Welding, Soldering, and Brazing Workers
in 5 California Counties

Contents

What is Emsi Data?

Emsi data is a hybrid dataset derived from official government sources such as the US Census Bureau, Bureau of Economic Analysis, and Bureau of Labor Statistics. Leveraging the unique strengths of each source, our data modeling team creates an authoritative dataset that captures more than 99% of all workers in the United States. This core offering is then enriched with data from online social profiles, resumés, and job postings to give you a complete view of the workforce.

Emsi data is frequently cited in major publications such as *The Atlantic*, *Forbes*, *Harvard Business Review*, *The New York Times*, *The Wall Street Journal*, and *USA Today*.

Report Parameters

1 Occupation

51-4120	Welding, Soldering, and Brazing Workers

5 Counties

|				
6001	Alameda County, CA		6077	San Joaquin County, CA
6013	Contra Costa County, CA		6085	Santa Clara County, CA
6075	San Francisco County, CA			

Class of Worker

QCEW Employees, Non-QCEW Employees, and Self-Employed

The information in this report pertains to the chosen occupation and geographical areas.
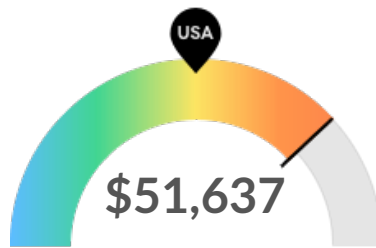
Executive Summary

## Light Job Posting Demand Over a Thin Supply of Regional Jobs
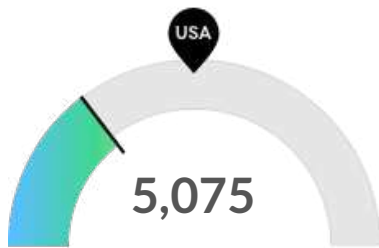
5,075

Jobs (2020)

Your area is not a hotspot for this kind of job. The national average for an area this size is 10,153* employees, while there are 5,075 here.

$51,637

Compensation

Earnings are high in your area. The national median salary for Welding, Soldering, and Brazing Workers is $43,612, compared to $51,637 here.

132
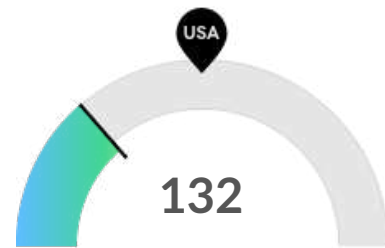
Job Posting Demand

Job posting activity is low in your area. The national average for an area this size is 287* job postings/mo, while there are 132 here.

*National average values are derived by taking the national value for Welding, Soldering, and Brazing Workers and scaling it down to account for the difference in overall workforce size between the nation and your area. In other words, the values represent the national average adjusted for region size.

