

LABOR MARKET ANALYSIS

FOR PROGRAM EXPLORATION



C·O·E

CENTERS OF EXCELLENCE
FOR LABOR MARKET RESEARCH

AGRICULTURAL MECHANICS IN GREATER SACRAMENTO

North (Greater Sacramento)
Center of Excellence

APRIL 2023

TABLE OF CONTENTS

Summary.....	3
Introduction.....	4
Occupational Demand.....	5
Wages	7
Job Postings.....	7
Education and Training	13
Educational Supply.....	14
Community College Programs.....	15
Community College Supply	16
Other Postsecondary Supply	17
Supply-Demand Gap Analysis	18
Findings.....	19
Recommendations	20
Appendix A. Methodology and Sources.....	21
Appendix B. LMI for Colusa and Yolo	22

If, for any reason, this document is not accessible or if you have specific needs for readability, please contact us, and we will do our utmost to accommodate you with a modified version. To make a request, contact Ebony J. Benzing by phone at (916) 563-3215 or by email at Ebony.Benzing@losrios.edu.

SUMMARY

The North (Greater Sacramento) of Excellence for Labor Market Research prepared this report to provide a labor market analysis of educational supply and occupational demand for middle-skilled careers in the North (Greater Sacramento) subregion. 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.

This report primarily focuses on training that leads to jobs in middle-skilled occupations - jobs that typically require education beyond a high school diploma but less than a bachelor's degree - but may include higher-skilled occupations for training pathways that lead to a bachelor's degree. Lowered skilled occupations are rarely considered in this analysis due to the lessened barriers for entry-level work, such as no formal education and fewer on-the-job training requirements.

Key findings include:

- The Greater Sacramento subregion held 2,631 agricultural mechanic jobs in 2021. These jobs are projected to increase by 14% over the next five years, adding 379 new jobs to the subregion by 2026.
- Over the next five years, agricultural mechanic jobs are projected to have 337 annual openings in the Greater Sacramento subregion.
- Analysis of wage data shows that the four agricultural mechanic occupations earn an entry-level wage over the single adult living wage of \$14.53 per hour.
- Several Greater Sacramento community colleges offer degrees and certificates in four TOP-coded programs related to the four agricultural mechanic occupations. These programs conferred an average of 22 awards (certificates and associate degrees) in related programs over the last three academic years (2019-20 through 2021-22).
- Awards data analysis shows that North (Greater Sacramento) community colleges conferred an average of awards (certificates and associate degrees) from three TOP code programs over the last three academic years.

Recommendations include:

- The North (Greater Sacramento) Center of Excellence recommends creating new programs to address the potential shortage of workers in these occupations.

INTRODUCTION

The North (Greater Sacramento) Center of Excellence (COE) was asked to provide labor market information for a proposed program at a regional community college. This report focuses on the following Standard Occupational Classification (SOC) occupations and codes:

- These middle-skill occupations require more education and training beyond a high school diploma but usually less than a four-year degree:
 - Farm Equipment Mechanics and Service Technicians (49-3041)
 - Mobile Heavy Equipment Mechanics, Except Engines (49-3042)
 - Outdoor Power Equipment and Other Small Engine Mechanics (49-3053)
 - Industrial Machinery Mechanics (49-9041)

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

- Agricultural Power Equipment Technology (0116.00)
- Heavy Equipment Maintenance (0947.20)
- Heavy Equipment Operation (0947.30)
- Diesel Technology (0947.00)
- Motorcycle, Outboard, and Small Engine Repair (0948.00)
- Industrial Systems Technology and Maintenance (0945.00)

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

- Agricultural Mechanics and Equipment/Machine Technology/Technician (01.0205)
- Agricultural Mechanization, General (01.0201)
- Agricultural Power Machinery Operations (01.0204)
- Small Engine Mechanics and Repair Technology (47.0606)
- Industrial Mechanics (47.0303)

OCCUPATIONAL DEMAND

Exhibit 1 summarizes the five-year projected job growth for middle-skill and high-skill occupations in North (Greater Sacramento), the North Far North, and California. Employment data for these four occupations in Colusa and Yolo counties can be found in Appendix B.

