology		Manufacturing and Industrial Technology		Automated Systems Technician	General Engineering Technology	Welding Technology	Machining & Manufacturing Technology
Mechatronics		Modern Making		Electric Power-Lighting Systems	Mechatronics Technology		Intro to Welding Technologies
Millwright		Production Planning		Electro-Mechanical Technician	Mechanical & Civil Drafting and Engineering Support		Welding Technology
Robotics				Industrial Controls Technician	Welding Technology		
Solar Energy Systems Design				Industrial Maintenance Technician			
Solar Energy Technology				Mechanical Drafting			
Welding Technology				Surveying & Geomatics			





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Sources

- Lightcast 2022.4 - QCEW Employees, Non-QCEW Employees, and Self-Employed
- Centers of Excellence for Labor Market Research Occupation Crosswalk
- California Community Colleges Chancellor's Office LaunchBoard
- California Community Colleges Chancellor's Office DataMart
- Integrated Postsecondary Education Data System (IPEDS)
- California Community Colleges Curriculum Inventory (COCI)

Disclaimers:

All representations included in this report have been produced from primary research and/or secondary review of publicly and/or privately available data and/or research reports. Efforts have been made to qualify and validate the accuracy of the data and the reported findings; however, neither the Centers of Excellence, COE host District, nor California Community Colleges Chancellor's Office are responsible for applications or decisions made by recipient community colleges or their representatives based upon components or recommendations contained in this study.

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