Jobs

Regional Employment Is Lower Than the National Average

An average area of this size typically has 10,153* jobs, while there are 5,075 here. This lower than average supply of jobs may make it more difficult for workers in this field to find employment in your area.
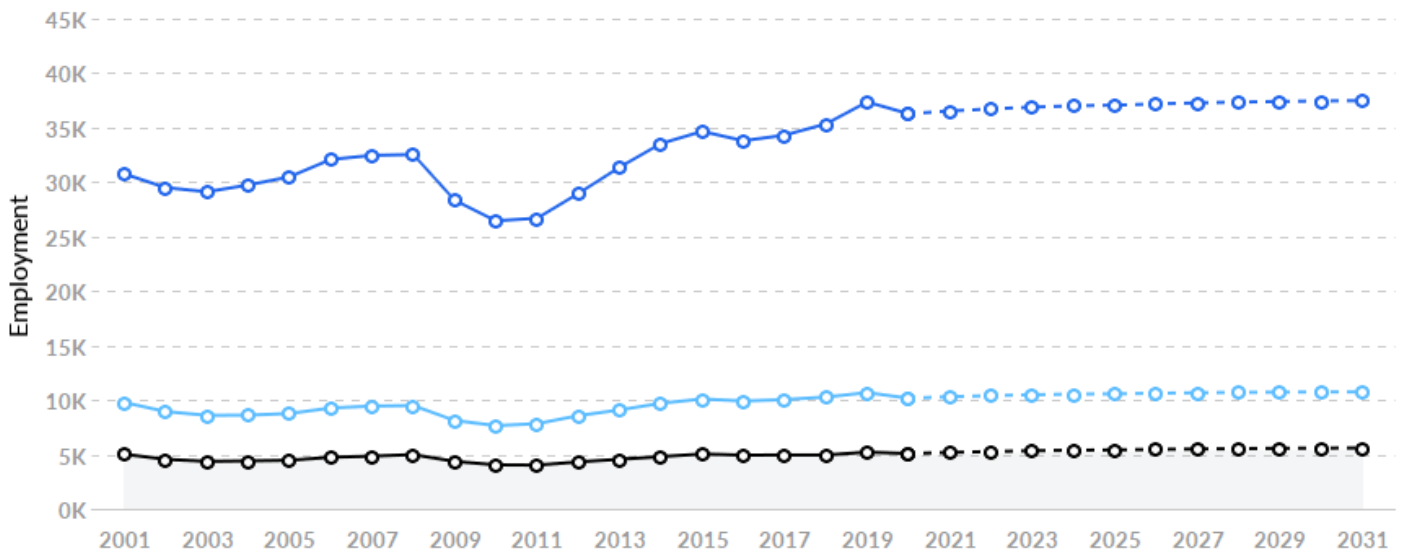
|	Region	2020 Jobs	2025 Jobs	Change	% Change
●	5 California Counties	5,075	5,411	336	6.6%
●	National Average	10,153	10,556	403	4.0%
●	California	36,274	37,057	783	2.2%

*National average values are derived by taking the national value for Welding, Soldering, and Brazing Workers and scaling it down to account for the difference in overall workforce size between the nation and your area. In other words, the values represent the national average adjusted for region size.

Regional Breakdown

County	2020 Jobs
Alameda County, CA	1,820
Santa Clara County, CA	1,528
San Joaquin County, CA	975
Contra Costa County, CA	425
San Francisco County, CA	327

## Most Jobs are Found in the Architectural and Structural Metals Manufacturing Industry Sector
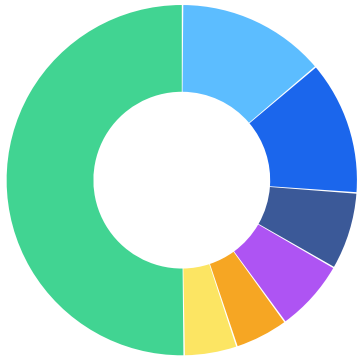
Industry	% of Occupation in Industry (2020)
● Architectural and Structural Metals Manufacturing	13.7%
● Industrial Machinery Manufacturing	12.4%
● Motor Vehicle Manufacturing	7.1%
● Commercial and Industrial Machinery and Equipment (except Automotive and Electronic) Repair and Maintenance	6.7%
● Machine Shops; Turned Product; and Screw, Nut, and Bolt Manufacturing	4.9%
● Semiconductor and Other Electronic Component Manufacturing	4.9%
● Other	50.3%

