



# Energy, Construction, and Utilities

Far North

Subregional Sector Profile



2023



POWERED BY



California  
Community  
Colleges

## FIVE-YEAR OUTLOOK

8%

sector job growth  
over next five years

3,300+

annual job openings  
over next five years

8%

of Far North'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.

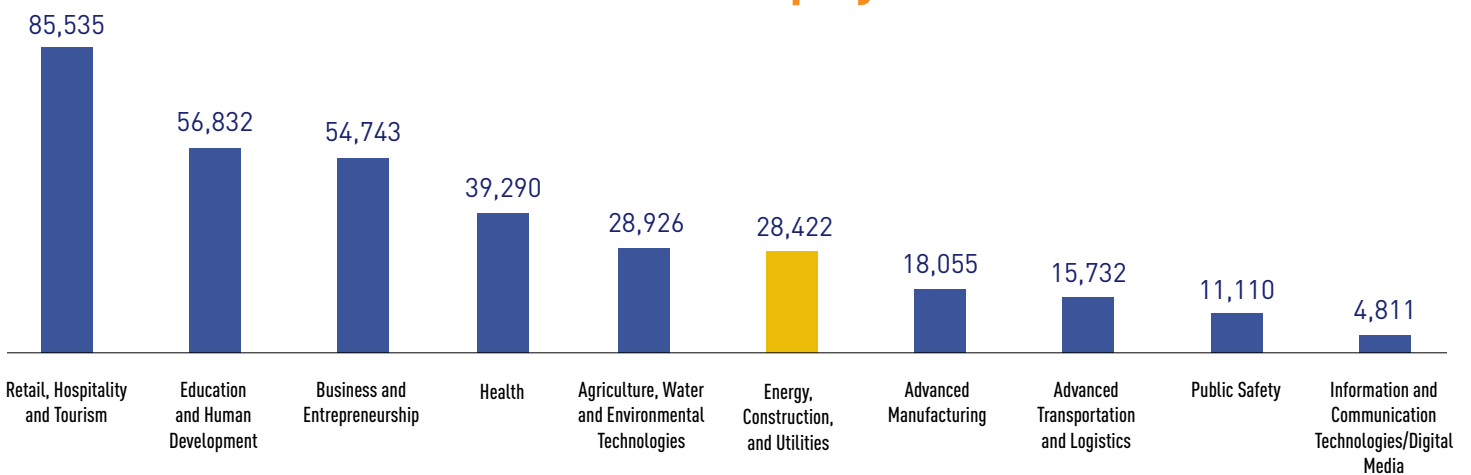
Middle-skill jobs, those which require education or training beyond a high school diploma but less than a bachelor's degree, are a critical component of the overall workforce and support the economic vitality of the region and the state.

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 Far North subregion encompasses 15 counties (Butte, Colusa, Del Norte, Glenn, Humboldt, Lake, Lassen, Mendocino, Modoc, Plumas, Shasta, Sierra, Siskiyou, Tehama, and Trinity) and seven community colleges (Butte, College of the Redwoods, College of the Siskiyou, Feather River, Lassen, Mendocino, and Shasta).