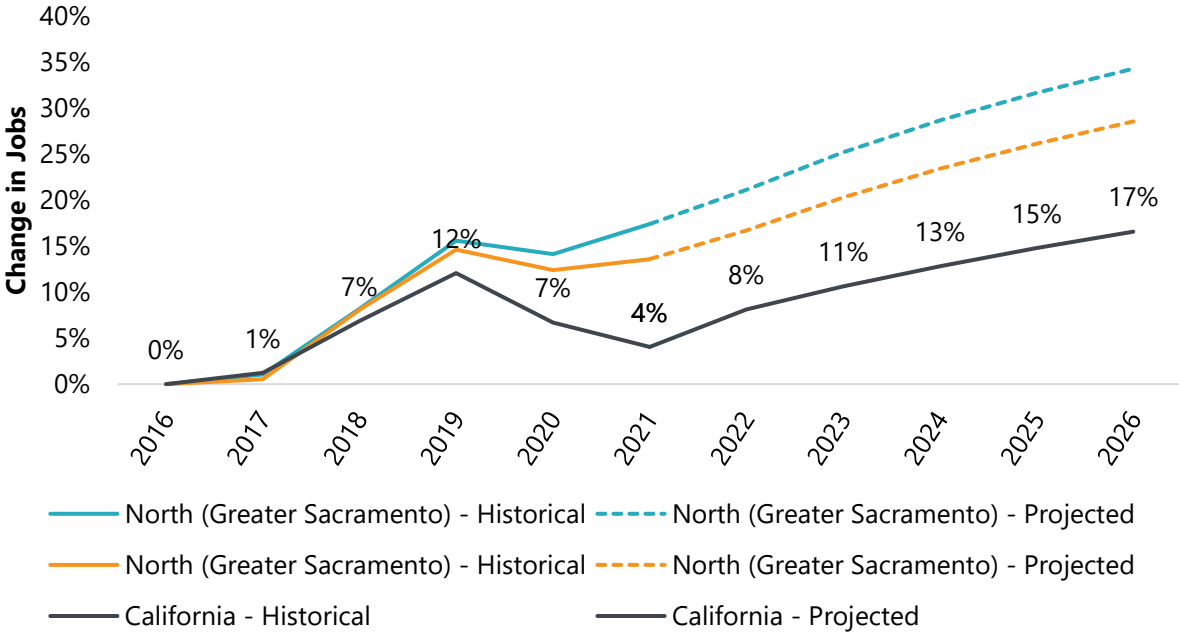
Exhibit 1. Employment and projected demand, 2021-2026

Occupation	2021 Jobs	2026 Jobs	2021-2026 Change	2021-2026 % Change	2021-2026 Annual Openings
Farm Equipment Mechanics and Service Technicians	266	280	14	5%	31
Mobile Heavy Equipment Mechanics, Except Engines	1,044	1,149	106	10%	125
Outdoor Power Equipment and Other Small Engine Mechanics	238	275	37	15%	34
Industrial Machinery Mechanics	1,083	1,306	222	20%	148
Greater Sacramento Totals	2,631	3,010	379	14%	337
Farm Equipment Mechanics and Service Technicians	444	474	31	7%	53
Mobile Heavy Equipment Mechanics, Except Engines	1,485	1,618	133	9%	174
Outdoor Power Equipment and Other Small Engine Mechanics	361	405	44	12%	49
Industrial Machinery Mechanics	1,610	1,917	307	19%	215
North Far North Totals	3,899	4,413	514	13%	491
Farm Equipment Mechanics and Service Technicians	3,879	4,217	338	9%	460
Mobile Heavy Equipment Mechanics, Except Engines	13,193	14,472	1,279	10%	1,574
Outdoor Power Equipment and	2,768	3,059	291	11%	363

Occupation	2021 Jobs	2026 Jobs	2021-2026 Change	2021-2026 % Change	2021-2026 Annual Openings
Other Small Engine Mechanics					
Industrial Machinery Mechanics	23,807	27,160	3,353	14%	2,888
California Totals	43,648	48,908	5,260	12%	5,285

Exhibit 2 compares the percent change in jobs between 2016 through 2021 and the projected changes through 2026. The rate of change is indexed to the total number of jobs in 2016.

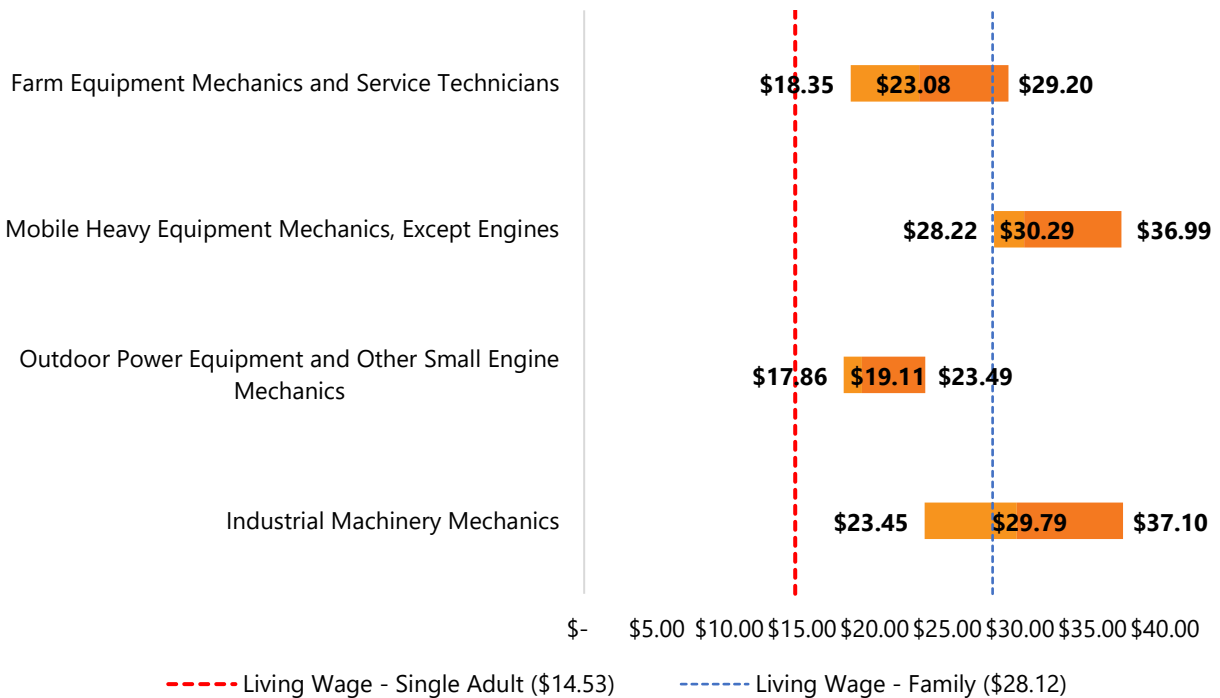
Exhibit 2. Changes in employment, 2016-2026



