

Occupation Deep Dive (Snapshot view)

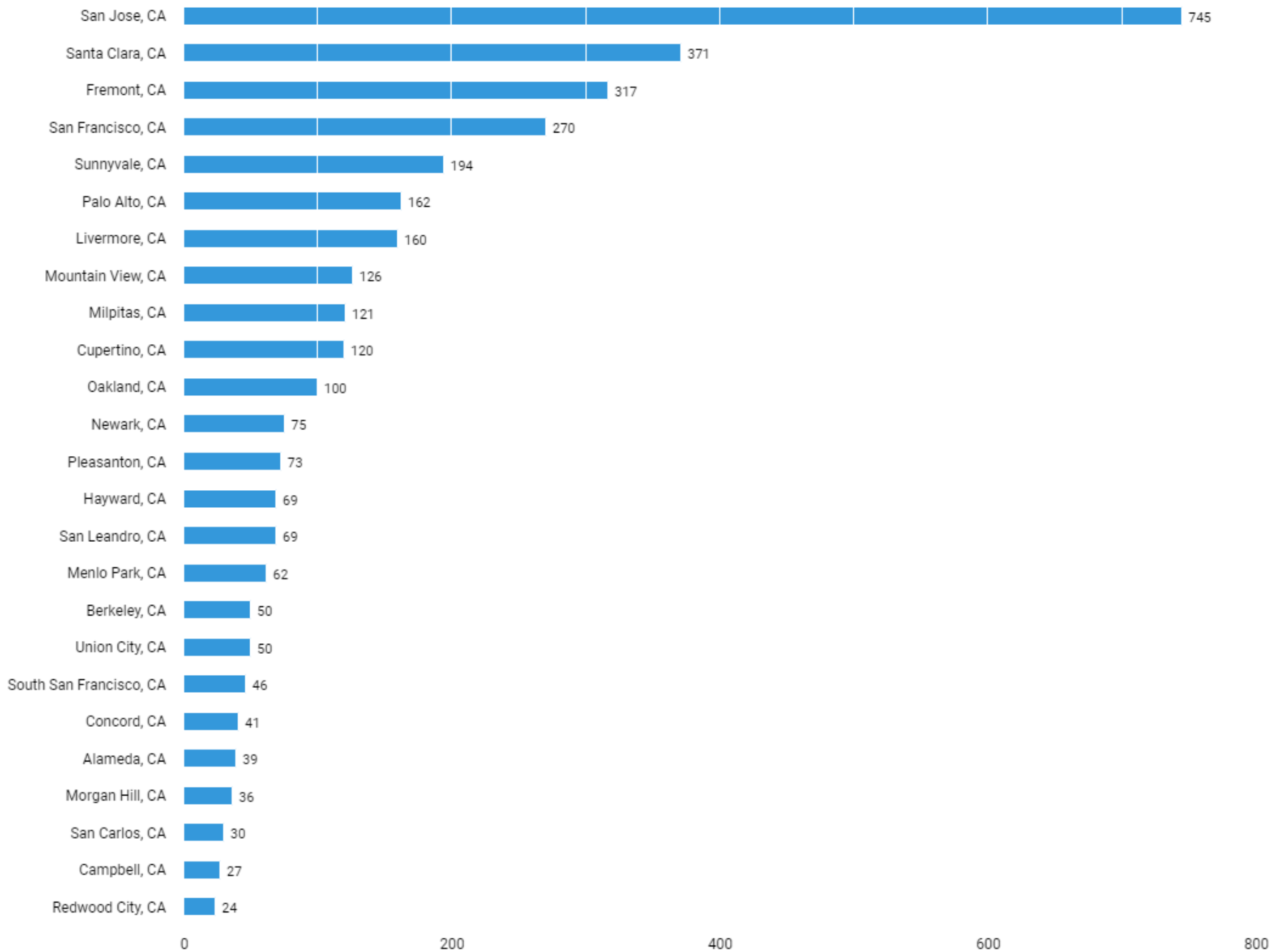
There are (3,685 job postings) between (Jan. 01, 2021 - Dec. 31, 2021) in your area for the selected criteria.

Active Selections

Last 12 months AND (County : San Mateo, CA OR County : San Francisco, CA OR County : Santa Clara, CA OR County : Alameda, CA OR County : Contra Costa, CA) AND (BGT OCC : Electrical and Electronics Technician OR BGT OCC : Electrical / Electronic Designer) AND ((Education : Both sub-baccalaureate and bachelor's-level credentials (inferred)) OR (Education : High school or vocational training (specified) OR Education : Associate's degree (specified) OR Education : Not listed (specified)))

What does demand for this occupation look like?

The jobs are in the following locations



Unspecified postings: 0

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The following occupations and job titles are in demand

BGT OCC		Job Postings	
Electrical and Electronics Technician		2,707	
Job Titles	Job Posting	Job Titles	Job Posting
Test Technician	250	Calibration Technician	39
Electromechanical Technician	111	Electro Mechanical Assembler	37
Electrical Technician	106	Engineering Technician	33
Electronics Technician	90	Cleanroom Technician	31
Low Voltage Technician	45	Automation Technician	30
Electrical / Electronic Designer		978	
Job Titles	Job Posting	Job Titles	Job Posting
Analog Design Engineer	46	Pcb Layout Designer	15
Electrical Designer	30	Plc Programmer	14
Senior Analog Design Engineer	24	High Speed Analog Design	13
Cad Engineer	17	Restraint Systems Cad Designer	12
Pcb Designer	16	Manager Osp Plng & Engrg Design	9

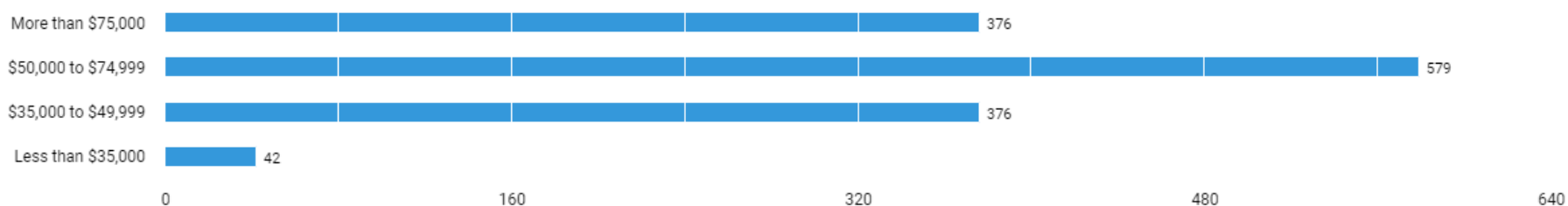
Unspecified postings: 1

What are salary indicators for this occupation?

The salaries of these jobs are distributed across the following categories

Mean real-time salary = \$67K

Median real-time salary = \$60K



Unspecified postings: 2,312

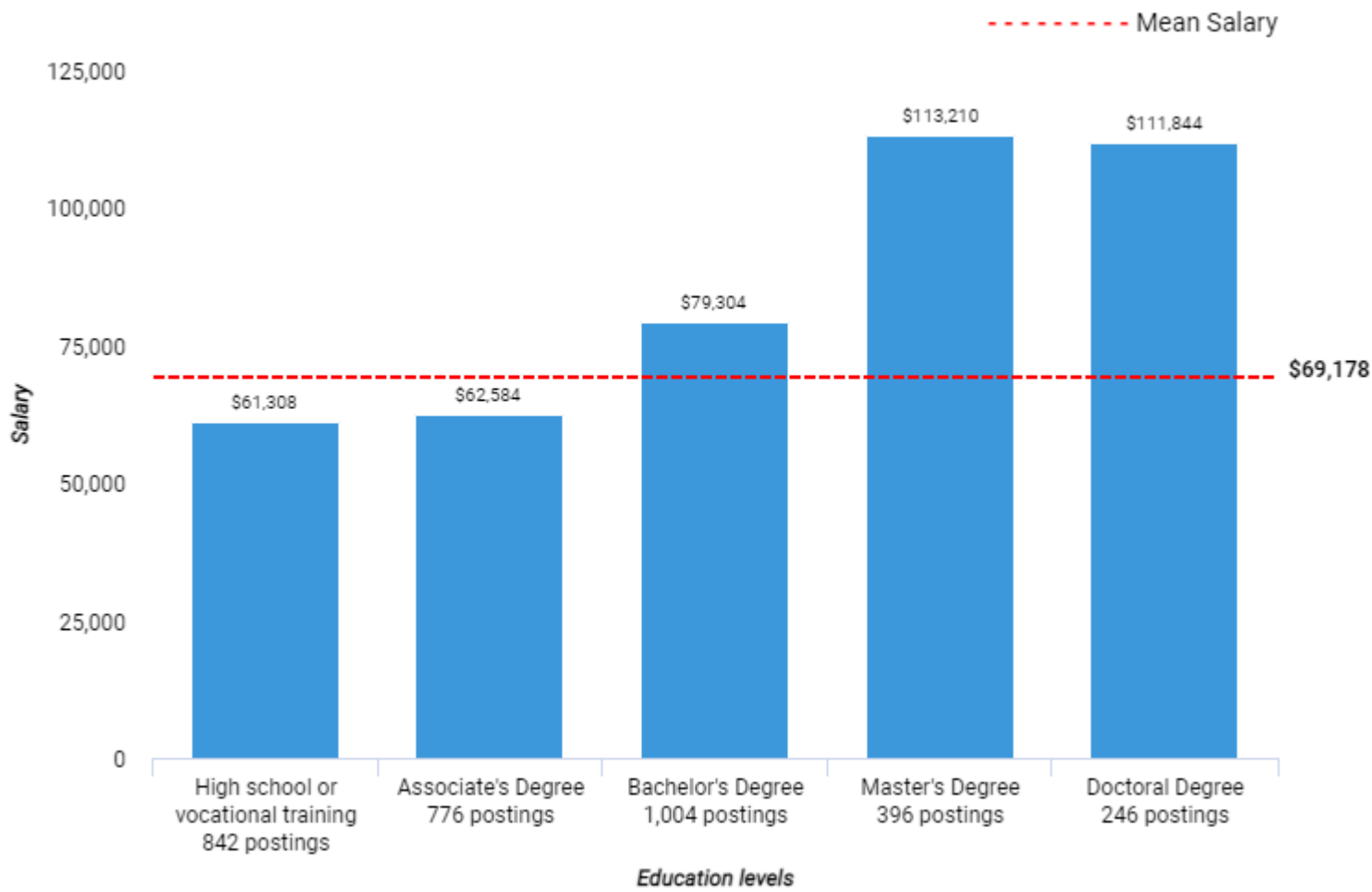
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The salaries of these jobs are distributed across the following education attainment levels



Unspecified postings: 2,987

Occupation Deep Dive (Snapshot view)

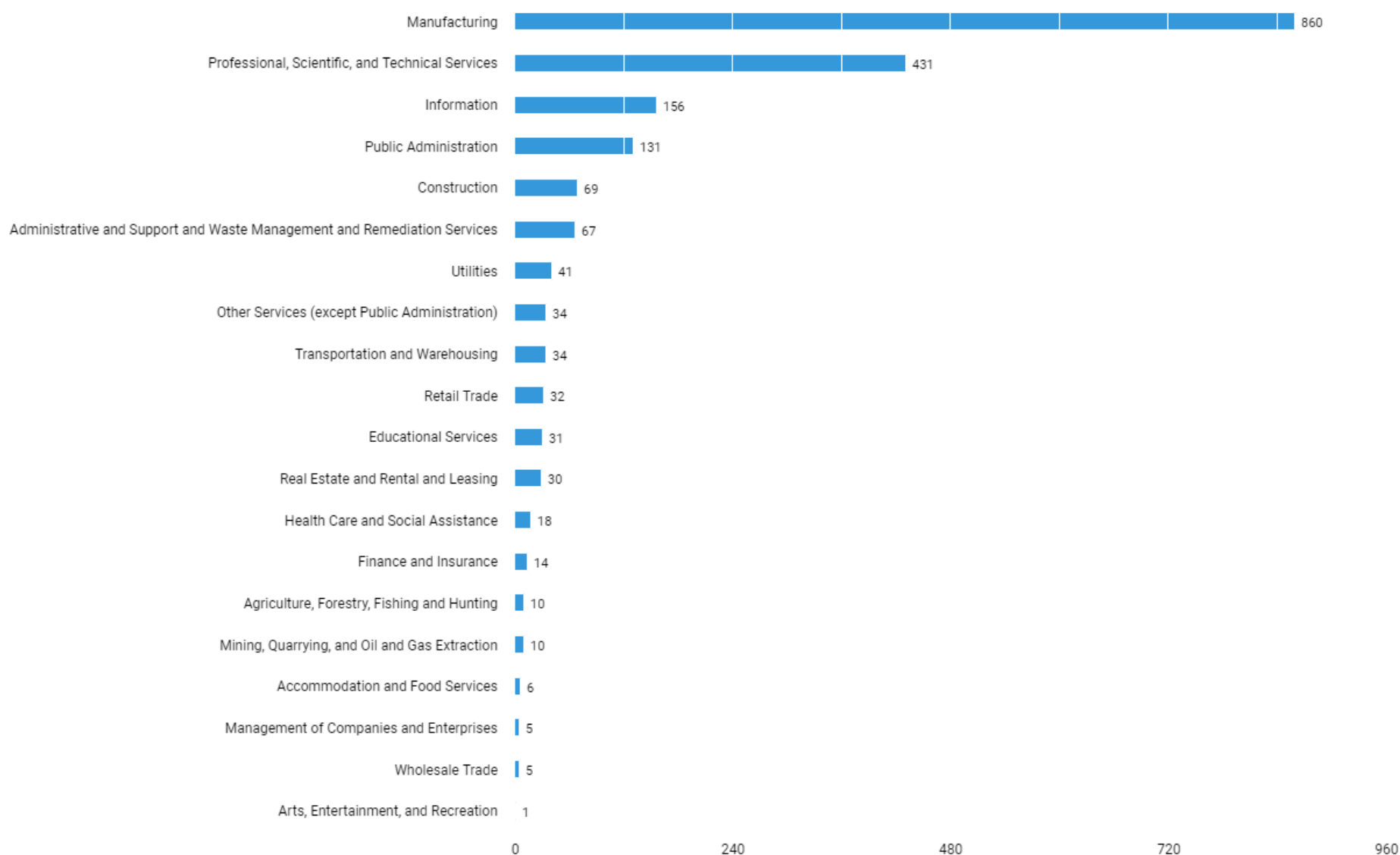
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Who is hiring and in what industries?

