



Industry Spotlight

Pharmaceutical and Medicine Manufacturing

30 Minute Drive-time - Sugar Land



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Pharmaceutical and Medicine Manufacturing 30 Minute Drive-time - Sugar Land – 2022Q1

EMPLOYMENT



3,110

Regional employment / **336,768** in the nation

WAGES

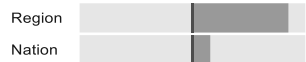


\$144,200

Avg Wages per Worker / **\$123,863** in the nation

12.0% ↑

Avg Ann % Change Last 10 Years / **+2.2%** in the US



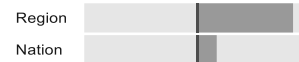
0.1%

% of Total Employment / **0.2%** in the US

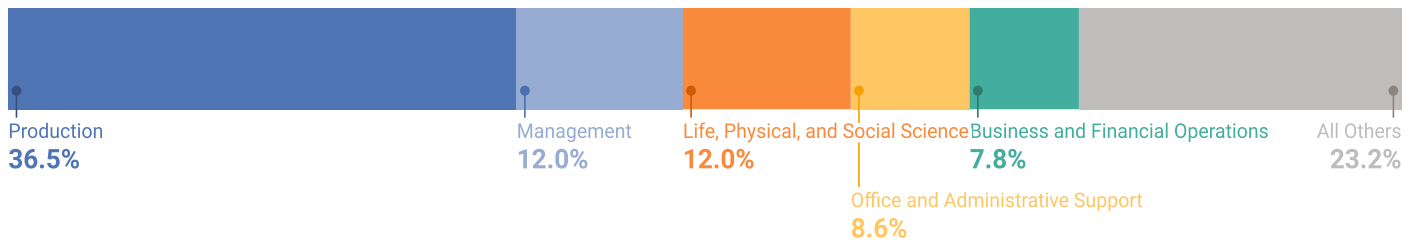


8.7% ↑

Avg Ann % Change Last 10 Years / **+1.8%** in the US

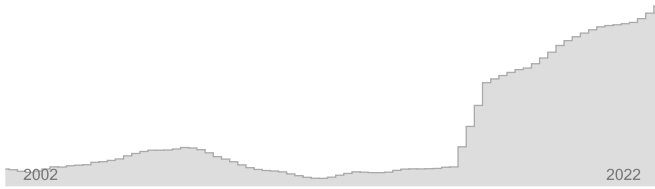


TOP OCCUPATION GROUPS

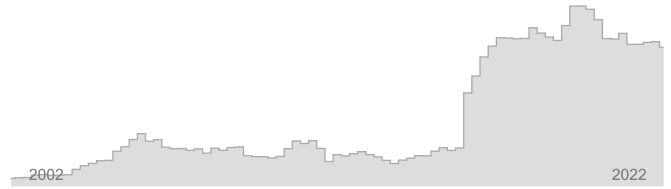


Industry Snapshot


EMPLOYMENT



WAGES

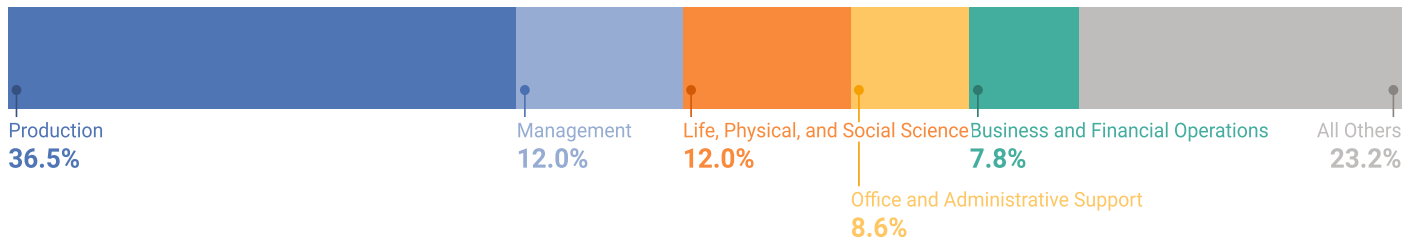


4-Digit Industry	Empl	Avg Ann Wages	LQ	5yr History	Annual Demand	Forecast Ann Growth
Pharmaceutical and Medicine Manufacturing	3,110	\$144,200	0.51		342	1.5%