WAGES

Exhibit 3 compares the entry-level, median, and experienced wages for the selected occupations to the North (Greater Sacramento) living wage for a single adult (\$14.53 per hour) and a small family (\$28.12 per hour).^{1,2}

Exhibit 3. Comparison of wages by occupation, 2021



JOB POSTINGS

This section analyzes recent data from online job postings (real-time LMI). Online job postings may provide additional insight into recent changes in the labor market that are not captured by historical trends.

The North COE identified 313 online job postings for the selected occupations in the seven-county Greater Sacramento subregion. Job posting data comes from Lightcast (formerly Emsi Burning Glass) and represents unique listings posted online within the last year, from April 1, 2022, to March 30, 2023.

¹ Living wage is defined as the level of income a single 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 proxy for entry-level and experienced-level wages.

² A small family is defined as a single adult and one school aged child (between the ages of 5 and 12 years).

Exhibit 4 details the number of online job postings for the selected occupations.

Exhibit 4. Number of job postings by occupation

Occupation	Job Postings	Share of Job Postings
Mobile Heavy Equipment Mechanics, Except Engines	145	46%
Industrial Machinery Mechanics	137	44%
Farm Equipment Mechanics and Service Technicians	17	5%
Outdoor Power Equipment and Other Small Engine Mechanics	14	4%
Total Job Postings	313	100%

Exhibit 5 shows the top 10 relevant job titles with the most job postings.

Exhibit 5. Top jobs titles

Job Title	Number of Job Postings
Maintenance Mechanics	45
Equipment Mechanics	41
Heavy Equipment Mechanics	32
Agricultural Equipment Mechanics	16
Industrial Mechanics	15
Agriculture Mechanics	11
Heavy Equipment Technicians	11
Industrial Maintenance Mechanics	11
Heavy Duty Mechanics	10
Mechanic Assistants	9

Exhibit 6 shows the top 10 relevant employers with the most job postings for the selected occupations.

Exhibit 6. Employers with the most job postings

Employer	Job Postings
Pape Machinery	18
Rite Aid	8
State of California	7
Keurig Dr Pepper	7
United States Department of Veterans Affairs	7
Basic Resources	6
Pape Group	6
Silgan	6
Sacramento Regional Transit District	5
Ampac Fine Chemicals	5

Exhibit 7 shows the cities with the most job postings.

Exhibit 7. Job postings by City

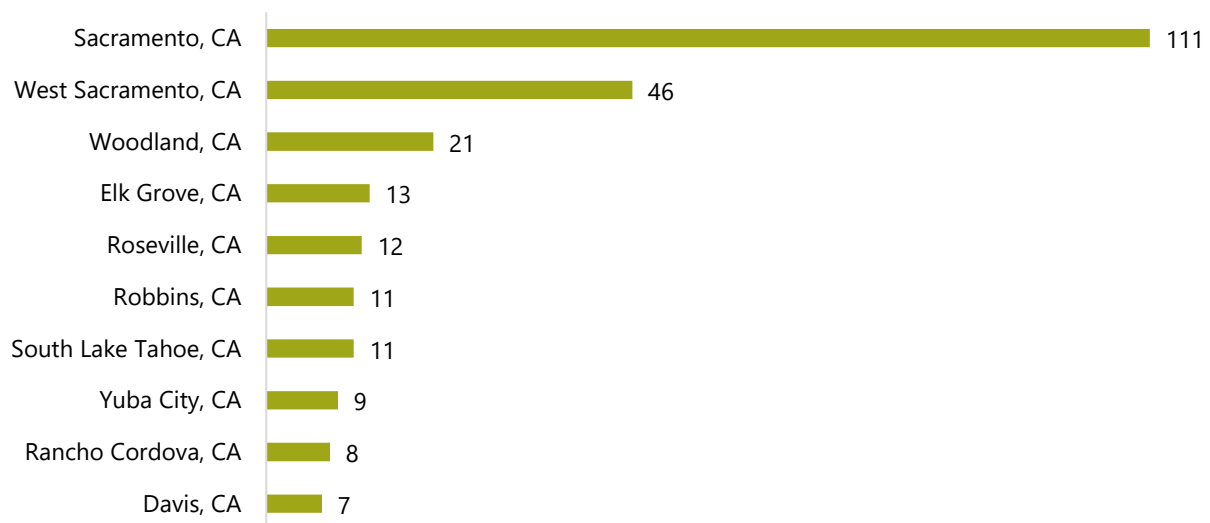


Exhibit 8 shows the top 10 skills across three categories for the studied occupations: specialized, essential, and software skills.³

Exhibit 8. Most in-demand skills

Specialized Skills	Common Skills	Software Skills
Hydraulics	Troubleshooting (Problem-Solving)	Inventory Control Systems
Mechanics	Communications	Microsoft Office
Heavy Equipment	Operations	Application Programming Interface (API)
Equipment Repair	Lifting Ability	SAP Applications
Welding	Customer Service	CANalyzer
Preventive Maintenance	Management	Disassembler
HVAC	Detail Oriented	--
Machinery	Self-Motivation	--
Hand Tools	Mentorship	--
Electrical Systems	Good Driving Record	--

Exhibit 9 shows the top 10 specialized skills for each occupation. Skills are highlighted to show which are shared across the four occupations. The most commonly shared skills (i.e., those shared across at least three occupations) include hydraulics, equipment repair, and mechanics.