The jobs are categorized into the following industries



Unspecified postings: 1,700

Occupation Deep Dive (Snapshot view)

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The following employers are hiring for these job titles

Employer		Job Postings	
Tesla		56	
Job Titles	Job Posting	Job Titles	Job Posting
Instrumentation Technician	3	Localization Test Technician	2
Pcb Layout Designer	3	Low Voltage Test Engineer Technician	2
Electrical Technician	2	Renewable Commodities Technician	2
Electrical Technician, Facilities	2	Calibration Control Technician	1
Engineering Technician, Power Electronics	2	Calibration Technician	1
Nsys Design Systems		49	
Job Titles	Job Posting	Job Titles	Job Posting
Analog Design Engineer, Staff	4	Analog Design Engineer, Senior II	3
Senior Analog Design Engineer	4	Analog Design Engineer, Senior Staff	3
Analog Design Engineer	3	Analog Design Manager	3
Analog Design Engineer, II	3	Analog Design Engineer, I	2
Analog Design Engineer, Senior I	3	Cad Engineer	2
Intel Corporation		48	
Job Titles	Job Posting	Job Titles	Job Posting
Analog Design Engineer	3	Senior Rf Analog Design Engineer	2
Senior Rtl Designer	3	Cad Automation Engineer	1
Facilities Electrical Technician	2	Cad Engineer	1
Memory Circuit Designer	2	Cad Engineer Synthesis, Place And Route	1
Senior Fabric Logic Designer	2	Dft Cad Development Engineer	1

Lucid Motors Inc		48	
Job Titles	Job Posting	Job Titles	Job Posting
Restraint Systems Cad Designer	12	Maintenance Technician - Electrical, Paint	1
Technician, Powertrain Advanced Manufacturing - Power Electronics	11	Maintenance Technician, Electrical Paint	1
Low Voltage Harness Technician	10	Powertrain, Power Electronics Repair Technician	1
Technician, Electrical	6	Repair Technician, Power Electronics	1
Restraint Systems Cad Designer In	2	Senior Manager, Adas/Ad Domain Controller Hw Design Group	1
Apple Inc.		47	
Job Titles	Job Posting	Job Titles	Job Posting
Systems Validation And Calibration Epm - Technology Development Group	3	Electronics Laboratory Technician	2
Analog Layout Designer	2	Ic Designer - Power Management	2
Csm Analog Power Design Lead	2	Senior Cad Engineer Circuit Simulation Flow & Methodology	2
Csm Sensors Analog Design Lead	2	Senior Rfic Design Lead	2
Design Prototyper	2	Analog Design Engineer	1
Lawrence Livermore National Laboratory		42	
Job Titles	Job Posting	Job Titles	Job Posting
Electronics Technologist - Mid/Senior	4	Engineering Technical Associate/Weapon Production Quality	2
Electronics Engineering Technical Associate/Senior Engineering Associate	2	Nif Electronics Engineering Technical Associate/Senior Engineering Associate	2
Electronics Fabrication Technician	2	Technical Coordinator, Electronic & Mechanical	2
Electronics Technologist For Nif&Ps	2	Designer - Electrical	1
Electronics Technologist/Senior Electronics Technologist	2	Dodt Electronics Engineering Technical Associate/Senior Engineering Technical Associate	1
Actalent		30	
Job Titles	Job Posting	Job Titles	Job Posting
Calibration Technician	4	Electromechanical Technician	2
Electronics Technician	4	Low Voltage Engineering Technician	2
Electrical Coordinator	2	Test Technician	2
Electrical Engineering Technician	2	Altium Pcb Designer - Remote	1
Electrical Technician	2	Calibration Technician-Tesla	1

Advanced Micro Devices, Inc.		25	
Job Titles	Job Posting	Job Titles	Job Posting
Analog Design Engineer	4	Analog Designer	1
Senior Analog Designer	3	Circuit Cad Engineer	1
Serdes Analog Design Engineer	3	Director Analog Design	1
Smts Analog Design Engineer	3	Fellow Analog Design	1
Pmts Analog Design Engineer	2	Mixed Signal Digital Design	1
Hupp Draft Services		25	
Job Titles	Job Posting		
Draft Beer Technician			25
Protech Automotive		23	
Job Titles	Job Posting	Job Titles	Job Posting
Automotive Adas Calibration Technician	16	Automotive Calibration Technician	7
Sandia Corporation		23	
Job Titles	Job Posting	Job Titles	Job Posting
Electromechanical Technologist	4	Calibration General Technologist Mid-Career	1
Electronics Technologist	3	Calibration Services General Technologist Mid-Career	1
Electrical Design Assurance Lead	2	Calibration Support Technologist Early Career	1
Electrical Engineer - Power Supply Or Analog Design	2	Electrical Engineer - Power Supply Or Analog Design Early/Mid-C	1
Telemetry Fpga And Electronics Designer	2	Electromechanical Technologist - Test Assembly Gro	1
Allied Universal		22	
Job Titles	Job Posting	Job Titles	Job Posting
Security Officer-Electronics Technician Campus	6	Low Voltage Installation Technician	1
Security Guard - Electronics Technician Campus	4	Low Voltage Senior Service Technician	1
Low Voltage Installation Technician II	3	Low Voltage Service Technician	1
Security Officer- Electronics Technician Campus	2	Security Guard - Electronics Technician Campus In	1
Security Officer-Screening Specialist- Electronics Technician Campus	2	Security Guard-Electronics Technician Campus	1
Amazon		19	
Job Titles	Job Posting	Job Titles	Job Posting
Control Systems Technician	14	Senior Sdet - Solid State Devices	2
Sdet - Solid State Devices	2	Ecad Application Engineer	1

Danaher Corporation		19	
Job Titles	Job Posting	Job Titles	Job Posting
Automation Technician	7	Automation Technician Cepheid	1
Automation Technician II	2	Calibration Technician III	1
Calibration Technician I	2	Test Technician 2 Molecular Devices	1
Calibration Technician II	2	Test Technician 3 Molecular Devices	1
Test Technician	2		
Department of Veterans Affairs		19	
Job Titles	Job Posting	Job Titles	Job Posting
Medical Instrument Technician Polysomnography	5	Lead Medical Instrument Technician Diagnostic Ultrasound/Vascular	1
Medical Instrument Technician Diagnostic Ultrasound	2	Lead Medical Instrument Technician Vascular	1
Medical Instrument Technician Echocardiography	2	Medical Instrument Technician Diagnostic Ultrasound Vascular	1
Medical Instrument Technician Electrocardiograph Ekg	2	Medical Instrument Technician Diagnostic Ultrasound/Vascular	1
Electronics Technician	1	Medical Instrument Technician Gastroenterology Gi	1
Facebook		18	
Job Titles	Job Posting	Job Titles	Job Posting
Depth Technician Lead, Technology Engineering For Devices	4	Electrical Technician	1
Analog & Mixed-Signal Designer	2	Lead Electrical Technician	1
Analog Design Electrical Engineer	2	Oled Panel Designer	1
Analog Design Engineer	1	Pcb Design Manager	1
Electrical Debug And Test Technician	1	Physical Design Director	1
Google Inc.		17	
Job Titles	Job Posting	Job Titles	Job Posting
Director, Cpu Front End Design	3	Manager, Chip Design Verification, Platforms	1
Thermal Test Technician	3	Pcb Design Manager, Nest	1
Ecad Support Engineer, Devices & Services	2	Phd Residency - Electronics - Vlsi Design/Eda/Machine Learning/High-Performance Computing	1
Electronic Packaging Technician Lead, Google Pixel	2	Physical Design Implementation Manager	1
Digital Designer	1	Soc Design Lead, Platforms	1

Nvidia Corporation		17	
Job Titles	Job Posting	Job Titles	Job Posting
Senior Cad Engineer	4	Rtl Analysis Cad Engineer	2
Senior Sram Circuit Designer	4	Asic Design Verification, Low Power - College Grad	1
Cad Engineer	3	Cad Engineer - College Grad	1
Engineering Validation Technician	2		
L3Harris		16	
Job Titles	Job Posting	Job Titles	Job Posting
Electro Mechanical Assembler	10	Senior Specialist Computer - Aided Design	1
Senior Specialist, Design	5		
Broadcom		15	
Job Titles	Job Posting	Job Titles	Job Posting
Rf Power Amplifier Designer	3	Analog Mixed Signal Layout Designer	1
Staff Analog Circuit Designer	3	High Speed Analog Design Lead	1
Fbar Designer	2	High Speed Analog Designer	1
Ic Cad Engineer	2	Senior Pcb Designer	1
Analog Design Engineer	1		
Luminous Computing		15	
Job Titles	Job Posting	Job Titles	Job Posting
High Speed Analog Design	14	Analog Design Engineer - High-Speed, Serdes, Pll, Finfet	1
Qualcomm		15	
Job Titles	Job Posting	Job Titles	Job Posting
Rf/Analog Design Engineer	6	Rf/Analog Design Engineer, Senior	1
Vlsi Cad Engineer - Senior Staff	4	Rf/Analog Design Engineer, Staff	1
Cad Engineer	1	Staff Test Technician	1
Mask Layout Designer, Staff	1		
Trescal Inc		15	
Job Titles	Job Posting	Job Titles	Job Posting
Calibration Technician - Rf Microwave	4	Electromechanical Calibration Technician - Entry Level - Training Provided	3
Calibration Technician - General Purpose	3	Calibration Technician - Entry Level At Trescal Inc	1
Calibration Technician - Lead	3	Calibration Technician - General Purpose At Trescal Inc	1

Jacobs Engineering Group Incorporated		14	
Job Titles	Job Posting	Job Titles	Job Posting
Electrical Design Technician	5	Entry Level Instrumentation & Controls Design Technician	1
Electrification Specialist	2	Hmi/Plc Programmer	1
Instrument And Controls Design Technician	2	Senior Designer-Electrical	1
Machining Technician	2		
Texas Instruments		14	
Job Titles	Job Posting	Job Titles	Job Posting
Analog Design Engineer - Custom Power Products	2	Analog Design Engineer Custom Power Products	1
Analog Design Verification Engineer	2	Analog Design Engineer Development Program - /Phd	1
Analog Design Engineer	1	Analog Design Engineer Development Program - Bachelors	1
Analog Design Engineer - Chip Architect	1	Analog Design Engineer Development Program Custom Power Products ,	1
Analog Design Engineer Chip Architect	1	Analog Design Engineer Development Program Custom Power Products - ,	1