## Far North 2021 Sector Employment



# SECTOR Highlights



28,422  
Jobs in 2021

30,752  
Projected Jobs in 2026

8%  
Projected Job Growth,  
2021-2026

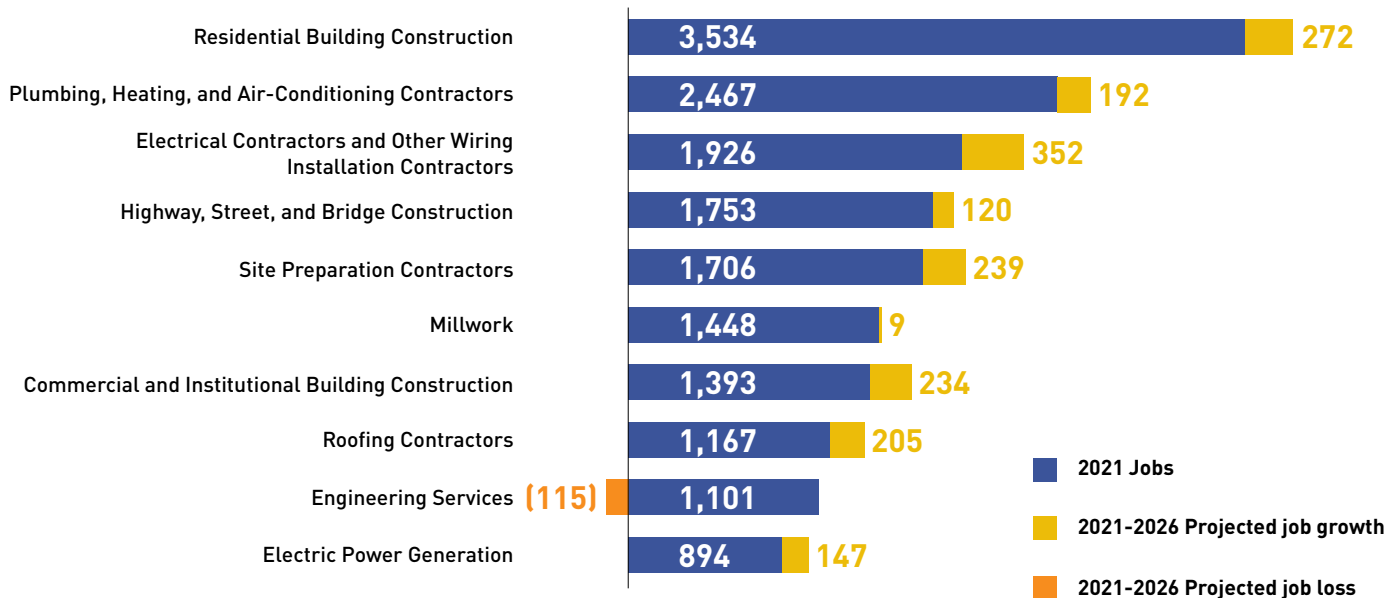
2,329  
New Jobs by 2026

3,394  
Businesses

8.3%  
% of Far North  
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

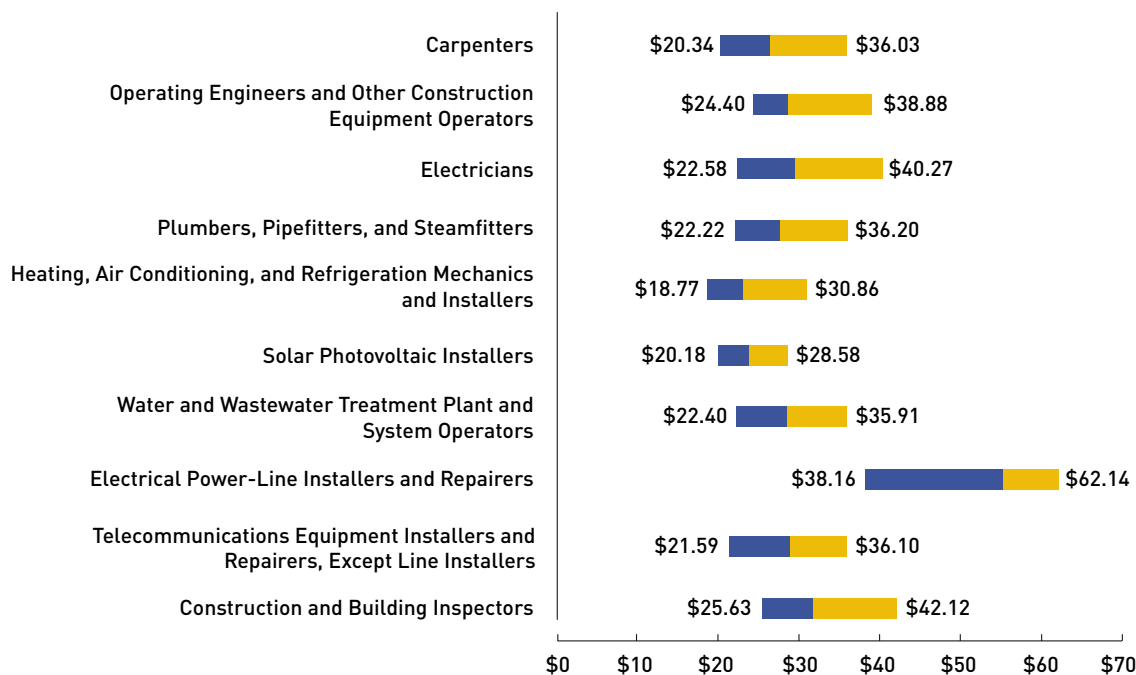


# Priority Middle-Skill Occupations

Occupation	2021 Jobs	2021-2026 Projected % Change	2021-2026 Average Annual Openings	Typical Entry-Level Education
Carpenters	2,780	6%	298	High school diploma or equivalent
Operating Engineers and Other Construction Equipment Operators	1,445	8%	180	High school diploma or equivalent
Electricians	1,181	16%	167	High school diploma or equivalent
Plumbers, Pipefitters, and Steamfitters	892	9%	111	High school diploma or equivalent
Heating, Air Conditioning, and Refrigeration Mechanics and Installers	625	9%	74	Postsecondary nondegree award
