

LABOR MARKET ANALYSIS

FOR PROGRAM RECOMMENDATION



C·O·E

CENTERS OF EXCELLENCE
FOR LABOR MARKET RESEARCH

WELDING AUTOMATION IN THE GREATER SACRAMENTO REGION

North (Greater Sacramento)
Center of Excellence

DECEMBER 2022

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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 career pathways 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 on-the-job training requirements.

Key findings include:

- The North (Greater Sacramento) subregion held 2,303 welding jobs in 2021. These jobs are projected to increase by 13% over the next five years, adding 294 new jobs to the subregion by 2026.
- Over the next five years, welding jobs are projected to have 356 annual openings in the North (Greater Sacramento) subregion.
- Analysis of wage data shows that welding occupations earn \$2 to \$5 above the single adult living wage of \$14.53 per hour.
- Awards data analysis shows that North (Greater Sacramento) community colleges conferred an average of 50 awards (certificates and associate degrees) per year in welding technology programs over the last three academic years.

Recommendations include:

- The North (Greater Sacramento) Center of Excellence recommends exercising caution in developing an automated welding training program. Demand is emerging but represents a small segment of job postings, and future growth ultimately depends on whether or not local employers adopt automated welding processes.

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:
 - Welders, Cutters, Solderers, and Brazers (51-4121)
 - Welding, Soldering, and Brazing Machine Setters, Operators, and Tenders (51-4122)

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

- Welding Technology (0956.50)

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

- Welding Technology/Welder (48.0508)

OCCUPATIONAL DEMAND

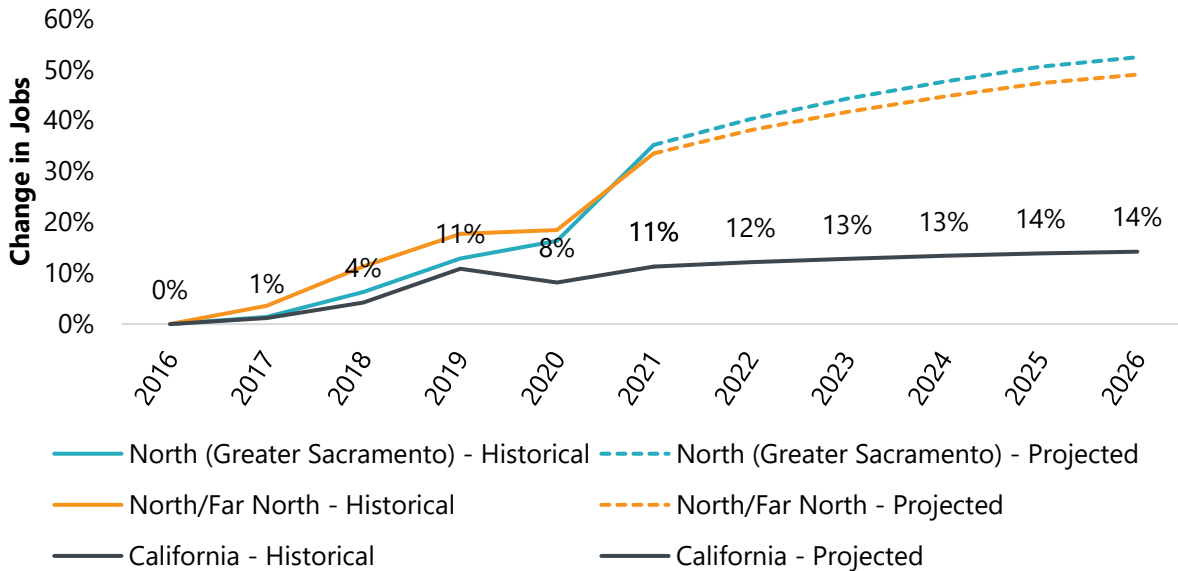
Exhibit 1 summarizes the five-year projected job growth for middle-skill and high-skill occupations in the North, North/Far North, and California.