Unspecified postings: 857

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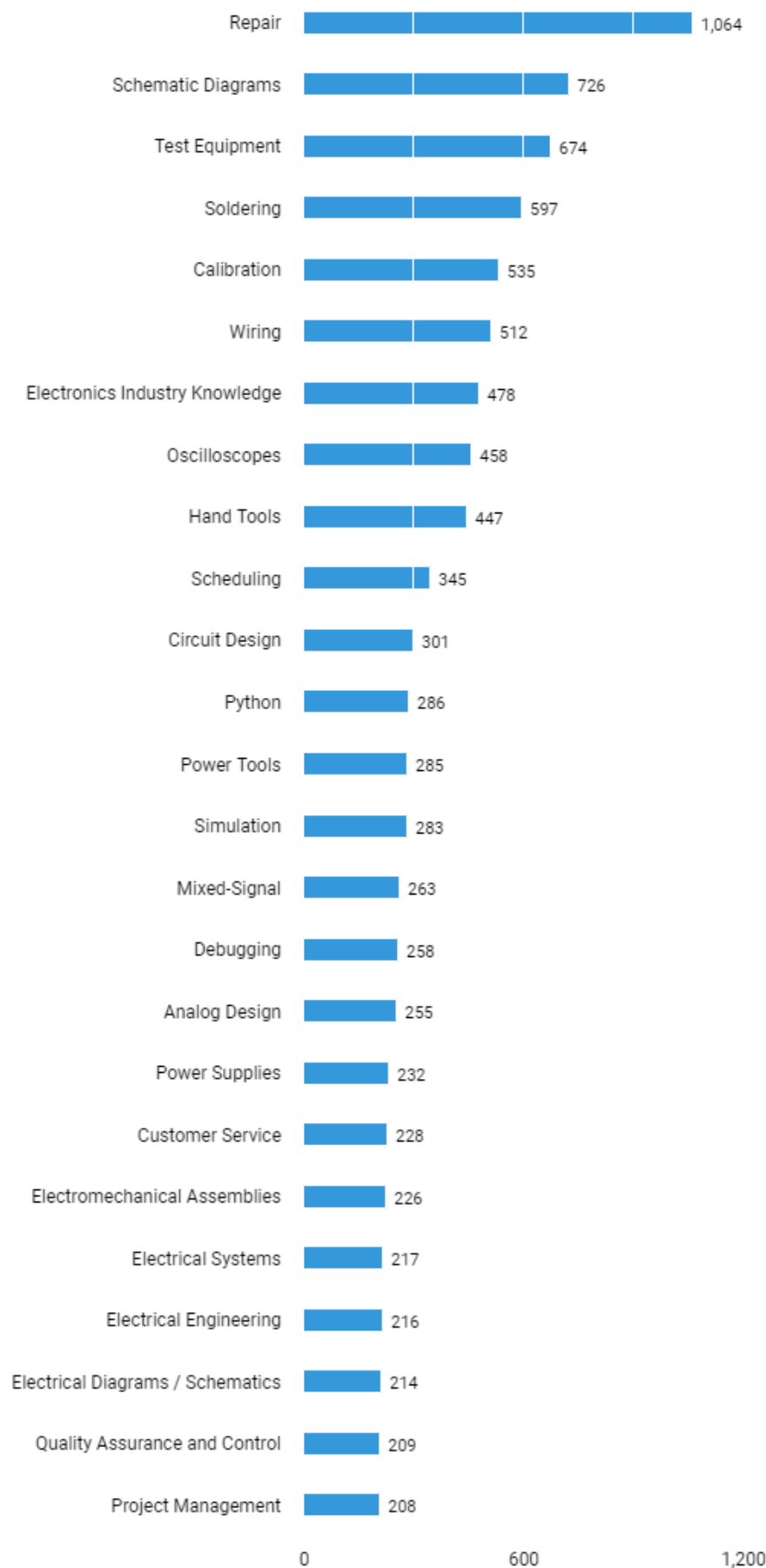
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What credentials are needed for the job?

The following skills are most requested (Specialized Skills)

Jan. 01, 2021 - Dec. 31, 2021

There are 3,685 postings available with the current filters applied.
There are 180 unspecified or unclassified postings.

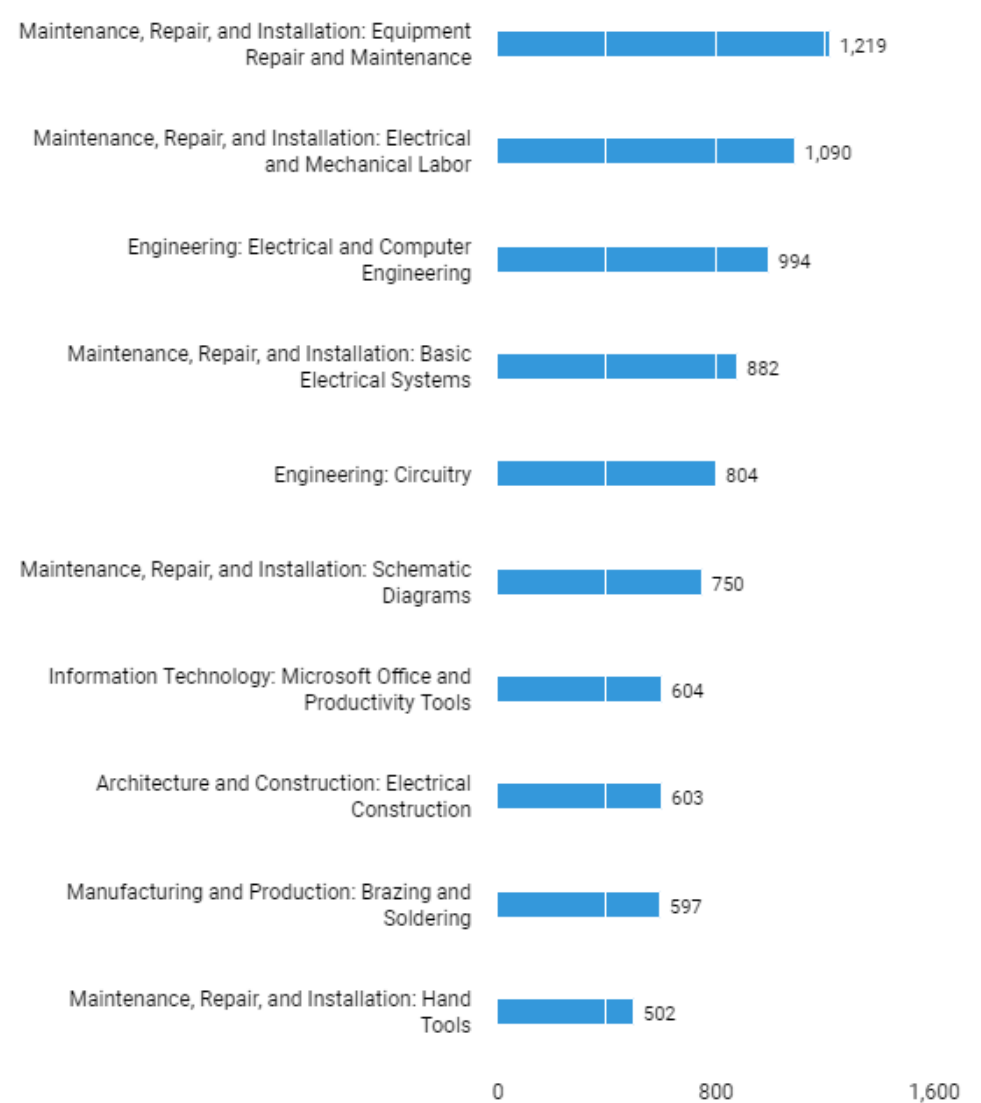


Unspecified postings: 180

The following skill clusters are most requested

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Unspecified postings: 461

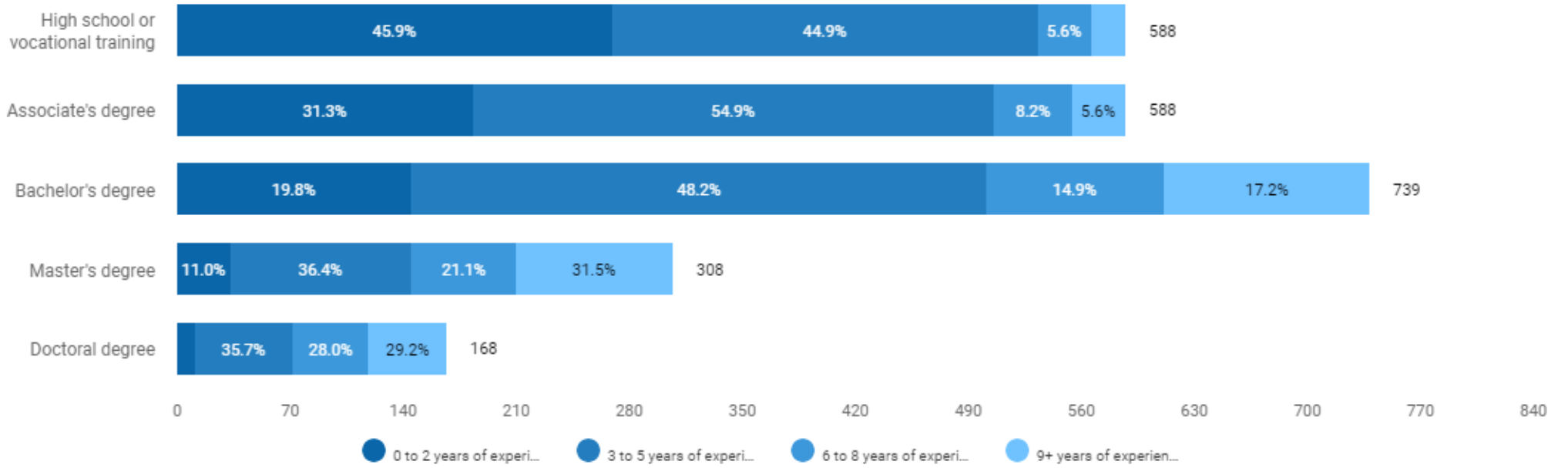
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The following levels of education and levels of experience are requested



Unspecified postings: 1,933

Certification Analysis

Active Selections

Contra Costa, CA, Alameda, CA, San Francisco, CA, Santa Clara, CA, San Mateo, CA, Basic Electronics, Certified Electronics Technician Associate, Electronic Technician Certification

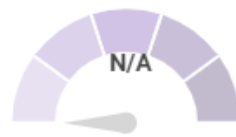
Certification Metrics

Job Postings

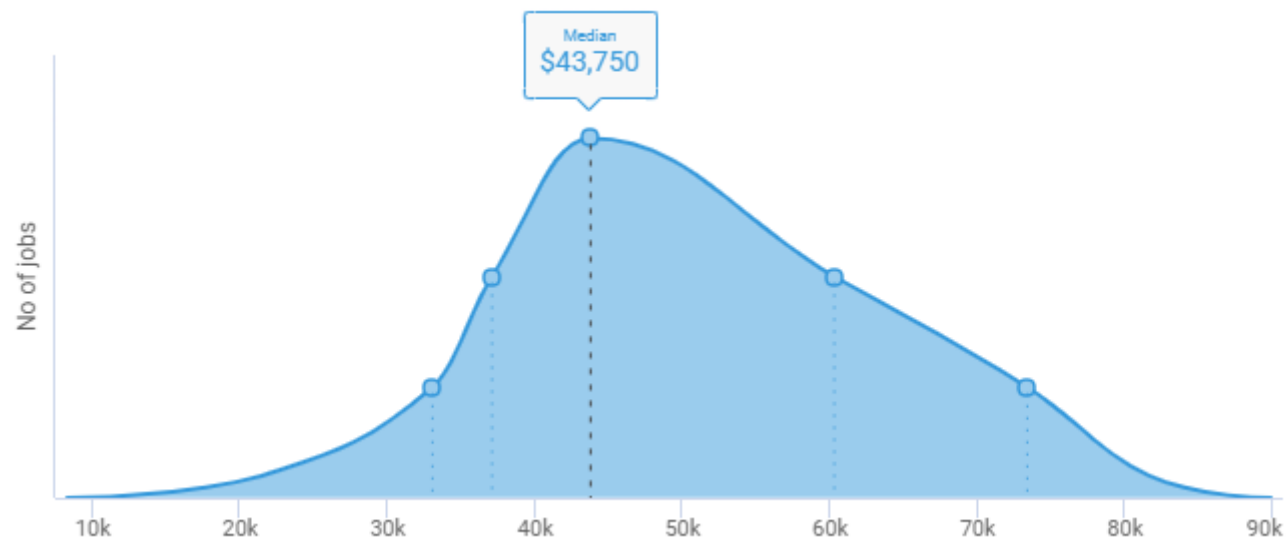
Last 12 Months



Location Quotient



Salary Overall



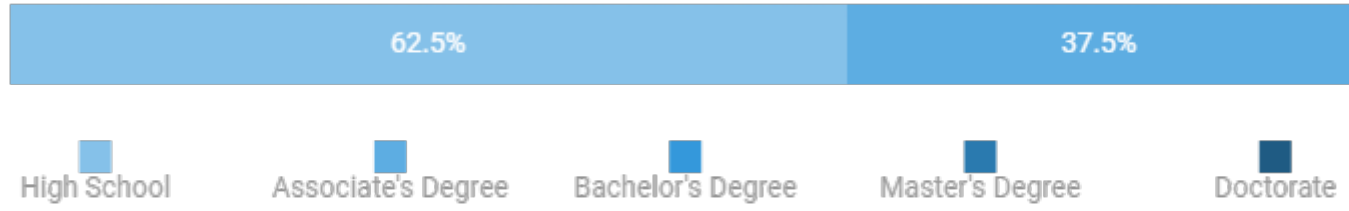
Salary By Education

Salary By Experience

Years of Experience

No data available for this report with your selected filters.