Solar Photovoltaic Installers	338	24%	59	High school diploma or equivalent
Water and Wastewater Treatment Plant and System Operators	614	(2%)	56	High school diploma or equivalent
Electrical Power-Line Installers and Repairers	270	16%	34	High school diploma or equivalent
Telecommunications Equipment Installers and Repairers, Except Line Installers	252	5%	32	Postsecondary nondegree award
Construction and Building Inspectors	241	(4%)	27	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 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 Far North subregion where the minimum wage in 2021 was \$15.

# Priority Middle-Skill Job Postings



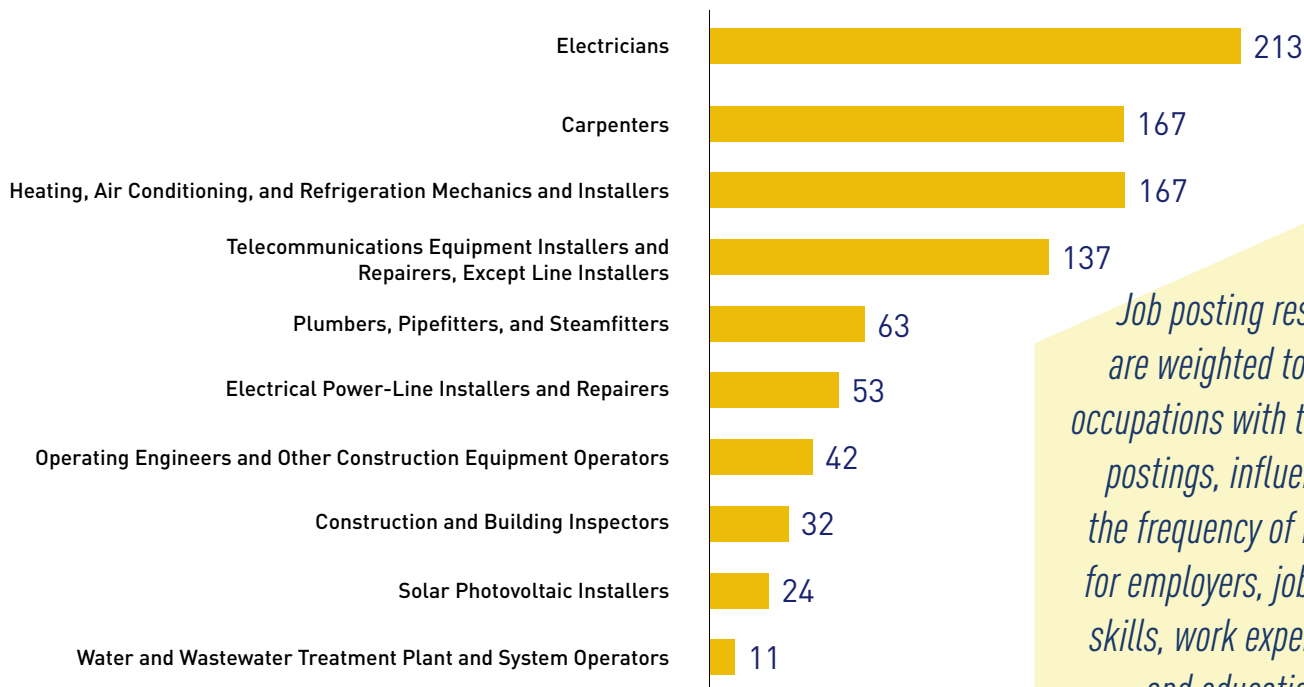
*Posting intensity is the ratio of duplicated to unique job postings. A higher-than-average posting intensity can mean employers are putting more effort into hiring.*

