

Labor Market Analysis for Program Recommendation:

Arborists in the Far North

Prepared by the North Far North Center of Excellence
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NORTH FAR NORTH

Summary

The North Far North Center of Excellence for Labor Market Research (NFN COE) prepared this report to provide an analysis of occupational demand and educational supply for selected occupations employed across the 22-county North Far North region. This report aims to determine if demand in the local labor market is unmet by the supply from existing community college programs and other postsecondary training providers, with a primary focus on training that leads to living wage jobs in middle-skilled occupations.¹

Key Findings

- **Arborist occupations have job growth in the Far North subregion that is on par with growth in the rest of California.** In both California and the Far North subregion, jobs for arborist occupations are growing at a rate of 2% annually.
- **Eighty-five percent of annual openings are for Landscaping and Groundskeeping Workers, which has entry-level wages below the living wage.** Entry-level wages are \$16.04 per hour for Landscaping and Groundskeeping Workers, which is below the living wage for a single working adult in Butte's community college district of \$16.77 per hour.
- **The majority of those in arborist occupations have a high school diploma or less as their highest level of educational attainment.** Between 52% and 71% of those in arborist occupations had a high school diploma or less as their highest level of educational attainment.
- **There is a significant supply gap for utility arborists.** There are 685 annual job openings and an average of only 2 annual awards.

Recommendation

Based on the findings, the North Far North COE recommends that community colleges **proceed with caution** in creating new programs related to Arborists. Key considerations include:

- There is a significant supply gap, with only 2 annual awards from related programs at community colleges in the region and 685 annual job openings.
- Training beyond a high school diploma is not typically required for employment in arborist occupations. While community colleges tend to focus on middle-skill occupations, there are opportunities within Adult Education and contract education to offer training towards occupations that community colleges may not typically focus on.
- Most of the annual job openings are for Landscaping and Groundskeeping workers, which have entry-level wages below the living wage. Programs for Arborists should ensure that the education they provide equips students with the experience and qualifications necessary to pursue openings for First-Line Supervisors of Landscaping, Lawn Service, and Groundskeeping Workers, or Tree Trimmers and Pruners, such as by fulfilling educational qualifications for arborist certifications.

¹ Pursuant to California Education Code §78015, labor market information (LMI) is required for all new career education certificate and degree program proposals, and the North Far North Regional Consortium (NFNRC) requires LMI to come from the NFN COE. This report should serve to satisfy those requirements.

Introduction

The North Far North Center of Excellence (COE) was asked to provide labor market data to support a proposed new career education program or modifications to existing programs at a regional community college (see Appendix A for methodology and data sources).

This report focuses on the following Standard Occupational Classification (SOC) occupations and codes:

- Tree Trimmers and Pruners (37-3013)
- Landscaping and Groundskeeping Workers (37-3011)
- First-Line Supervisors of Landscaping, Lawn Service, and Groundskeeping Workers (37-1012)

A review of related programs revealed the following Taxonomy of Programs (TOP) title(s) and code(s) are appropriate for inclusion in this report:

- Landscape Design and Maintenance (0109.10)

The corresponding Classification of Instructional Program (CIP) title(s) and code(s) are:

- Applied Horticulture/Horticulture Operations, General (01.0601)
- Urban Forestry (03.0508)

Occupational Demand

Exhibit 1 summarizes the five-year projected job growth for the targeted occupational groups in the Far North subregion, the 22-county North Far North region, and California.²

