Electrical and Electronic Engineering Technologists and Technicians
in 3 Texas Counties

Contents

What is Emsi Data?

Electrical and Electronic Engineering Technologists and Technicians (SOC 17-3023):
Apply electrical and electronic theory and related knowledge, usually under the direction of engineering staff, to design, build, repair, adjust, and modify electrical components, circuitry, controls, and machinery for subsequent evaluation and use by engineering staff in making engineering design decisions. Excludes Broadcast Technicians (27-4012).

Sample of Reported Job Titles:
Test Technician
Engineering Technician (Engineering Tech)
Electronics Technician
Electrical Technician
Digital Tech (Digital Technician)
Equipment Specialist
Engineering Technician
Test Specialist

Related O*NET Occupations:
Electronics Engineering Technicians (17-3023.01)
Electrical Engineering Technicians (17-3023.03)

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

17-3023	Electrical and Electronic Engineering Technologists a...

3 Counties

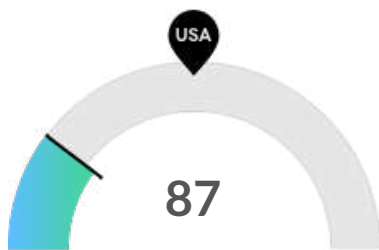|				
48215	Hidalgo County, TX		48489	Willacy County, TX
48427	Starr County, TX			

Class of Worker

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

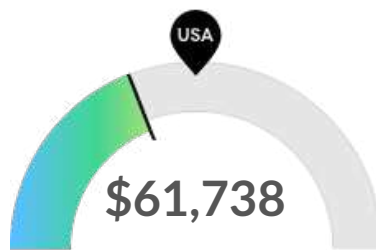The information in this report pertains to the chosen occupation and geographical areas.

Executive Summary

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

87

Jobs (2020)

Your area is not a hotspot for this kind of job. The national average for an area this size is 262* employees, while there are 87 here.

$61,738

Compensation

Earnings are low in your area. The national median salary for Electrical and Electronic Engineering Technologists and Technicians is $65,071, compared to $61,738 here.

3
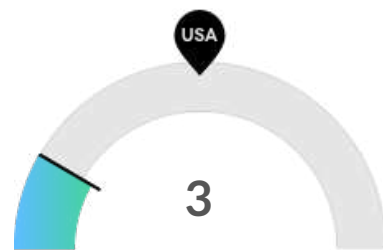
Job Posting Demand

Job posting activity is low in your area. The national average for an area this size is 13* job postings/mo, while there are 3 here.

*National average values are derived by taking the national value for Electrical and Electronic Engineering Technologists and Technicians 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 262* jobs, while there are 87 here. This lower than average supply of jobs may make it more difficult for workers in this field to find employment in your area.
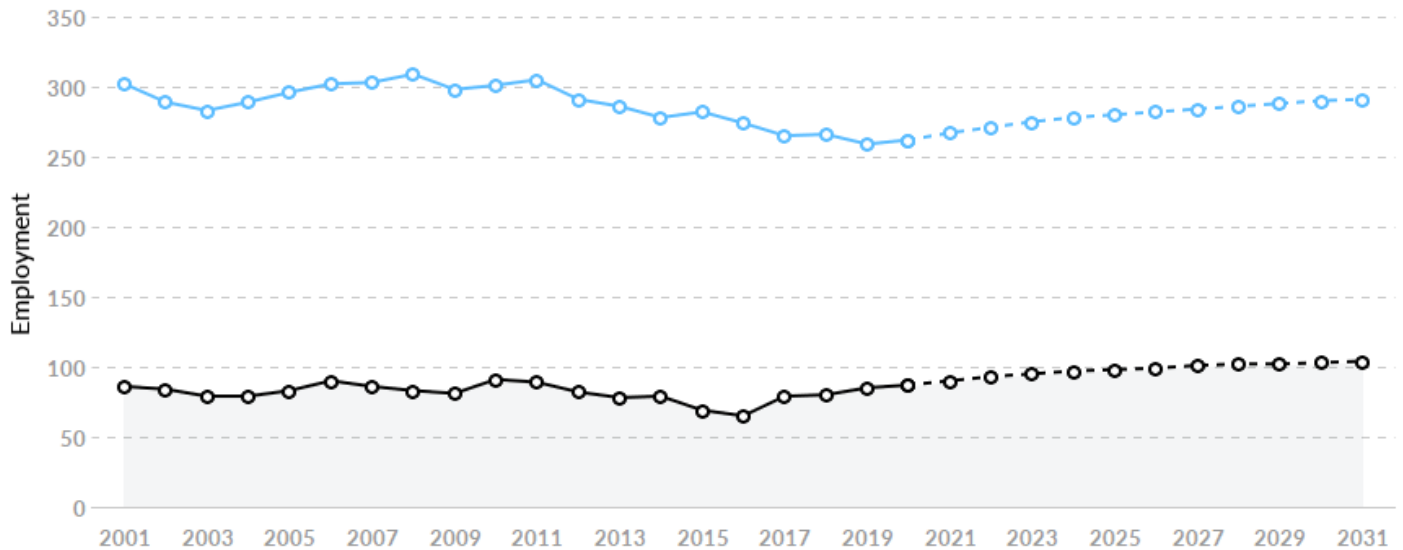
|	Region	2020 Jobs	2030 Jobs	Change	% Change
●	3 Texas Counties	87	103	16	18.1%
●	National Average	262	290	28	10.7%