Exhibit 1. Employment and projected demand, 2021-2026

Occupation	2021 Jobs	2026 Jobs	2021-2026 Change	2021-2026 % Change	2021-2026 Annual Openings
Welders, Cutters, Solderers, and Brazers	2,244	2,532	288	13%	330
Welding, Soldering, and Brazing Machine Setters, Operators, and Tenders	58	64	6	10%	27
North (Greater Sacramento)	2,303	2,596	294	13%	356
Welders, Cutters, Solderers, and Brazers	2,949	3,292	343	12%	434
Welding, Soldering, and Brazing Machine Setters, Operators, and Tenders	67	74	6	10%	30
North/Far North	3,016	3,366	350	12%	464
Welders, Cutters, Solderers, and Brazers	34,040	35,056	1,016	3%	4,293
Welding, Soldering, and Brazing Machine Setters, Operators, and Tenders	2,629	2,579	(50)	(2%)	379
California	36,669	37,634	966	3%	4,672

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 wage¹ for a single adult (\$14.53 per hour) and a small family² (\$28.12 per hour).

Exhibit 3. Comparison of wages by occupation, 2021



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).

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 307 online job postings for the selected occupations in the Greater Sacramento subregion. Job posting data comes from Emsi Burning Glass Labor Insights and represents new listings posted online within the last year, from December 1, 2021, to November 30, 2022.

Occupations and Job Titles

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
Welders, Cutters, Solderers, and Brazers	296	97
Welding, Soldering, and Brazing Machine Setters, Operators, and Tenders	11	4%
Total Job Postings	307	100%

Exhibit 5 shows the top 10 job titles with the most job postings and the share. All job postings included a job title.

Exhibit 5. Top jobs titles

Job Title	Job Postings	Share of Job Postings
Welder	42	14%
Welder/Fabricator	17	6%
Mig Welder	9	3%
Fitter/Welder	8	3%
Gmaw -Siemens	6	2%
Gmaw Welder	6	2%

Job Title	Job Postings	Share of Job Postings
Brazer	5	2%
Manual Welder	5	2%
Solderer/Assembler	5	2%
Tig Welder	5	2%

Employers

Exhibit 6 shows the top 10 employers with the most job postings for the selected occupations. Forty-three percent (n = 131) of job postings did not include an employer.

Exhibit 6. Employers with the most job postings

Employer	Job Postings	Share of Job Postings
Siemens	42	14%
Acara Solutions	11	4%
Watts Water Technologies	8	3%
Jl Haley Enterprises	7	2%
Tesco Controls Incorporated	6	2%
Pacific Gas and Electric Company	5	2%
Clark Pacific	5	2%
Total Security Solutions	4	1%
Jmax Properties	4	1%
Express Incorporated	4	1%

Certifications and Skills

Exhibit 7 shows the most relevant certifications requested by employers for the selected occupations. Seventy percent (n = 215) of job postings did not include a certification requirement.

Exhibit 7. Most in-demand certifications

Certification	Job Postings	Share of Job Postings
Welding Certification	61	20%
Certified Welding Inspector (CWI)	8	3%

Exhibit 8 shows the top 10 skills across three categories for the studied occupations: specialized, foundational, and software skills. The top software skills – Microsoft Excel and Microsoft Office – were mentioned in fewer than ten job postings.

Exhibit 8. Most in-demand specialized skills

Top 10 Specialized Skills	Top 10 Foundational Skills	Top 10 Software Skills
Welding	Physical Abilities	Microsoft Excel
Mig and Tig Welding	Teamwork / Collaboration	Microsoft Office
Repair	Planning	
Welding Equipment	Detail-Oriented	
Hand Tools	Organizational Skills	
Gas-metal Arc Welding (GMAW)	Work Area Maintenance	
Grinders	English	
Siemens Nixdorf Hardware	Communication Skills	
Personal Protective Equipment (PPE)	Troubleshooting	
Machinery	Computer Literacy	

WELDING AUTOMATION IN SACRAMENTO

Welding automation includes two basic categories: semi-automatic (or semi-automated) and fully automatic (or automated). An operator or technician manually loads parts into the semi-automatic welding device. A weld controller performs the welding process within preset parameters. After the weld is completed, the operator removes the assembled components and repeats the process. A machine (or robot) performs this work in fully automatic welding. Depending on the process, a machine operator may be necessary.

To understand the demand for welders using semi- or fully automated welding machines in the Greater Sacramento area, the COE performed job title and keyword searches to isolate automated welding positions among welding job postings. The results of those searches are summarized in the following sections.

Job Titles

Analysis of job titles within the welding job postings revealed few opportunities for automated welding positions. Seven of the 307 welding job postings had titles that alluded to an automated welding job position (Exhibit 9). The COE verified these were actual robotic welding positions by reading the job advertisement. Please see Appendix B for samples of the job postings.