 Employment is one of the broadest and most timely measures of a region's economy. Fluctuations in the number of jobs shed light on the health of an industry. A growing employment base creates more opportunities for regional residents and helps a region grow its population.

 Since wages and salaries generally compose the majority of a household's income, the annual average wages of a region affect its average household income, housing market, quality of life, and other socioeconomic indicators.

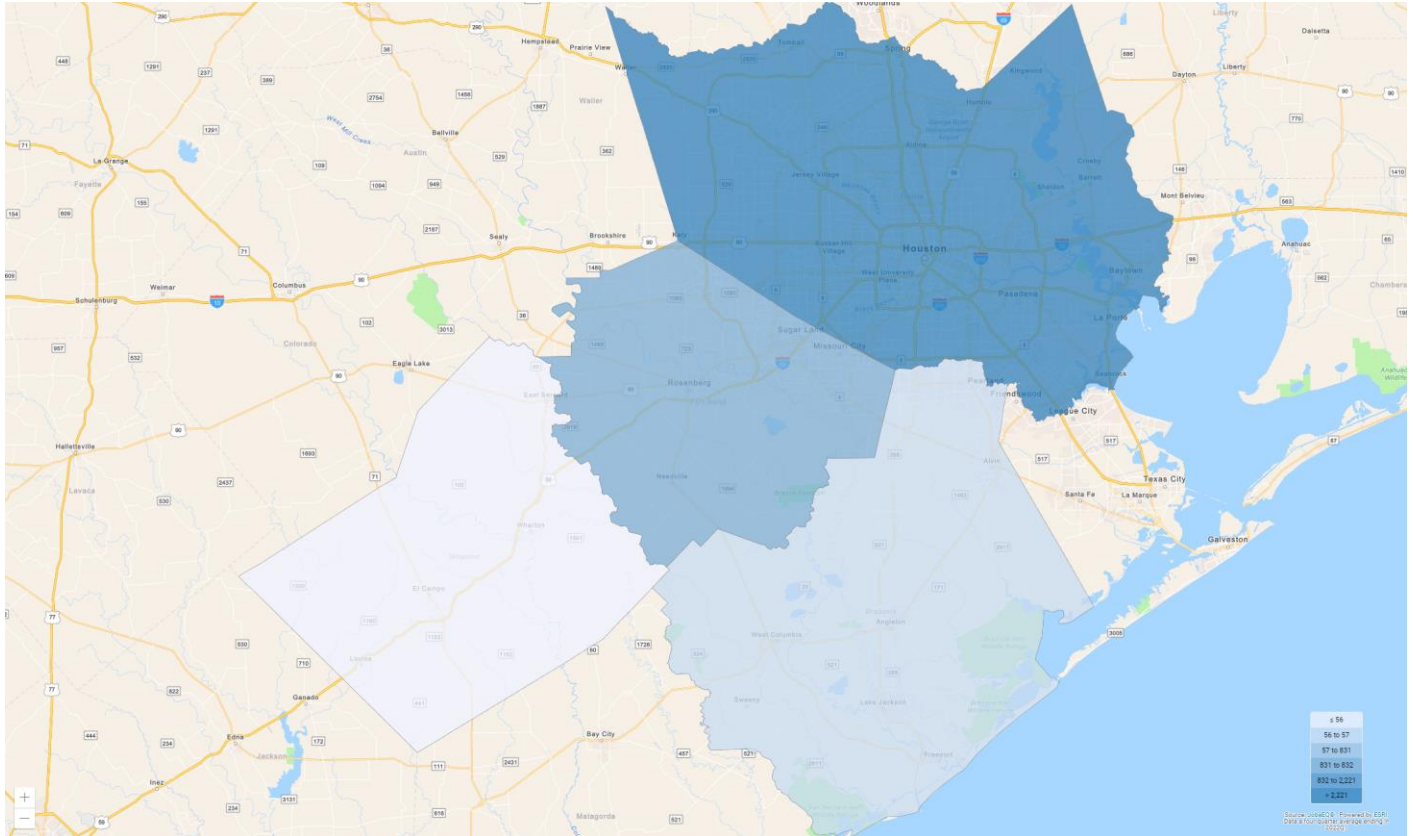
Staffing Pattern



6-digit Occupation	Empl	Avg Ann Wages	Annual Demand
Packaging and Filling Machine Operators and Tenders	309	\$35,800	40
Chemical Equipment Operators and Tenders	237	\$67,900	26
Inspectors, Testers, Sorters, Samplers, and Weighers	172	\$49,400	19
First-Line Supervisors of Production and Operating Workers	131	\$79,700	16
Mixing and Blending Machine Setters, Operators, and Tenders	97	\$37,800	13
Chemists	95	\$102,600	12
General and Operations Managers	87	\$153,400	9
Industrial Engineers	71	\$105,900	8
Laborers and Freight, Stock, and Material Movers, Hand	63	\$36,600	10
Industrial Machinery Mechanics	62	\$71,100	8
Remaining Component Occupations	1,771	\$76,700	200
Total	3,097		

 The mix of occupations points to the ability of a region to support an industry and its flexibility to adapt to future demand. Industry wages are a component of the cost of labor for regional employers.

Geographic Distribution



Region	Empl	Region	Empl
Harris County, Texas	2,222	Brazoria County, Texas	57
Fort Bend County, Texas	832		