*National average values are derived by taking the national value for Electrical and Electronic Engineering Technologists and Technicians 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
Hidalgo County, TX	78
Starr County, TX	<10
Willacy County, TX	<10

## Most Jobs are Found in the Federal Government, Civilian Industry Sector
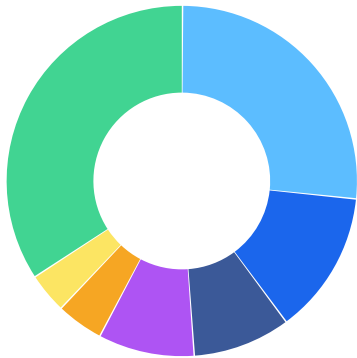
Industry	% of Occupation in Industry (2020)
🔵 Federal Government, Civilian	26.6%
🔵 Architectural, Engineering, and Related Services	13.2%
🔵 Electric Power Generation, Transmission and Distribution	9.0%
🟣 Local Government, Excluding Education and Hospitals	8.9%
🟠 Wired and Wireless Telecommunications Carriers	4.3%
🟡 Machinery, Equipment, and Supplies Merchant Wholesalers	3.7%
🟢 Other	34.3%

Compensation

Regional Compensation Is 5% Lower Than National Compensation

For Electrical and Electronic Engineering Technologists and Technicians, the 2019 median wage in your area is $61,738, while the national median wage is $65,071.
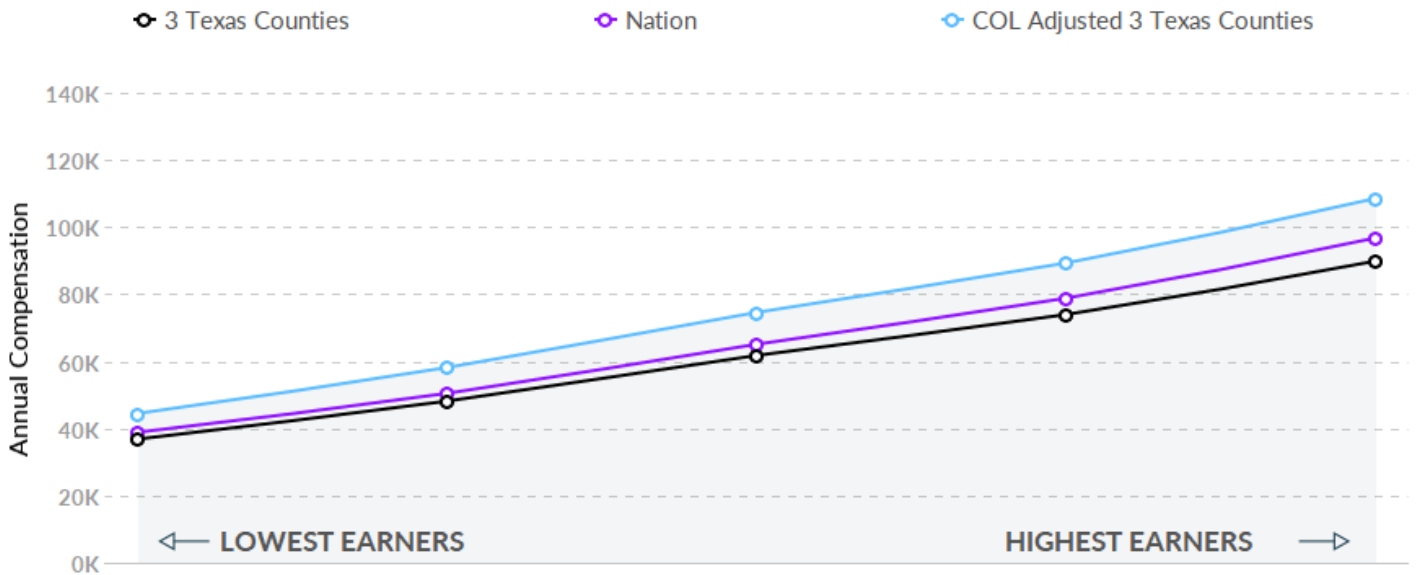
Job Posting Activity