Compensation

Regional Compensation Is 18% Higher Than National Compensation

For Welding, Soldering, and Brazing Workers, the 2020 median wage in your area is $51,637, while the national median wage is $43,612.
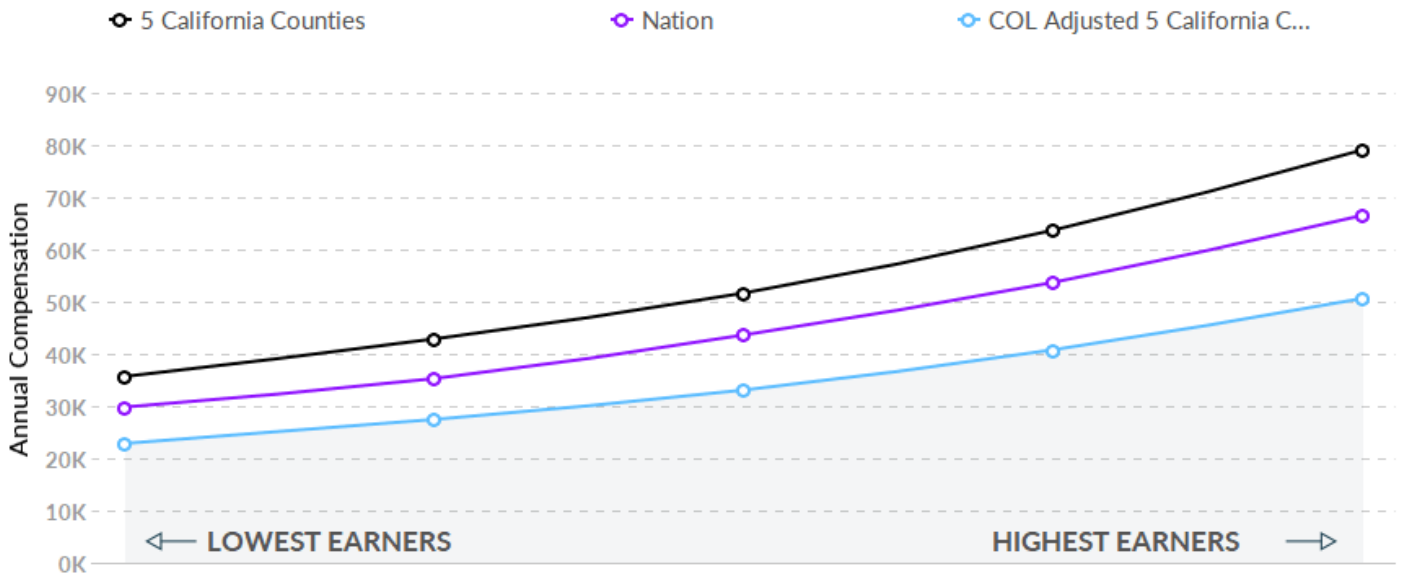
Job Posting Activity