909  
Online Job Postings

2:1  
Posting Intensity  
(Regional Average 3:1)

Note: Job postings count the number of online job postings advertised in the 15-county Far North 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

PG&E

AT&T

State of California

Sierra Pacific Industries

Mendocino Redwood Company

### Job Titles with the Most Postings

Electricians (including Industrial)

Journeyman Linemen

HVAC Technicians/Installers

Carpenters

Heavy Equipment Operators

## Most In-Demand Skills

### Specialized Skills

- HVAC
- Carpentry
- Construction
- Hand Tools
- Network Switches

### Soft Skills

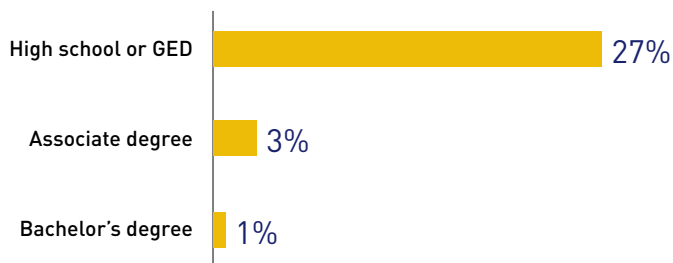
- Communications
- Troubleshooting (Problem Solving)
- Operations
- Lifting Ability
- Customer Service

### Software and Technical Skills

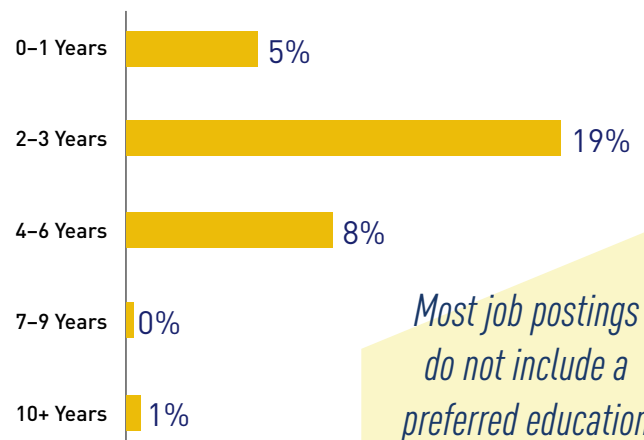
- Framing
- Microsoft Office (Access, Excel, Outlook, PowerPoint, Word)
- Inventory Control Systems
- Airflow
- Mapping Software

## 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



Butte College	College of the Redwoods	College of the Siskiyou	Feather River College	Lassen College	Mendocino College	Shasta College
Applied Construction	Cabinetmaking & Millwork	None	None	None	Fine Woodworking I and II	Computer Aided Drafting Technology
Commercial HVACR	Construction Technology				Introduction to the Construction Trades	Construction Technology
Construction Management	Drafting and 3D Modeling				Sustainable Construction and Energy Technology - Building Efficiency and Performance	Water/Wastewater Treatment
Drafting and CAD Technology	Electrician Trainee				Sustainable Construction and Energy Technology - Construction	
Residential HVACR	Historic Preservation and Restoration Technology				Sustainable Construction and Energy Technology - Renewable Energy	
	Residential Construction I Water and Wastewater Technology					





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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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