Exhibit 9. Automated Welding Job Titles

Job Title	Number of Job Postings	Employer
2Nd Shift Robotic Welder	4	Watts Water Technologies
Robot Operator	2	John Boyd Radiator Specialties Siemens
Automation Welding Specialist	1	Siemens

Keyword Search

In addition to analyzing job titles, the COE also conducted a keyword search. A Sierra College faculty member supplied the search terms. The COE reviewed each job posting to verify its relevance to this report. Exhibit 10 summarizes the keyword search results and provides a list of related employers and job titles associated with automated welding. Please see Appendix B for samples of the job postings.

Exhibit 10. Summary of Automated Welding Keyword Search

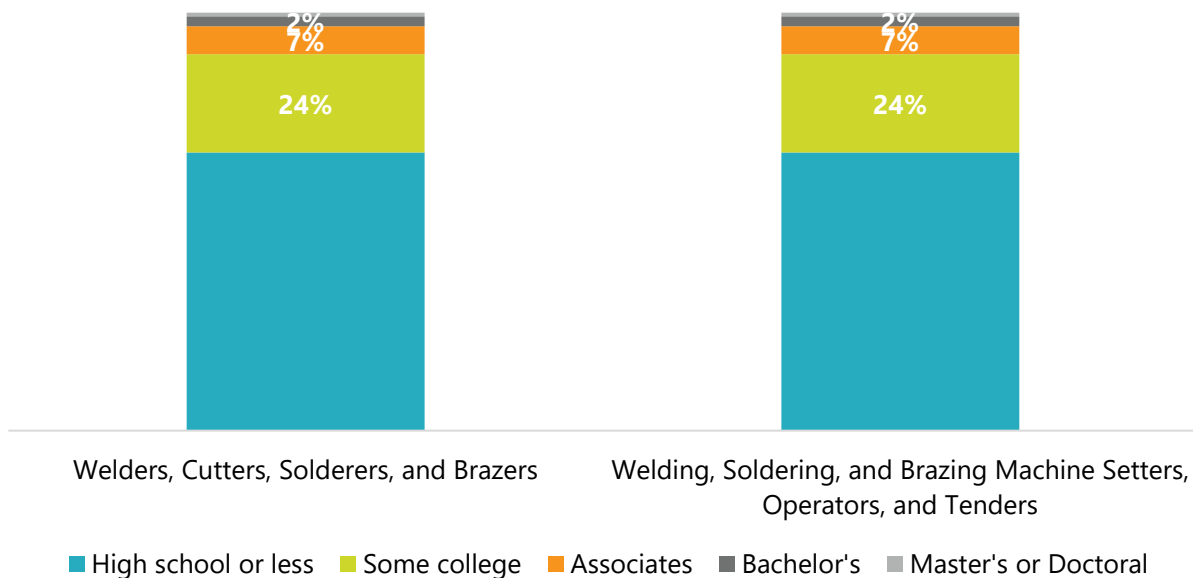
Keyword	Number and Share of Welding Job Postings	Employers	Job Title assoc. with Keyword
"Robotic" or "Robot"	13 (4%)	Air International Thermal Systems	<ul style="list-style-type: none"> • Brazer
		John Boyd Radiator Specialties	<ul style="list-style-type: none"> • Robot Operator
		Siemens	<ul style="list-style-type: none"> • Automation Welding Specialist • Robot Operator
		Watts Water Technologies	<ul style="list-style-type: none"> • 2nd Shift Robotic Welder
"Automated" or "Automatic" (includes searches for semi- and fully automatic welding)	12 (4%)	A&A Ready Mixed Concrete	<ul style="list-style-type: none"> • Welder
		Airgas Incorporated	<ul style="list-style-type: none"> • Specialist – Welding Process
		DMG Mori	<ul style="list-style-type: none"> • Welder
		Randstad US (a staffing company)	<ul style="list-style-type: none"> • Welder • Automation technician
		Sun City	<ul style="list-style-type: none"> • Welder
		Vali Resorts Management Company	<ul style="list-style-type: none"> • Welder - Snowmaking
		Whisper Homes, LLC	<ul style="list-style-type: none"> • Welder Fabricator
"Laser"	1 (0.3%)	Airgas Incorporated	<ul style="list-style-type: none"> • Specialist – Welding Process

Keyword	Number and Share of Welding Job Postings	Employers	Job Title assoc. with Keyword
"Track welder" or "track welding"	0 relevant postings	N/A	<ul style="list-style-type: none"> N/A
"Orbital welder" or "orbital welding"	0	N/A	<ul style="list-style-type: none"> N/A

EDUCATION AND TRAINING

The U.S. Census Bureau collects education data from workers employed in occupations. Exhibit 11 shows the state-level educational attainment of the current workforce in the selected occupations.