Education Level



Top Occupations Requesting Certification(s)

Occupation	Associated Education Level
Electrical and Electronics Technician	Associate's
General Engineering Technician / Technologist	High school or vocational
Controls / Valve Technician	NA
Building and General Maintenance Technician	NA
Field Service Technician	Associate's
Satellite / Broadband Technician	NA
Computer Support Specialist	Associate's

Certification Taxonomy

Certification Group	Job Postings																
Electronics	111																
<table border="1"> <thead> <tr> <th>Certification</th> <th>Job Postings</th> </tr> </thead> <tbody> <tr> <td>Computer Engineering Certificate</td> <td>46</td> </tr> <tr> <td>Mobile Electronics Certified Professional (MECP)</td> <td>21</td> </tr> <tr> <td>Electronic Technician Certification</td> <td>19</td> </tr> <tr> <td>Soldering Certification</td> <td>15</td> </tr> <tr> <td>Certified Electronics Technician Associate</td> <td>8</td> </tr> <tr> <td>Electronic Assembly</td> <td>1</td> </tr> <tr> <td>Electronic Engineering Certification</td> <td>1</td> </tr> </tbody> </table>	Certification	Job Postings	Computer Engineering Certificate	46	Mobile Electronics Certified Professional (MECP)	21	Electronic Technician Certification	19	Soldering Certification	15	Certified Electronics Technician Associate	8	Electronic Assembly	1	Electronic Engineering Certification	1	
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Soldering Certification	15																
Certified Electronics Technician Associate	8																
Electronic Assembly	1																
Electronic Engineering Certification	1																

Top Occupations

Specialized Occupation	Total Job Postings (Last 12 Months)	Job Postings Requesting Certification(s)(#)	Job Postings Requesting Certification(s)(%)	Occupation Projected Growth (10 Years)	Associated Education Level
General Engineering Technician / Technologist	2,788	6	0.2%	11.3%	High school or vocational training
Controls / Valve Technician	215	5	2.3%	2.1%	NA
Electrical Engineering Technician	708	4	0.6%	7.4%	NA
Building and General Maintenance Technician	9,847	3	0.0%	18.8%	NA
Field Service Technician	1,853	2	0.1%	9.5%	Associate's degree
Engineering Test Technician	628	2	0.3%	5.7%	High school or vocational training
Telecommunications Field Technician	337	2	0.6%	3.9%	NA
Technical Support Engineer / Analyst	3,400	1	0.0%	10.8%	Associate's degree
Electronics Repair Technician	221	1	0.5%	1.7%	Associate's degree

Top Co-occurring Skills

	Skill	Job Postings
1	Repair	17
2	Calibration	14
3	Electronics Industry Knowledge	14
4	Schematic Diagrams	13
5	Wiring	13
6	Servo Drives / Motors	12
7	Local Area Network (LAN)	8
8	Oscilloscopes	8
9	Power Tools	8
10	Predictive / Preventative Maintenance	8

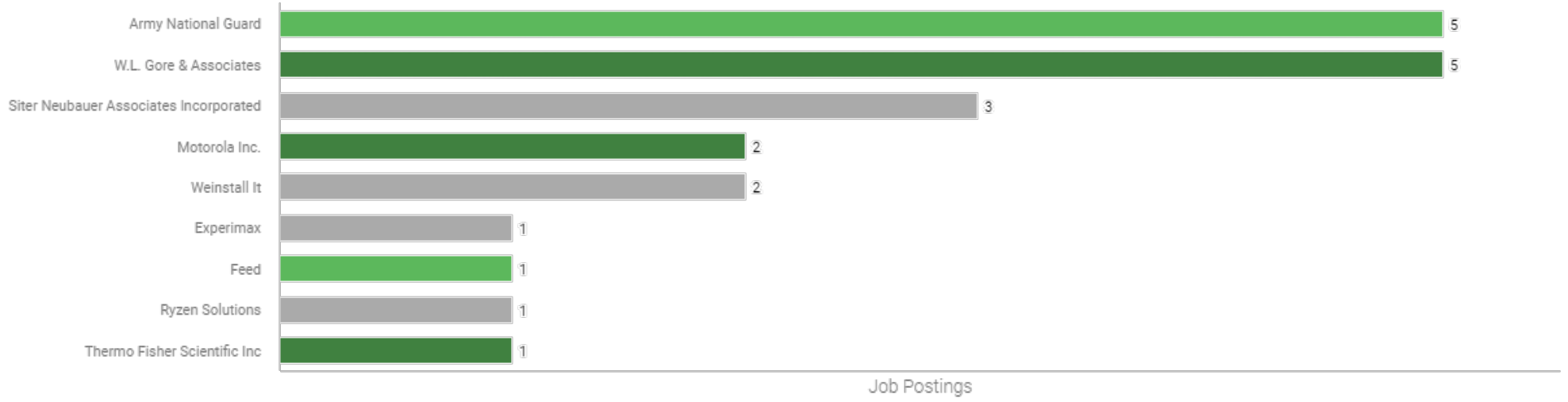
Currently displaying: Specialized

Top Industries

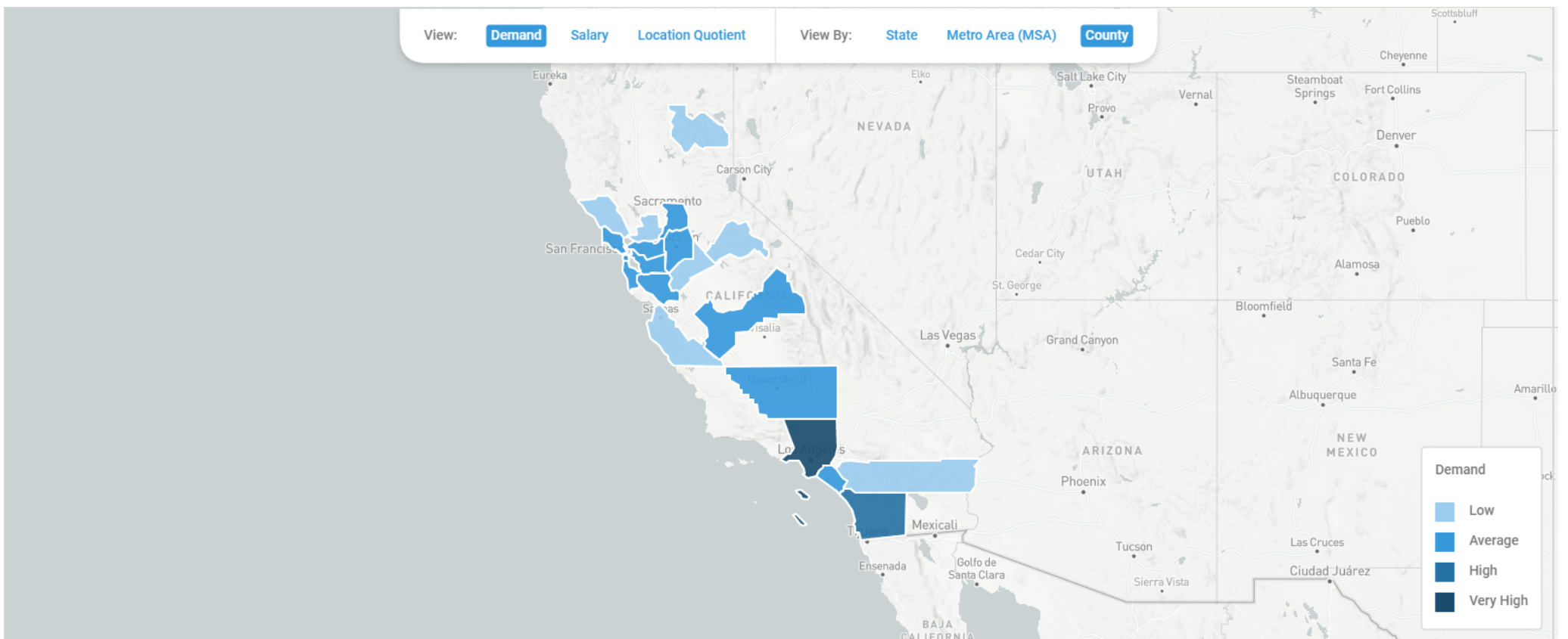
Currently displaying: 2digit



Top Employers



Top Locations



County	Job Postings (Last 12 Months)	Median Salary	Location Quotient
Los Angeles, CA	37	\$32k	N/A
San Diego, CA	29	\$40k	N/A
Santa Clara, CA	19	\$41k	N/A
Kern, CA	6	\$38k	N/A
San Francisco, CA	4	\$53k	N/A
Orange, CA	3	\$40k	N/A
San Joaquin, CA	3	\$71k	N/A
Fresno, CA	2	\$51k	N/A
Sacramento, CA	2	\$56k	N/A
San Mateo, CA	2	\$75k	N/A

Division: 4411 – Electronics Technology ELEC

INDICATOR	Academic Year			STUDENT SUCCESS INDICATORS	Academic Year		
	18-19	19-20	20-21		18-19	19-20	20-21
Enrollments (Dup. Headcnt)	178	144	148	Success %	70.2%	70.8%	79.1%
WSCH	742.7	605.7	573.9	Retention %	79.8%	81.9%	93.2%
FTES	24.8	20.2	19.1	Withdraw %	20.2%	18.1%	6.8%
LOAD (WSCH/FTEF)*	370.8	330.4	264.1				
Classroom Teaching FTEF				Sections			
Full-time FTEF	1.2	1.2	1.5	Total	9	10	11
Adjunct FTEF	0.9	0.7	0.7	% CTE	100.0%	100.0%	100.0%
Overload FTEF (FT Faculty)	0.0	0.0	0.0	% Transferable	0.0%	0.0%	0.0%
Retired FTEF	0.0	0.0	0.0	% Degree Applicable	0.0%	0.0%	0.0%
Total FTEF	2.0	1.8	2.2	% Basic Skills	0.0%	0.0%	0.0%
Percent Full-time	57.6%	62.9%	68.7%				

Division: 4411 – Electronics Technology ELEC
Successful Course Completion Rates: 2018-19 to 2020-21

Demographic Variable	Enrollments (Duplicate Headcount)			Pct. Enrollments (Duplicate Headcount)			Percent Success			Percent Withdraw		
	18-19	19-20	20-21	18-19	19-20	20-21	18-19	19-20	20-21	18-19	19-20	20-21
Ethnicity												
Asian-Domestic	23	18	26	12.9	12.5	17.6	95.7	83.3	92.3	4.3	16.7	3.8
Asian-Int'l	0	0	2	0.0	0.0	1.4	--	--	0.0	--	--	0.0
Black	6	3	11	3.4	2.1	7.4	66.7	66.7	45.5	33.3	0.0	18.2
Filipino	13	12	11	7.3	8.3	7.4	61.5	75.0	100.0	38.5	16.7	0.0
Hispanic	68	58	45	38.2	40.3	30.4	52.9	65.5	75.6	32.4	15.5	11.1
Native Am	0	0	2	0.0	0.0	1.4	--	--	0.0	--	--	0.0
Pac Islander	2	2	0	1.1	1.4	0.0	50.0	100.0	--	0.0	0.0	--
White	57	37	40	32.0	25.7	27.0	78.9	70.3	87.5	10.5	27.0	2.5
Other	3	7	10	1.7	4.9	6.8	100.0	100.0	80.0	0.0	0.0	0.0
Unrecorded	6	7	1	3.4	4.9	0.7	100.0	42.9	0.0	0.0	28.6	100.0
<i>Total</i>	178	144	148	100	100	100	70.2	70.8	79.1	20.2	18.1	6.8
Gender												
Female	8	9	9	4.5	6.3	6.1	75.0	66.7	77.8	25.0	22.2	0.0
Male	167	120	133	93.8	83.3	89.9	69.5	70.0	78.2	20.4	19.2	7.5
Unrecorded	3	15	6	1.7	10.4	4.1	100.0	80.0	100.0	0.0	6.7	0.0
<i>Total</i>	178	144	148	100	100	100	70.2	70.8	79.1	20.2	18.1	6.8
Age												
19 or less	6	9	17	3.4	6.3	11.5	50.0	11.1	82.4	0.0	55.6	5.9
20-24	50	31	14	28.1	21.5	9.5	78.0	67.7	85.7	22.0	12.9	0.0
25-29	45	22	27	25.3	15.3	18.2	62.2	72.7	74.1	22.2	13.6	11.1
30-34	25	29	30	14.0	20.1	20.3	56.0	75.9	66.7	20.0	17.2	10.0
35-39	23	13	27	12.9	9.0	18.2	73.9	84.6	85.2	21.7	15.4	3.7
40-49	14	17	18	7.9	11.8	12.2	71.4	76.5	94.4	28.6	11.8	0.0
50+	15	23	15	8.4	16.0	10.1	93.3	78.3	73.3	6.7	21.7	13.3
Unrecorded	0	0	0	0.0	0.0	0.0	--	--	--	--	--	--
<i>Total</i>	178	144	148	100	100	100	70.2	70.8	79.1	20.2	18.1	6.8
Disability Status												
Has disability	2	6	4	1.1	4.2	2.7	0.0	50.0	50.0	50.0	33.3	0.0
No disability	176	138	144	98.9	95.8	97.3	71.0	71.7	79.9	19.9	17.4	6.9
First Generation College												
First generation	103	90	78	57.9	62.5	52.7	68.9	63.3	71.8	21.4	21.1	9.0
Not first generation	64	45	56	36.0	31.3	37.8	79.7	80.0	89.3	17.2	15.6	5.4
Income Status												
Low income	35	14	13	19.7	9.7	8.8	48.6	64.3	30.8	31.4	0.0	15.4
Not low income	143	130	135	80.3	90.3	91.2	75.5	71.5	83.7	17.5	20.0	5.9

