



Energy, Construction, and Utilities

North (Greater Sacramento)
Subregional Sector Profile



2023



FIVE-YEAR OUTLOOK

10%
sector job growth
over next five years

14,000+
annual job openings
over next five years

11%
of Greater
Sacramento's jobs

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



Introduction

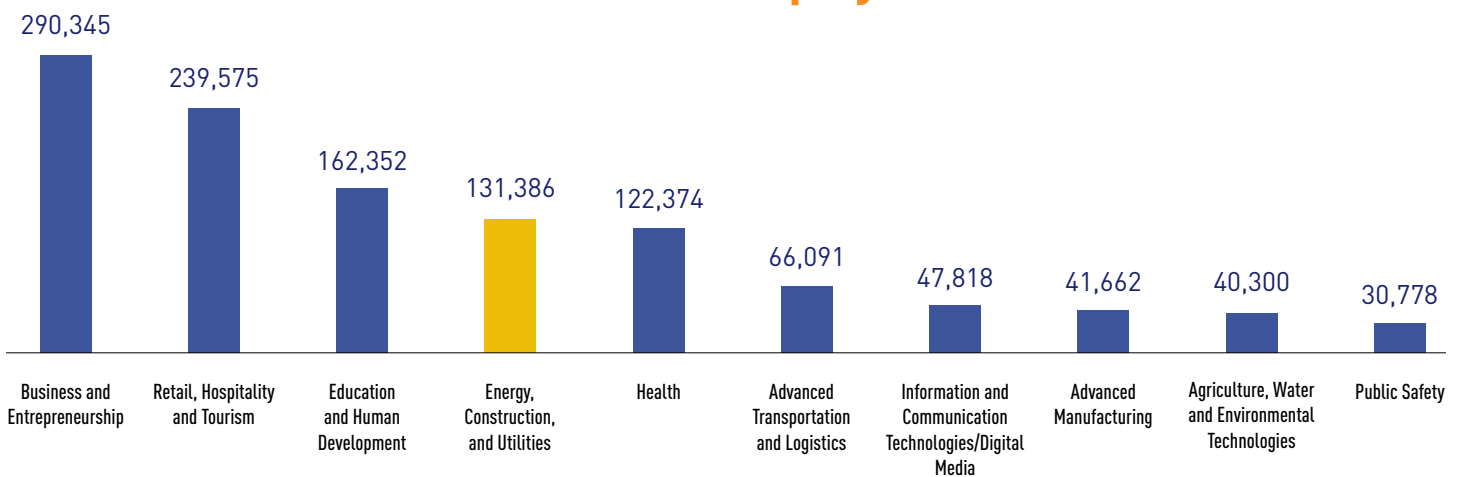
This sector profile highlights in-demand, middle-skill jobs that pay above a living wage. Middle-skill jobs, those which require education or training beyond a high school diploma but less than a bachelor's degree, are a critical component of the overall workforce and support the economic vitality of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