Exhibit 11. California worker educational attainment for selected occupations, 2019



The Bureau of Labor Statistics (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 the BLS publishes projections data. Exhibit 12 shows the selected occupations' entry-level job requirements.

Exhibit 12. Typical education, work experience, and on-the-job training requirements

Occupation	Typical Entry-level Education	Work Experience Required	On-the-job Training Required
Welders, Cutters, Solderers, and Brazers	High school diploma or equivalent	None	Moderate-term on-the-job training
Welding, Soldering, and Brazing Machine Setters, Operators, and Tenders	High school diploma or equivalent	None	Moderate-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 13 shows the TOP and CIP codes for educational programs related to the selected occupations.

Exhibit 13. TOP and CIP codes for training programs related to the selected occupations

TOP Programs and Codes	Aligned CIP Programs and Codes
Welding Technology (0956.50)	Welding Technology/Welder (48.0508)

Community College Supply

Exhibits 14 and 15 compare the average number of certificates and degrees from selected community college programs over the last three academic years.

Exhibit 14. 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
Welding Technology (0956.50)	American River	25	6	14	15
	Cosumnes River	3	0	1	1
	Sierra	44	13	6	21
	Yuba	7	4	27	13
Grand Total		79	23	48	50

Exhibit 15. Annual average community college awards by type, 2019-20 through 2021-22

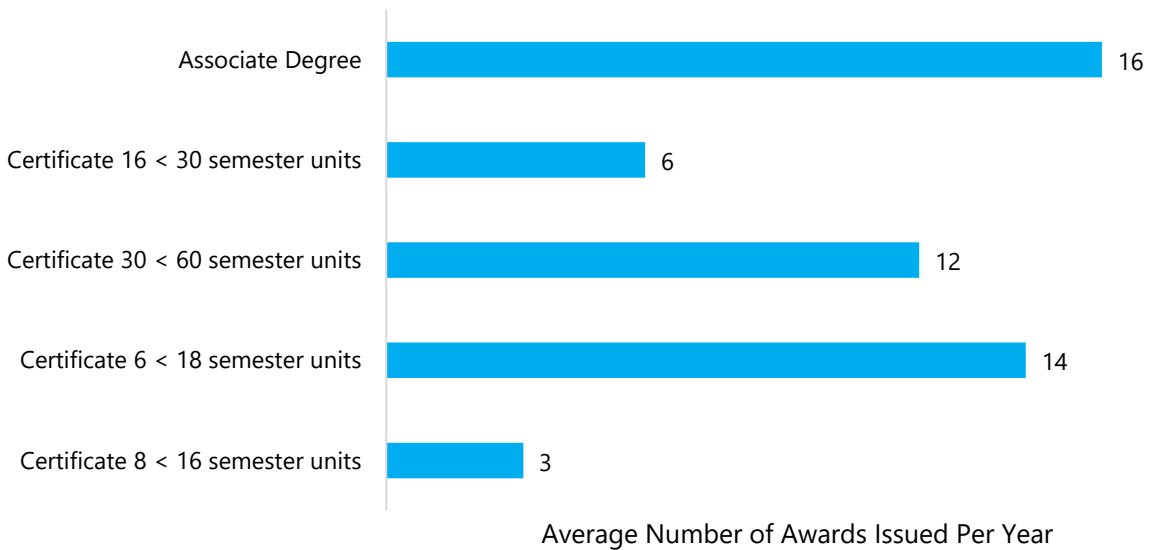


Exhibit 16 summarizes the active welding programs offered by North (Greater Sacramento) community colleges. These programs are active as of fall 2022 and were sourced from The Chancellor’s Office Curriculum Inventory System (COCI 2.0) on December 22, 2022.