Division: 4411 – Electronics Technology ELEC

INDICATOR	2018	Fall Term 2019	2020
Enrollments/Dup.Headcount	82	73	63
WSCH	404.0	322.0	225.7
FTES	13.5	10.7	7.5
LOAD (WSCH/FTEF)*	541.1	431.3	246.3
Success %	67.1%	58.9%	81.0%
Retention %	76.8%	72.6%	90.5%
Withdraw %	23.2%	27.4%	9.5%
Classroom Teaching FTEF			
Full-time FTEF	0.4	0.4	0.7
Adjunct FTEF	0.3	0.3	0.2
Overload FTEF (F-T Faculty)	0.0	0.0	0.0
Retired FTEF	0.0	0.0	0.0
Total FTEF	0.7	0.7	0.9
Percent Full-time	54.5%	54.5%	81.5%
Sections			
Total Number of Sections	3	4	5
% CTE	100.0%	100.0%	100.0%
% Transferable	0.0%	0.0%	0.0%
% Degree Applicable	0.0%	0.0%	0.0%
% Basic Skills	0.0%	0.0%	0.0%

Division: 4411 – Electronics Technology ELEC

INDICATOR	2019	Spring Term 2020	2021
Enrollments/Dup.Headcount	96	71	85
WSCH	338.7	283.7	348.2
FTES	11.3	9.5	11.6
LOAD (WSCH/FTEF)*	269.6	261.1	277.1
Success %	72.9%	83.1%	77.6%
Retention %	82.3%	91.5%	95.3%
Withdraw %	17.7%	8.5%	4.7%
Classroom Teaching FTEF			
Full-time FTEF	0.7	0.7	0.7
Adjunct FTEF	0.5	0.3	0.5
Overload FTEF (F-T Faculty)	0.0	0.0	0.0
Retired FTEF	0.0	0.0	0.0
Total FTEF	1.3	1.1	1.3
Percent Full-time	59.4%	68.7%	59.4%
Sections			
Total Number of Sections	6	6	6
% CTE	100.0%	100.0%	100.0%
% Transferable	0.0%	0.0%	0.0%
% Degree Applicable	0.0%	0.0%	0.0%
% Basic Skills	0.0%	0.0%	0.0%

Division: 4411 – Electronics Technology ELEC

INDICATOR	Summer Term		
	2018	2019	2020
Enrollments/Dup.Headcount	0	0	0
WSCH	--	--	--
FTES	--	--	--
LOAD (WSCH/FTEF)*	--	--	--
Success %	--%	--%	--%
Retention %	--%	--%	--%
Withdraw %	--%	--%	--%
Classroom Teaching FTEF			
Full-time FTEF	--	--	--
Adjunct FTEF	--	--	--
Overload FTEF (F-T Faculty)	--	--	--
Retired FTEF	--	--	--
Total FTEF	--	--	--
Percent Full-time	--%	--%	--%
Sections			
Total Number of Sections	--	--	--
% CTE	--%	--%	--%
% Transferable	--%	--%	--%
% Degree Applicable	--%	--%	--%
% Basic Skills	--%	--%	--%

Division: 4411 – Electronics Technology ELEC

INDICATOR	Academic Year			STUDENT SUCCESS INDICATORS	Academic Year		
	15-16	16-17	17-18		15-16	16-17	17-18
Enrollments (Dup. Headcnt)	445	435	300	Success %	74.6%	75.9%	70.3%
WSCH	1628.8	1273.9	1202.4	Retention %	84.7%	84.8%	83.0%
FTEF	54.3	42.5	40.1	Withdraw %	15.3%	15.2%	17.0%
LOAD (WSCH/FTEF)*	520.4	381.1	393.0				
Classroom Teaching FTEF				Sections			
Full-time FTEF	1.6	1.5	1.5	Total	16	18	16
Adjunct FTEF	1.6	1.8	1.6	% CTE	100.0%	100.0%	100.0%
Overload FTEF (FT Faculty)	0.0	0.1	0.0	% Transferable	0.0%	0.0%	0.0%
Retired FTEF	0.0	0.0	0.0	% Degree Applicable	0.0%	0.0%	0.0%
Total FTEF	3.1	3.3	3.1	% Basic Skills	0.0%	0.0%	0.0%
Percent Full-time	49.9%	46.9%	48.8%				

CSM Program Review, Fall 2018 Submission Cycle: *Student Success and Core Program Indicators*
Academic Years 2015/16 to 2017/18

Division: 4411 – Electronics Technology ELEC
Successful Course Completion Rates: 2015-16 to 2017-18

Demographic Variable	Enrollments (Duplicate Headcount)			Pct. Enrollments (Duplicate Headcount)			Percent Success			Percent Withdraw		
	15-16	16-17	17-18	15-16	16-17	17-18	15-16	16-17	17-18	15-16	16-17	17-18
Ethnicity												
Asian	69	59	45	15.5	13.6	15.0	81.2	86.4	82.2	17.4	10.2	11.1
Black	24	19	17	5.4	4.4	5.7	50.0	57.9	70.6	37.5	26.3	23.5
Filipino	24	42	21	5.4	9.7	7.0	91.7	73.8	66.7	4.2	26.2	14.3
Hispanic	164	162	117	36.9	37.2	39.0	72.6	67.9	65.8	12.8	19.8	19.7
Native Am	1	0	0	0.2	0.0	0.0	100.0	–	–	0.0	–	–
Pac Islander	7	5	3	1.6	1.1	1.0	71.4	100.0	33.3	0.0	0.0	66.7
White	94	104	71	21.1	23.9	23.7	72.3	85.6	73.2	19.1	5.8	18.3
Other	41	30	20	9.2	6.9	6.7	73.2	83.3	75.0	14.6	6.7	5.0
Unrecorded	21	14	6	4.7	3.2	2.0	90.5	57.1	50.0	4.8	28.6	0.0
<i>Total</i>	445	435	300	100	100	100	74.6	75.9	70.3	15.3	15.2	17.0
Gender												
Female	14	29	21	3.1	6.7	7.0	64.3	79.3	66.7	28.6	0.0	19.0
Male	412	387	275	92.6	89.0	91.7	75.7	75.5	70.9	14.1	16.8	17.1
Unrecorded	19	19	4	4.3	4.4	1.3	57.9	78.9	50.0	31.6	5.3	0.0
<i>Total</i>	445	435	300	100	100	100	74.6	75.9	70.3	15.3	15.2	17.0
Age												
19 or less	35	19	21	7.9	4.4	7.0	62.9	73.7	47.6	20.0	15.8	28.6
20-24	111	89	83	24.9	20.5	27.7	75.7	77.5	73.5	15.3	7.9	12.0
25-29	80	118	78	18.0	27.1	26.0	77.5	73.7	71.8	16.3	18.6	19.2
30-34	90	65	43	20.2	14.9	14.3	78.9	76.9	60.5	11.1	15.4	23.3
35-39	45	67	31	10.1	15.4	10.3	68.9	70.1	67.7	17.8	22.4	19.4
40-49	62	61	28	13.9	14.0	9.3	72.6	86.9	82.1	16.1	8.2	14.3
50+	22	16	16	4.9	3.7	5.3	77.3	62.5	87.5	13.6	25.0	0.0
Unrecorded	0	0	0	0.0	0.0	0.0	–	–	–	–	–	–
<i>Total</i>	445	435	300	100	100	100	74.6	75.9	70.3	15.3	15.2	17.0
Disability Status												
Has disability	6	5	2	1.3	1.1	0.7	50.0	40.0	50.0	16.7	20.0	0.0
No disability	439	430	298	98.7	98.9	99.3	74.9	76.3	70.5	15.3	15.1	17.1
First Generation College												
First generation	277	254	169	62.2	58.4	56.3	70.8	75.2	74.0	17.3	16.1	15.4
Not first generation	109	134	87	24.5	30.8	29.0	78.0	74.6	69.0	13.8	14.9	14.9
Income Status												
Low income	91	99	43	20.4	22.8	14.3	78.0	66.7	81.4	11.0	21.2	14.0
Not low income	354	336	257	79.6	77.2	85.7	73.7	78.6	68.5	16.4	13.4	17.5

Division: 4411 – Electronics Technology ELEC

INDICATOR	Fall Term		
	2015	2016	2017
Enrollments/Dup.Headcount	223	216	177
WSCH	817.5	481.5	733.3
FTES	27.2	16.0	24.4
LOAD (WSCH/FTEF)*	491.5	277.2	406.7
Success %	74.9%	81.5%	73.4%
Retention %	86.1%	91.7%	85.9%
Withdraw %	13.9%	8.3%	14.1%
Classroom Teaching FTEF			
Full-time FTEF	0.7	0.7	0.7
Adjunct FTEF	0.9	1.1	1.1
Overload FTEF (F-T Faculty)	0.0	0.0	0.0
Retired FTEF	0.0	0.0	0.0
Total FTEF	1.7	1.7	1.8
Percent Full-time	44.9%	39.2%	41.4%
Sections			
Total Number of Sections	8	9	10
% CTE	100.0%	100.0%	100.0%
% Transferable	0.0%	0.0%	0.0%
% Degree Applicable	0.0%	0.0%	0.0%
% Basic Skills	0.0%	0.0%	0.0%

Division: 4411 – Electronics Technology ELEC

INDICATOR	Spring Term		
	2016	2017	2018
Enrollments/Dup.Headcount	222	219	123
WSCH	811.3	792.5	469.1
FTES	27.0	26.4	15.6
LOAD (WSCH/FTEF)*	553.2	493.3	373.3
Success %	74.3%	70.3%	65.9%
Retention %	83.3%	78.1%	78.9%
Withdraw %	16.7%	21.9%	21.1%
Classroom Teaching FTEF			
Full-time FTEF	0.8	0.8	0.7
Adjunct FTEF	0.7	0.7	0.5
Overload FTEF (F-T Faculty)	0.0	0.1	0.0
Retired FTEF	0.0	0.0	0.0
Total FTEF	1.5	1.6	1.3
Percent Full-time	55.7%	55.2%	59.4%
Sections			
Total Number of Sections	8	9	6
% CTE	100.0%	100.0%	100.0%
% Transferable	0.0%	0.0%	0.0%
% Degree Applicable	0.0%	0.0%	0.0%
% Basic Skills	0.0%	0.0%	0.0%

Division: 4411 – Electronics Technology ELEC

INDICATOR	Summer Term		
	2015	2016	2017
Enrollments/Dup.Headcount	17	21	23
WSCH	0.0	38.4	126.7
FTES	0.0	1.3	4.2
LOAD (WSCH/FTEF)*	0.0	288.1	372.6
Success %	76.5%	100.0%	91.3%
Retention %	76.5%	100.0%	100.0%
Withdraw %	23.5%	0.0%	0.0%
Classroom Teaching FTEF			
Full-time FTEF	0.0	0.0	0.0
Adjunct FTEF	0.3	0.0	0.0
Overload FTEF (F-T Faculty)	0.0	0.1	0.3
Retired FTEF	0.0	0.0	0.0
Total FTEF	0.3	0.1	0.3
Percent Full-time	0.0%	100.0%	100.0%
Sections			
Total Number of Sections	1	1	1
% CTE	100.0%	100.0%	100.0%
% Transferable	0.0%	0.0%	0.0%
% Degree Applicable	0.0%	0.0%	0.0%
% Basic Skills	0.0%	0.0%	0.0%

Program Overview

Electrical/Electronics Maintenance and Repair Technologies/Technicians

Lightcast Q1 2023 Data Set

April 2023

San Mateo County Community College District



3401 CSM Drive
San Mateo, California 94402
650.358.6880

Parameters

Completions Year: 2021

Jobs Timeframe: 2017 - 2028

Job Postings Timeframe: Sep 2021 - Sep 2022

Programs:

Code	Description
47.01	Electrical/Electronics Maintenance and Repair Technologies/Technicians

Regions:

Code	Description	Code	Description
6001	Alameda County, CA	6081	San Mateo County, CA
6075	San Francisco County, CA	6085	Santa Clara County, CA

Education Level: Any

Tuition Type: Tuition & Fees

Graduate Status: Undergraduate

Residency: In-State

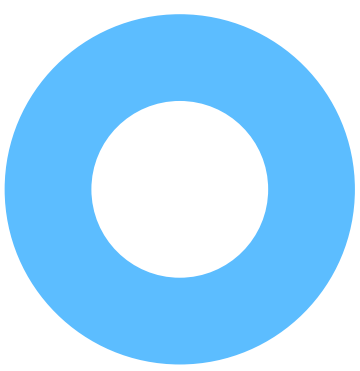
<p>4</p> <p>Institutions</p> <p>-20% Growth (2017-2021)</p>	<p>65</p> <p>Completions</p> <p>-40% Growth (2017-2021)</p>	<p>Completions Distribution</p> <p>Average: 16.3</p> <p>Median: 9.5</p>
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Program Overview



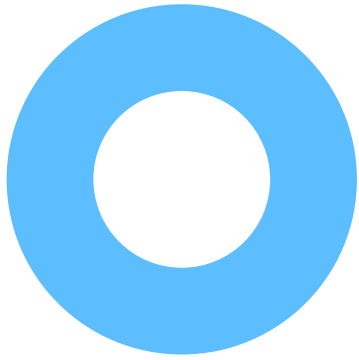
	Completions (2021)	% Completions	Institutions (2021)	% Institutions
● All Programs	65	100%	4	100%
● Distance Offered Programs	2	3%	1	25%
● Non-Distance Offered Programs	63	97%	3	75%