131,386
Jobs in 2021

145,087
Projected Jobs in 2026

10%
Projected Job Growth,
2021-2026

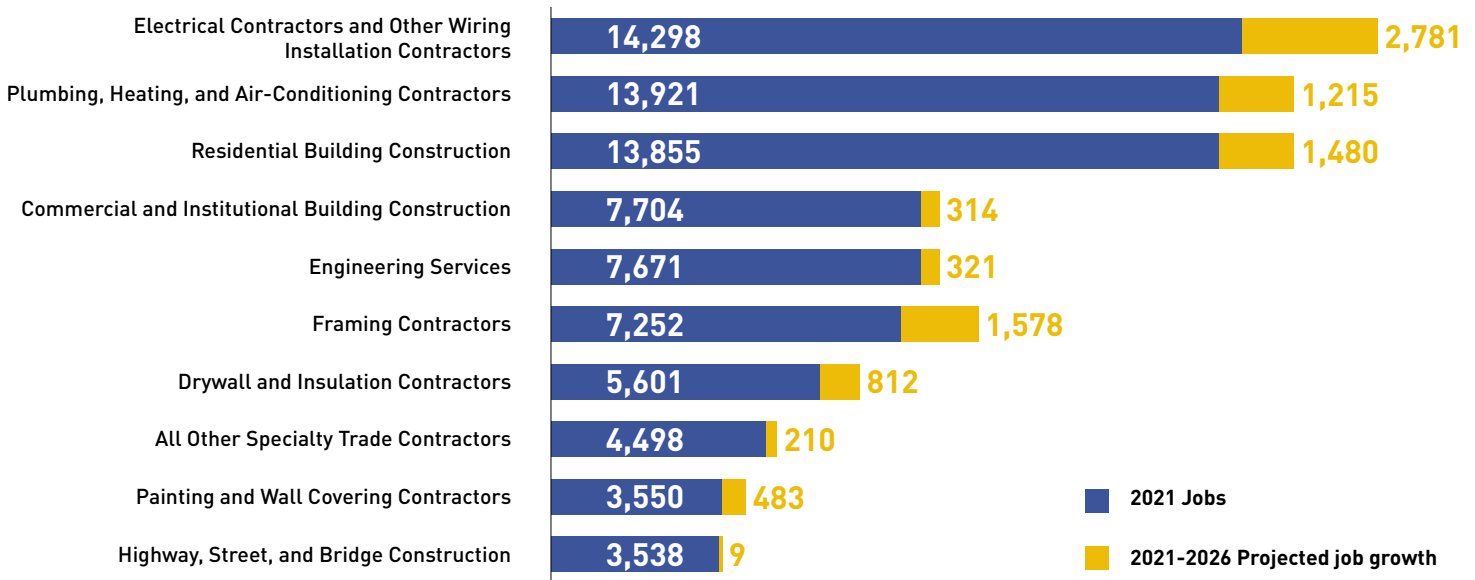
13,701
New Jobs by 2026

9,129
Businesses

11.1%
of Greater Sacramento
Employment, 2021

Note: The Energy, Construction, and Utilities sector includes 83 distinct 6-digit NAICS codes. Contact the NFN COE for a complete listing of NAICS codes by sector.