Exhibit 9. Most in-demand skills

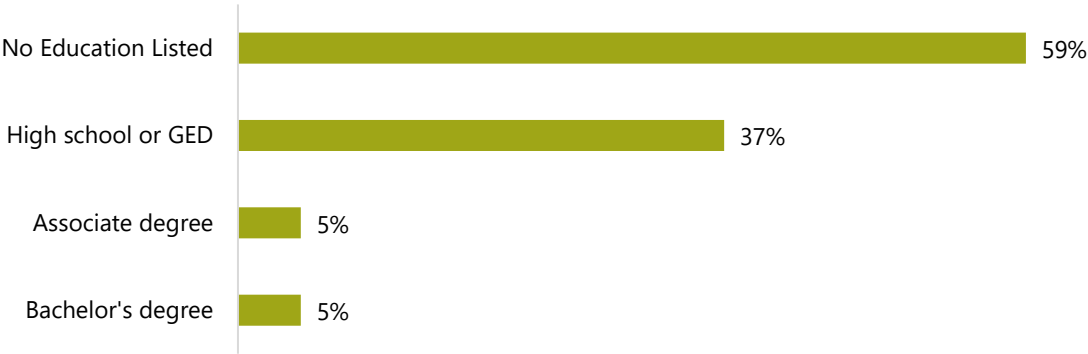
Mobile Heavy Equipment Mechanics, Except Engines	Industrial Machinery Mechanics	Farm Equipment Mechanics and Service Technicians	Outdoor Power Equipment and Other Small Engine Mechanics
Heavy equipment	Welding	Agriculture	Small engines

³ Specialized skills are those primarily required to perform specific tasks in an occupation. Essential skills are typically related to employability. These are skills that are prevalent across many occupations, and include both interpersonal attributes and learned skills (aka "soft skills"). Software skills are specific to any software tool or programming component used to support a job.

Mobile Heavy Equipment Mechanics, Except Engines	Industrial Machinery Mechanics	Farm Equipment Mechanics and Service Technicians	Outdoor Power Equipment and Other Small Engine Mechanics
Hydraulics	Preventive maintenance	Mechanics	Moving
Equipment repair	Mechanics	Equipment repair	Small engine repair
Mechanics	Blueprinting	Agricultural equipment	Chainsaws
Diesel engines	Machinery	HVAC	Planned maintenance
Electrical Systems	Fabrication	Hydraulics	Power tool operation
Brakes	Hand tools	Small engines	Core drills
HVAC	Hydraulics	Equipment inspection	Equipment repair
Equipment maintenance	Production equipment	Hand tools	Maintenance scheduling
Welding	Industrial repair and maintenance	Forklift truck	Riding mowers

Exhibit 10 shows the minimum level of education requirements for related job postings in the Greater Sacramento subregion.⁴

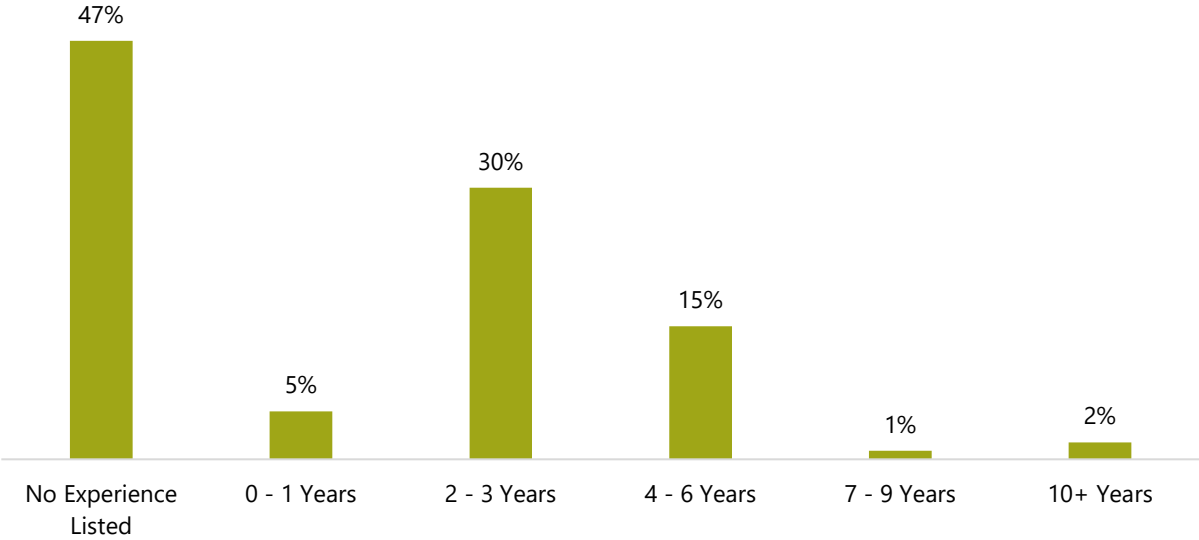
Exhibit 10. Employer-preferred job candidate education levels



⁴ Employers may include more than one level of education as a hiring requirement in a job posting. As a result, the values in exhibit 9 may sum to greater than 100%.