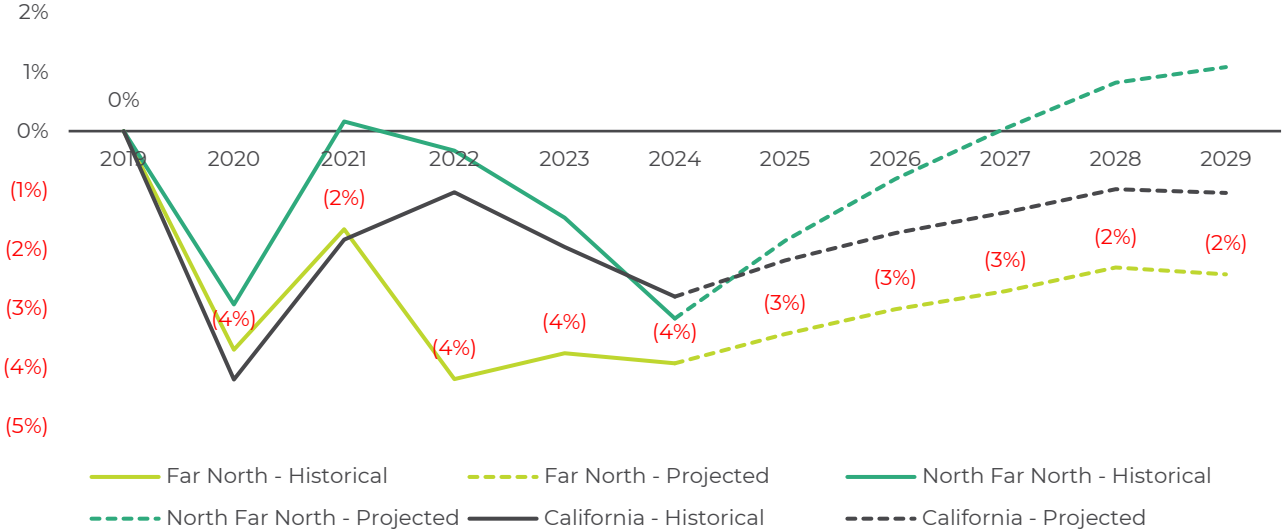
Exhibit 1. Current employment and projected occupational demand, 2024-2029

Occupational Group	2024 Jobs	2024-2029 Change	2024-2029 % Change	2024-2029 Annual Openings
First-Line Supervisors of Landscaping, Lawn Service, and Groundskeeping Workers	460	465	1%	53
Landscaping and Groundskeeping Workers	4,211	4,275	2%	582
Tree Trimmers and Pruners	368	378	3%	50
Far North	5,039	5,118	2%	685
First-Line Supervisors of Landscaping, Lawn Service, and Groundskeeping Workers	2,059	2,153	5%	243
Landscaping and Groundskeeping Workers	15,963	16,664	4%	2,281
Tree Trimmers and Pruners	1,561	1,626	4%	212
North Far North	19,583	20,443	4%	2,736
First-Line Supervisors of Landscaping, Lawn Service, and Groundskeeping Workers	21,220	21,565	2%	2,374
Landscaping and Groundskeeping Workers	156,636	159,543	2%	21,573
Tree Trimmers and Pruners	11,429	11,593	1%	1,495
California	189,285	192,701	2%	25,442

² The 22-county North Far North is a dual region. It is represented by the North (Greater Sacramento) subregion that covers seven counties, including El Dorado, Nevada, Placer, Sacramento, Sutter, Yolo, and Yuba, and the 15-county Far North subregion which includes Butte, Colusa, Del Norte, Glenn, Humboldt, Lake, Lassen, Mendocino, Modoc, Plumas, Shasta, Sierra, Siskiyou, Tehama, and Trinity.

Exhibit 2 compares historical and projected annual change in employment for the period 2019 to 2029 with the base number of jobs in 2019 for the Far North subregion, the 22-county North Far North region, and California.

