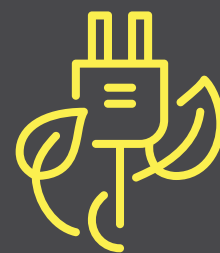




Energy, Construction, and Utilities



2026

North (Greater Sacramento) Career & Training Pathways Profile

Five-Year Outlook

6% sector growth

11,000+ annual job openings

9% of Greater Sacramento's jobs



FOR LABOR MARKET RESEARCH
NORTH FAR NORTH

POWERED BY



California
Community
Colleges

Introduction

In the Greater Sacramento area, Energy, Construction, and Utilities (ECU) jobs are varied and span a wide number of disciplines.

These jobs can involve the construction of residential and commercial buildings, installing infrastructure, such as roads and bridges, as well as providing the services needed to operate power generation and utilities systems.

Careers in this sector can be physically demanding or take place outdoors in all kinds of weather; others require working at great heights or in confined spaces.

These jobs often require familiarity with specific tools or machines, as well as construction and safety regulations. Depending on a student's career choice, licensing, certification, or apprenticeships may be required.

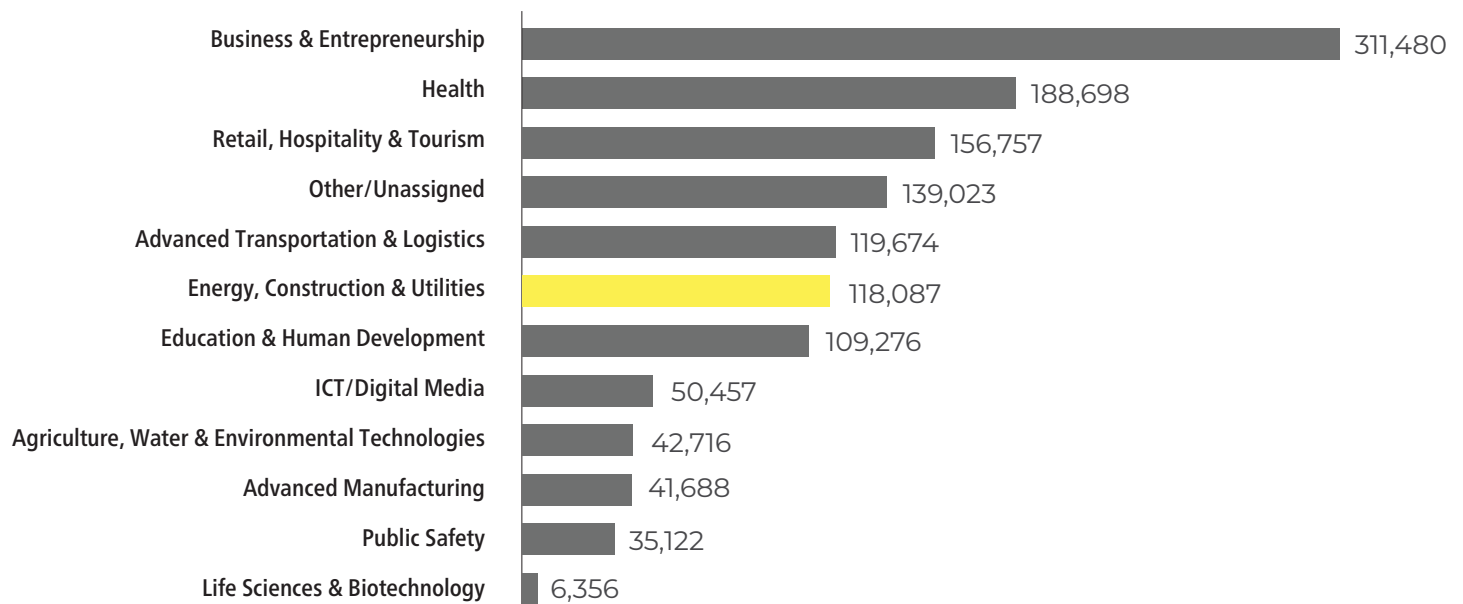
Major employers include PG&E, University of California, Rex Moore, the State of California, and the City of Sacramento. Rivian, Sacramento Electrical Training Center, and



CalEPIC all offer apprenticeships and training programs in the electricity field.

The demand for jobs in this sector is expected to be boosted by clean energy projects such as California's Zero Net Energy goals, which require the construction of all new homes to incorporate a combination of renewable energy and energy efficiency measures, including automated systems for lighting and climate control.