Employment by Industry Subsector

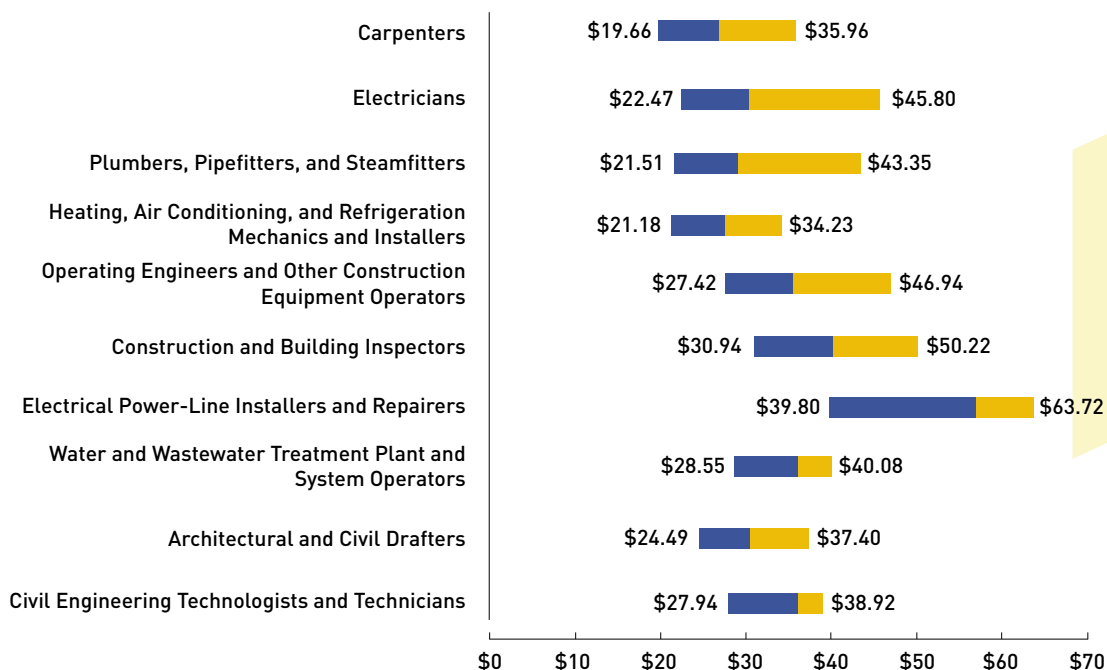


Priority Middle-Skill Occupations

Occupation	2021 Jobs	2021-2026 Projected % Change	2021-2026 Average Annual Openings	Typical Entry-Level Education
Carpenters	14,657	8%	1,631	High school diploma or equivalent
Electricians	7,034	20%	1,063	High school diploma or equivalent
Plumbers, Pipefitters, and Steamfitters	4,098	11%	532	High school diploma or equivalent
Heating, Air Conditioning, and Refrigeration Mechanics and Installers	3,470	10%	413	Postsecondary nondegree award
Operating Engineers and Other Construction Equipment Operators	3,167	10%	409	High school diploma or equivalent
Construction and Building Inspectors	929	2%	113	High school diploma or equivalent
Electrical Power-Line Installers and Repairers	880	12%	102	High school diploma or equivalent
Water and Wastewater Treatment Plant and System Operators	941	4%	95	High school diploma or equivalent
Architectural and Civil Drafters	933	2%	94	Associate degree
Civil Engineering Technologists and Technicians	672	5%	70	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.

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 North (Greater Sacramento) subregion where the living wage in 2021 was \$14.53.

Priority Middle-Skill Job Postings



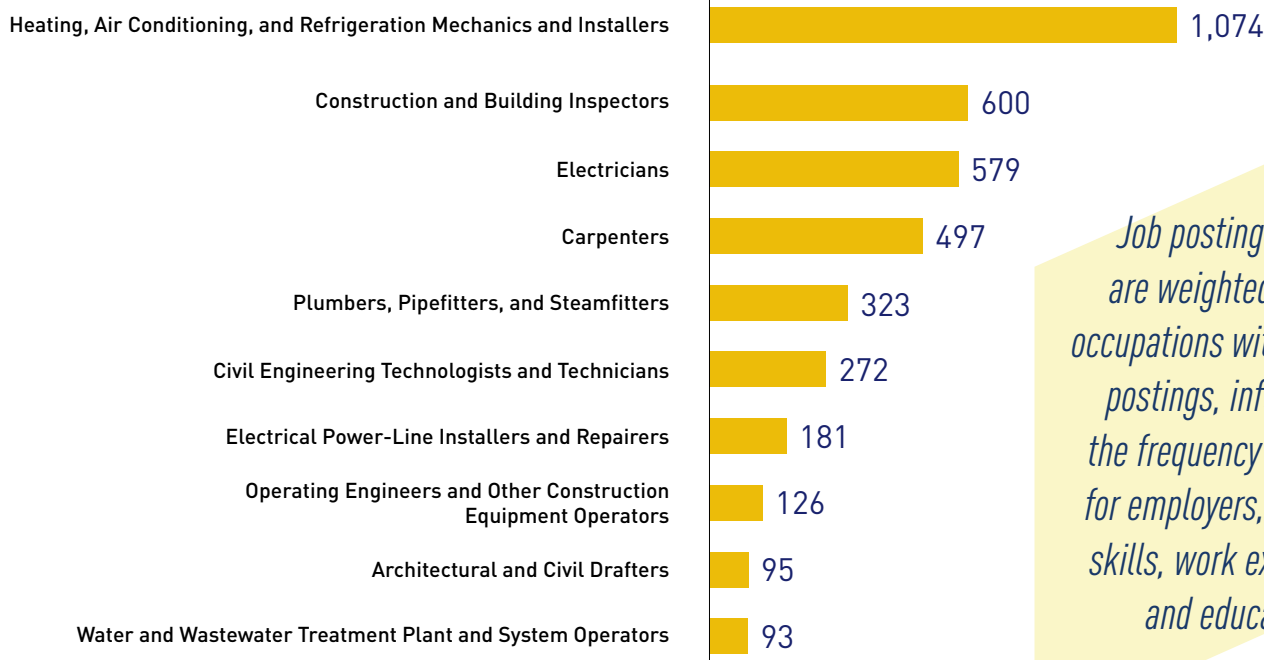
Posting intensity is the ratio of duplicated to unique job postings. A higher-than-average posting intensity can mean employers are putting more effort into hiring.