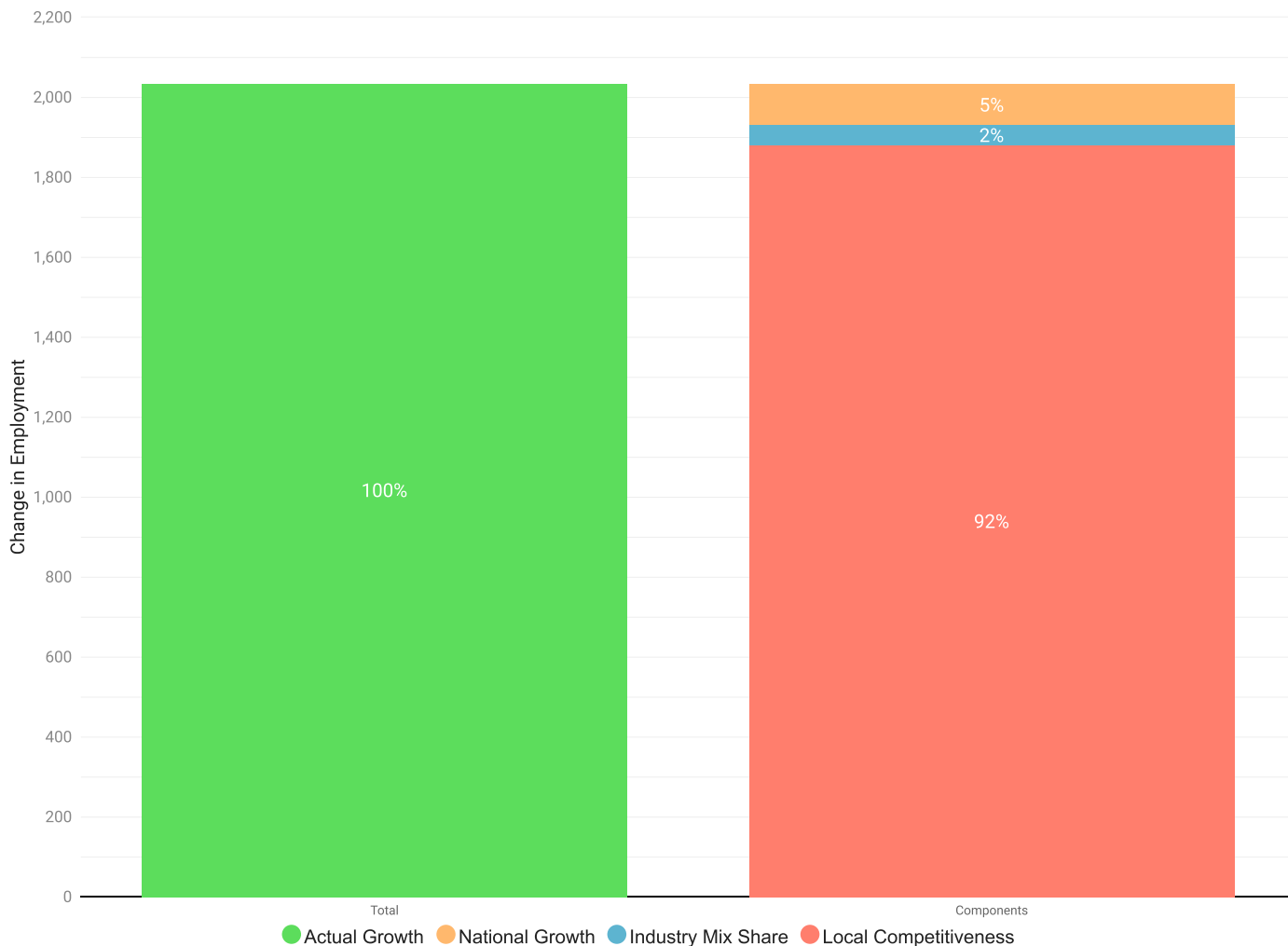
Source: JobsEQ®

💡 The geographic distribution of industry employment by place of work illustrates the impact on labor force demand and commuting patterns.



Drivers of Employment Growth

Over the ten years ending 2021, employment in Pharmaceutical and Medicine Manufacturing for the 30 Minute Drive-time - Sugar Land added 2,035 jobs. After adjusting for national growth during this period and industry mix share, the part of this employment change due to local competitiveness was a gain of 1,881 jobs—meaning this industry was more competitive than its national counterpart during this period.

Drivers of Employment Growth for 30 Minute Drive-time - Sugar Land



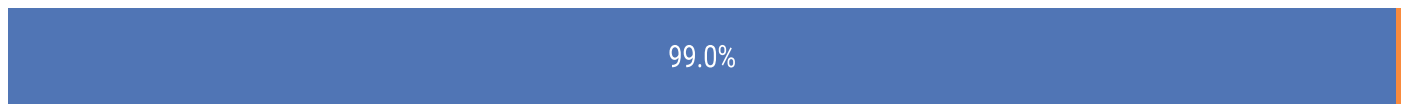
Source: JobsEQ®, Data as of 2021Q4



-  Shift-share analysis sheds light on the factors that drive regional employment growth in an industry. A positive change in local competitiveness indicates advantages that may be due to factors such as superior technology, management, and labor pool, etc.
-  National growth is due to the overall growth or contraction in the national economy. Industry mix share is the growth attributable to the specific industries examined (based on national industry growth patterns and the industry mix of the region).

Employment Distribution by Type

The table below shows the employment mix by ownership type for Pharmaceutical and Medicine Manufacturing for the 30 Minute Drive-time - Sugar Land. Four of these ownership types — federal, state, and local government and the private sector — together constitute “Covered Employment” (employment covered by the Unemployment Insurance programs of the United States and reported via the Quarterly Census of Employment and Wages).