Exhibit 16. Active Welding Programs in North (Greater Sacramento) community colleges

College	Program Title	Award
American River	Welding Technology	Certificate A.S. Degree
	Welding Technology: Shielded Metal Arc Plate & Pipe Welding	Certificate
	Welding Metallurgy and Inspection (270 hours)	Certificate
Cosumnes River	Welding Technology	Certificate A.S. Degree
	Welding Code	Certificate
	Welding Fabricator	Certificate
Sierra	Welding	Certificate
Woodland	Welding Technologies	Certificate
	Welding Technologies - Advanced	Certificate
Yuba	Welding Technologies	A.S. Degree
	Advanced Welding Technologies	Certificate
	Introductory Welding Technologies	Certificate

FINDINGS

- This report focuses on two occupations in the automated welding career pathway: Welders, Cutters, Solderers, and Brazers, and Welding, Soldering, and Brazing Machine Setters, Operators, and Tenders.
- The North (Greater Sacramento) subregion held 2,303 welding jobs in 2021. These jobs are projected to increase by 13% over the next five years, adding 294 new jobs to the subregion by 2026.
- Welding jobs are projected to grow faster in the North (Greater Sacramento) subregion than in California.
- Over the next five years, welding jobs are projected to have 356 annual openings in the North (Greater Sacramento) subregion.
- Analysis of wage data shows that welding occupations earn \$2 to \$5 above the single adult living wage of \$14.53 per hour.
- According to real-time labor market information, there were about 307 online job postings for welders between December 1, 2021, and November 30, 2022.
 - Of the 307 job postings for welders, 136 listed “MIG and TIG welding” as a desired skill. Another 60 included gas metal arc welding (GMAW), and 12 listed “robotics” as required skills.
- Few job postings included language suggesting that welders would work in a semi- or fully automatic welding environment.
 - Of the 307 job postings for welders, only 7 (or 2%) included a job title emphasizing fully automated welding. These job titles included “2nd shift robotic welder” from Watts Water Technologies and “Robot Operator” from Siemens.
 - 26 of the 307 job postings (or 8%) included keywords in the job posting which suggested either semi- or fully automatic welding jobs. Keywords include but are not limited to “robotic welding,” “automatic welding,” and “laser welding.”
 - Specialized automated welding job titles, such as “robot operator” and “automation welding specialist,” were primarily associated with employers that utilized robotic welding machines.
 - Companies that utilized semi-automatic welding processes typically included the following language in their job posting advertisement “welding components using manual or semi-automatic welding equipment.” These companies also tended to use welding job titles that were less distinguishable from their manual welding counterparts.

- These findings suggest that semi- and fully automated welding, as well as robotic welding, is an emerging field in the Greater Sacramento area.
- Approximately 31% of California's incumbent workers in welding occupations have educational attainment levels consistent with community college offerings (some college or associate degrees). Another 2% of workers hold a bachelor's degree.
- Five North (Greater Sacramento) community colleges offer degrees and certificates in welding programs. Together, these programs conferred an average of 50 awards per year over the last three academic years (2018-19 through 2020-21).

RECOMMENDATIONS

- Based on a comparison between average annual awards and projected yearly openings, there seems to be an undersupply of welders in the North (Greater Sacramento) subregion.
 - Community colleges issued an average of 50 awards over the last three years. There are 356 projected annual openings for welders over the next five years.
- Automated welding seems to be an emerging skill in the North (Greater Sacramento) area. About 8% of job postings for welders in Sacramento included some mention of automated welding; many job postings also required candidates to be proficient in manual welding techniques.
- The North (Greater Sacramento) Center of Excellence recommends community colleges partner directly with local employers to offer training related to automated welding. Colleges should work closely with partners to better understand training needs for the local labor market and to ensure employment prospects for future students.
- The North (Greater Sacramento) Center of Excellence recommends exercising caution in developing an automated welding training program. Demand is emerging but represents a small segment of job postings, and future growth ultimately depends on whether local employers adopt automated welding processes.

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

Semi-Automatic Welding Jobs

Welder Job Posting for DMG Mori Manufacturing in Davis, CA

Welder, DMG MORI Manufacturing - Davis, CA

Company: **MG MORI**

Location: **Davis**

Posted on: **November 30, 2022**

Job Description:

Welder, DMG MORI Manufacturing - Davis, CA

Title: Welder

Reports to: Sheet Metal Manufacturing Leader

Location: DMG MORI Manufacturing, Davis, CA

Hours: Monday through Friday, 7:00AM - 4:00PM

Classification: Non Exempt

Travel: 0%

Employment is conditioned on DMG MORI's ability to obtain and maintain any necessary export licensing

Welders are tasked to perform welding operations on sheet metal up to - inch thick. This position requires knowledge of MIG welding, TIG welding, fastener welding, deburring, proper jiggling and tacking to prevent warping, 3D spatial visualization, and general fabrication.