51 Unique Job Postings

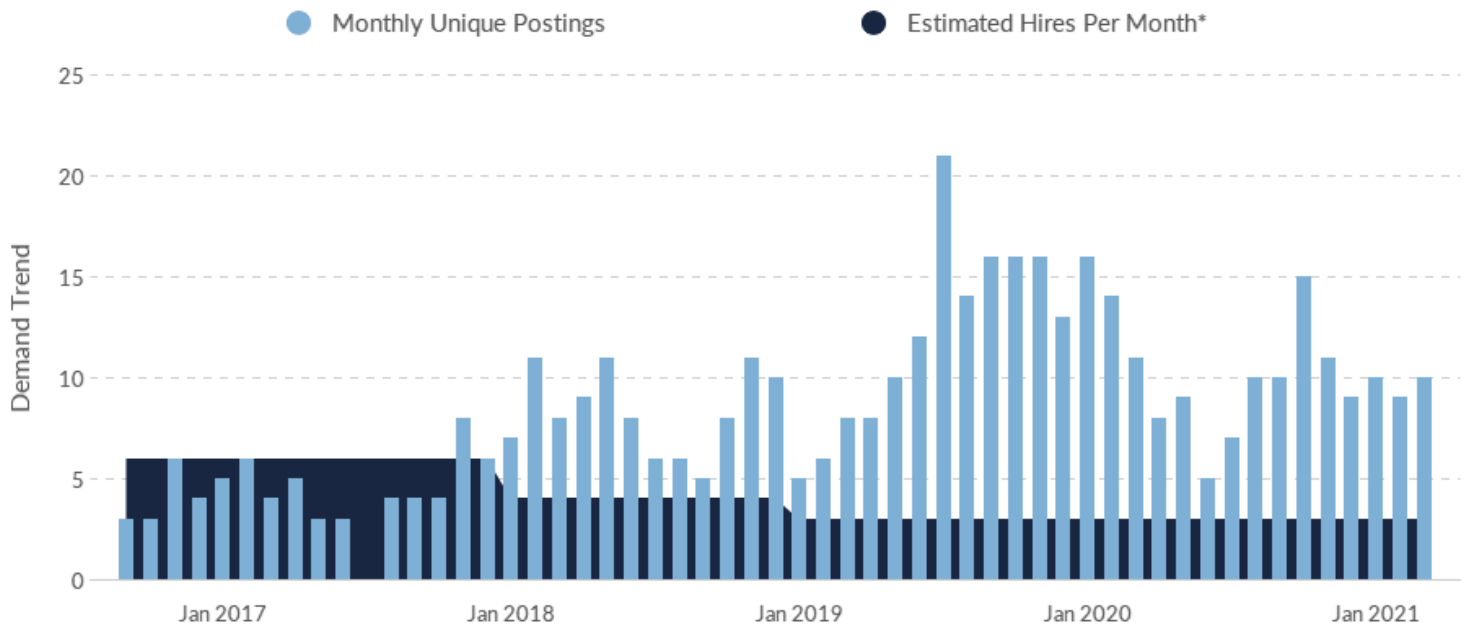The number of unique postings for this job from Jan 2020 to Mar 2021.