“Self-Employment” refers to unincorporated self-employment and represents workers whose primary job is self-employment (that is, these data do not include workers whose primary job is a wage-and-salary position that is supplemented with self-employment).



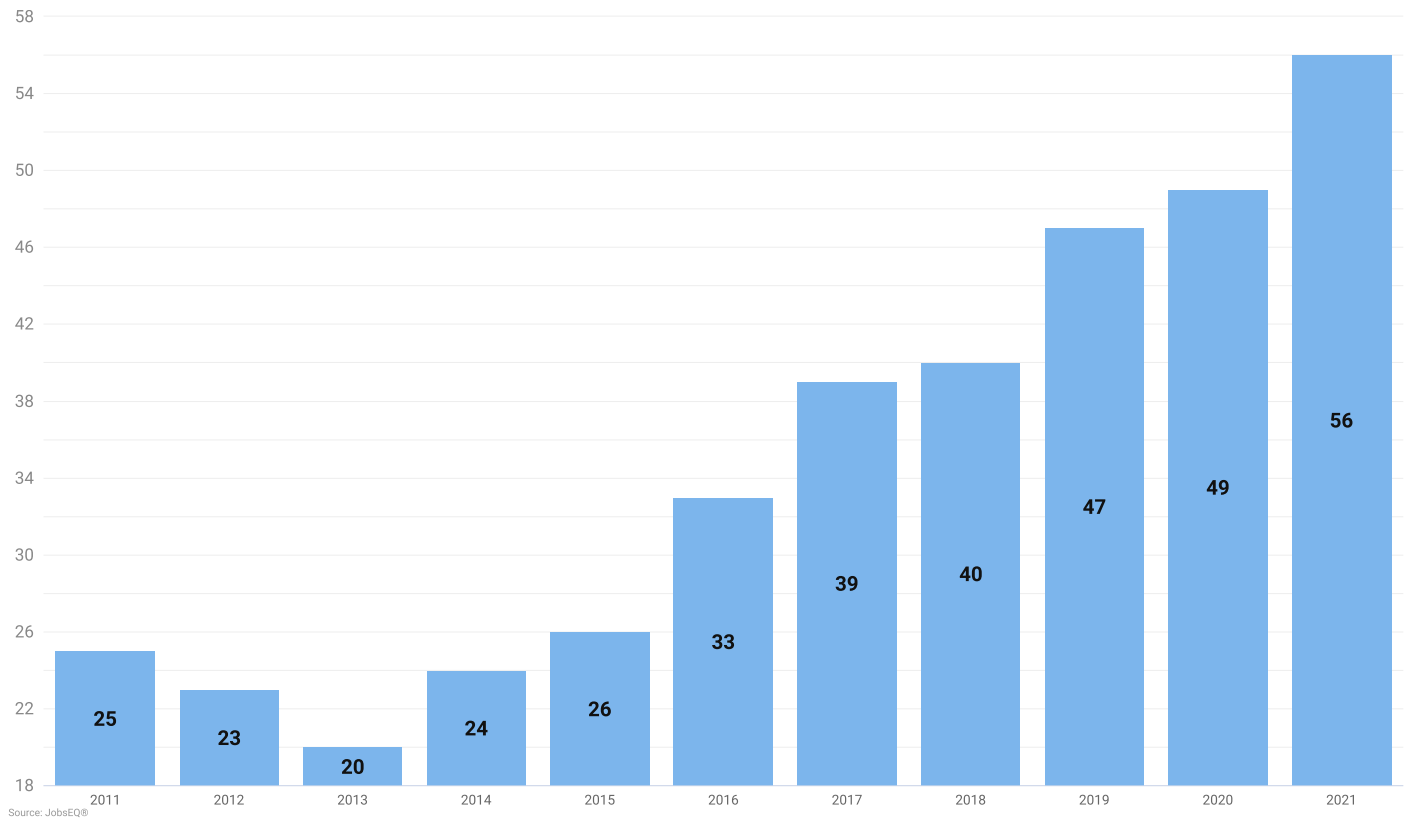
	Empl	%
 Private	3,080	99.0%
 Self-Employment	31	1.0%


Source: JobsEQ®

 Strong entrepreneurial activity is indicative of growing industries. Using self-employment as a proxy for entrepreneurs, a higher share of self-employed individuals within a regional industry points to future growth.