Exhibit 11 shows the experience levels employers require for job postings for the selected occupations.⁵

Exhibit 11. Employer-preferred job candidate experience levels

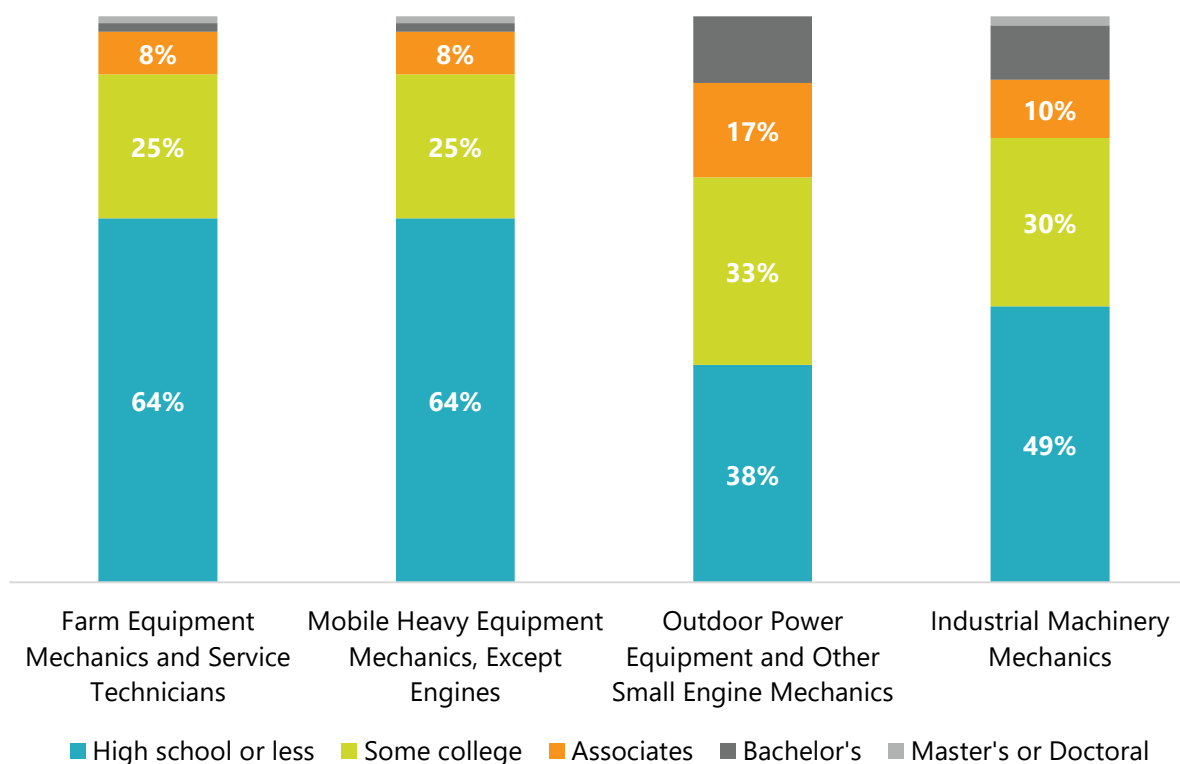


⁵ Employers may include more than one level of experience as a hiring requirement in a job posting. As a result, the values in exhibit 10 may sum to greater than 100%.

EDUCATION AND TRAINING

The U.S. Census Bureau collects data on the highest education level achieved by workers across all occupations. Exhibit 12 shows California's educational attainment of the current workforce in the selected occupations.

Exhibit 12. California educational attainment for selected occupations, 2019



The U.S. Bureau of Labor Statistics (BLS) uses a categorical system to assign typical entry-level education and job requirements to each occupation for which the BLS publishes projection data. These categories include entry-level education, work experience in a related occupation, and on-the-job training. Exhibit 13 shows the selected occupations' typical entry-level education and job requirements.

Exhibit 13. Typical entry-level education and job requirements

Occupation	Typical Entry-level Education	Work Experience Required	On-the-job Training Required
Farm Equipment Mechanics and Service Technicians	High school diploma or equivalent	None	Long-term on-the-job training

Occupation	Typical Entry-level Education	Work Experience Required	On-the-job Training Required
Mobile Heavy Equipment Mechanics, Except Engines	High school diploma or equivalent	None	Long-term on-the-job training
Outdoor Power Equipment and Other Small Engine Mechanics	High school diploma or equivalent	None	Moderate-term on-the-job training
Industrial Machinery Mechanics	High school diploma or equivalent	None	Long-term on-the-job training

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. Exhibit 14 shows the TOP and CIP codes for educational programs related to the selected occupations.