28 Employers Competing

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

30 Day Median Duration

Posting duration is 3 days shorter than what's typical in the region.

● Monthly Unique Postings   ● Estimated Hires Per Month*

Occupation	Avg Monthly Postings (Jan 2020 - Mar 2021)	Avg Monthly Hires (Jan 2020 - Mar 2021)
Electrical and Electronic Engineering Technologists and Technicians	10	3

*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	
University of Texas Rio Grande ...	4		Electronics Technicians	15	
Army National Guard	3		Engineering Technicians	3	
Abarca Health LLC	2		Instrument Technicians	3	
Aleut Management Services, LLC	2		Small Arms/Artillery Repairers	3	
Dish Network L.L.C.	2		Instrument and Controls Technic...	2	
Magic Valley Electric Cooperativ...	2		Safety Officers	2	
National Aerospace Solutions, L...	2		Solutions Technicians	2	
Peraton	2		Automotive Technicians	1	
Raytheon Company	2		Business Integration Managers	1	
United States Department of th...	2		Business Intelligence Interns	1	

Top Hard Skills

● Frequency in Job Postings   ● Frequency in Profiles
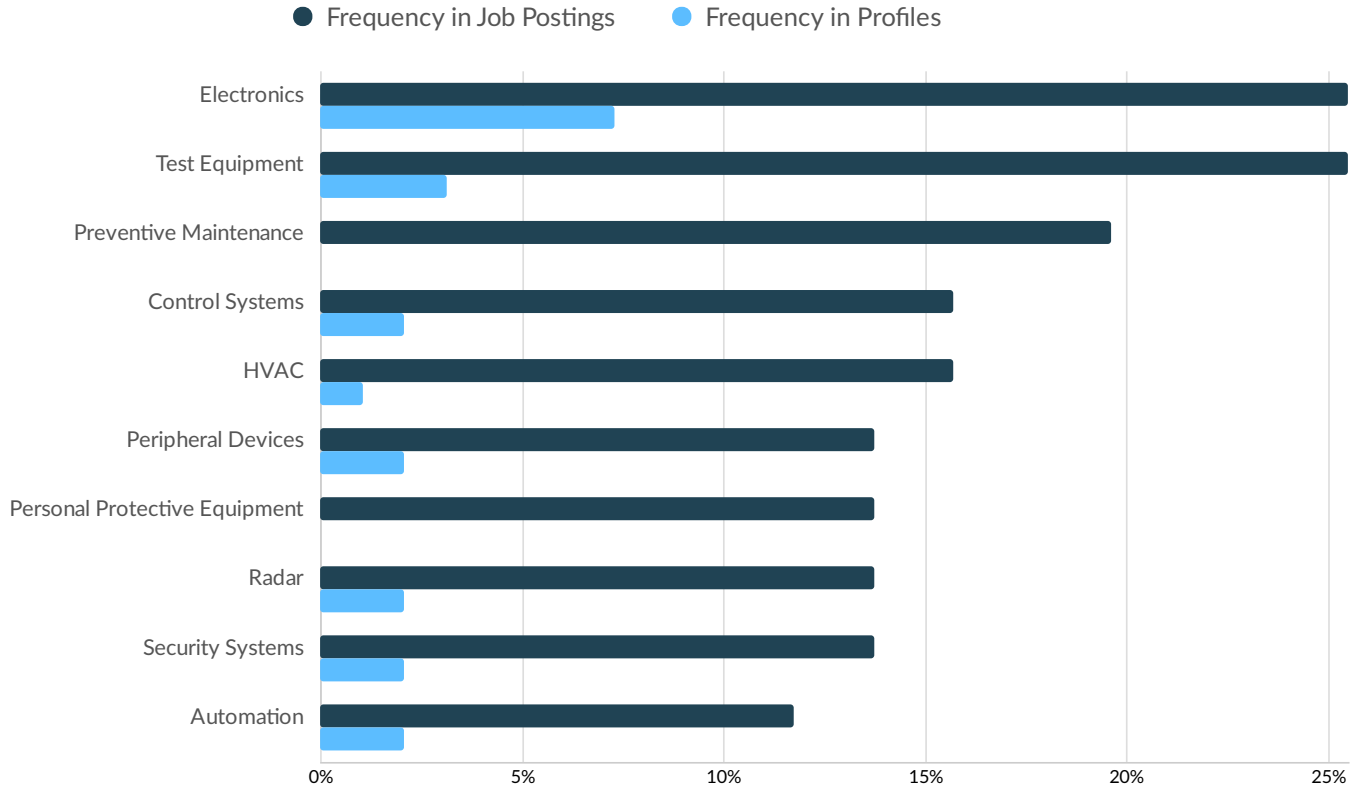
Skills	Postings	% of Total Postings	Profiles	% of Total Profiles
Electronics	13	25%	7	7%
Test Equipment	13	25%	3	3%
Preventive Maintenance	10	20%	0	0%
Control Systems	8	16%	2	2%
HVAC	8	16%	1	1%
Peripheral Devices	7	14%	2	2%
Personal Protective Equipment	7	14%	0	0%
Radar	7	14%	2	2%
Security Systems	7	14%	2	2%
Automation	6	12%	2	2%