Essential Job Functions:

To perform this job successfully, an individual must be able to perform each essential function satisfactorily. The requirements listed below are representative of the knowledge, skills, and abilities required. Reasonable accommodations may be made to enable qualified individuals with disabilities to perform the essential functions. Responsibilities include up to and are not limited to:

- * Reading blueprints and drawings
- * Determining the appropriate welding equipment or method based on requirements
- * Setting up components for welding according to specifications
- * Operating grinders to prepare or finish welded parts
- * Using precision measuring tools and clamps to setup and inspect parts
- * **Welding components using manual or semi-automatic welding equipment in various positions (flat, vertical down, horizontal, or overhead)**
- * Positioning and welding fasteners to components
- * Testing and inspecting welded surfaces and structure for flaws
- * Other duties as assigned

Welder Job Posting for DMG Mori Manufacturing in Davis, CA

Minimum Requirements:

- * High School Diploma or equivalent
- * Professional Certification (e.g. AWS welding certificate) is a plus but not required
- * 0-5 years welding experience (MIG and TIG)
- * Ability to read and interpret blueprints and drawings
- * Fundamental computer operation skills
- * Preferred requirement - certified to operate a forklift or forklift experience

Work Environment:

Manufacturing environment (welding, cutting, forming, painting, assembly, machining, quality control facility) at DMG MORI Manufacturing. Exposure to possible hazards may include sharp edges, noise, electricity, chemicals, heavy equipment, and other automated and manual machinery.

Physical Demands:

- * Frequent: Standing, walking, bending, stooping, lifting, pushing, and pulling, repetitive foot, leg, hand, arm, shoulder, and torso movements, operating power equipment and hand tools
- * Periodic: Utilizing a computer

Welder Job Posting for Vail Resorts in South Lake Tahoe, CA

Posted on: **May 31, 2022**

Welder - Snowmaking

Location: South Lake Tahoe, CA, US

Company: Heavenly Mountain Resort

Shift Type: Year Round

If you want to work for a different kind of ski resort, you've found your perfect match at Heavenly. With a massive mountain full of off-the-grid terrain and incredible views of Lake Tahoe, Heavenly is for those who want to go big and forge their own path. From on-mountain concerts to world-famous après ski parties and a one-of-a-kind DJ CAT, Heavenly exudes high-energy from first chair to last call. Come be a part of the team committed to delivering a refreshingly unique ski experience. www.vailresortscareers.com

As of November 15, 2021, Vail Resorts will be requiring all employees across North America to be vaccinated for COVID-19.

The welder position at Heavenly Mountain Resort is an important part of the Snowmaking Department. Your primary role will be welding and fabrication, however you will also be working in various other roles within the department, including actual snowmaking. It is your responsibility to execute our safety best practices to the best of your ability, as well as maintain a friendly and positive attitude every day,

Welder Job Posting for Vali Resorts in South Lake Tahoe, CA

with all guests and employees. We are an internal based guest service department we want to make sure we leave our guests with a positive experience. A welder must be competent in using potentially dangerous equipment following all safety precautions. The ideal candidate will also have a steady hand and great attention to detail. Knowledge of different kinds of metal and their properties is essential.

Job Specifications:

- Starting Wage: \$17 per hour
- Effective October 2022 minimum wage will be increased to \$20/hour.
- Shift & Schedule Availability: Full Time

Responsibilities:

- Read blueprints and drawings and take or read measurements to plan layout and procedures. Track project requests and execution.
- Determine the appropriate welding equipment or method based on requirements
- Set up components for welding according to specifications (e.g. cut material with powered saws to match measurements)
- Operate angle grinders to prepare the parts that must be welded
- Align components using calipers, rulers etc. and clamp pieces
- Weld components using manual or semi-automatic welding equipment in various positions (vertical, horizontal or overhead)
- Repair machinery and other components by welding pieces and filling gaps
- Test and inspect welded surfaces and structure to discover flaws. Maintain great attention to detail.
- Maintain equipment in a condition that does not compromise safety
- Learn the operation and control of Heavenly's Snowmaking System. Assist in making snow when needed
- Other tasks and duties as assigned by management.

Requirements:

- Proven experience as welder
- Experience using a variety of welding equipment and procedures (TIG, MMA etc.)
- Experience in using electrical or manual tools (saws, squares, calipers etc.)
- Ability to read and interpret technical documents and drawings
- Knowledge of relative safety standards and willingness to use protective clothing (face-shield, gloves etc.)