Establishments

In 2021, there were 56 Pharmaceutical and Medicine Manufacturing establishments in the 30 Minute Drive-time - Sugar Land (per covered employment establishment counts), an increase from 25 establishments ten years earlier in 2011.

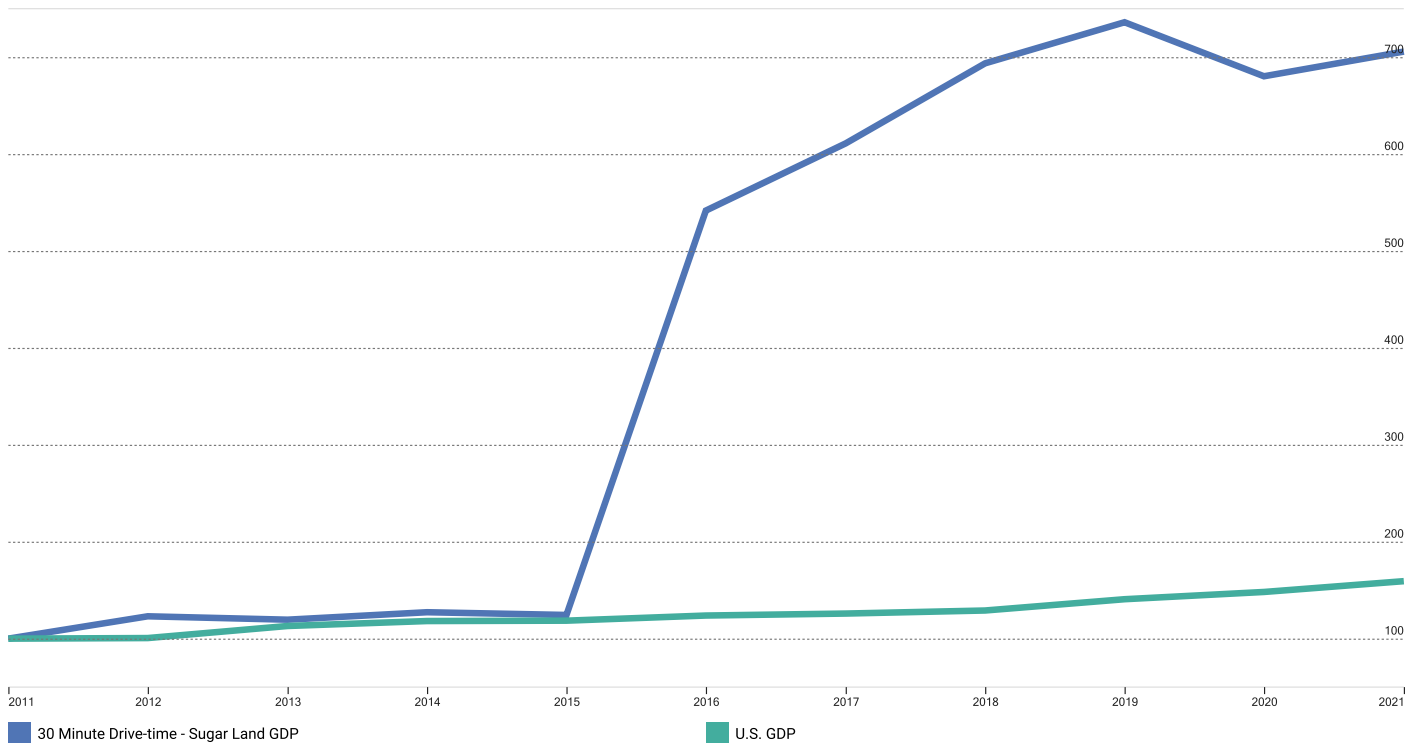


 New business formations are an important source of job creation in a regional economy, spurring innovation and competition, and driving productivity growth. Establishment data can provide an indicator of growth in businesses by counting each single location (such as a factory or a store) where business activity takes place, and with at least one employee.