1,095 Unique Job Postings

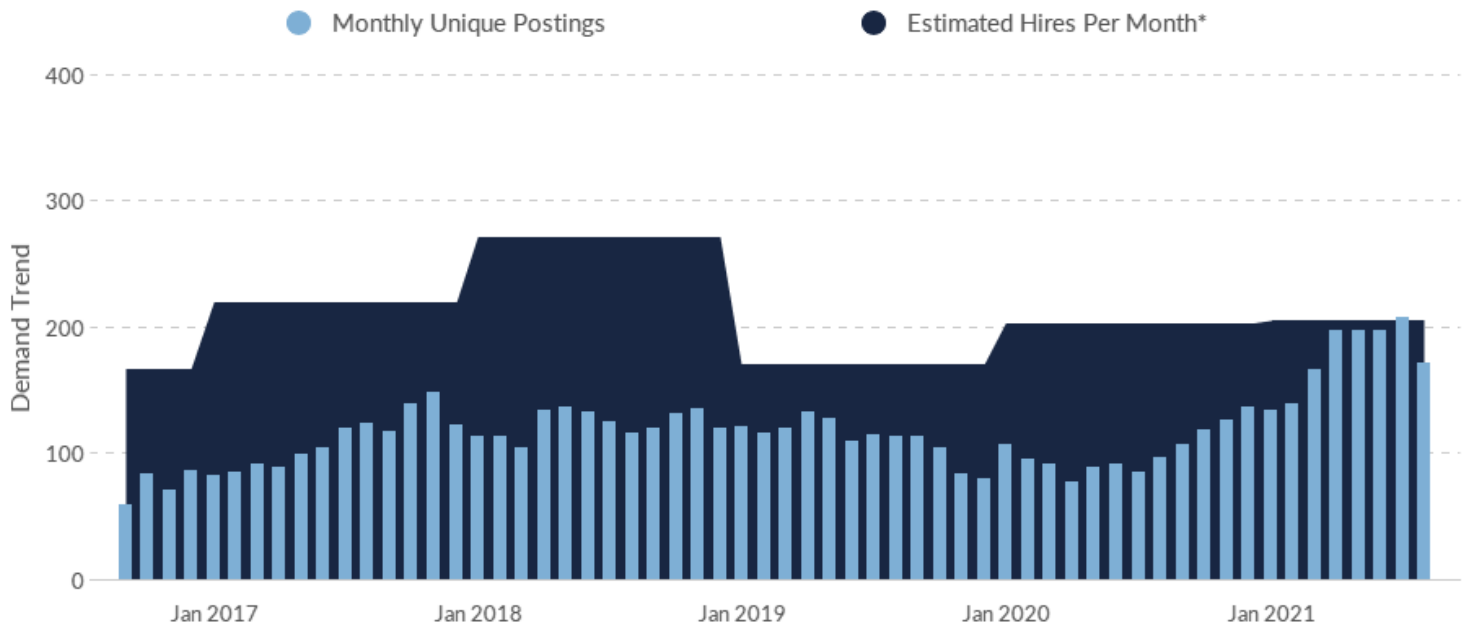The number of unique postings for this job from Jan 2020 to Aug 2021.

267 Employers Competing

All employers in the region who posted for this job from Jan 2020 to Aug 2021.

30 Day Median Duration

Posting duration is 4 days shorter than what's typical in the region.

Occupation	Avg Monthly Postings (Jan 2020 - Aug 2021)	Avg Monthly Hires (Jan 2020 - Aug 2021)
Welding, Soldering, and Brazing Workers	132	203

*A hire is reported by the Quarterly Workforce Indicators when an individual's Social Security Number appears on a company's payroll and was not there the quarter before. Emsi hires are calculated using a combination of Emsi jobs data, information on separation rates from the Bureau of Labor Statistics (BLS), and industry-based hires data from the Census Bureau.

| Top Companies	Unique Postings		Top Job Titles	Unique Postings	
Randstad N.V.	48		Welders	318	
Aerotek, Inc.	34		TIG Welders	61	
Tradesmen International, LLC	27		MIG/TIG Welders	47	
Job Line	24		Mig Welders/Fabricators	40	
Center Manufacturing, Inc.	23		Welders/Fabricators	40	
Nesco Resource	18		MIG Welders	35	
Northrop Grumman Corporation	16		Shift Leaders	33	
Volt Information Sciences Inc	16		Fitters/Welders	19	
Mdc Vacuum Products, LLC	14		Metal Fabricators/Welders	19	
Select Staffing	14		Production Welders	16	