Exhibit 14. TOP and CIP codes for training programs related to the selected occupations

Occupation	Aligned TOP Programs and Codes	Aligned CIP Programs and Codes
Farm Equipment Mechanics and Service Technicians (49-3041)	Agricultural Power Equipment Technology (0116.00)	Agricultural Mechanics and Equipment/Machine Technology/Technician (01.0205)
	Heavy Equipment Maintenance (0947.20)	Agricultural Mechanization, General (01.0201)
	Heavy Equipment Operation (0947.30)	Agricultural Power Machinery Operations (01.0204)
Mobile Heavy Equipment Mechanics (49-3042)	Agricultural Power Equipment Technology (0116.00)	Agricultural Mechanics and Equipment/Machine Technology/Technician (01.0205)
	Diesel Technology (0947.00)	Heavy Equipment Maintenance Technology/Technician (47.0302)
	Heavy Equipment Maintenance (0947.20)	
Outdoor Power Equipment and Other Small Engine Mechanics (49-3053)	Motorcycle, Outboard, and Small Engine Repair (0948.30)	Small Engine Mechanics and Repair Technology (47.0606)

Occupation	Aligned TOP Programs and Codes	Aligned CIP Programs and Codes
Industrial Machinery Mechanics (49-9041)	Industrial Systems Technology and Maintenance (0945.00)	Industrial Mechanics (47.0303)

Community College Programs

Exhibit 15 summarizes the certificate and degree programs related to the four agricultural mechanic occupations offered in Greater Sacramento's community colleges.

Exhibit 15. Greater Sacramento Agricultural Mechanics Programs

TOP Code	College	Program Title	Award Offered
Agricultural Power Equipment Technology (0116.00)	Cosumnes River	Mechanized Agriculture Technician	Certificate
Heavy Equipment Maintenance (0947.20)	N/A	N/A	N/A
Heavy Equipment Operation (0947.30)	N/A	N/A	N/A
Diesel Technology (0947.00)	American River	Clean Diesel Hybrid Technology	Certificate
		Clean Deisel Industrial	Certificate
		Clean Diesel Management Systems	Certificate
		Clean Diesel Technology	Certificate
		Diesel Engine Technology	Certificate
		Diesel Technology	Certificate A.S. Degree

TOP Code	College	Program Title	Award Offered
		Light Duty Diesel Truck	Certificate
		Preventive Maintenance	Certificate
Motorcycle, Outboard, and Small Engine Repair (0948.30)	American River	Small Engines	Certificate
	American River	Millwright Apprenticeship, Millwright Lvl's I, II, and III	Certificate A.S. Degree
Industrial Systems Technology and Maintenance (0945.00)	Sacramento City	Electro-Mechanical Technician	Certificate A.S. Degree
		Industrial Maintenance Technician	Certificate

Source: The Chancellor's Office Curriculum Inventory System (COCI), <https://coci2.ccctechcenter.org/>, accessed April 6, 2023

Community College Supply

Exhibit 16 compares the average number of certificates and degrees from selected Greater Sacramento community college programs over the last three academic years.

- Awards for Cosumnes River's program do not exist because the program was offered for the first time beginning in the 2022-23 academic year.
- Greater Sacramento community colleges do not offer training programs under Heavy Equipment Maintenance (0947.20) and Heavy Equipment Operation (0947.30).
- DataMart did not contain awards data for American River's Motorcycle, Outboard, and Small Engine Repair (0948.30) program.
- The 2021-22 academic year is the first and only year of award data for American River's Industrial Systems Technology and Maintenance (0945.00) program.
- Sacramento City's last reported awards for its Industrial Systems Technology and Maintenance (0945.00) program in the 2017-18 academic year. No awards data exists for this program after 2017-18.

Exhibit 16. Annual average community college awards by program

Program - TOP Code	College	Annual Awards 2019-20	Annual Awards 2020-21	Annual Awards 2021-22	3-Yr Annual Awards Average
Agricultural Power Equipment Technology (0116.00)	Cosumnes River	N/A	N/A	N/A	0
	Subtotals	--	--	--	0
Diesel Technology (0947.00)	American River (A.S. degree only)	10	5	1	5
	American River (certs only)	19	16	10	15
	Subtotals	29	21	11	20
Industrial Systems Technology and Maintenance (0945.00)	American River	--	--	2	2
	Subtotals	--	--	2	2
	Grand Total	29	21	13	22