Market Share by Institution Type



Institution Type	Completions (2021)	Market Share
● Public, 2-year	65	100.0%

Market Share by Program

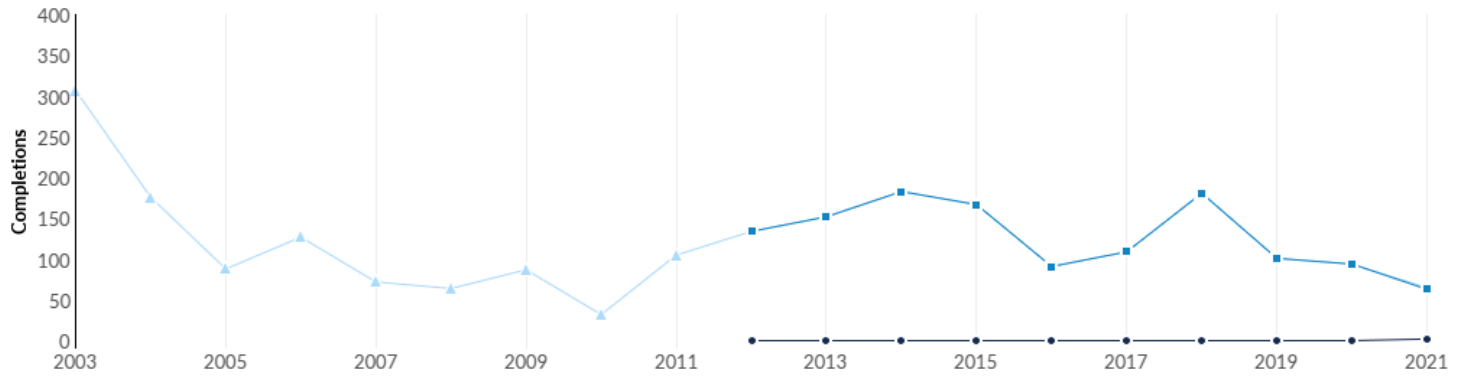


Program	Completions (2021)	Market Share
Electrical/Electronics Equipment Installation and Repair Technology/Technician, General (47.0101)	65	100.0%

Completions by Institution

Institution	Completions (2021)	Growth % YOY (2021)	Market Share (2021)	IPEDS Tuition & Fees (2021)	Completions Trend (2017-2021)
Laney College	44	7.3%	67.7%	\$1,148	
Chabot College	14	40.0%	21.5%	\$1,150	
City College of San Francisco	5	-86.1%	7.7%	\$1,168	
College of San Mateo	2	-71.4%	3.1%	\$1,440	

Regional Trends



	2012 Completions	2021 Completions	% Change
● Distance Offered Programs	0	2	Insf. Data
■ Non-Distance Offered Programs	134	63	-53.0%
▲ All Programs	134	65	-51.5%

Regional Completions by Award Level



Award Level	Completions (2021)	Percent
● Award of less than 1 academic year	16	24.6%
● Award of at least 1 but less than 2 academic years	33	50.8%
● Associate's Degree	16	24.6%
Award of at least 2 but less than 4 academic years	0	0.0%
Bachelor's Degree	0	0.0%
Postbaccalaureate certificate	0	0.0%
Master's Degree	0	0.0%
Post-masters certificate	0	0.0%
Doctor's Degree	0	0.0%

Similar Programs

75
Programs (2021)

21,949
Completions (2021)

CIP Code	Program	Completions (2021)
52.0201	Business Administration and Management, General	8,648
24.0101	Liberal Arts and Sciences/Liberal Studies	6,538
11.0701	Computer Science	2,849
11.0199	Computer and Information Sciences, Other	614
09.0701	Radio and Television	386
46.0302	Electrician	371
15.1501	Engineering/Industrial Management	341
47.0604	Automobile/Automotive Mechanics Technology/Technician	263
11.0103	Information Technology	256
30.9999	Multi-/Interdisciplinary Studies, Other	242

Target Occupations

<p>97,273</p> <p>Jobs (2017)</p> <p>1% above National average</p>	<p>-2.5%</p> <p>% Change (2017-2028)</p> <p>Nation: +13.3%</p>	<p>\$31.73/hr \$66.0K/yr</p> <p>Median Earnings</p> <p>Nation: \$23.87/hr; \$49.6K/yr</p>	<p>10,663</p> <p>Annual Openings</p>
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Occupation	2017 Jobs	Annual Openings	Median Earnings	Growth (2017 - 2028)	Location Quotient (2017)
Computer User Support Specialists	25,942	2,045	\$36.20/hr	-18.37%	1.96
Maintenance and Repair Workers, General	23,394	2,717	\$27.35/hr	+7.92%	0.78
Electrical and Electronic Engineering Technologists and Technicians	8,308	826	\$35.98/hr	-17.90%	3.12
First-Line Supervisors of Mechanics, Installers, and Repairers	6,410	776	\$44.17/hr	+14.74%	0.65
Heating, Air Conditioning, and Refrigeration Mechanics and Installers	4,897	687	\$33.62/hr	+25.40%	0.70
Telecommunications Equipment Installers and Repairers, Except Line Installers	4,562	433	\$35.23/hr	-26.19%	0.94
Installation, Maintenance, and Repair Workers, All Other	3,318	431	\$23.34/hr	+11.97%	0.81
Computer, Automated Teller, and Office Machine Repairers	2,799	238	\$26.22/hr	-35.16%	1.14
Semiconductor Processing Technicians	2,737	458	\$22.78/hr	+7.09%	5.73
Telecommunications Line Installers and Repairers	2,633	263	\$41.76/hr	-30.42%	1.16
Industrial Machinery Mechanics	2,548	383	\$36.16/hr	+42.07%	0.36
Engineering Technologists and Technicians, Except Drafters, All Other	2,172	391	\$26.08/hr	+43.09%	1.47
Helpers--Installation, Maintenance, and Repair Workers	1,580	159	\$22.34/hr	-24.11%	0.70
Security and Fire Alarm Systems Installers	1,455	323	\$32.82/hr	+73.26%	0.97
Electrical and Electronics Repairers, Commercial and Industrial Equipment	1,234	86	\$35.59/hr	-43.44%	0.87
Industrial Engineering Technologists and Technicians	894	122	\$33.51/hr	+13.98%	0.68

Electro-Mechanical and Mechatronics Technologists and Technicians	740	56	\$31.62/hr	-36.76%	2.81
Home Appliance Repairers	374	46	\$24.81/hr	-2.41%	0.44
Audiovisual Equipment Installers and Repairers	271	48	\$27.66/hr	+17.71%	0.43
Electric Motor, Power Tool, and Related Repairers	222	17	\$28.00/hr	-30.18%	0.49
Coil Winders, Tapers, and Finishers	196	16	\$26.00/hr	-55.10%	0.66
Electrical and Electronics Repairers, Powerhouse, Substation, and Relay	175	29	\$51.52/hr	+23.43%	0.32
Calibration Technologists and Technicians	115	23	\$35.42/hr	+52.17%	0.75
Radio, Cellular, and Tower Equipment Installers and Repairers	115	54	\$37.31/hr	+180.00%	0.32
Camera and Photographic Equipment Repairers	77	14	\$15.56/hr	+12.99%	1.04
Communications Equipment Operators, All Other	57	12	\$14.00/hr	-24.56%	0.36
Signal and Track Switch Repairers	48	10	\$40.19/hr	+37.50%	0.23

Growth

97,273

2017 Jobs

94,869

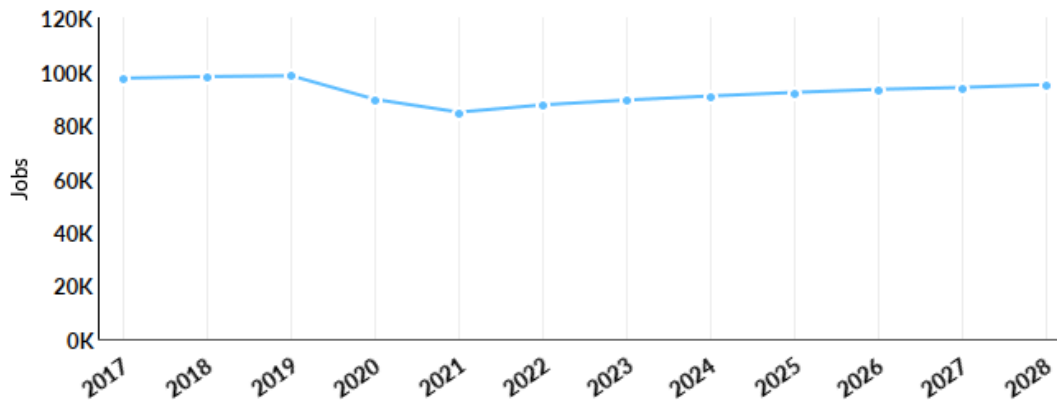
2028 Jobs

-2,404

Change (2017-2028)

-2.5%

% Change (2017-2028)



Occupation	2017 Jobs	2028 Jobs	Change	% Change
Computer User Support Specialists (15-1232)	25,942	21,177	-4,765	-18%
Electrical and Electronic Engineering Technologists and Technicians (17-3023)	8,308	6,821	-1,487	-18%
Electro-Mechanical and Mechatronics Technologists and Technicians (17-3024)	740	468	-272	-37%
Industrial Engineering Technologists and Technicians (17-3026)	894	1,019	125	14%
Calibration Technologists and Technicians (17-3028)	115	175	60	52%
Engineering Technologists and Technicians, Except Drafters, All Other (17-3029)	2,172	3,108	936	43%
Communications Equipment Operators, All Other (43-2099)	57	43	-14	-25%
First-Line Supervisors of Mechanics, Installers, and Repairers (49-1011)	6,410	7,355	945	15%
Computer, Automated Teller, and Office Machine Repairers (49-2011)	2,799	1,815	-984	-35%
Radio, Cellular, and Tower Equipment Installers and Repairers (49-2021)	115	322	207	180%
Telecommunications Equipment Installers and Repairers, Except Line Installers (49-2022)	4,562	3,367	-1,195	-26%

Electric Motor, Power Tool, and Related Repairers (49-2092)	222	155	-67	-30%
Electrical and Electronics Repairers, Commercial and Industrial Equipment (49-2094)	1,234	698	-536	-43%
Electrical and Electronics Repairers, Powerhouse, Substation, and Relay (49-2095)	175	216	41	23%
Audiovisual Equipment Installers and Repairers (49-2097)	271	319	48	18%
Security and Fire Alarm Systems Installers (49-2098)	1,455	2,521	1,066	73%
Heating, Air Conditioning, and Refrigeration Mechanics and Installers (49-9021)	4,897	6,141	1,244	25%
Home Appliance Repairers (49-9031)	374	365	-9	-2%
Industrial Machinery Mechanics (49-9041)	2,548	3,620	1,072	42%
Telecommunications Line Installers and Repairers (49-9052)	2,633	1,832	-801	-30%
Camera and Photographic Equipment Repairers (49-9061)	77	87	10	13%
Maintenance and Repair Workers, General (49-9071)	23,394	25,246	1,852	8%
Signal and Track Switch Repairers (49-9097)	48	66	18	38%
Helpers--Installation, Maintenance, and Repair Workers (49-9098)	1,580	1,199	-381	-24%
Installation, Maintenance, and Repair Workers, All Other (49-9099)	3,318	3,715	397	12%
Coil Winders, Tapers, and Finishers (51-2021)	196	88	-108	-55%
Semiconductor Processing Technicians (51-9141)	2,737	2,931	194	7%

Percentile Earnings

\$23.87/hr

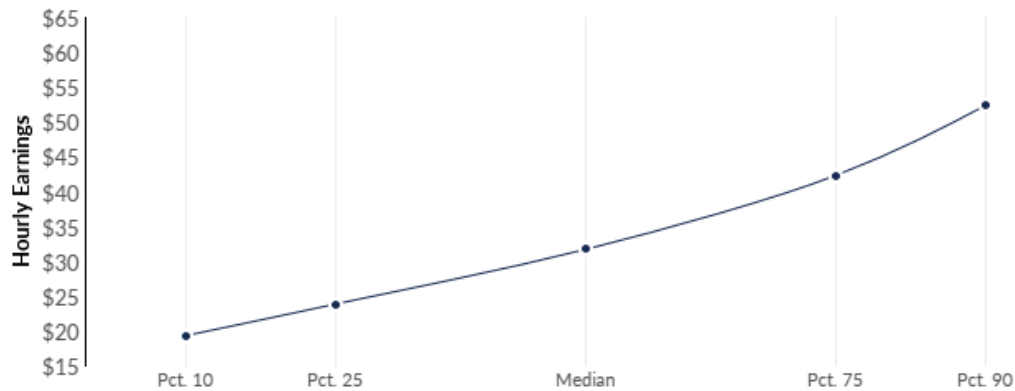
25th Percentile Earnings

\$31.73/hr

Median Earnings

\$42.35/hr


75th Percentile Earnings



Occupation	25th Percentile Earnings	Median Earnings	75th Percentile Earnings
Computer User Support Specialists (15-1232)	\$27.67	\$36.20	\$46.67
Electrical and Electronic Engineering Technologists and Technicians (17-3023)	\$28.79	\$35.98	\$44.67
Electro-Mechanical and Mechatronics Technologists and Technicians (17-3024)	\$22.24	\$31.62	\$36.97
Industrial Engineering Technologists and Technicians (17-3026)	\$28.47	\$33.51	\$41.09
Calibration Technologists and Technicians (17-3028)	\$28.44	\$35.42	\$44.90
Engineering Technologists and Technicians, Except Drafters, All Other (17-3029)	\$23.49	\$26.08	\$39.45
Communications Equipment Operators, All Other (43-2099)	\$14.00	\$14.00	\$17.13
First-Line Supervisors of Mechanics, Installers, and Repairers (49-1011)	\$33.72	\$44.17	\$56.93
Computer, Automated Teller, and Office Machine Repairers (49-2011)	\$20.87	\$26.22	\$30.57
Radio, Cellular, and Tower Equipment Installers and Repairers (49-2021)	\$24.75	\$37.31	\$41.94
Telecommunications Equipment Installers and Repairers, Except Line Installers (49-2022)	\$27.88	\$35.23	\$44.62