Top Hard Skills

● Frequency in Job Postings　　● Frequency in Profiles
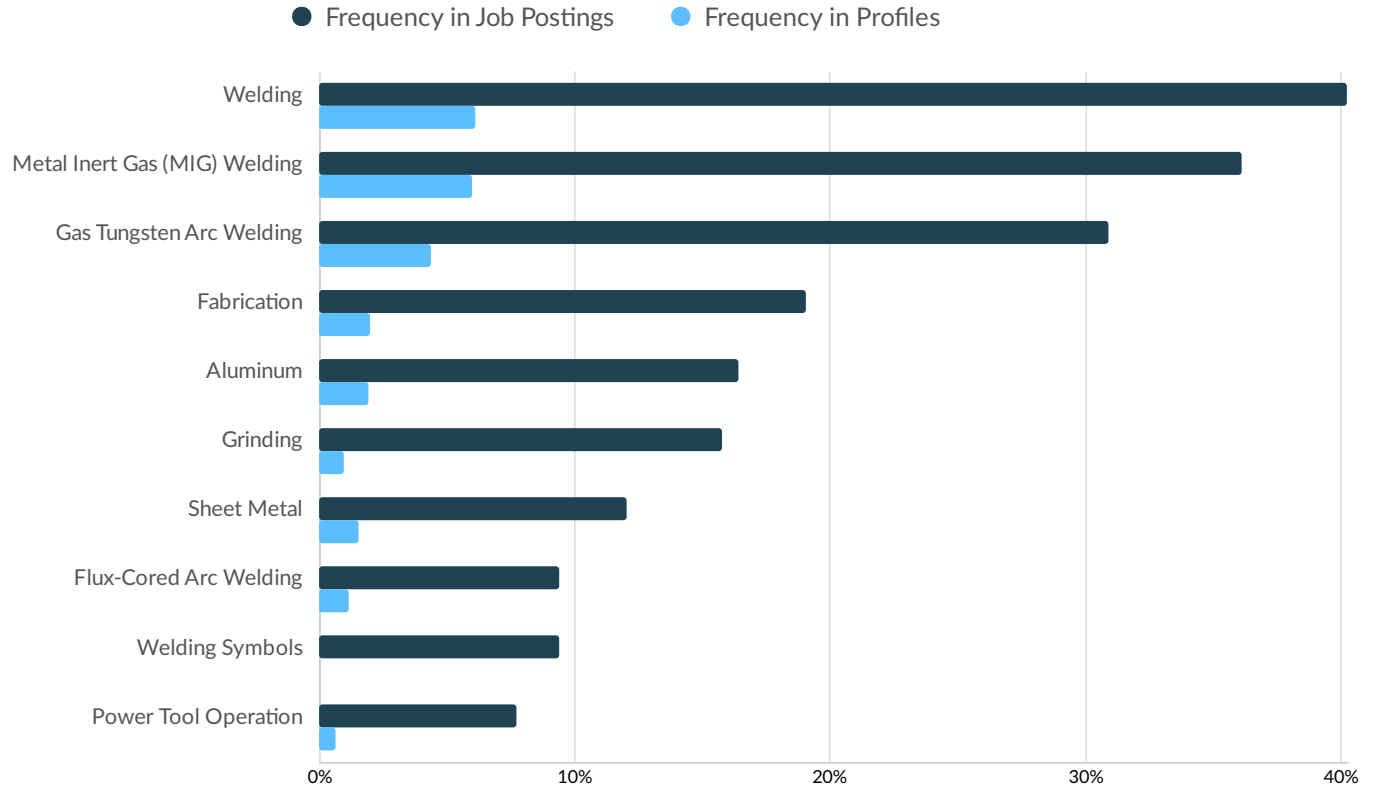
Skills	Postings	% of Total Postings	Profiles	% of Total Profiles
Welding	441	40%	80	6%
Metal Inert Gas (MIG) Welding	396	36%	78	6%
Gas Tungsten Arc Welding	339	31%	57	4%
Fabrication	209	19%	26	2%
Aluminum	180	16%	25	2%
Grinding	173	16%	13	1%
Sheet Metal	132	12%	20	2%
Flux-Cored Arc Welding	103	9%	15	1%
Welding Symbols	103	9%	0	0%
Power Tool Operation	85	8%	8	1%

