

Agriculture, Water and Environmental Technologies

Far North Subregional Sector Profile

2023





POWERED BY



FIVE-YEAR OUTLOOK

6% sector job growth over next five years 3,800+ 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.

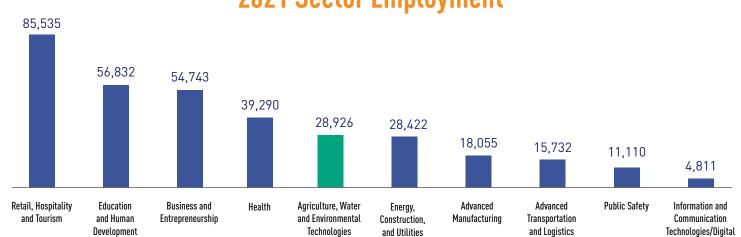
Middle-skill jobs, those which require education or training beyond a high school diploma but less than a bachelor's degree, are a critical component of the overall workforce and support the economic vitality of the region and the state.

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 Siskiyous, Feather River, Lassen, Mendocino, and Shasta).

Media



— Far North — 2021 Sector Employment

SECTOR Highlights



28,926 Jobs in 2021 30,611 Projected Jobs in 2026

1,685 New Jobs by 2026

3,049 Businesses 6% Projected Job Growth, 2021-2026

8.5% % of Far North Employment, 2021

Note: The Agriculture, Water and Environmental Technologies sector includes 42 distinct 6-digit NAICS codes. Contact the NFN COE for a complete listing of NAICS codes by sector.

Employment by Industry Subsector

Crop Production	9,615	414
Support Activities for Crop Production	5,640	588
Animal Production (7	8] 1,955	
Landscaping Services	1,760 56	
Logging	1,746 30	
Veterinary Services	1,322 19	
Support Activities for Forestry	971 163	
Farm Supplies Merchant Wholesalers	749 91	2021 Jobs
Waste Collection	600 88	2021-2026 Projected job growth
Exterminating and Pest Control Services	457 24	2021-2026 Projected job loss

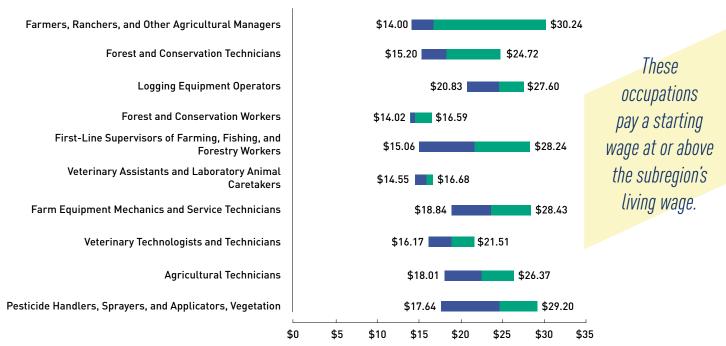
3

Priority Middle-Skill Occupations

Occupation	2021 Jobs	2021-2026 Projected % Change	2021-2026 Average Annual Openings	Typical Entry-Level Education	
Farmers, Ranchers, and Other Agricultural Managers	3,632	5%	408	High school diploma or equivalent	
Forest and Conservation Technicians	1,929	(2%)	236	Associate degree	
Logging Equipment Operators	955	4%	161	High school diploma or equivalent	
Forest and Conservation Workers	775	4%	130	High school diploma or equivalent	
First-Line Supervisors of Farming, Fishing, and Forestry Workers	788	7%	128	High school diploma or equivalent	
Veterinary Assistants and Laboratory Animal Caretakers	387	3%	65	High school diploma or equivalent	
Farm Equipment Mechanics and Service Technicians	178	9%	22	High school diploma or equivalent	
Veterinary Technologists and Technicians	254	4%	20	Associate degree	
Agricultural Technicians	109	3%	15	Associate degree	
Pesticide Handlers, Sprayers, and Applicators, Vegetation	92	7%	14	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