Exhibit 2. Changes in employment, 2019-2029

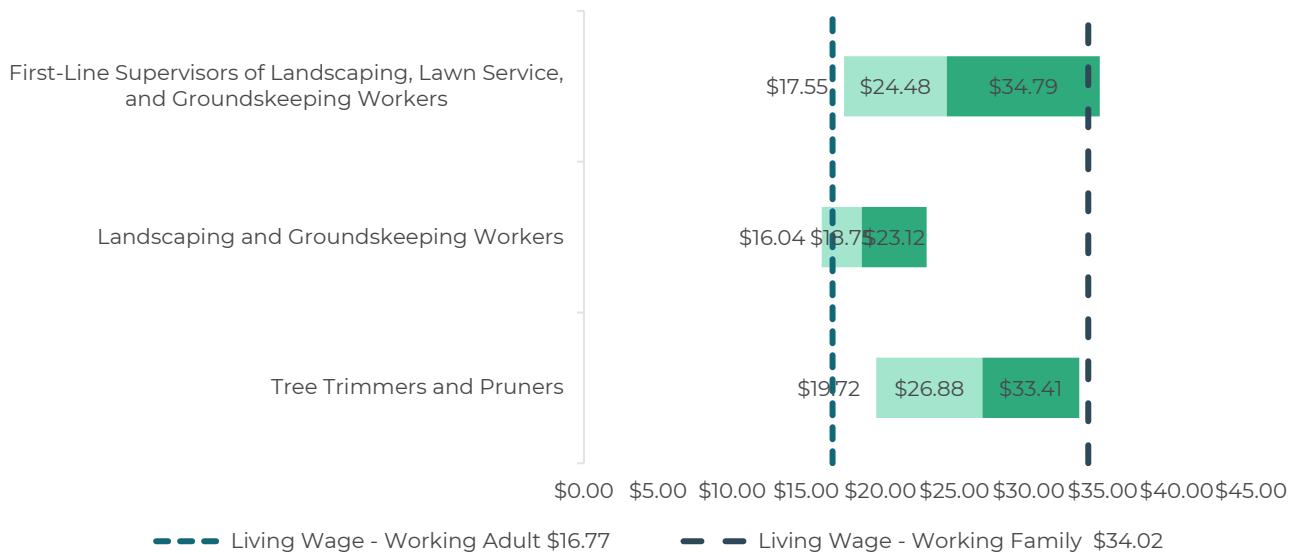


Earnings

Exhibit 3 compares the percentile hourly earnings for the selected occupations to the living wage for a single working adult and a working family residing in the county of the community college district that requested this report.^{3,4} Earnings data includes wages from employed and self-employed workers. Also, it's important to note that living wage thresholds vary by county, and in the Far North subregion, range from \$14 to \$17 per hour for a single working adult.

Exhibit 3. Hourly earnings compared to the community college district's living wage

Requesting College	Living Wage – Working Adult	Living Wage – Working Family
Butte College	\$16.77	\$34.02



³ A “living wage” is defined as the level of income one working adult with no children must earn to meet basic needs, including food, housing, transportation, healthcare, taxes, and other miscellaneous basic needs. Please note that the 25th-percentile and 75th-percentile hourly wages are used as proxies for entry-level and experienced-level wages.

⁴ A “working family” is defined as one working adult and one infant (between the ages of 0 and 2 years).

Job Postings

Analysis of online job postings can offer additional insights into recent labor market changes not reflected in historical trends. However, it is important to note that job postings do not equate to actual labor market demand, which is based on projected annual job openings.

There are several limitations to interpreting online job postings. Employers may repost the same position multiple times to attract more applicants, or job postings may remain active even if the position is no longer being filled. Additionally, a single job posting can be used to hire for multiple openings, and not all job opportunities are advertised online. Despite these limitations, job posting analyses can be valuable for guiding community college curriculum development and identifying potential employers for targeted experiential learning opportunities.

The North Far North COE identified 413 online job postings for the selected occupations across the Far North subregion. Job posting data comes from and represents unique advertisements posted online during the last 12 months, from January 2025 to December 2025.

Exhibit 4. Job postings by occupation

Occupation	Number of Job Postings	Share of Postings	Median Advertised Salary
First-Line Supervisors of Landscaping, Lawn Service, and Groundskeeping Workers	30	7%	\$26.95
Landscaping and Groundskeeping Workers	262	63%	\$22.40
Tree Trimmers and Pruners	121	30%	\$42.95
Total	413	100%	\$24.98

Top employers

Exhibit 5 shows the employers with the most job postings for the selected occupations across the Far North subregion.