Other Postsecondary Supply

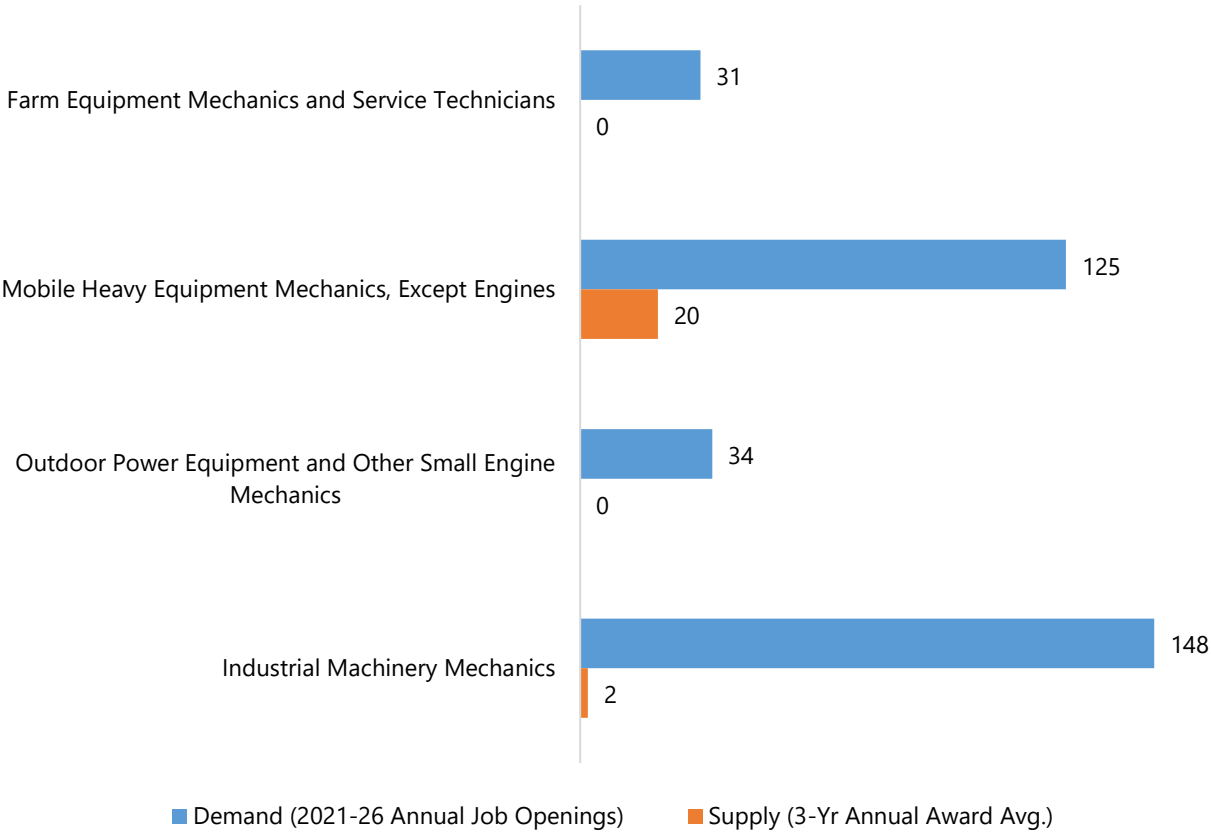
The North (Greater Sacramento) Center of Excellence was unable to identify other postsecondary training programs in the Greater Sacramento subregion for the following programs:

- Agricultural Mechanics and Equipment/Machine Technology/Technician (01.0205)
- Agricultural Mechanization, General (01.0201)
- Agricultural Power Machinery Operations (01.0204)
- Small Engine Mechanics and Repair Technology (47.0606)
- Industrial Mechanics (47.0303)

SUPPLY-DEMAND GAP ANALYSIS

To estimate the supply gap for agricultural mechanics in the Greater Sacramento subregion, the Center of Excellence compared annual job openings to the average supply of awards issued by community colleges and other postsecondary training providers (Exhibit 17). Comparing awards to annual openings shows a gap in meeting workforce demand for agricultural mechanic occupations.

Exhibit 17. Supply-Demand Gap for Agricultural Mechanics across Greater Sacramento



FINDINGS

- This report provides an analysis of several career education pathways for four agricultural mechanic occupations: Farm Equipment Mechanics and Service Technicians (49-3041), Mobile Heavy Equipment Mechanics, Except Engines (49-3042), Outdoor Power Equipment and Other Small Engine Mechanics (49-3053), and Industrial Machinery Mechanics (49-9041).
- The Greater Sacramento subregion held 2,631 agricultural mechanic jobs in 2021. These jobs are projected to increase by 14% over the next five years, adding 379 new jobs to the subregion by 2026.
 - Eighty percent of these jobs are concentrated in mobile heavy equipment mechanics and industrial machinery mechanics.
 - Jobs counts are the smallest for farm equipment mechanics and small engine mechanics, with 266 and 238 jobs in 2021, respectively.
- Agricultural mechanic jobs are projected to grow faster in the Greater Sacramento subregion than in California.
- Over the next five years, agricultural mechanic jobs are projected to have 337 annual openings in the Greater Sacramento subregion.
 - Most job openings will be for industrial machinery mechanics (n = 148) and mobile heavy equipment mechanics (n = 125).
 - Each year, there will be an estimated 31 job openings for farm equipment mechanics for the next five years.
- Analysis of wage data shows that the four agricultural mechanic occupations earn an entry-level wage over the single adult living wage of \$14.53 per hour. Hourly wages range from \$17.86 for small engine mechanics to \$28.22 for mobile heavy equipment mechanics.
- According to real-time labor market information, there were about 313 online job postings for agricultural mechanic occupations between April 1, 2022, and March 30, 2023.
 - The most significant number of job postings were for mobile heavy equipment mechanics (n = 145), followed by industrial machinery mechanics (n = 137), farm equipment mechanics (n = 17), and small engine mechanics (n = 14).
- Between 33% and 50% of incumbent workers in the agricultural mechanic occupations have educational attainment levels consistent with community college offerings (some

college or associate degrees). Another 38% to 64% of workers in these occupations have, at most, a high school diploma (or its equivalent).

- While the typical level of education required for entry-level jobs in these occupations is a high school diploma, the occupations also require a moderate-to long-term amount of on-the-job training – making them prime targets for community college training.
- Several Greater Sacramento community colleges offer degrees and certificates in programs related to the four agricultural mechanic occupations. These programs conferred an average of 22 awards (certificates and associate degrees) in related programs over the last three academic years (2019-20 through 2021-22).

RECOMMENDATIONS

- Comparing a three-year average of annual awards to projected annual job openings in the North (Greater Sacramento) subregion shows an undersupply of workers in agricultural mechanics occupations.
 - Community colleges issued an average of 22 awards in related programming over the last three years.
 - There are 337 projected annual openings for agricultural mechanic jobs.
 - The gaps in workforce supply seem to be largest for mobile heavy equipment mechanics and industrial machinery mechanics.
 - Though the gaps are smaller for farm equipment and small engine mechanics, fewer programs target these occupations.
- The North (Greater Sacramento) Center of Excellence recommends creating new programs under the specified TOP codes targeting these four occupations.