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

118,087

Jobs in 2024

124,669

Projected Jobs in 2029

6%

Projected Job Growth,
2024-2029

6,582

New Jobs by 2029

8,927

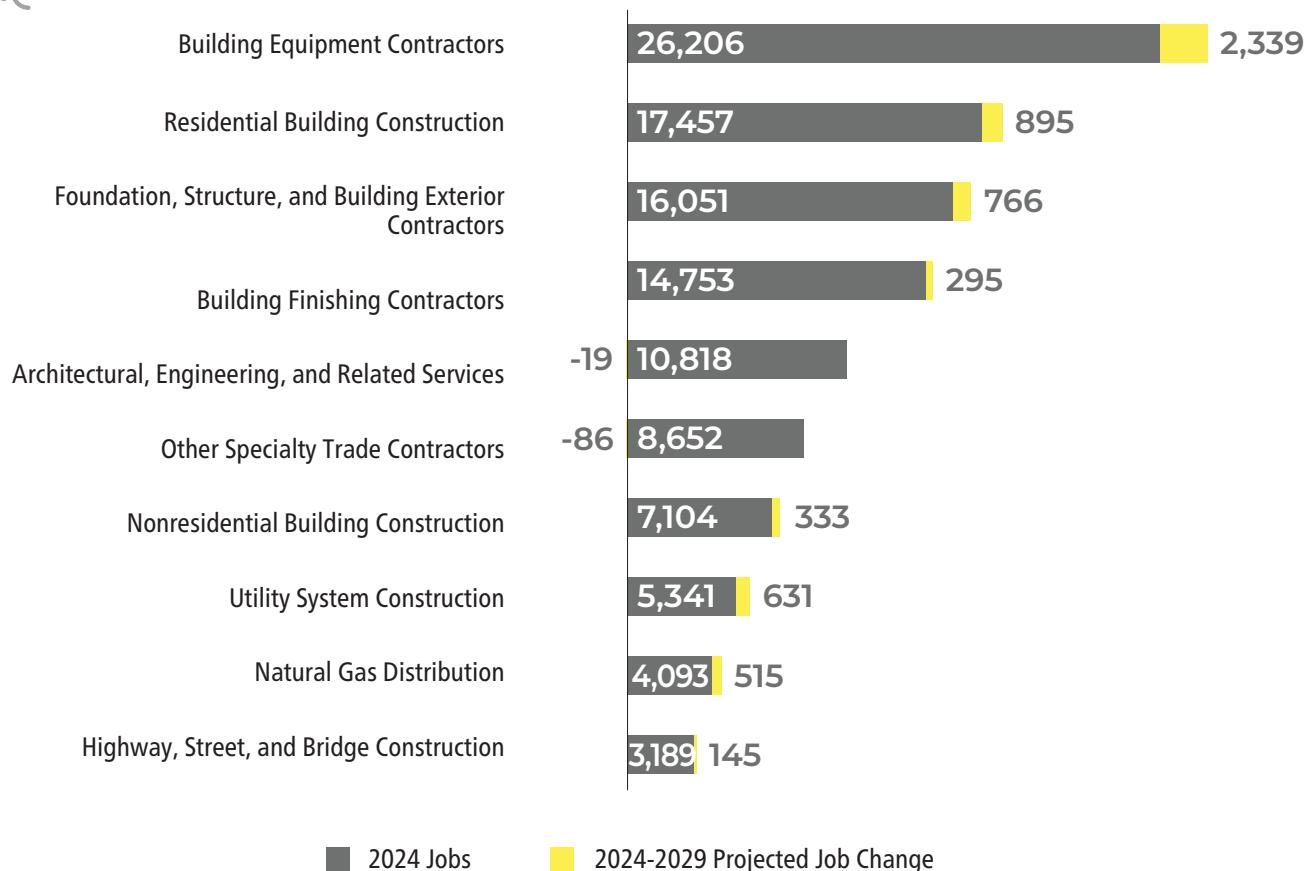
Businesses

9%

% of Greater Sacramento
Employment, 2024



Employment by Subsector



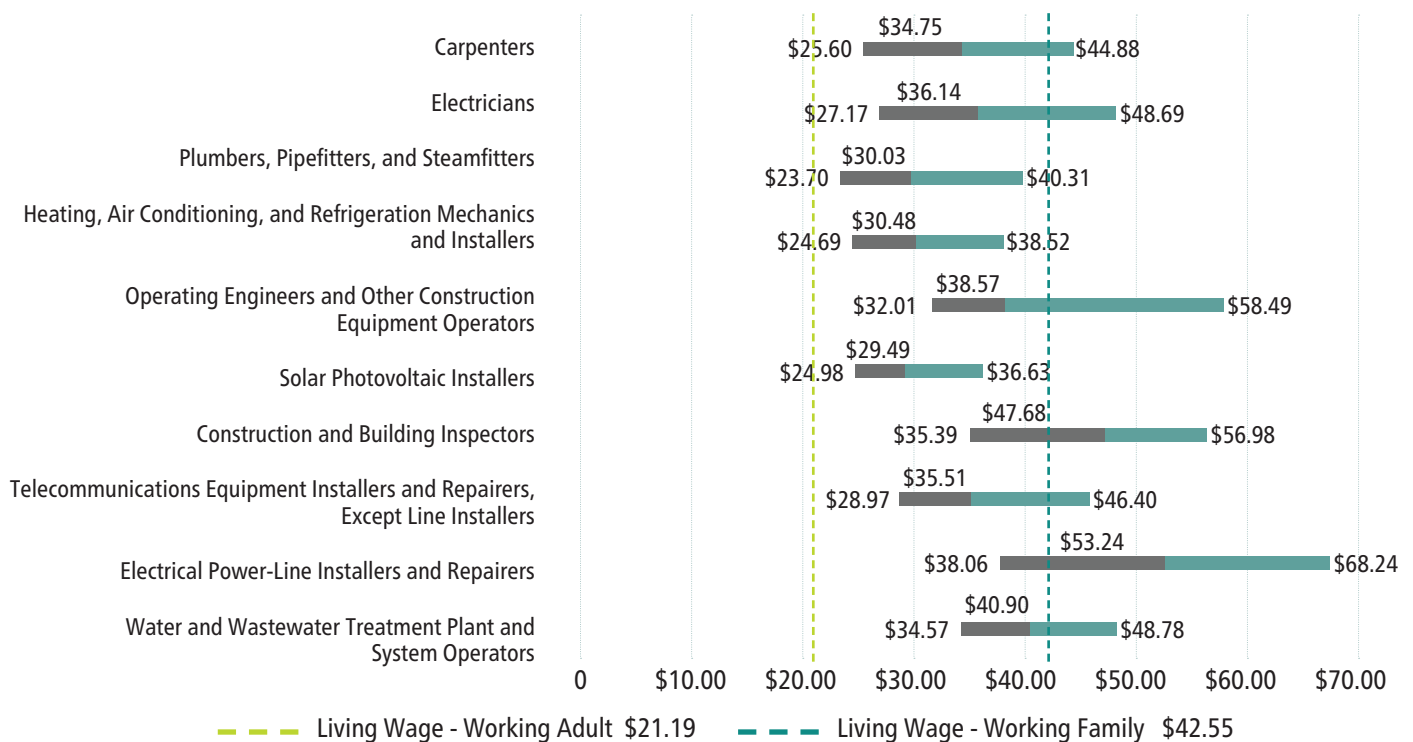
Note: The Energy, Construction, and Utilities sector includes 76 distinct 6-digit NAICS codes. Contact the NFN COE for a complete listing of NAICS codes by sector.

Top Occupations

Occupation	2024 Jobs	2024-2029 Projected Change	2024-2029 Average Annual Openings	Typical Entry-Level Education
Carpenters	13,295	1%	1,106	High school diploma or equivalent
Electricians	7,239	13%	863	High school diploma or equivalent
Plumbers, Pipefitters, and Steamfitters	4,176	7%	423	High school diploma or equivalent
Heating, Air Conditioning, and Refrigeration Mechanics and Installers	3,732	8%	382	Postsecondary nondegree award
Operating Engineers and Other Construction Equipment Operators	3,625	7%	360	High school diploma or equivalent
Solar Photovoltaic Installers	876	32%	150	High school diploma or equivalent
Construction and Building Inspectors	1,281	4%	149	High school diploma or equivalent
Telecommunications Equipment Installers and Repairers, Except Line Installers	1,300	-6%	122	Postsecondary nondegree award
Electrical Power-Line Installers and Repairers	1,080	14%	119	High school diploma or equivalent
Water and Wastewater Treatment Plant and System Operators	1,060	4%	108	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. Occupations with significant annual openings, active training programs in the subregion, wages at or close to the living wage, and training beyond a high school diploma but short of a bachelor's degree were prioritized for inclusion in the top middle-skill occupations.

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 Energy, Construction, and Utilities sector, regardless of skill or education level in the Greater Sacramento subregion.