Exhibit 5. Employers with the most job postings

Employer	Number of Job Postings
Wright Tree Service	32
ACRT Pacific	29
State of California	11
Clear Path Utility Solutions	10
Jensen Landscape Services	8
Shasta College	5

Employer	Number of Job Postings
Branching Out Tree Care	5
Arborworks	5
PG&E	4
Lawns R Us Landscaping	4

Top titles

Exhibit 6 shows the job titles with the most job postings for the selected occupations across the Far North subregion.

Exhibit 6. Job titles with the most job postings

Job title	Number of Job Postings
Groundskeepers	34
Tree Trimmers	16
Landscape Maintenance Managers	15
Plant Inspectors	12
Arborists	11
Landscape Maintenance Workers	11
Trimmers/Climbers	9
Landscape Gardeners	9
Landscape Crew Members	8
Landscapers	8

Skills and qualifications

Exhibit 7 shows the most requested certifications along with the median hourly salary for job postings requesting that certification. The ISA Certified Arborist credential requires three years of experience or two years in conjunction with an associate degree, while the Certified Arborist Utility Specialist requires two years of experience⁵.

Certification	Number of Job Postings	Median Hourly Advertised Salary
Commercial Driver's License	49	\$36.31

⁵ "Which ISA Credential is Right for You?" 2025. International Society of Arboriculture. <https://www.isa-arbor.com/Credentials/Which-Credential-is-Right-for-You>.

Certification	Number of Job Postings	Median Hourly Advertised Salary
Certified Arborist	46	\$47.38
First Aid Certification	44	\$42.46
Cardiopulmonary Resuscitation (CPR) Certification	43	\$42.46
Herbicide Applicator License	36	\$39.75
30-Hour OSHA Industry CARD	19	\$37.26

Exhibit 8 shows the most requested skills in job postings by occupation in the Far North subregion.⁶

Exhibit 8. Most requested in-demand skills in job postings

Specialized Skills	Common or Employability Skills	Software and Technology Skills
<ul style="list-style-type: none"> • Landscaping • Mowing • Irrigation • Pruning • Lifting Ability • Chainsaws • Trimming • Construction • Gardening • Groundskeeping 	<ul style="list-style-type: none"> • Communication • Management • Operations • Professionalism • Leadership • Customer Service • Detail Oriented • Positivity • Time Management • Adaptability 	<ul style="list-style-type: none"> • Microsoft Excel • Geographic Information Systems

Exhibit 9 shows the employer-preferred minimum level of education in job postings related to the selected occupations in the Far North. Jobs requiring education beyond a high school diploma were few, but commanded a premium with an average advertised salary of \$47.38 per hour.

⁶ Specialized skills are those primarily required to perform specific tasks in an occupation. Common skills are typically related to employability; these are skills that are prevalent across many occupations and usually include a mix of interpersonal attributes and soft skills. Software skills are specific to any software tool or programming component used to accomplish tasks in a job.

