

# Business Case

Emsi Q4 2020 Data Set

December 2020



Texas

# Parameters

## Industries:

Code	Description	Code	Description
3331	Agriculture, Construction, and Mining Machinery Manufacturing	3335	Metalworking Machinery Manufacturing
3332	Industrial Machinery Manufacturing	3336	Engine, Turbine, and Power Transmission Equipment Manufacturing
3333	Commercial and Service Industry Machinery Manufacturing	3339	Other General Purpose Machinery Manufacturing
3334	Ventilation, Heating, Air-Conditioning, and Commercial Refrigeration Equipment Manufacturing		

## Regions:

Code	Description	Code	Description
78123	Mc Queeney, TX (in Guadalupe county)	78156	Seguin, TX (in Guadalupe county)
78155	Seguin, TX (in Guadalupe county)		

Datarun: 2020.4 - QCEW Employees, Non-QCEW Employees, and Self-Employed

## 7 Manufacturing for 3 Texas ZIPs vs. Nation

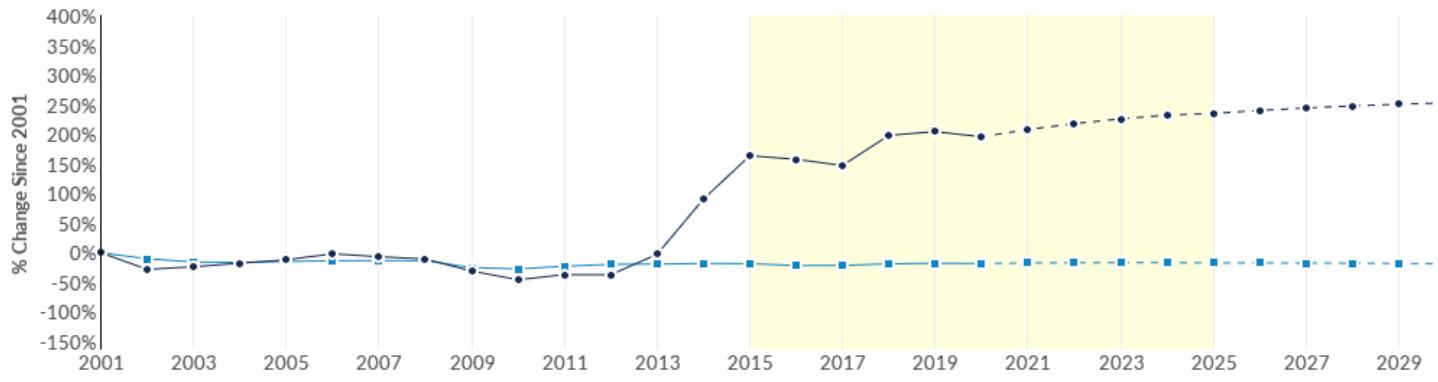


### Executive Summary

<p><b>1,340</b> Jobs</p> <p>Jobs <b>increased by 145</b> over the last 5 years. Projected <b>to increase by 179</b> over the next 5 years.</p>	<p><b>9.66</b> Concentration</p> <p>Regional job concentration is <b>9.66 times</b> the national job concentration.</p>	<p><b>\$88.8K</b> Earnings Per Job</p> <p>Regional earnings per job are <b>\$447.8 below</b> the national earnings per job of \$89.2K.</p>
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- Jobs for your selected industries increased by 145 jobs (12.1%) from 2015-2020, outpacing the national growth rate of 0.3%. The industries are projected to increase by 179 jobs (13.3%) from 2020-2025, outpacing the national growth rate of 1.2%.
- Regional job concentration for your selected industries is 9.66 times the national job concentration. In other words, there are 866% more jobs at your selected industries in this region than we would expect to find in the average region.
- Cost of labor in the region is below average. The regional earnings per job for your selected industries is \$88.8K, which is \$447.8 below the national average of \$89.2K.