GDP & Productivity

In 2021, Pharmaceutical and Medicine Manufacturing produced \$2.3 billion in GDP for the 30 Minute Drive-time - Sugar Land.

GDP: Indexed 2011 = 100



0.5 %

Industry Share of Total GDP /
0.9 % in the nation



21.6 % ↑

Avg Ann % Change Last 10 Yrs /
4.8 % in the nation



\$786k

Output per Worker /
\$749k in the nation



💡 Gross domestic product (GDP) is the most comprehensive measure of regional economic activity, and an industry's contribution to GDP is an important indicator of regional industry strength. It is a measure of total value-added to a regional economy in the form of labor income, proprietor's income, and business profits, among others. GDP values shown on this page are nominal GDP data.

💡 Growth in productivity (output per worker) leads to increases in wealth and higher average standards of living in a region.

Supply Chain: Top Suppliers

As of 2022Q1, Pharmaceutical and Medicine Manufacturing in the 30 Minute Drive-time - Sugar Land are estimated to make \$610.7 million in annual purchases from suppliers in the United States with about 66% or \$400.1 million of these purchases being made from businesses located in the 30 Minute Drive-time - Sugar Land.



4-digit Supplier Industries	Purchases from In-Region (\$M)	Purchases from Out-of-Region (\$M)
Pharmaceutical and Medicine Manufacturing	\$121.4	\$126.9
Management of Companies and Enterprises	\$42.0	<\$0.1
Basic Chemical Manufacturing	\$38.4	\$1.9
Legal Services	\$17.6	\$0.5
Management, Scientific, and Technical Consulting Services	\$15.8	\$0.8
Remaining Supplier Industries	\$164.9	\$80.5
Total	\$400.1	\$210.6

 Supplier-buyer networks can indicate local linkages between industries, regional capacity to support growth in an industry, and potential leakage of sales out of the region.

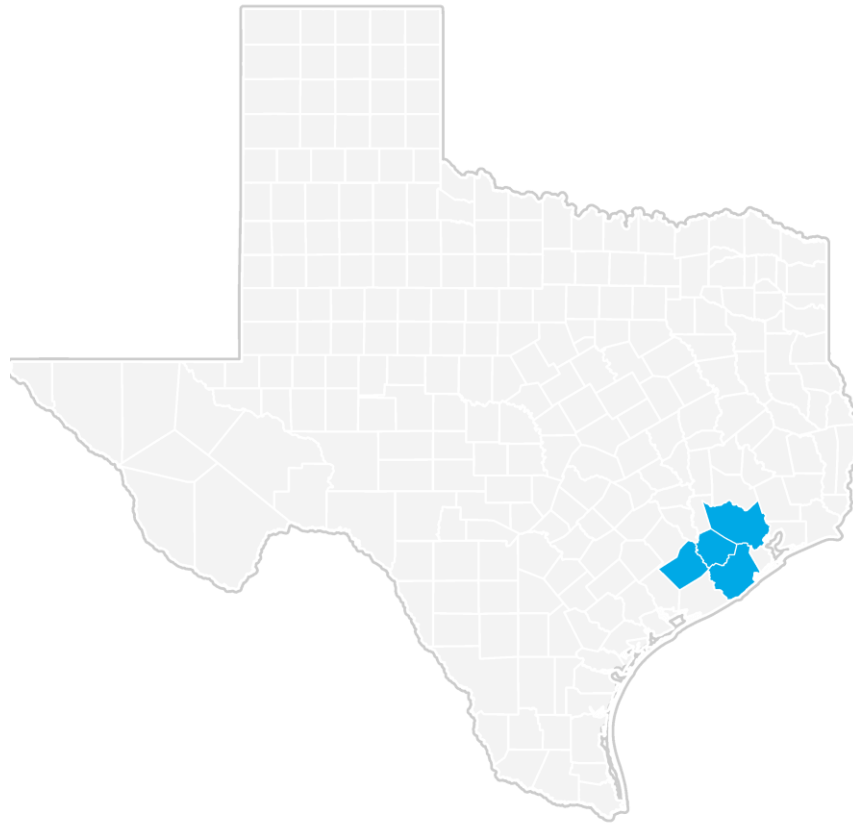
Postsecondary Programs Linked to Pharmaceutical and Medicine Manufacturing