Exhibit 9. Employer-preferred education levels for the studied occupations

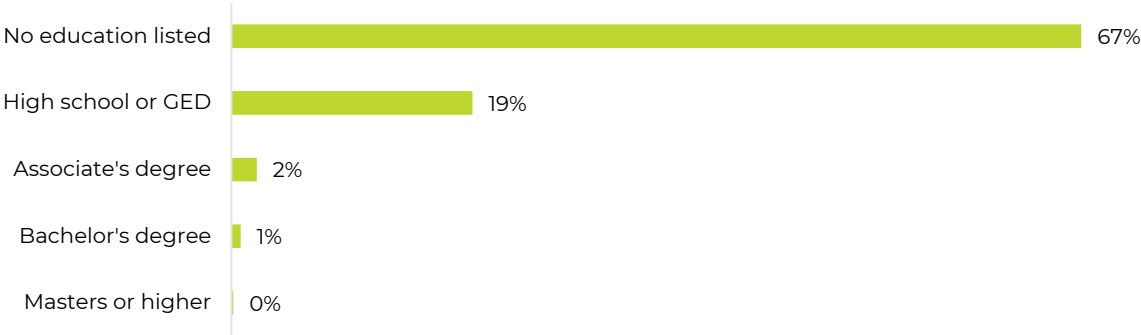
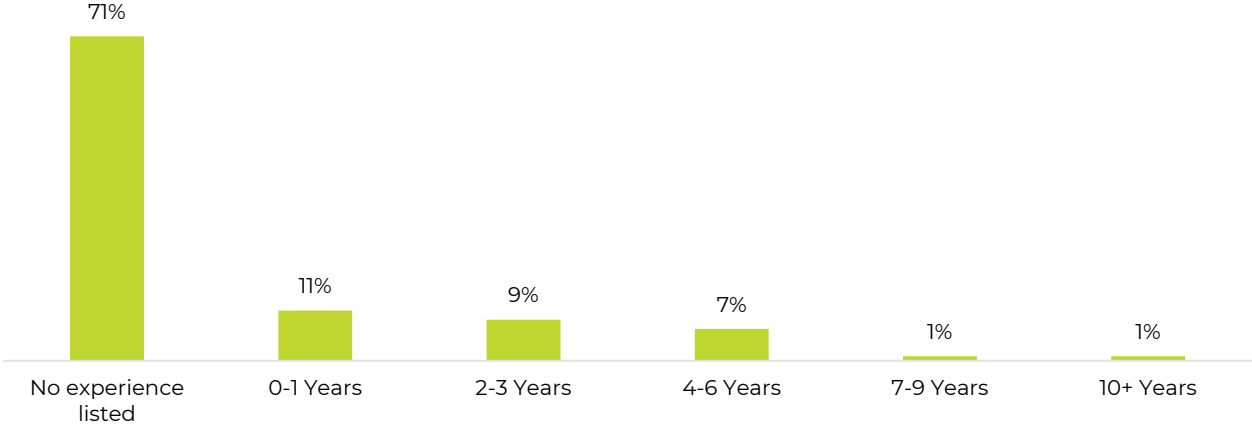


Exhibit 10 shows the employer-preferred minimum level of experience in job postings related to the selected occupations in the Far North.

Exhibit 10. Employer-preferred experience levels for the studied occupations



Education and Training Requirements

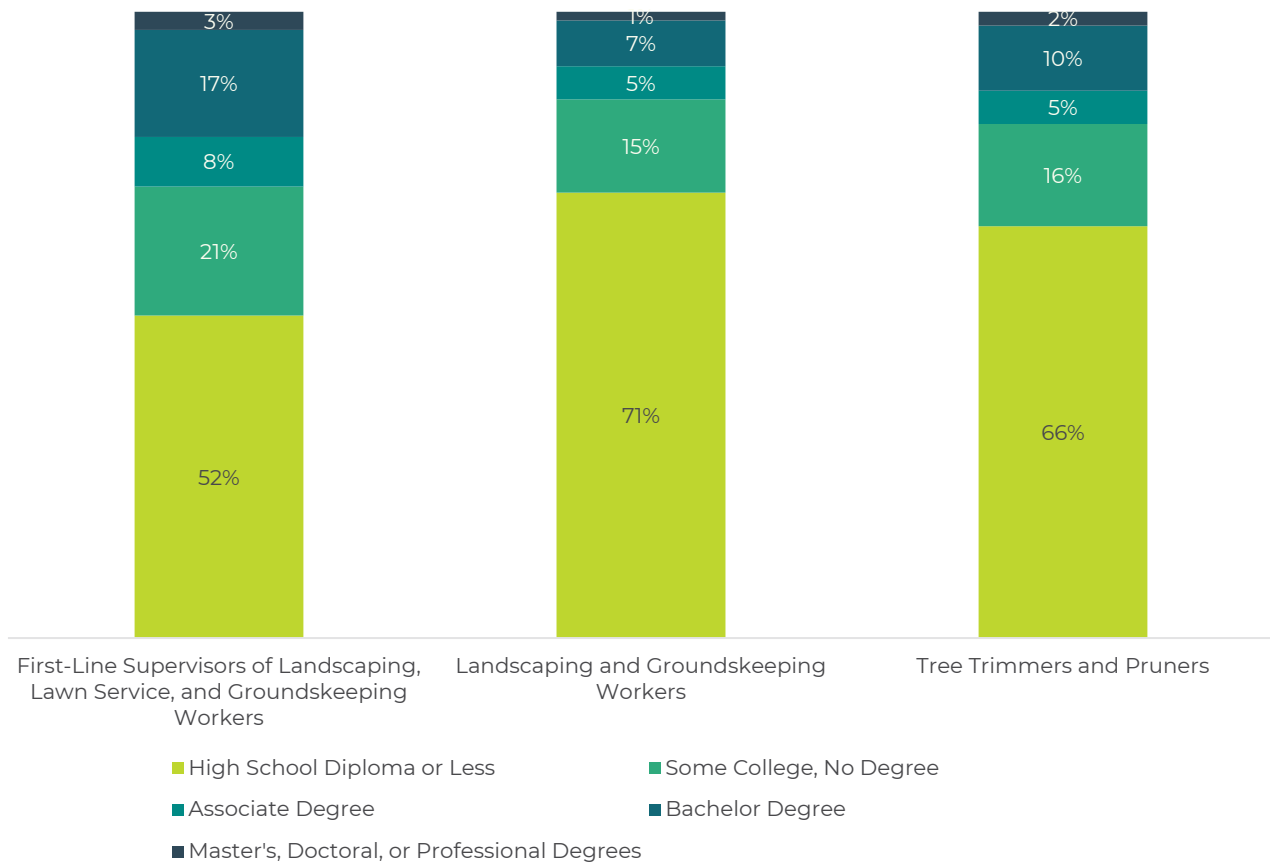
The U.S. Bureau of Labor Statistics (BLS) assigns each occupation a typical entry-level education, related work experience, and on-the-job training category in its projection data. Exhibit 10 summarizes these requirements by occupation.