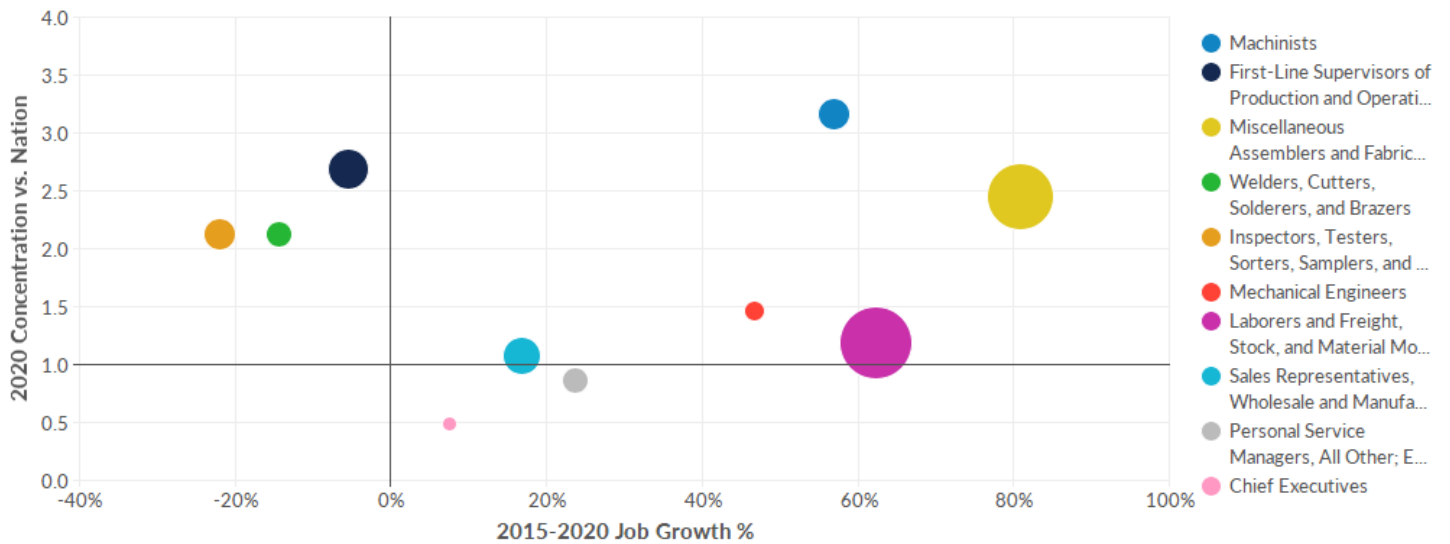
# Regional Trends



Region	2015 Jobs	2020 Jobs	2025 Jobs	Change	2015-2020 Growth %	2020-2025 Growth %
● 3 Texas ZIPs	1,195	1,340	1,519	324	12.1%	13.4%
■ Nation	1,126,059	1,129,389	1,142,843	16,784	0.3%	1.2%

# Workforce Availability

Key occupations for your selected industries have an overall concentration of **1.86**, indicating above average workforce availability. These occupations experienced overall job growth of **27.8%** from 2015-2020, indicating that the regional talent pool is increasing.



SOC	Key Occupation	Concentration	2015 Jobs	2020 Jobs	2025 Jobs	Median Hourly Earnings	Average Hourly Earnings
51-4041	Machinists	3.16	97	152	175	\$22.70/hr	\$23.47/hr
51-1011	First-Line Supervisors of Production and Operating Workers	2.69	226	213	226	\$27.74/hr	\$30.40/hr
51-2098	Miscellaneous Assemblers and Fabricators	2.45	228	412	418	\$12.54/hr	\$13.67/hr
51-4121	Welders, Cutters, Solderers, and Brazers	2.13	134	114	117	\$19.55/hr	\$21.38/hr
51-9061	Inspectors, Testers, Sorters, Samplers, and Weighers	2.12	197	153	149	\$17.56/hr	\$19.21/hr
17-2141	Mechanical Engineers	1.46	39	57	66	\$40.16/hr	\$47.94/hr
53-7062	Laborers and Freight, Stock, and Material Movers, Hand	1.19	277	449	477	\$12.49/hr	\$13.51/hr
41-4012	Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific Products	1.08	162	189	206	\$28.84/hr	\$32.10/hr
	Total	1.86	1,452	1,855	1,964		\$22.08/hr

11-9198	Personal Service Managers, All Other; Entertainment and Recreation Managers, Except Gambling; and Managers, All Other	0.86	79	98	111	\$29.72/hr	\$37.73/hr
11-1011	Chief Executives	0.48	15	16	18	\$64.72/hr	\$81.04/hr
	Total	1.86	1,452	1,855	1,964		\$22.08/hr

## Supply Chain Requirements

21%

Satisfied In-Region

21% of the goods and services that your selected industries require to operate are provided within the region.

NAICS	Industry	Total Requirements	% Satisfied In-Region
333618	Other Engine Equipment Manufacturing	\$25,341,473	93.1%
551114	Corporate, Subsidiary, and Regional Managing Offices	\$19,173,693	19.2%
336320	Motor Vehicle Electrical and Electronic Equipment Manufacturing	\$14,699,347	0.0%
331110	Iron and Steel Mills and Ferroalloy Manufacturing	\$10,402,915	78.1%
423830	Industrial Machinery and Equipment Merchant Wholesalers	\$8,546,706	15.4%
331511	Iron Foundries	\$8,383,539	0.0%
336310	Motor Vehicle Gasoline Engine and Engine Parts Manufacturing	\$7,108,383	0.0%
333613	Mechanical Power Transmission Equipment Manufacturing	\$5,709,984	0.0%
332111	Iron and Steel Forging	\$5,308,320	16.1%
336390	Other Motor Vehicle Parts Manufacturing	\$4,947,308	0.0%

# Appendix A - Data Sources and Calculations

## ZIP Code Data Disclaimer

Due to a lack of source data at the ZIP code level, Emsi's ZIP-level estimates can be less accurate when looking at a small number of ZIP codes. This is especially likely to occur in rural areas.

## Industry Data

Emsi industry data have various sources depending on the class of worker. (1) For QCEW Employees, Emsi primarily uses the QCEW (Quarterly Census of Employment and Wages), with supplemental estimates from County Business Patterns. (2) Non-QCEW employees data are based on a number of sources including QCEW, Current Employment Statistics, County Business Patterns, BEA State and Local Personal Income reports, the National Industry-Occupation Employment Matrix (NIOEM), the American Community Survey, and Railroad Retirement Board statistics. (3) Self-Employed and Extended Proprietor classes of worker data are primarily based on the American Community Survey, Nonemployer Statistics, and BEA State and Local Personal Income Reports. Projections for QCEW and Non-QCEW Employees are informed by NIOEM and long-term industry projections published by individual states.

## 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.

## Input-Output Data

The input-output model in this report is Emsi's gravitational flows multi-regional social account matrix model (MR-SAM). It is based on data from the Census Bureau's Current Population Survey and American Community Survey; as well as the Bureau of Economic Analysis' National Income and Product Accounts, Input-Output Make and Use Tables, and Gross State Product data. In addition, several Emsi in-house data sets are used, as well as data from Oak Ridge National Labs on the cost of transportation between counties.

## State Data Sources

This report uses state data from the following agencies: Texas Workforce Commission