Electric Motor, Power Tool, and Related Repairers (49-2092)	\$22.94	\$28.00	\$37.29
Electrical and Electronics Repairers, Commercial and Industrial Equipment (49-2094)	\$25.45	\$35.59	\$46.18
Electrical and Electronics Repairers, Powerhouse, Substation, and Relay (49-2095)	\$49.58	\$51.52	\$68.97
Audiovisual Equipment Installers and Repairers (49-2097)	\$22.60	\$27.66	\$32.01
Security and Fire Alarm Systems Installers (49-2098)	\$25.16	\$32.82	\$36.95
Heating, Air Conditioning, and Refrigeration Mechanics and Installers (49-9021)	\$25.34	\$33.62	\$43.31
Home Appliance Repairers (49-9031)	\$19.24	\$24.81	\$31.14
Industrial Machinery Mechanics (49-9041)	\$28.55	\$36.16	\$46.87
Telecommunications Line Installers and Repairers (49-9052)	\$29.48	\$41.76	\$50.88
Camera and Photographic Equipment Repairers (49-9061)	\$14.27	\$15.56	\$18.60
Maintenance and Repair Workers, General (49-9071)	\$21.28	\$27.35	\$35.82
Signal and Track Switch Repairers (49-9097)	\$37.57	\$40.19	\$42.44
Helpers--Installation, Maintenance, and Repair Workers (49-9098)	\$18.02	\$22.34	\$27.16
Installation, Maintenance, and Repair Workers, All Other (49-9099)	\$20.38	\$23.34	\$29.31
Coil Winders, Tapers, and Finishers (51-2021)	\$20.10	\$26.00	\$30.64
Semiconductor Processing Technicians (51-9141)	\$18.29	\$22.78	\$28.78

Job Postings Summary

<p>51,830 Unique Postings 176,666 Total Postings</p>	<p>3 : 1 Posting Intensity  Regional Average: 4 : 1</p>	<p>29 days Median Posting Duration Regional Average: 29 days</p>
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There were 176,666 total job postings for your selection from September 2021 to September 2022, of which 51,830 were unique. These numbers give us a Posting Intensity of 3-to-1, meaning that for every 3 postings there is 1 unique job posting.

This is close to the Posting Intensity for all other occupations and companies in the region (4-to-1), indicating that they are putting average effort toward hiring for this position.

Job Postings vs. Hires

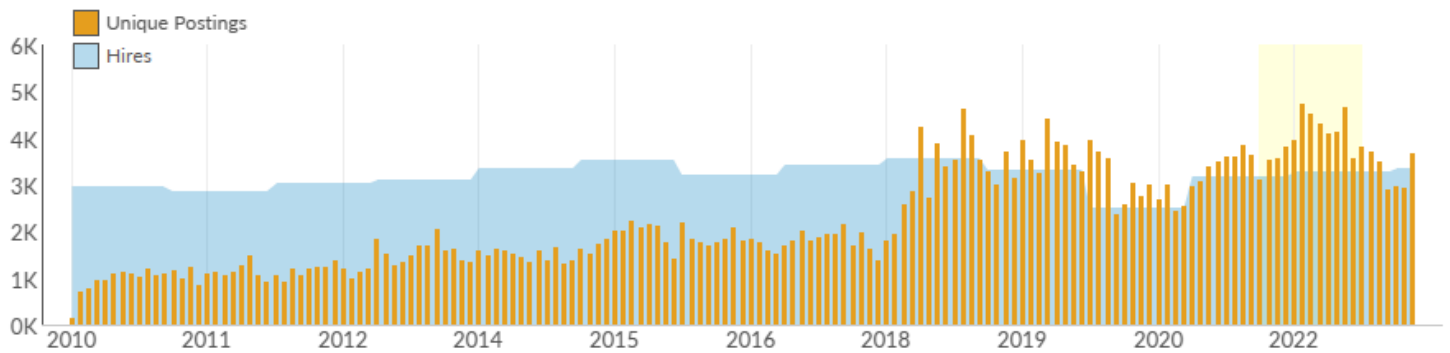
3,987

Avg. Monthly Postings (Sep 2021 - Sep 2022)

3,256

Avg. Monthly Hires (Sep 2021 - Sep 2022)











In an average month, there were 3,987 newly posted job postings for 27 Occupations, and 3,256 actually hired. This means there was approximately 1 hire for every 1 unique job posting for 27 Occupations.













Occupation	Avg Monthly Postings (Sep 2021 - Sep 2022)	Avg Monthly Hires (Sep 2021 - Sep 2022)
Maintenance and Repair Workers, General	1,085	935
Computer User Support Specialists	1,057	603
Industrial Engineering Technologists and Technicians	487	28
First-Line Supervisors of Mechanics, Installers, and Repairers	298	258
Engineering Technologists and Technicians, Except Drafters, All Other	259	111
Electrical and Electronic Engineering Technologists and Technicians	181	192
Heating, Air Conditioning, and Refrigeration Mechanics and Installers	133	238
Telecommunications Equipment Installers and Repairers, Except Line Installers	82	133
Electro-Mechanical and Mechatronics Technologists and Technicians	75	15
Industrial Machinery Mechanics	61	115
Installation, Maintenance, and Repair Workers, All Other	60	158

Telecommunications Line Installers and Repairers	44	66
Security and Fire Alarm Systems Installers	37	126
Home Appliance Repairers	35	17
Helpers--Installation, Maintenance, and Repair Workers	32	64
Audiovisual Equipment Installers and Repairers	23	13
Computer, Automated Teller, and Office Machine Repairers	14	65
Radio, Cellular, and Tower Equipment Installers and Repairers	8	12
Semiconductor Processing Technicians	7	61
Electric Motor, Power Tool, and Related Repairers	3	5
Electrical and Electronics Repairers, Powerhouse, Substation, and Relay	2	6
Communications Equipment Operators, All Other	1	1
Signal and Track Switch Repairers	1	2
Camera and Photographic Equipment Repairers	1	4
Coil Winders, Tapers, and Finishers	1	3
Electrical and Electronics Repairers, Commercial and Industrial Equipment	1	21
Calibration Technologists and Technicians	0	5

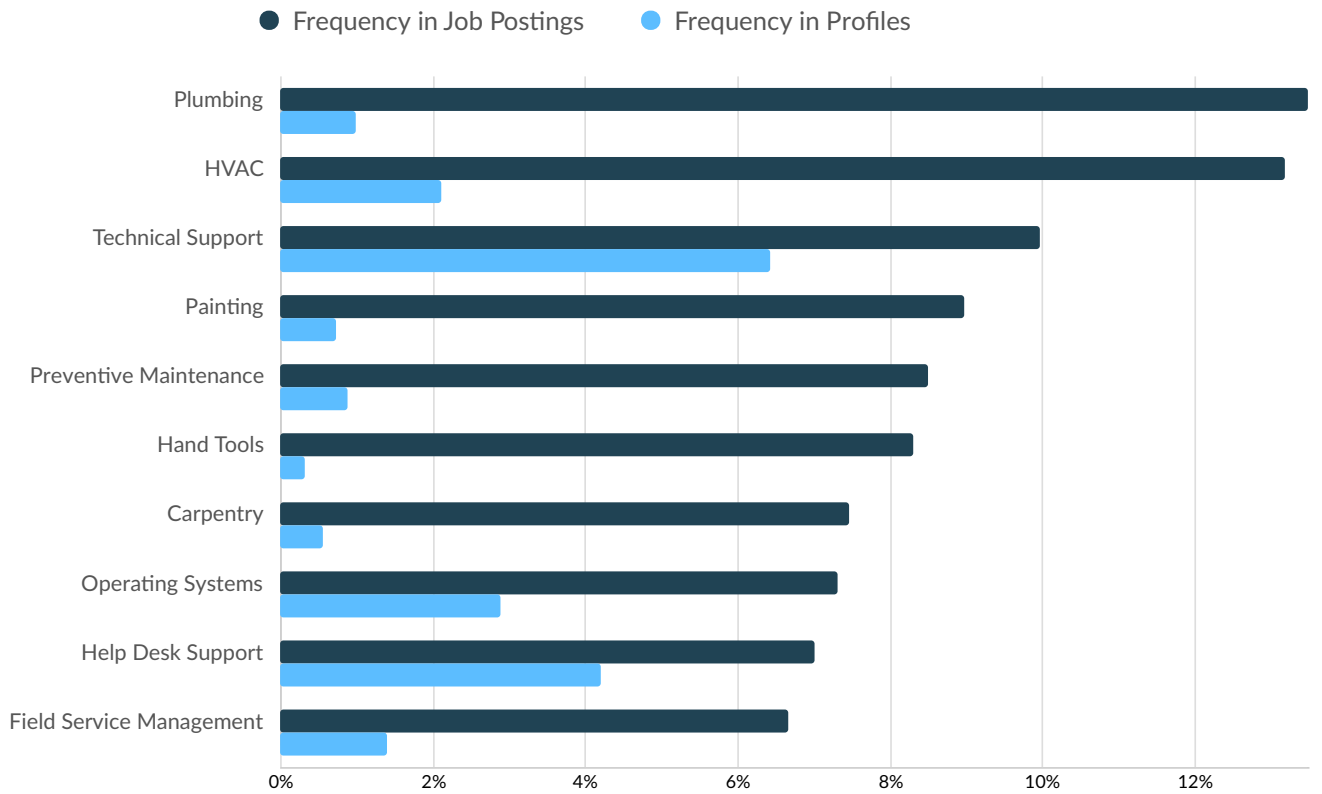
Top Companies Posting

Company	Total/Unique (Sep 2021 - Sep 2022)	Posting Intensity	Median Posting Duration
Randstad	2,427 / 1,107	2 : 1 	27 days
Tesla	1,687 / 607	3 : 1 	28 days
Aerotek	1,320 / 410	3 : 1 	29 days
Robert Half	683 / 374	2 : 1 	24 days
Kelly Services	773 / 348	2 : 1 	25 days
Greystar	782 / 320	2 : 1 	37 days
AvalonBay Communities	1,114 / 277	4 : 1 	32 days
Cynet Systems	482 / 273	2 : 1 	3 days
TEKsystems	793 / 267	3 : 1 	25 days
Cushman & Wakefield	759 / 256	3 : 1 	32 days