Top Common Skills

● Frequency in Job Postings   ● Frequency in Profiles
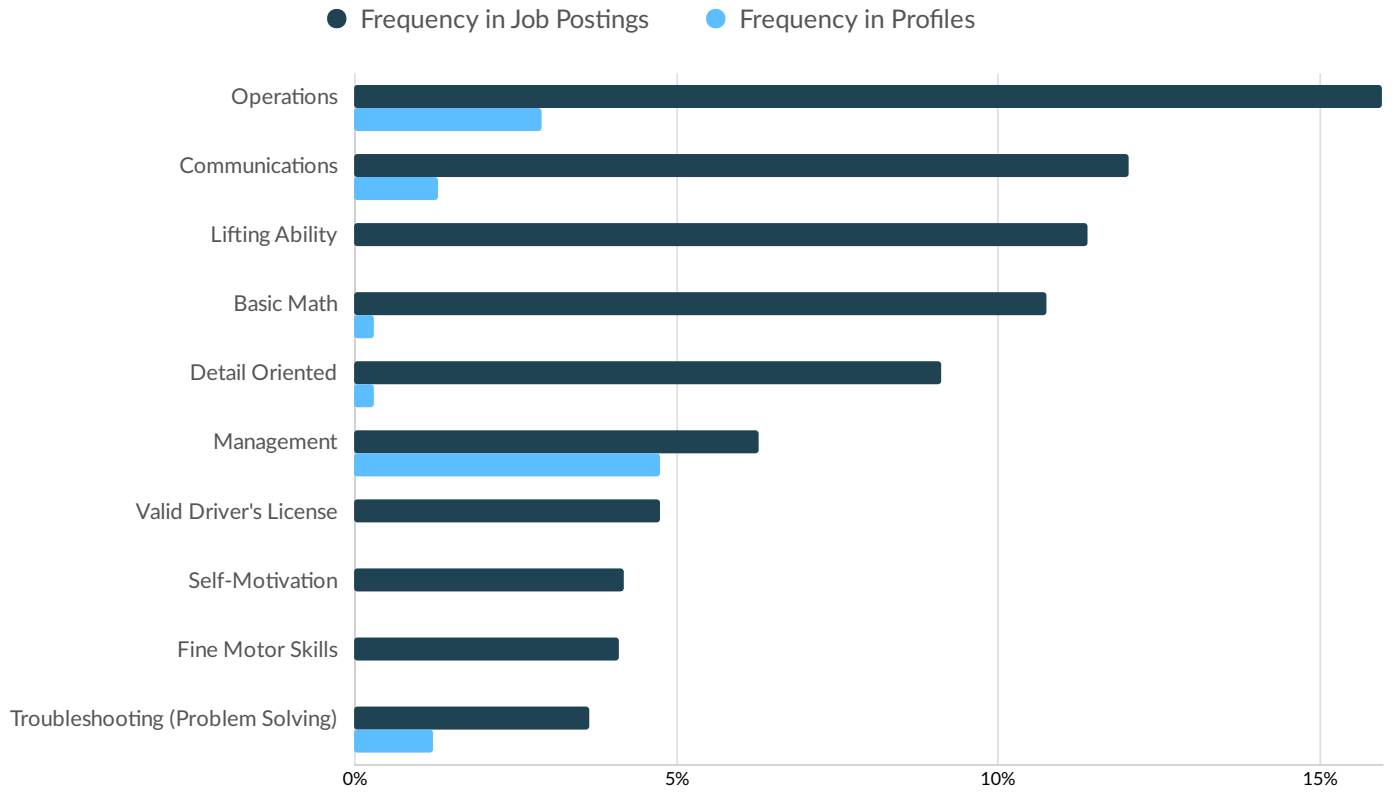
| Skills	Postings	% of Total Postings	Profiles	% of Total Profiles
Operations	175	16%	38	3%
Communications	132	12%	17	1%
Lifting Ability	125	11%	0	0%
Basic Math	118	11%	4	0%
Detail Oriented	100	9%	4	0%
Management	69	6%	62	5%
Valid Driver's License	52	5%	0	0%
Self-Motivation	46	4%	0	0%
Fine Motor Skills	45	4%	0	0%
Troubleshooting (Problem Solving)	40	4%	16	1%