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



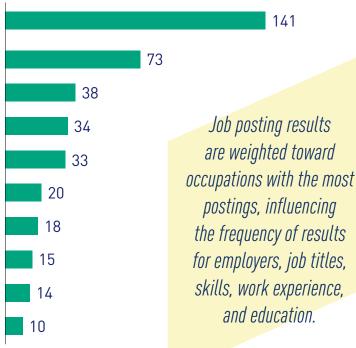
Posting intensity is the ratio of duplicated to unique job postings. A higher-than-average posting intensity can mean employers are putting more effort into hiring.

396 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

Forest and Conservation Technicians			
Farmers, Ranchers, and Other Agricultural Managers			
Veterinary Assistants and Laboratory Animal Caretakers			
Veterinary Technologists and Technicians			
Pesticide Handlers, Sprayers, and Applicators, Vegetation			
Agricultural Technicians			
Farm Equipment Mechanics and Service Technicians			
Forest and Conservation Workers			
Logging Equipment Operators			
First-Line Supervisors of Farming, Fishing, and Forestry Workers			



5



Top Employers & Job Titles

Employers with the Most Postings

United States Forest Service

VCA Animal Hospitals

State of California

PG&E

Ecological Farming Association

Job Titles with the Most Postings

Forestry Technicians & Forestry Dispatch Veterinary Assistants & Technicians Fish and Wildlife Technicians

Shop Mechanics

Agricultural Technicians

Most In-Demand Skills

Specialized Skills

- Forestry
- Agriculture
- Human Resource
 Management
- Rangeland Management
- Wildfire Suppression

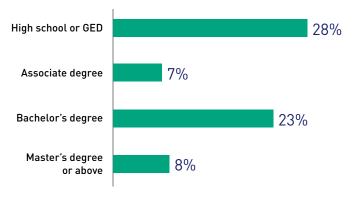
Soft Skills

- Management
- Communications
- Operations
- Planning
- Coordinating

Software and Technical Skills

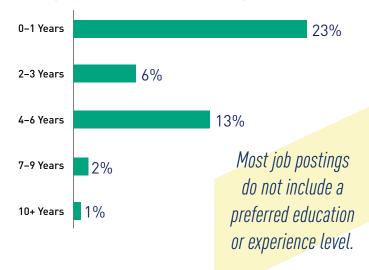
- Microsoft (Access, Excel, Outlook, PowerPoint, Word)
- Geographic Information Systems
- Software Systems
- Zoom
- ArcGIS (GIS Software)

Education & Experience in Postings



Employer-Preferred Education

Employer-Preferred Work Experience



Community College Programs

A CONTRACT OF THE	CR COLLEGE ME REDWOODS	College Siskiyous	Feather River College			Shasta College
Butte College	College of the Redwoods	College of the Siskiyous	Feather River College	Lassen College	Mendocino College	Shasta College
Agriculture Business	Agriculture	None	Ecological Farming	Agriculture Animal Science	Agriculture: Horticulture	Agriculture
Agriculture and Natural Resources	Agriculture, Business Management		Equine Studies	Agriculture Business	Agriculture: Landscape Practices	Agriculture Business
Agriculture (Plant) Science	Agriculture Plant Science		Forestry Technician	Agriculture Science and Technology	Agriculture - Nursery Production	Agriculture Plant Science
Environmental Horticulture	Forestry and Natural Resources		Hydrologic Technician		Natural Resources	Animal Science
Landscape/ Turfgrass Technician	Horticulture & Landscape Practices				Sustainable Small Farms Management	Equipment Operations and Maintenance
Mechanized Agriculture	Organic/ Sustainable Agriculture				Viticulture Skills	Forest Science and Technology
Natural Resources	Plant Science					Horticulture and Landscaping
Nursery/Florist Technician						Natural Resources
Plant Protection						Pest Control Advisor Preparation
						Sustainable Landscape



7

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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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