3,840
Online Job Postings

4:1
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 postings 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

PG&E
 University of California
 Rex Moore
 State of California
 City of Sacramento

Job Titles with the Most Postings

Electricians
 Carpenters
 Construction Inspectors
 Building Inspectors
 HVAC Installers/Technicians

Most In-Demand Skills

Specialized Skills

- HVAC
- Construction
- Plumbing
- Carpentry
- Electrical Wiring/Systems

Soft Skills

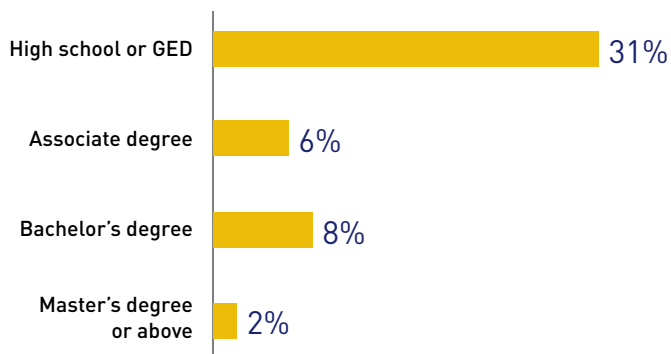
- Communications
- Customer Service
- Troubleshooting (Problem Solving)
- Operations
- Detail Oriented

Software and Technical Skills

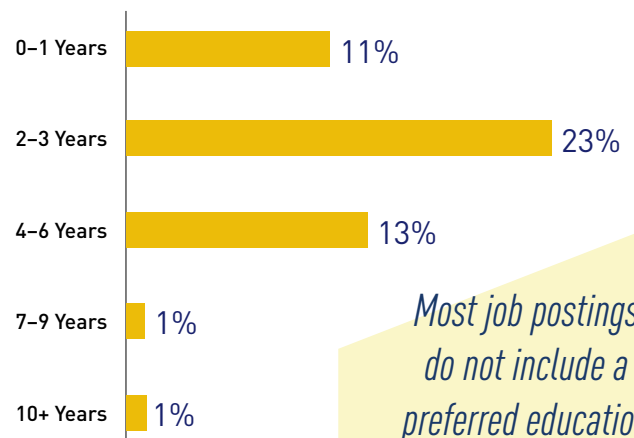
- Microsoft Office (Access, Excel, Outlook, PowerPoint, Word)
- AutoCAD
- Framing
- Geographic Information Systems
- Autodesk Revit

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
Carpentry	Architecture and Architectural Technology	Water/Wastewater Management	None	Architectural/Structural Drafting	Construction Management	Drinking Water and Wastewater Technology	None
Design Technology	Construction Management Technology			Architectural/Structural Design	Construction Fundamentals		
Diesel Technology	Construction			CAD Technology	Drafting and Engineering Support: Architectural/Civil		
Electrical and Electronics and Electric Technology	Building Inspection Technology			Engineering Design Technology	Drafting and Engineering Support: Mechanical/Civil		
Elevator Apprenticeship	Solar Installers			Mechanical (HVAC/Piping/Plumbing Systems)	Energy Surveying and Lighting Retrofits		
Engineering Technology, General (requires Trigonometry)				Mechanical Systems Technician	General Engineering Technology		
Plumbers/Pipefitters Apprenticeship				Mechanical-Electrical Technology			
Sheet Metal and Structural Metal				Telecommunications Technician			
Telecommunication Specialist / Fiber Optics							





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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:

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