Exhibit 10. Typical entry-level job requirements for the studied occupations

Occupation	Entry-Level Education	Work Experience	On-The-Job Training
First-Line Supervisors of Landscaping, Lawn Service, and Groundskeeping Workers	High school diploma or equivalent	Less than 5 years	None
Landscaping and Groundskeeping Workers	No formal educational credential	None	Short-term on-the-job training
Tree Trimmers and Pruners	High school diploma or equivalent	None	Short-term on-the-job training

The U.S. Census Bureau tracks the highest education level attained by workers in all occupations. Exhibit 11 presents this data for the current U.S. workforce in the studied occupations.

Exhibit 11. Educational attainment for workers 25 years and older by occupation, 2021-22



Educational Supply

Educational supply for an occupation can be estimated by analyzing the number of awards issued in related Taxonomy of Programs (TOP) or Classification of Instructional Programs (CIP) codes.

Community college supply

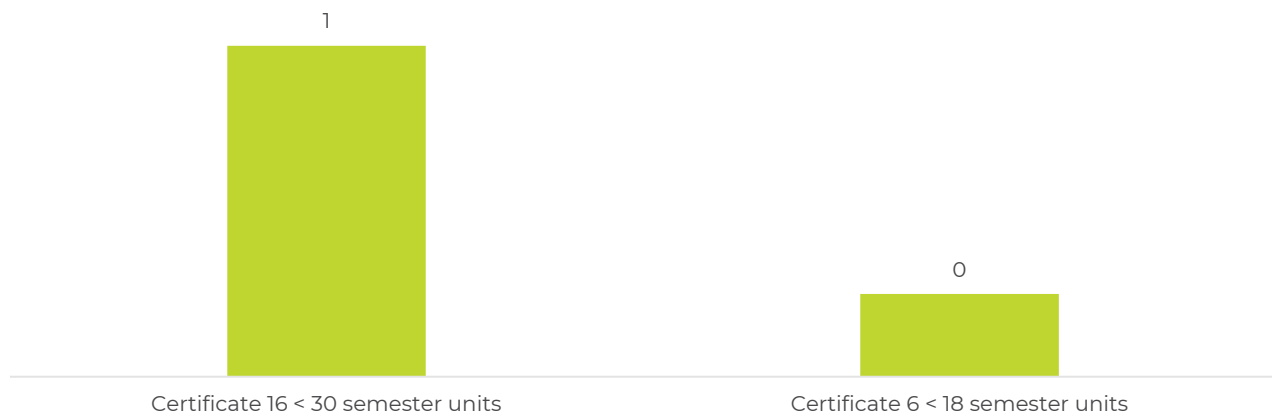
Exhibits 12 and 13 summarize the three-year average of awards (certificates and degrees) conferred by the Far North community college programs relevant to the occupations studied. Butte's program is titled Landscape/Turfgrass Technician, and Mendocino's program is titled Agriculture: Landscape Practices. Shasta's program is not chartered with the Chancellor's Office.