Demographics

Retirement Risk Is About Average, While Overall Diversity Is High
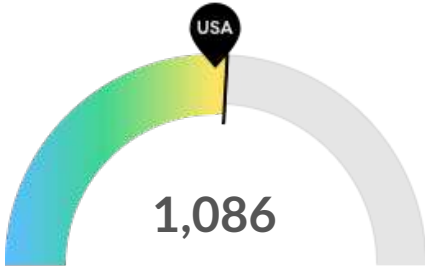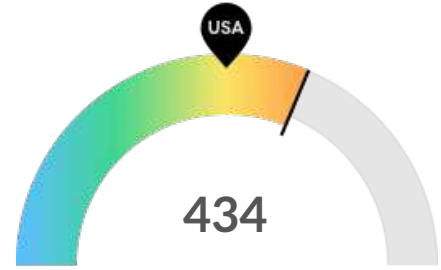
1,086

Retiring Soon

Retirement risk is about average in your area. The national average for an area this size is 1,032* employees 55 or older, while there are 1,086 here.
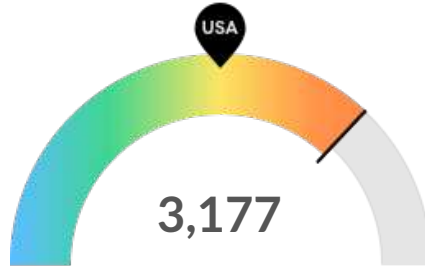
3,177

Racial Diversity

Racial diversity is high in your area. The national average for an area this size is 1,630* racially diverse employees, while there are 3,177 here.
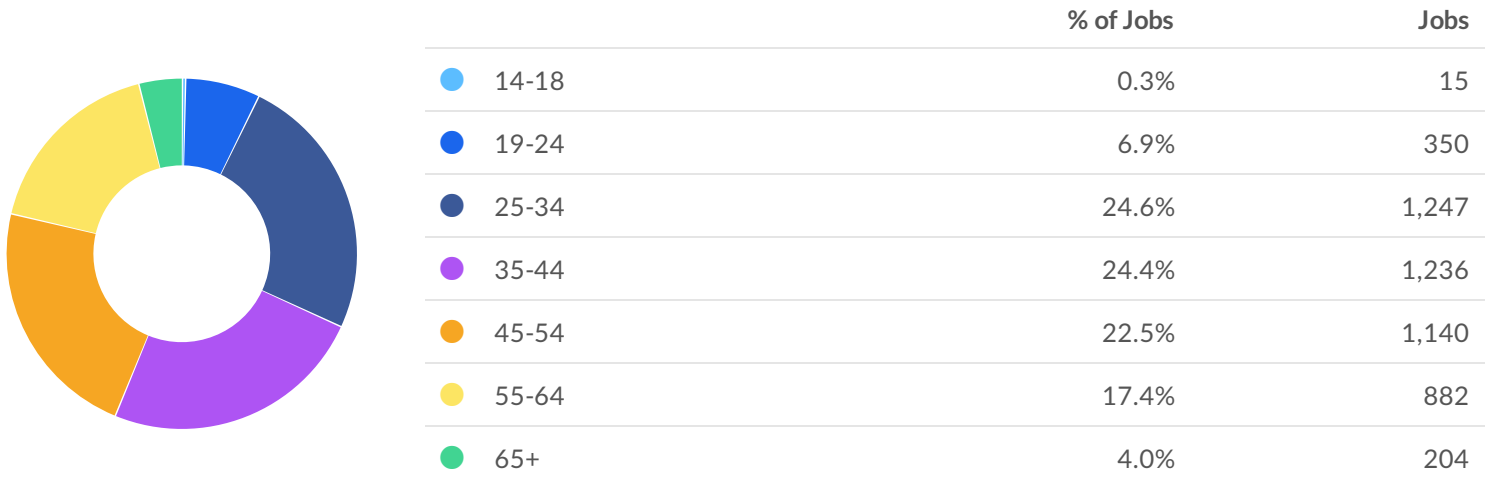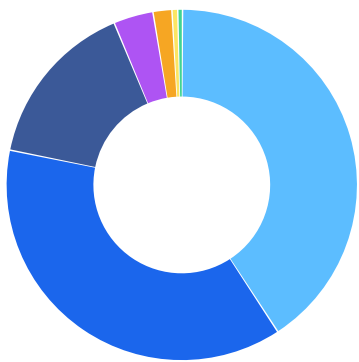
434