New Program Recommendation		
Move forward with the new program	Proceed with caution	A new program is not recommended
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

APPENDIX A. METHODOLOGY AND SOURCES

This report identified Occupations using the Center of Excellence TOP-to-CIP-to-SOC crosswalk and O*Net OnLine. This report's findings were determined using labor market data from the Bureau of Labor Statistics (BLS), U.S. Census Bureau data from Emsi, and jobs posting data from Burning Glass.

Lightcast (Formerly EMSI/Burning Glass) 2022.3; QCEW Employees, Non-QCEW Employees, and Self-Employed. <https://www.economicmodeling.com/>. *Note: EMSI occupational employment data are based on final EMSI industry data and final EMSI staffing patterns. Wage estimates are based on Occupational Employment Statistics (QCEW and Non-QCEW Employees classes of worker) and the American Community Survey (Self-Employed and Extended Proprietors).*

Integrated Postsecondary Education Data System (IPEDS). National Center for Education Statistics. U.S. Department of Education. <https://nces.ed.gov/ipeds/>.

Labor Market Information Division. California Employment Development Department. <https://labormarketinfo.edd.ca.gov/>.

Management Information Systems (MIS) Data Mart. California Community Colleges Chancellor's Office. <https://datamart.cccco.edu/>.

O*NET OnLine. U.S. Department of Labor/Employment and Training Administration (DOL ETA). <https://www.onetonline.org/>.

Public Use Microdata Sample (PUMS). U.S. Census Bureau American Community Survey (ACS). <https://www.census.gov/programs-surveys/acs/microdata.html>

Self-Sufficiency Standard Tool for California. The University of Washington. <http://www.selfsufficiencystandard.org/>

"Taxonomy of Programs." California Community Colleges Chancellor's Office. June 2012, 6th Edition. <https://www.cccco.edu/-/media/CCCCO-Website/About-Us/Divisions/Educational-Services-and-Support/Academic-Affairs/What-we-do/Curriculum-and-Instruction-Unit/Files/TOPmanual6200909corrected12513pdf.ashx>

"TOP-CIP-SOC Crosswalk." Centers of Excellence for Labor Market Research. June 2021 Edition. <http://coecc.net/>

APPENDIX B. LMI FOR COLUSA AND YOLO

Exhibit B1. Employment and projected demand of the four agricultural mechanic occupations in Colusa and Yolo Counties, 2021-2026

Occupation	2021 Jobs	2026 Jobs	2021-2026 Change	2021-2026 % Change	2021-2026 Annual Openings	25 th Pct. Hourly Earnings
Farm Equipment Mechanics and Service Technicians	128	132	5	4%	14	\$18.50
Mobile Heavy Equipment Mechanics, Except Engines	151	167	16	11%	18	\$27.98
Outdoor Power Equipment and Other Small Engine Mechanics	21	25	4	17%	3	\$16.23
Industrial Machinery Mechanics	226	267	41	18%	30	\$23.53
Colusa & Yolo Totals	525	591	66	12%	66	--

Exhibit B2. Job postings by occupation, Colusa and Yolo Counties, April 1, 2022, to March 30, 2023

Occupation	Job Postings	Share of Job Postings
Industrial Machinery Mechanics	54	58%
Mobile Heavy Equipment Mechanics, Except Engines	35	38%
Farm Equipment Mechanics and Service Technicians	4	4%
Outdoor Power Equipment and Other Small Engine Mechanics	0	0%
Total Job Postings	317	100%

Exhibit B3. Job Postings by County, April 1, 2022, to March 30, 2023

Employer	Job Postings
Yolo County, Ca	91
Colusa County, Ca	8

Exhibit B4. Job Postings by Employer, Colusa and Yolo Counties, April 1, 2022, to March 30, 2023

Employer	Job Postings
Danaher	8
Rite Aid	8
Crown Equipment Corporation	5
Basic Resources	4
Clarkdietrich Engineering	4
Pape Group	4
UPS	3
Nor Cal Beverage	3
Pape Machinery	3
Cemex	3

COVID-19 Statement: This report includes employment projection data produced by Lightcast (formerly EMSI). Employment projections are developed using models based on historical data, which in this set of projections covers the period through 2021. Most input data, therefore, precedes the pandemic. Employment projections are long-term projections intended to capture structural changes in the economy, not cyclical fluctuations. As such, projections data are not intended to capture the impacts of the recession that began in February 2020. Cyclical fluctuations, like recessions, impact projects when they become part of the historical data set.

Important Disclaimer: 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, neither the Centers of Excellence, COE host District, nor California Community Colleges Chancellor's Office are responsible for applications or decisions made by recipient community colleges or their representatives based upon components or recommendations contained in this study.

© 2022 California Community Colleges Chancellor's Office,
Centers of Excellence for Labor Market Research, Economic and
Workforce Development Program



CENTERS OF EXCELLENCE
FOR LABOR MARKET RESEARCH

FOR MORE INFORMATION,
PLEASE CONTACT:

Ebony J. Benzing, Research
Manager

North (Greater Sacramento)
Center of Excellence

Ebony.Benzing@losrios.edu