Exhibit 12. Average annual community college awards by TOP program

TOP Program and Code	College	2022-23 Annual Awards	2023-24 Annual Awards	2024-25 Annual Awards	Three-Year Average Awards
Landscape Design and Maintenance (0109.10)	Butte	1	0	0	0
	Mendocino	0	1	2	1
	Shasta	0	0	1	0
Totals		1	1	3	2

Note: Values in the table are rounded to the nearest whole number. However, subtotals and totals are calculated using unrounded values.

Exhibit 13. Average annual community college awards by award type and program area



Other postsecondary supply

There are no programs conferring awards at other postsecondary institutions outside of the community college system in the Far North that provide relevant training for utility arborists.

Conclusion and Recommendations

Data insights

Demand— Arborist occupations have job growth in the Far North subregion that is on par with growth in the rest of California. In both California and the Far North subregion, jobs in arborist occupations are growing at a rate of 2% annually.

Living Wage— Eighty-five percent of annual openings are for Landscaping and Groundskeeping Workers, which has entry-level wages below the living wage. Entry-level wages are \$16.04 per hour for Landscaping and Groundskeeping Workers, which is below the living wage for a single working adult in Butte's community college district of \$16.77 per hour. However, job postings show a higher advertised salary of \$22.40 per hour. Also, entry-level wages are much higher for First-Line Supervisors of Landscaping, Lawn Service, and Groundskeeping Workers and Tree Trimmers and Pruners, at \$17.55 and \$19.72 per hour, respectively.

Education—The majority of those in arborist occupations have a high school diploma or less as their highest level of educational attainment. Between 52% and 71% of those in arborist occupations had a high school diploma or less as their highest level of educational attainment.

Supply Gap— There is a significant supply gap for utility arborists. There are 685 annual job openings and an average of only 2 annual awards.

Recommendation

Based on the current analysis, the North Far North COE recommends that community colleges **proceed with caution** in creating new programs related to Arborists.

New Program Recommendation		
Proceed <input type="checkbox"/>	Use Caution <input checked="" type="checkbox"/>	Do Not Proceed <input type="checkbox"/>

Appendix A. Methodology and Data Sources

Labor market and educational supply data compiled in this report derive from a variety of sources. Occupations were identified by using the Center of Excellence TOP-to-CIP-to-SOC Crosswalk: <http://coecc.net/>. This report's findings were primarily determined with labor market and educational supply data from the Bureau of Labor Statistics (BLS), the economic modeling firm and job postings aggregator Lightcast, and the California Community Colleges Chancellor's Office.

Data Sources

The following table summarizes the data sources used in this study.