Welder Job Posting for Vali Resorts in South Lake Tahoe, CA

- Deftness and attention to detail
- Proficient in English
- Pipe fitting experience preferred
- Snowmaking experience preferred

Job Benefits:

- Ski/Mountain Perks! Free passes for employees, employee discounted lift tickets for friends and family AND free ski lessons
- MORE employee discounts on lodging, food, gear, mountain shuttles AND during the summer on bike haul, golf and other activities
- 401(k) Retirement Plan
- Employee Assistance Program
- Excellent training and professional development
- Referral Program

Seasonal Full Time roles are eligible for the above, plus:

- Health Insurance; Medical Insurance, Dental Insurance, and Vision Insurance plans (after eligible employees work 500 hours)
- Free ski passes for dependents
- Critical Illness and Accident plans

Automatic/Robot Welding Jobs

2nd Shift Robotic Welder Job Posting for Watts Water Technologies in Woodland, CA

Posted on: **July 28, 2022**

ESSENTIAL FUNCTIONS

Reasonable Accommodations Statement

To perform this job successfully, an individual must be able to perform each essential duty satisfactorily. Reasonable Accommodations may be made to enable qualified individuals with disabilities to perform the essential functions.

Essential Functions Statement(s)

- Turn and press knobs and buttons or enter operating instructions into computers to adjust and start welding machines.

2nd Shift Robotic Welder Job Posting for Watts Water Technologies in Woodland, CA

- Produces a weldment from numerous components to completed product.
- Safely operates a variety of hoisting and rigging equipment
- Ability to do set up and MIG weld
- Set up, operate and tend welding machines that join or bond components to fabricate metal products or assemblies.
- Correct problems by adjusting controls or by stopping machines and opening holding devices.
- Inspect, measure, or test completed metal work pieces to ensure conformance to specifications, using measuring and testing devices.
- Record operational information on specified production reports.
- **Start, monitor, and adjust robotic welding production lines.**
- Read blueprints, work orders, or production schedules to determine product or job instructions or specifications.
- Assemble, align, and clamp work pieces into holding fixtures to bond, heat-treat, or solder fabricated metal components.
- Lie out, fit, or connect parts to be bonded, calculating production measurements as necessary.
- Conduct trial runs before welding, soldering, or brazing and make necessary adjustments to equipment.
- Dress electrodes, using tip dressers, files, emery cloths, or dressing wheels.
- Remove completed work pieces or parts from machinery, using hand tools.
- Observe meters, gauges, or machine operations to ensure that soldering or brazing processes meet specifications.
- Select, position, align, and bolt jigs, holding fixtures, guides, or stops onto machines, using measuring instruments and hand tools.
- Select torch tips, alloys, flux, coil, tubing, or wire, according to metal types or thicknesses, data charts, or records.
- Prepare metal surfaces or work pieces, using hand-operated equipment, such as grinders, cutters, or drills.
- Clean, lubricate, maintain, and adjust equipment to maintain efficient operation, using air hoses, cleaning fluids, and hand tools.
- Set dials and timing controls to regulate electrical current, gas flow pressure, heating or cooling cycles, or shut-off.
- Tend to auxiliary equipment used in welding processes.
- Transfer components, metal products, or assemblies, using moving equipment.

2nd Shift Robotic Welder Job Posting for Watts Water Technologies in Woodland, CA

POSITION QUALIFICATIONS

Competency Statement(s)

- Accountability - Ability to accept responsibility and account for his/her actions.
- Accuracy - Ability to perform work accurately and thoroughly.
- Autonomy - Ability to work independently with minimal supervision.
- Detail Oriented - Ability to pay attention to the minute details of a project or task.
- Organized - Possessing the trait of being organized or following a systematic method of performing a task.
- Safety Awareness - Ability to identify and correct conditions that affect employee safety.
- Reliability - The trait of being dependable and trustworthy.
- Responsible - Ability to be held accountable or answerable for one's conduct.
- Technical Aptitude - Ability to comprehend complex technical topics and specialized information.

SKILLS & ABILITIES

Education: High School Graduate or General Education Degree (GED)

Experience: 6 months to 1 year of related experience

Computer Skills: Ability to make minor adjustments to programs and use computerized controllers to operator robot.

Other Requirements: Ability legally accept employment in the United States. Ability to meet daily attendance requirements and to knowledge of how to use measuring tools and read gauges.

Watts is committed to equal employment opportunity. We follow a policy of administering all employment decisions and personnel actions without regard to race, color, religion, creed, sex, pregnancy, national origin, sexual orientation, age, physical or mental disability, genetic disposition or carrier status, marital status, military or veteran status, minorities, or any other category protected under applicable federal, state, or local law. Consistent with the obligations of state and federal law, Watts will make reasonable accommodations for qualified individuals with disabilities. Any employee who needs a reasonable accommodation should contact Human Resources.