Gender Diversity

Gender diversity is high in your area. The national average for an area this size is 305* female employees, while there are 434 here.

*National average values are derived by taking the national value for Welding, Soldering, and Brazing Workers and scaling it down to account for the difference in overall workforce size between the nation and your area. In other words, the values represent the national average adjusted for region size.

## Occupation Age Breakdown

	% of Jobs	Jobs
● 14-18	0.3%	15
● 19-24	6.9%	350
● 25-34	24.6%	1,247
● 35-44	24.4%	1,236
● 45-54	22.5%	1,140
● 55-64	17.4%	882
● 65+	4.0%	204

Occupation Race/Ethnicity Breakdown

		% of Jobs	Jobs
🔵	Hispanic or Latino	40.7%	2,066
🔵	White	37.4%	1,898
🔵	Asian	15.5%	788
🟣	Black or African American	3.7%	186
🟠	Two or More Races	1.7%	88
🟡	American Indian or Alaska Native	0.5%	27
🟢	Native Hawaiian or Other Pacific Islander	0.4%	22

Occupation Gender Breakdown
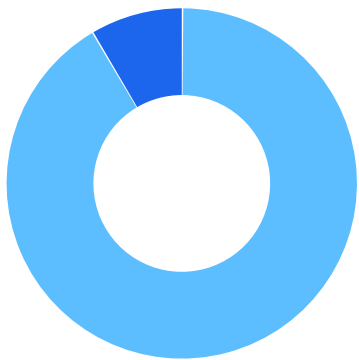
		% of Jobs	Jobs
🔵	Males	91.4%	4,641
🔵	Females	8.6%	434

Occupational Programs

1 Program

Of the programs that can train for this job, 1 has produced completions in the last 5 years.

62 Completions (2020)

The completions from all regional institutions for all degree types.

584 Openings (2020)

The average number of openings for an occupation in the region is 534.

CIP Code	Top Programs	Completions (2020)
48.0508	Welding Technology/Welder	62

Top Schools	Completions (2020)
San Joaquin Delta College	20
Los Medanos College	18
Laney College	14
Chabot College	6
City College of San Francisco	2
Las Positas College	2

Appendix A

Welding, Soldering, and Brazing Workers in 5 California Counties

Appendix B - Data Sources and Calculations

Location Quotient

Location quotient (LQ) is a way of quantifying how concentrated a particular industry, cluster, occupation, or demographic group is in a region as compared to the nation. It can reveal what makes a particular region unique in comparison to the national average.

Occupation Data

Emsi occupation 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). Occupational wage estimates are also affected by county-level Emsi earnings by industry.

Staffing Patterns Data

The staffing pattern data in this report are compiled from several sources using a specialized process. For QCEW and Non-QCEW Employees classes of worker, sources include Occupational Employment Statistics, the National Industry-Occupation Employment Matrix, and the American Community Survey. For the Self-Employed and Extended Proprietors classes of worker, the primary source is the American Community Survey, with a small amount of information from Occupational Employment Statistics.

Cost of Living Data

Emsi's cost of living data is based on the Cost of Living Index published by the Council for Community and Economic Research (C2ER).

Emsi Job Postings

Job postings are collected from various sources and processed/enriched to provide information such as standardized company name, occupation, skills, and geography.

Institution Data

The institution data in this report is taken directly from the national IPEDS database published by the U.S. Department of Education's National Center for Education Statistics.