Data Type	Source
Labor Market Information and Job Postings	Traditional labor market information data is sourced from Lightcast, a labor market analytics firm. Lightcast's occupational employment data are based on final Lightcast industry data and final Lightcast staffing patterns. Wage estimates are based on Occupational Employment Statistics (QCEW and non-QCEW employee classes of worker) and the American Community Survey (self-employed and extended proprietors). For more information, see https://lightcast.io/ .
Living Wage	The living wage is derived from the Insight Center's California Family Needs Calculator, which measures the income necessary for an individual or family to afford basic expenses. The data assesses the cost of housing, food, childcare, health care, transportation, and taxes. The Chancellor's Office uses wage data to calculate the percentage of students who attained a regional living wage. For more information, visit https://selfsufficiencystandard.org/California/ .
Typical Education Level, On-the-job Training, and Educational Attainment	The Bureau of Labor Statistics (BLS) provides information about education and training requirements for hundreds of occupations. BLS uses a system to assign categories for entry-level education, work experience in a related occupation, and typical on-the-job training to each occupation for which BLS publishes projections data. For more information, visit https://www.bls.gov/emp/documentation/education/tech.htm .
Emerging Occupation Descriptions, Additional Education Requirements, and Employer Preferences	The O*NET database includes information on skills, abilities, knowledge areas, work activities, and interests associated with occupations. For more information, visit https://www.onetonline.org/help/online/ .
Labor Force, Employment and Unemployment Estimates	The California Employment Development Department's Labor Market Information Division is a source of labor market and workforce data. For more information, visit labormarketinfo.edd.ca.gov .
Educational Supply	<p>The CCCCO Management Information Systems (MIS) Data Mart provides information about students, courses, student services, outcomes, and faculty and staff. For more information, visit https://datamart.cccco.edu.</p> <p>The Chancellor's Office Curriculum Inventory System (COCI) collects data on courses and programs offered by the California Community Colleges. For more information, visit https://coci2.ccctechcenter.org/.</p> <p>The National Center for Education Statistics (NCES) Integrated Postsecondary Education Data System (IPEDS) collects data from providers of postsecondary education, including the number of postsecondary awards earned (completions). For more information, visit https://nces.ed.gov/ipeds/use-the-data/survey-components/7/completions.</p>
Student Metrics and Demographics	DataVista, a statewide data system supported by the Chancellor's Office and hosted by Cal-PASS Plus, provides data on progress, success, employment, and earnings outcomes for California community college students. For more information, visit https://datavista.cccco.edu/ .
International Society of Arboriculture Credentials	The International Society of Arboriculture maintains many credentials, including the Certified Arborist and Certified Arborist Utility Specialist. For more information, visit https://www.isa-arbor.com/Credentials/Which-Credential-is-Right-for-You .

Living Wage

Beginning in October 2024, to determine if an occupation meets the living wage threshold, the NFN COE compared the 25th percentile hourly wage of an occupation in the subregion to the living wage for a single adult (no dependents) living in the county where the requesting community college district was located.

This change aligned with the Chancellor's Office methodology for calculating the share of students earning a living wage after leaving the California Community College system, as reported in the Data Vista living wage metric (802S). For details, see the [DataVista Metric Definition Dictionary](#).

The NFN COE updated this practice as needed to remain consistent with the Chancellor's Office. The table below summarizes hourly living wages by community college district and county.

2024 Single Adult Living Wage			
Community College District	County	Hourly	Annual
Butte-Glenn	Butte	\$16.77	\$35,416
Feather River	Plumas	\$15.11	\$31,909
Lake Tahoe	El Dorado	\$22.11	\$46,703
Lassen	Lassen	\$14.81	\$31,274
Los Rios	Sacramento	\$21.17	\$44,709
Mendocino-Lake	Mendocino	\$17.06	\$36,039
Redwoods	Humboldt	\$16.59	\$35,046
Shasta-Tehama-Trinity Joint	Shasta	\$16.99	\$35,874
Sierra Joint	Placer	\$23.92	\$50,519
Siskiyou Joint	Siskiyou	\$14.51	\$30,639
Yuba	Sutter	\$17.08	\$36,074
California Minimum Wages			
All industries, except fast food and healthcare (Effective January 2025)		\$16.90	\$35,152
Fast food (Effective April 2024)		\$20.00	\$41,600
Healthcare (Effective October 2024)		\$18.63-\$24.00, depending on facility type	\$38,750-\$49,920

Sources: University of Washington Self Sufficiency Standard and State of California Department of Industrial Relations, "Minimum Wage," https://www.dir.ca.gov/dlse/minimum_wage.htm

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