Top Common Skills

● Frequency in Job Postings   ● Frequency in Profiles
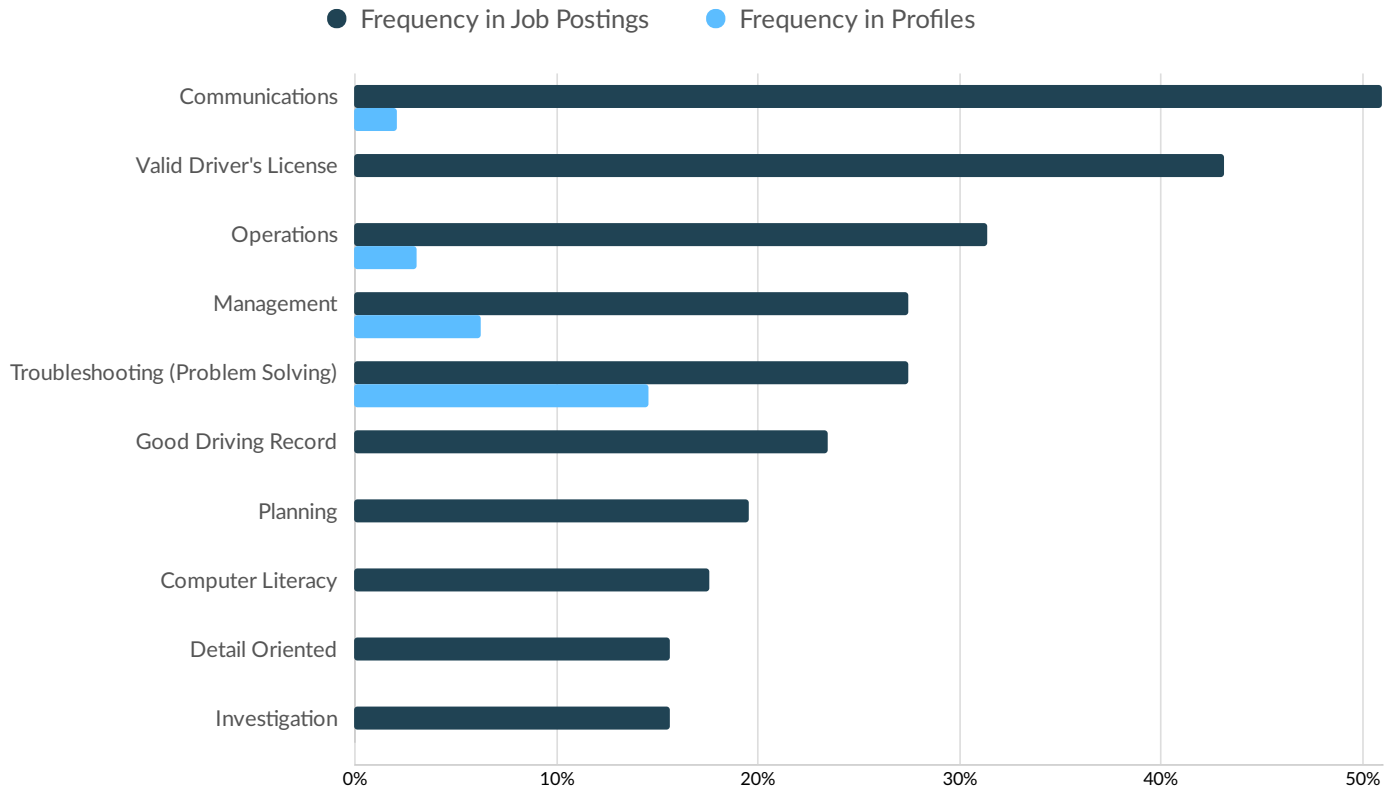
Skills	Postings	% of Total Postings	Profiles	% of Total Profiles
Communications	26	51%	2	2%
Valid Driver's License	22	43%	0	0%
Operations	16	31%	3	3%
Management	14	27%	6	6%
Troubleshooting (Problem Solving)	14	27%	14	15%
Good Driving Record	12	24%	0	0%
Planning	10	20%	0	0%
Computer Literacy	9	18%	0	0%
Detail Oriented	8	16%	0	0%
Investigation	8	16%	0	0%