Unique Online Job Postings

13,791

(6% of Region's Postings)

Median Advertised Hourly Salary

\$34.58

(Regional Average \$30.77)

Median Posting Duration

31 days

(Regional Average 25 Days)

Posting Intensity

2:1

(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 111 occupations aligned with the Energy, Construction, and Utilities 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. State of California
2. Stantec
3. FPI Management
4. PG&E
5. AECOM
6. City of Sacramento
7. WSP Global
8. HDR
9. MasTec
10. Walmart

Most In-Demand Skills

Specialized Skills

- Construction
- Project Management
- Plumbing
- HVAC
- Carpentry

Soft Skills

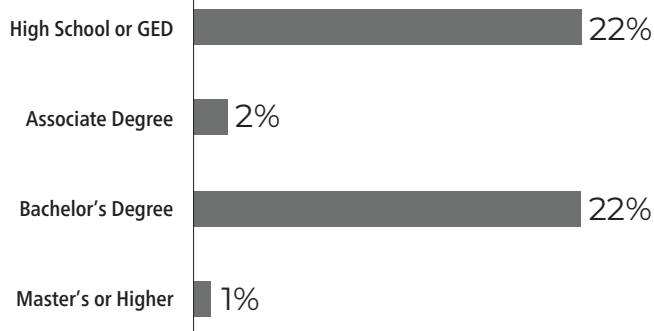
- Communication
- Management
- Operations
- Customer Service
- Troubleshooting (Problem Solving)

Software and Technical Skills

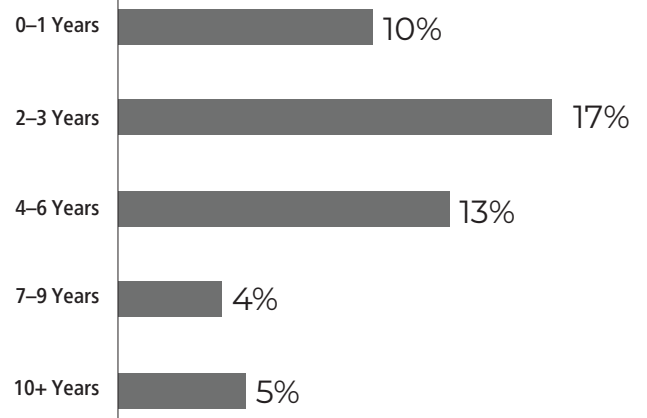
- Microsoft Office (Access, Excel, Outlook, PowerPoint, Word)
- AutoCAD
- Autodesk Revit
- Spreadsheet
- Procore

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*
Acoustical Installer Apprenticeship	ADT: Building Information Modeling (BIM)	Water/Wastewater Management		Architectural/Structural Design	Construction Fundamentals	Drinking Water and Wastewater Technology	
Carpenter Apprenticeship	ADT: Interior Building Architecture			CAD Technology	Construction Management		
Design Technology	Architecture: Architectural Technology			Engineering Design Technology	Drafting and Engineering Support: Architectural/Civil		
Drywall/Lathing Apprenticeship	Building Inspection Technology			Mechanical (HVAC/Piping/Plumbing Systems)			
Electrical Apprenticeship	Construction			Mechanical Systems Technician			
Elevator Apprenticeship	Construction Management Technology			Mechanical-Electrical Technology			
Hardwood Floor Layer Apprenticeship	Green Buildings						
Insulator Apprenticeship	Solar Installers						
Ironworkers Apprenticeship							
Mill and Cabinet Maker Apprenticeship							
Office Modular Systems Apprenticeship							
Pile Driver Apprenticeship							
Plumbers/Pipefitters Apprenticeship							
Refrigeration Service Technician Apprenticeship							
Residential/Commercial Electrician Trainee							
Scaffold Erector Apprenticeship							
Sheet Metal Apprenticeship							
Sheet Metal Service Technician Apprenticeship							
Shingler							

* 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.



Prepared by:

Anna Hoehenrieder, Research Analyst
North Far North Center of Excellence for
Labor Market Research

Supported by:

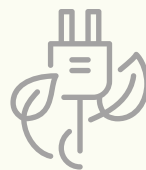
Ebony J. Benzing, Co-Director
North Far North Center of Excellence for
Labor Market Research

Editing by:

Emma Shacochis and **Lauren McSherry**,
L.M. McSherry Consulting

Graphic Design by:

Jim Schneider, Right Angle Design



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, the Centers of Excellence, COE host district, and the California Community Colleges Chancellor's Office are not responsible for applications or decisions made by recipient community colleges or their representatives based upon components or recommendations contained in this study.

© 2026 California Community Colleges Chancellor's Office, Centers of Excellence for Labor Market Research, Economic and Workforce Development Program

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)