Automation Welding Specialist Job Posting for Siemens in Sacramento, CA

Posted on: **October 4, 2022**

Full Job Description

Automation Welding Specialist Job Posting for Siemens in Sacramento, CA

We are adding a **Weld Automation Specialist to support our Coach Weld Robotic welding team**. In this key role, you will support research and development, machining and manual weld functions for coach weld. You will also contribute to the team by providing automation expertise and support in other departments at Siemens Mobility when needed. **Additional tasks will include setting up new parts into our spot welding and mig welding robots as well as creating programs**. You will also be performing troubleshooting and helping with repairs to parts and equipment. As our W.A.S you will offer help support other various tasks in the shop that will include, but not limited to welding, grinding, drilling, cutting, machining, use of small and large hand tools.

What you will be doing?

- Defining key production work steps, sequences, and durations and setting up work scope per station or per cell basis.
- Support welding, grinding, drilling, cutting, and machining
- Coordinating work schedules in coordination with operational goals
- Implementing manufacturing improvements, complex process changes, and technology changes
- Providing critical process control guidance to production, maintenance, and quality control to improve the dimensional accuracy and overall quality of our products.
- Ensuring all safety measure are followed

What you will need to be successful

- 2 Years' experience in a Manufacturing Environment
- Experience leading a diverse team in a production environment
- A history of "hands-on" approach to problem solving and countermeasure implementation within own areas of responsibility.

We would be impressed if you had:

- 5 + years of experience planning and supporting launch of new production lines in a low-speed production environment (e.g. rail, aviation/aerospace, naval, heavy equipment, etc.).
- Bachelor's Degree in Industrial, Manufacturing, or Mechanical Engineering (Or Equivalent Experience)
- Work experience in the rail business, preferably in light rail, heavy rail, or related production, is needed.
- Knowledge of SAP or similar MRP / ERP systems is highly desired.
- Practical experience in Customer Service / Maintenance / After Market businesses and technologies within the rail industry Highly preferred.

What makes Siemens Mobility so special?

Automation Welding Specialist Job Posting for Siemens in Sacramento, CA

We are # 9 On Forbes Great Places to Work and Diversity List

Health and Wellness: Health Insurance, Dental Insurance, Vision Insurance, HSA, Commuter Benefits

Vacation & Time Off: Paid Vacation, Paid Holidays, Personal / Sick Days, Maternity/Paternity Leave,

Financial & Retirement: Savings Plan, Performance Bonus for Key Roles, Merit Increases, Relocation

Professional Development: Tuition Reimbursement, Promote from Within, Mentor Program, Access to Online Courses, Lunch & Learns

Our Values

We stay at the forefront of the rail industry. We continuously improve, learning directly from those who are doing the work.

We are optimistic about change and the possibilities it brings: We welcome programmatic improvements and strategy shifts which will result in positive results for the world.

We value our people, and we support their growth and development: Our people are at the center of our work, and we support their development by finding their level of potential development through problem-solving and in collaboration with peers.

We mean what we say, and we commit to our promises: We follow through on our commitments with honesty and integrity

We do more with less: We are a lean organization serving customers who are serving communities of people.

We are principles-based, not rules-based: We make decisions based on what we believe is best for our people and the communities we serve as opposed to adhering to a prescriptive set of immovable practices.

We value diversity and strive to be inclusive in our work, both for our customer and our team members: We believe in the importance of investing in employees in alignment with our values and honoring every individual story and unique path.

Organization: Siemens Mobility

Company: Siemens Mobility, Inc

Experience Level: Experienced Professional

Full / Part time: Full-time

COVID-19 Statement: This report includes employment projection data by EMSI. EMSI's projections are modeled on recorded (historical) employment figures and incorporate several underlying assumptions, including the assumption that the economy during the projection period will be at approximately full employment or potential output. To the extent that a recession or labor shock, such as the economic effects of COVID-19, can cause long-term structural change, they may impact the projections. At this time, it is not possible to quantify the impact of COVID-19 on projections of industry and occupational employment. Other measures such as unemployment rates and monthly industry employment estimates will reflect the most recent information on employment and jobs in the state and, in combination with input from local employers, may help validate current and future employment needs as depicted here.

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.

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Centers of Excellence for Labor Market Research, Economic and
Workforce Development Program



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FOR LABOR MARKET RESEARCH

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