Demographics

Retirement Risk Is Low, While Overall Diversity Is High
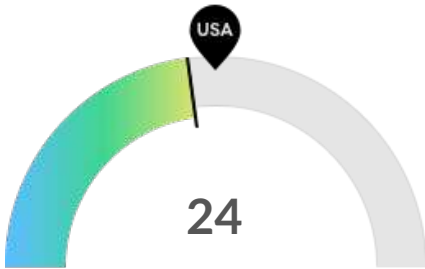
24
Retiring Soon

Retirement risk is low in your area. The national average for an area this size is 27* employees 55 or older, while there are 24 here.
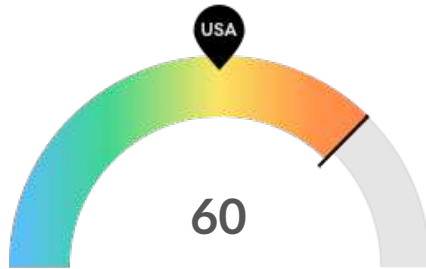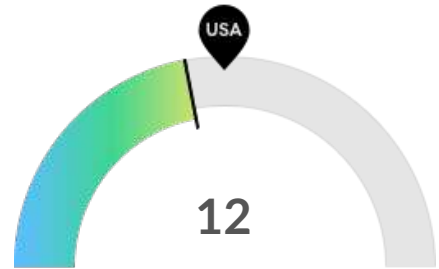
60
Racial Diversity

Racial diversity is high in your area. The national average for an area this size is 30* racially diverse employees, while there are 60 here.

12
Gender Diversity

Gender diversity is low in your area. The national average for an area this size is 14* female employees, while there are 12 here.