Top Posted Job Titles

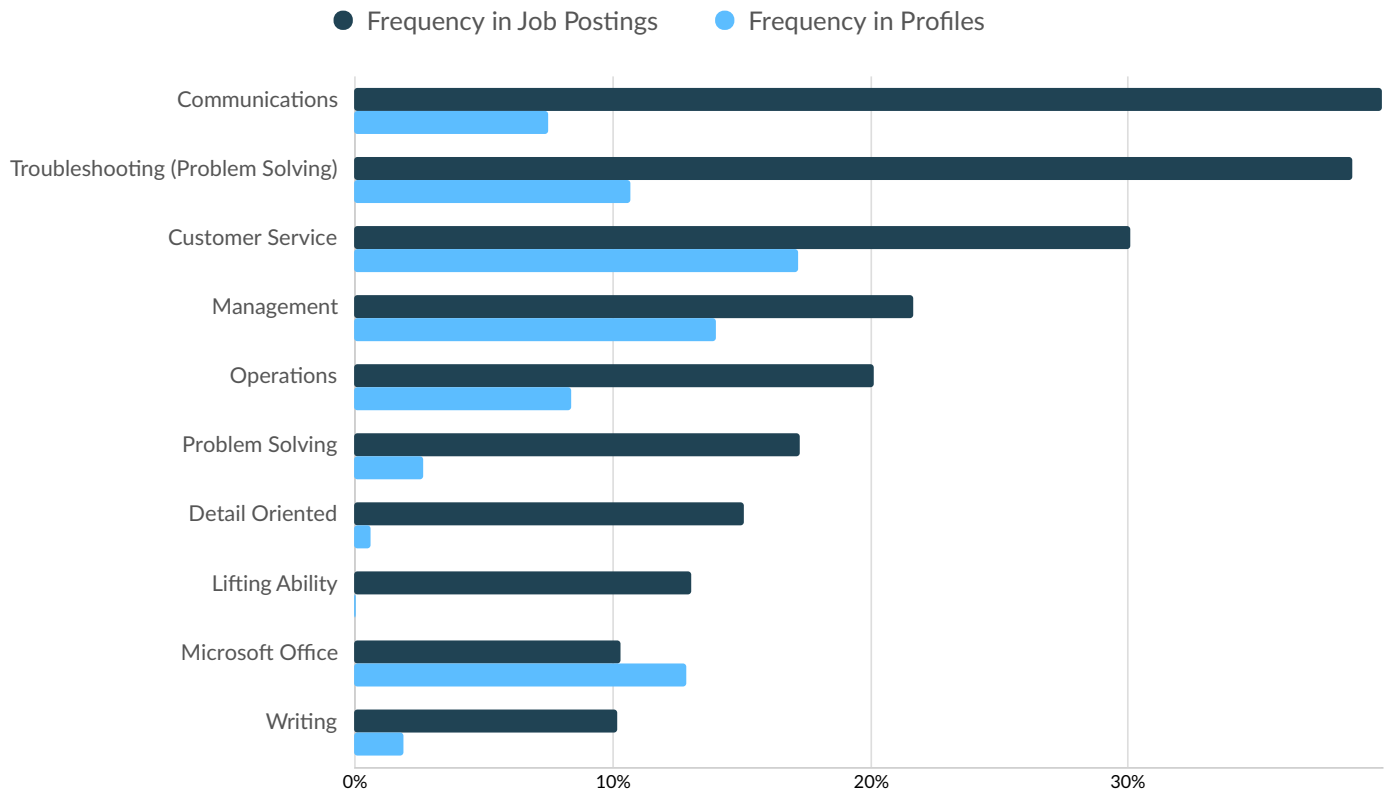
Job Title	Total/Unique (Sep 2021 - Sep 2022)	Posting Intensity	Median Posting Duration
Maintenance Technicians	13,572 / 3,476	4 : 1 	32 days
Manufacturing Technicians	6,486 / 1,651	4 : 1 	26 days
Field Service Technicians	4,391 / 1,383	3 : 1 	26 days
Service Technicians	3,625 / 1,092	3 : 1 	34 days
Engineering Technicians	2,310 / 892	3 : 1 	27 days
Facilities Technicians	2,302 / 675	3 : 1 	31 days
Installation Technicians	3,893 / 629	6 : 1 	28 days
Maintenance Supervisors	1,990 / 628	3 : 1 	35 days
Desktop Support Technicians	1,708 / 579	3 : 1 	24 days
IT Support Specialists	1,558 / 546	3 : 1 	29 days

Top Specialized Skills



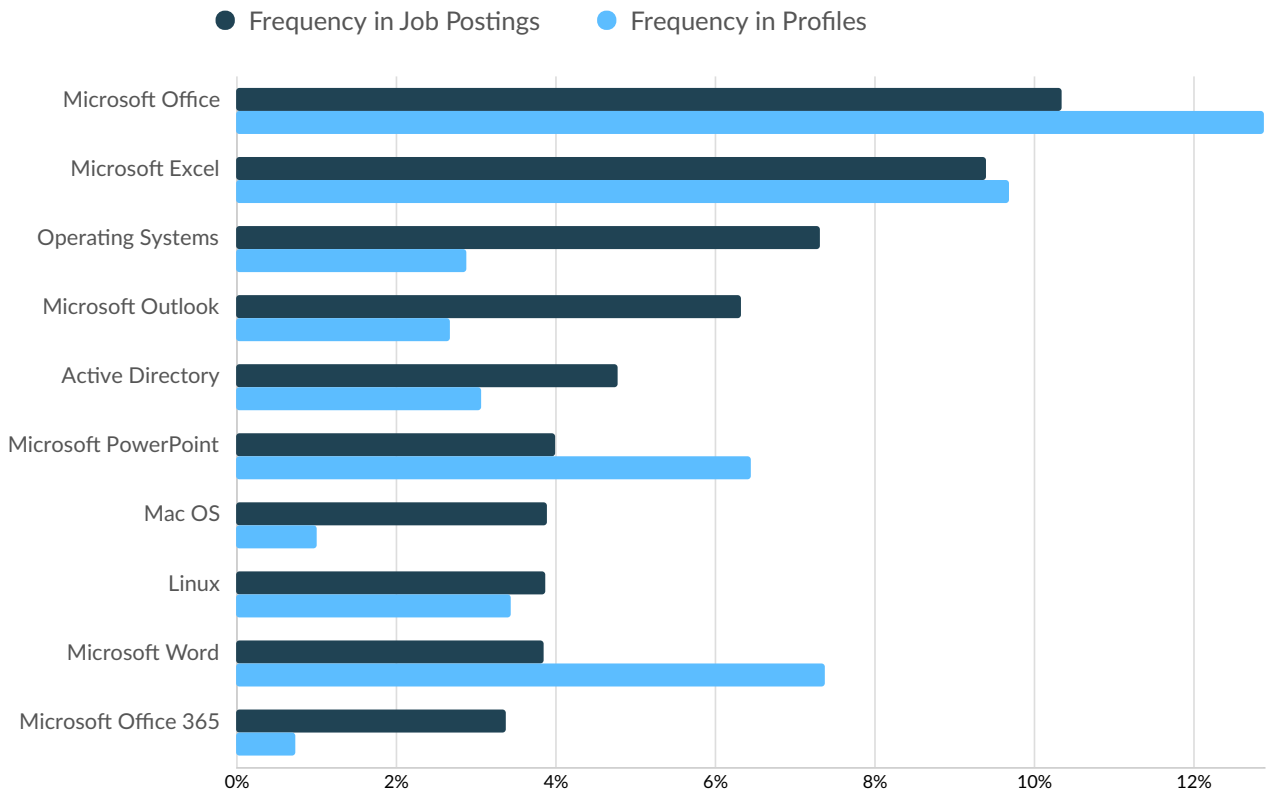
Skills	Postings	% of Total Postings	Profiles	% of Total Profiles	Projected Skill Growth (2 years)
Plumbing	6,992	13%	750	1%	2%
HVAC	6,839	13%	1,596	2%	15%
Technical Support	5,165	10%	4,840	6%	-7%
Painting	4,656	9%	548	1%	21%
Preventive Maintenance	4,403	8%	659	1%	23%
Hand Tools	4,305	8%	236	0%	12%
Carpentry	3,868	7%	429	1%	16%
Operating Systems	3,798	7%	2,179	3%	-13%
Help Desk Support	3,632	7%	3,167	4%	-13%
Field Service Management	3,458	7%	1,050	1%	9%

Top Common Skills



Skills	Postings	% of Total Postings	Profiles	% of Total Profiles	Projected Skill Growth (2 years)
Communications	20,659	40%	5,657	8%	5%
Troubleshooting (Problem Solving)	20,064	39%	8,069	11%	5%
Customer Service	15,604	30%	12,964	17%	-3%
Management	11,243	22%	10,575	14%	-2%
Operations	10,437	20%	6,328	8%	9%
Problem Solving	8,947	17%	2,025	3%	10%
Detail Oriented	7,836	15%	486	1%	1%
Lifting Ability	6,780	13%	36	0%	4%
Microsoft Office	5,365	10%	9,696	13%	1%
Writing	5,281	10%	1,418	2%	-2%

Top Software Skills



Skills	Postings	% of Total Postings	Profiles	% of Total Profiles	Projected Skill Growth (2 years)
Microsoft Office	5,365	10%	9,696	13%	1%
Microsoft Excel	4,873	9%	7,296	10%	-5%
Operating Systems	3,798	7%	2,179	3%	-13%
Microsoft Outlook	3,282	6%	2,015	3%	-2%
Active Directory	2,475	5%	2,307	3%	-13%
Microsoft PowerPoint	2,069	4%	4,859	6%	-4%
Mac OS	2,022	4%	762	1%	10%
Linux	2,012	4%	2,585	3%	-13%
Microsoft Word	1,997	4%	5,547	7%	-13%
Microsoft Office 365	1,757	3%	566	1%	29%

Top Qualifications

Qualification	Postings with Qualification
Valid Driver's License	10,856
CompTIA A+	1,321
HVAC Certification	626
EPA 608 Technician Certification	558
Microsoft Certified Professional	529
Automotive Service Excellence (ASE) Certification	487
Security Clearance	471
CompTIA Network+	435
Microsoft Certified Systems Engineer	407
Cisco Certified Network Associate	334

Appendix A

Program Selection Details

CIP Code	Program Name
47.01	Electrical/Electronics Maintenance and Repair Technologies/Technicians

Appendix B - Data Sources and Calculations

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.

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.

Lightcast Job Postings

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

State Data Sources

This report uses state data from the following agencies: California Employment Development Department

CSM Electronics Program Enrollment since Fall 2018

		Spring 2023				Fall 2022			
Course #	Title	Cap	Census	Actual EoT	Retention	Cap	Census	Actual EoT	Retention
ELEC 111	Intro to Electronics Fundmntls								
ELEC 112	Advanced Electronics Fund.					24	11	7	64%
ELEC 231	Basic Applied Electronic Math								
ELEC 232	Advanced Electronics Math					24	9	5	56%
ELEC 405	Transf & Rotating Machinery	24	2	2	100%	24	6	5	83%
ELEC 421	Fund. Electric Motor Control	24	12	12	100%				
ELEC 422	Intro Programmable Logic Contr								
ELEC 441	Sensors and Data Transmission Systems	24	6	6	100%	24	14	13	93%
ELEC 445	Industrial Data Communications Systems					24	3	3	100%
		Spring 2022				Fall 2021			
Course #	Title	Cap	Census	Actual EoT	Retention	Cap	Census	Actual EoT	Retention
ELEC 111	Intro to Electronics Fundmntls	24	23	13	57%	24	23	18	78%
ELEC 112	Advanced Electronics Fund.	24	9	8	89%	24	6	5	83%
ELEC 231	Basic Applied Electronic Math	24	20	9	45%	30	30	25	83%
ELEC 232	Advanced Electronics Math	24	10	9	90%	30	9	8	89%
ELEC 405	Transf & Rotating Machinery	24	10	9	90%	24	7	7	100%
ELEC 421	Fund. Electric Motor Control	24	13	13	100%				
ELEC 422	Intro Programmable Logic Contr								
ELEC 441	Sensors and Data Transmission Systems					24	20	19	95%
ELEC 445	Industrial Data Communications Systems					24	14	11	79%
		Spring 2021				Fall 2020			
Course #	Title	Cap	Census	Actual EoT	Retention	Cap	Census	Actual EoT	Retention
ELEC 111	Intro to Electronics Fundmntls	25	23	21	91%	35	20	17	85%
ELEC 112	Advanced Electronics Fund.	25	13	10	77%	35	7	6	86%
ELEC 231	Basic Applied Electronic Math	25	27	22	81%	35	18	15	83%
ELEC 232	Advanced Electronics Math	25	12	8	67%	35	11	7	64%
ELEC 405	Transf & Rotating Machinery	25	10	9	90%	35	15	12	80%
ELEC 421	Fund. Electric Motor Control	25	12	11	92%	CANCELLED - LOW ENROLLMENT			
ELEC 422	Intro Programmable Logic Contr								
ELEC 441	Sensors and Data Transmission Systems					CANCELLED - LOW ENROLLMENT			
ELEC 445	Industrial Data Communications Systems					CANCELLED - LOW ENROLLMENT			
		Spring 2020				Fall 2019			
Course #	Title	Cap	Census	Actual EoT	Retention	Cap	Census	Actual EoT	Retention
ELEC 111	Intro to Electronics Fundmntls	25	18	14	78%	35	24	16	67%
ELEC 112	Advanced Electronics Fund.	25	12	10	83%	CANCELLED - LOW ENROLLMENT			
ELEC 231	Basic Applied Electronic Math	25	22	16	73%	35	23	13	57%
ELEC 232	Advanced Electronics Math	25	10	7	70%	CANCELLED - LOW ENROLLMENT			
ELEC 405	Transf & Rotating Machinery	CANCELLED - LOW ENROLLMENT				CANCELLED - LOW ENROLLMENT			
ELEC 421	Fund. Electric Motor Control					35	17	15	88%
ELEC 422	Intro Programmable Logic Contr					35	9	9	100%
ELEC 441	Sensors and Data Transmission Systems	25	16	15	94%				
ELEC 445	Industrial Data Communications Systems	25	3	3	100%				
		Spring 2019				Fall 2018			
Course #	Title	Cap	Census	Actual EoT	Retention	Cap	Census	Actual EoT	Retention
ELEC 111	Intro to Electronics Fundmntls	25	12	8	67%	35	31	21	68%
ELEC 112	Advanced Electronics Fund.	25	21	16	76%	CANCELLED - LOW ENROLLMENT			
ELEC 231	Basic Applied Electronic Math	25	10	7	70%	35	30	21	70%
ELEC 232	Advanced Electronics Math	35	21	17	81%	CANCELLED - LOW ENROLLMENT			
ELEC 405	Transf & Rotating Machinery	25	19	19	100%	CANCELLED - LOW ENROLLMENT			
ELEC 421	Fund. Electric Motor Control					24	21	21	100%
ELEC 422	Intro Programmable Logic Contr								
ELEC 441	Sensors and Data Transmission Systems	24	13	12	92%				
ELEC 445	Industrial Data Communications Systems								

Cap	Maximum Enrollment
Census	# enrolled at Census Date
Actual EoT	# enrolled at End-of-Term