Program	Awards
Alvin Community College	
Chemical Technology/Technician	133
Brazosport College	
Chemical Technology/Technician	193
Houston Community College	
Chemical Technology/Technician	71
Lee College	
Chemical Technology/Technician	262
Rice University	
Biochemistry	86
Chemistry, General	73
San Jacinto Community College	
Chemical Technology/Technician	509
University of Houston	
Biochemistry	111
Chemistry, General	57
Wharton County Junior College	
Chemical Technology/Technician	44

Source: [JobsEQ®](#)

-  The number of graduates from postsecondary programs in the region identifies the pipeline of future workers as well as the training capacity to support industry demand.
-  Among postsecondary programs at schools located in the 30 Minute Drive-time - Sugar Land, the sampling above identifies those most linked to occupations relevant to Pharmaceutical and Medicine Manufacturing. For a complete list see JobsEQ®, <http://www.chmuraecon.com/jobseq>

30 Minute Drive-time - Sugar Land Regional Map



Region Definition

30 Minute Drive-time - Sugar Land is defined as the following counties:

Brazoria County, Texas

Fort Bend County, Texas

Harris County, Texas

Wharton County, Texas

Data Notes

- Industry employment and wages (including total regional employment and wages) are as of 2022Q1 and are based upon BLS QCEW data, imputed by Chmura where necessary, and supplemented by additional sources including Census ZBP data. Employment forecasts are modeled by Chmura and are consistent with BLS national-level 10-year forecasts.
- Occupation employment is as of 2022Q1 and is based on industry employment and local staffing patterns calculated by Chmura and utilizing BLS OES data. Occupation wages are per the BLS OES data and are as of 2021.
- GDP is derived from BEA data and imputations by Chmura. Productivity (output per worker) is calculated by Chmura using industry employment and wages as well as GDP and BLS output data. Supply chain modeling including purchases by industry are developed by Chmura.
- Postsecondary awards are per the NCES and are for the 2019-2020 academic year.
- Establishment counts are per the BLS QCEW data.
- Figures may not sum due to rounding.

FAQ

What is (LQ) location quotient?

Location quotient is a measurement of concentration in comparison to the nation. An LQ of 1.00 indicates a region has the same concentration of an industry (or occupation) as the nation. An LQ of 2.00 would mean the region has twice the expected employment compared to the nation and an LQ of 0.50 would mean the region has half the expected employment in comparison to the nation.

What is annual demand?

Annual demand is a of the sum of the annual projected growth demand and separation demand. Separation demand is the number of jobs required due to separations—labor force exits (including retirements) and turnover resulting from workers moving from one occupation into another. Note that separation demand does not include all turnover—it does not include when workers stay in the same occupation but switch employers. Growth demand is the increase or decrease of jobs expected due to expansion or contraction of the overall number of jobs.

What is the difference between industry wages and occupation wages?

Industry wages and occupation wages are estimated via separate data sets, often the time periods being reported do not align, and wages are defined slightly differently in the two systems (for example, certain bonuses are included in the industry wages but not the occupation wages). It is therefore common that estimates of the average industry wages and average occupation wages in a region do not match exactly.