*National average values are derived by taking the national value for Electrical and Electronic Engineering Technologists and Technicians 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%	0
19-24	7.6%	7
25-34	18.3%	16
35-44	22.9%	20
45-54	23.7%	21
55-64	21.9%	19
65+	5.3%	5
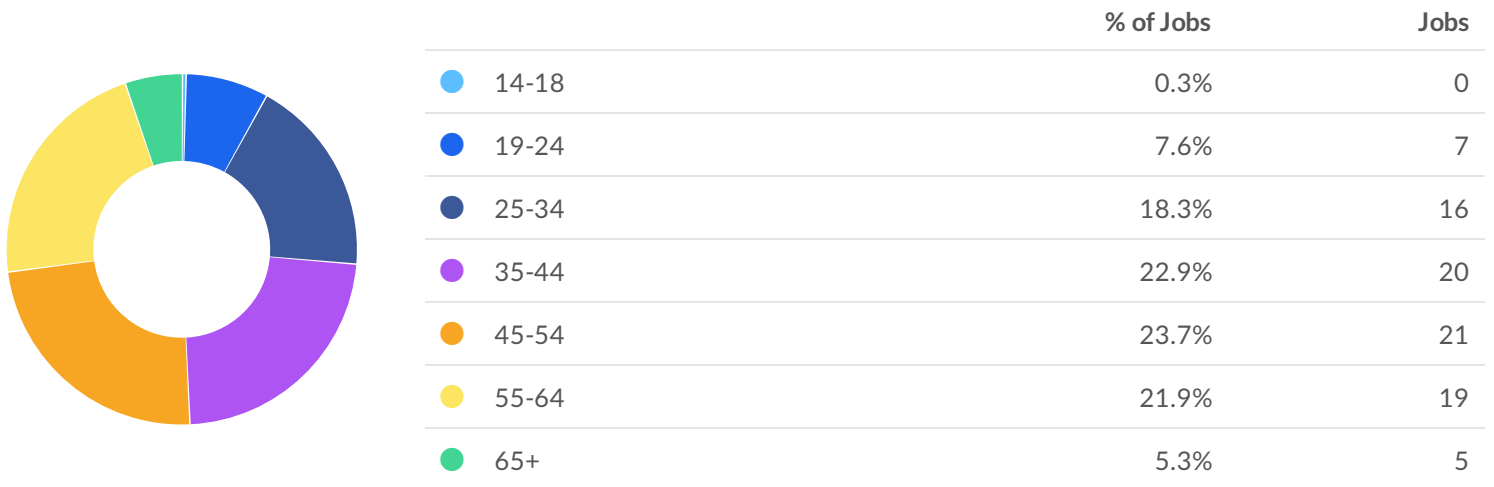
Occupation Race/Ethnicity Breakdown
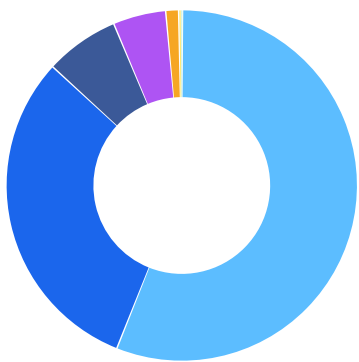
		% of Jobs	Jobs
●	Hispanic or Latino	56.0%	49
●	White	30.8%	27
●	Black or African American	6.8%	6
●	Asian	4.9%	4
●	Two or More Races	1.2%	1
●	American Indian or Alaska Native	0.2%	0
●	Native Hawaiian or Other Pacific Islander	0.1%	0

Occupation Gender Breakdown
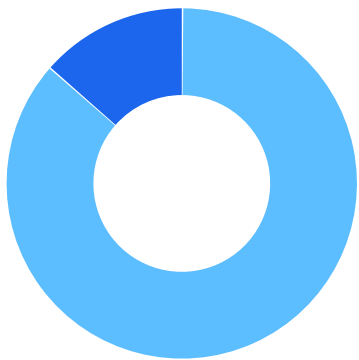
		% of Jobs	Jobs
●	Males	86.4%	75
●	Females	13.6%	12

National Educational Attainment
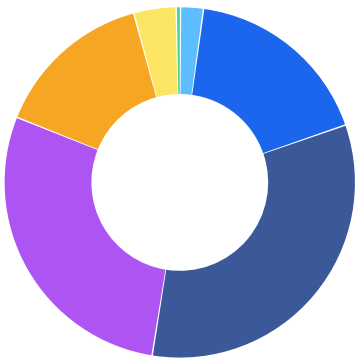
		% of Jobs
🔵	Less than high school diploma	2.1%
🔵	High school diploma or equivalent	17.5%
🔵	Some college, no degree	32.8%
🟣	Associate's degree	28.5%
🟠	Bachelor's degree	14.7%
🟡	Master's degree	3.9%
🟢	Doctoral or professional degree	0.4%

Occupational Programs

3 Programs

Of the programs that can train for this job, 3 have produced completions in the last 5 years.

74 Completions (2019)

The completions from all regional institutions for all degree types.

9 Openings (2019)

The average number of openings for an occupation in the region is 51.

CIP Code	Top Programs	Completions (2019)	
15.1202	Computer Technology/Computer Systems Technology	48	
15.1201	Computer Engineering Technology/Technician	17	
15.0000	Engineering Technology, General	9	

Top Schools	Completions (2019)	
South Texas College	65	
The University of Texas Rio Grande Valley	9	

Appendix A - 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 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.