

South Texas College

Environmental Scan

August 2018

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Executive Summary

South Texas College (STC) is a public, two-year postsecondary educational institution in Southern Texas. Based in McAllen, STC serves students throughout Hidalgo, Cameron, and Starr Counties, an area referred to in this report as the STC Economic Region. The data presented in this report provide important context for STC when evaluating its current programs, considering potential new programs, and forming partnerships with local industries and employers to provide education and training to regional residents.

The population of the STC Economic Region in 2017 was 1,352,402, with 64% living in Hidalgo County, 31% living in Cameron County, and 5% living in Starr County. The region's population has grown 16% in the past ten years, and is projected to continue to grow. The region's jobs have grown 15% in the past ten years, and are also projected to grow. Below are some key findings of the environmental scan:

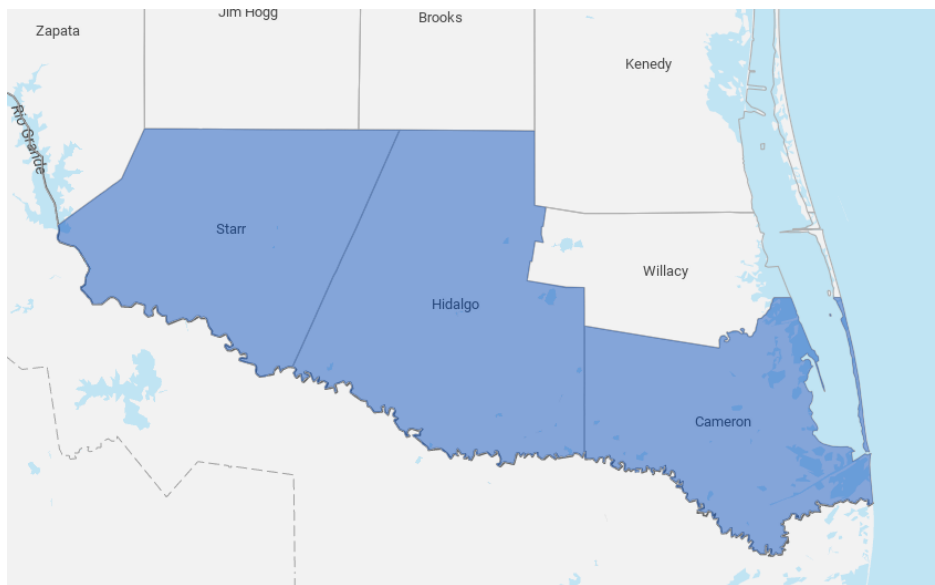
- Government industry sectors, such as local and federal government, account for large portions of the STC Economic Region's earnings, jobs, and exports. This is likely in part due to the region's proximity to the U.S.-Mexico border, the government resources required in the area, and the additional sales tax revenue occurring as a result of the strong flow of people throughout the region.
- Healthcare industry sectors are also strong in the STC Economic Region, although they contain concentrations of unemployed workers far exceeding the national average.
- Nearly twice as many residents in the STC Economic Region out-commute than in-commute, with 93% of occupational groups experiencing more residents out-commuting than staying employed in the region or non-resident workers commuting into the region.
- Over 91% of the population in the STC Economic Region identifies as Hispanic, and that proportion is expected to grow over the next decade. This ethnicity also has the lowest educational attainment in the region, with only 34% of adults having some sort of postsecondary degree or training.
- Residents of the STC Economic Region experience high poverty rates, with 29% of families in the region living below the poverty line. The median household income of \$35,147 in the region is lower than in many other border cities in Texas, and is 35% lower than the median household income in Texas.
- The most common credential offered by higher education institutions in the STC Economic Region are certificates, accounting for 40% of awards at or below the bachelor's degree level. Of all certificates offered, nearly half are in healthcare-related fields, although STC only accounts for 14% of healthcare certificates completed.
- The STC Economic Region's economy and population are affected by its proximity to Mexico, and are thus likely to be affected by policy concerning trade and immigration.

Environmental Scan

This environmental scan displays key information on the social and economic structure of the South Texas College Economic Region (STC Economic Region), which consists of Hidalgo, Cameron, and Starr Counties (Figure 1).

Identifying the economic conditions within the region is an important task for four reasons: 1) it helps STC understand where it should logically target its efforts, 2) it helps to reveal whether there are industries that may be overlooked as a result of recent economic growth, 3) it helps identify the top occupations within those key driving industries, and 4) it gives the college a deeper understanding of the region's population characteristics and the socioeconomic background of its current and future students. All of these reasons can give STC a better understanding of the region's workforce and how it is affected by historical, current, and projected economic conditions. To these ends, this environmental scan provides an overview of the region's industry composition, occupations within key industries, job growth, economic base, worker commuting patterns, population characteristics, educational attainment of residents, and other factors that have the potential to affect the region's economic growth. Supporting data tables are available in Appendix 2.

Figure 1: Map of the STC Economic Region



Source: Emsi Analyst.

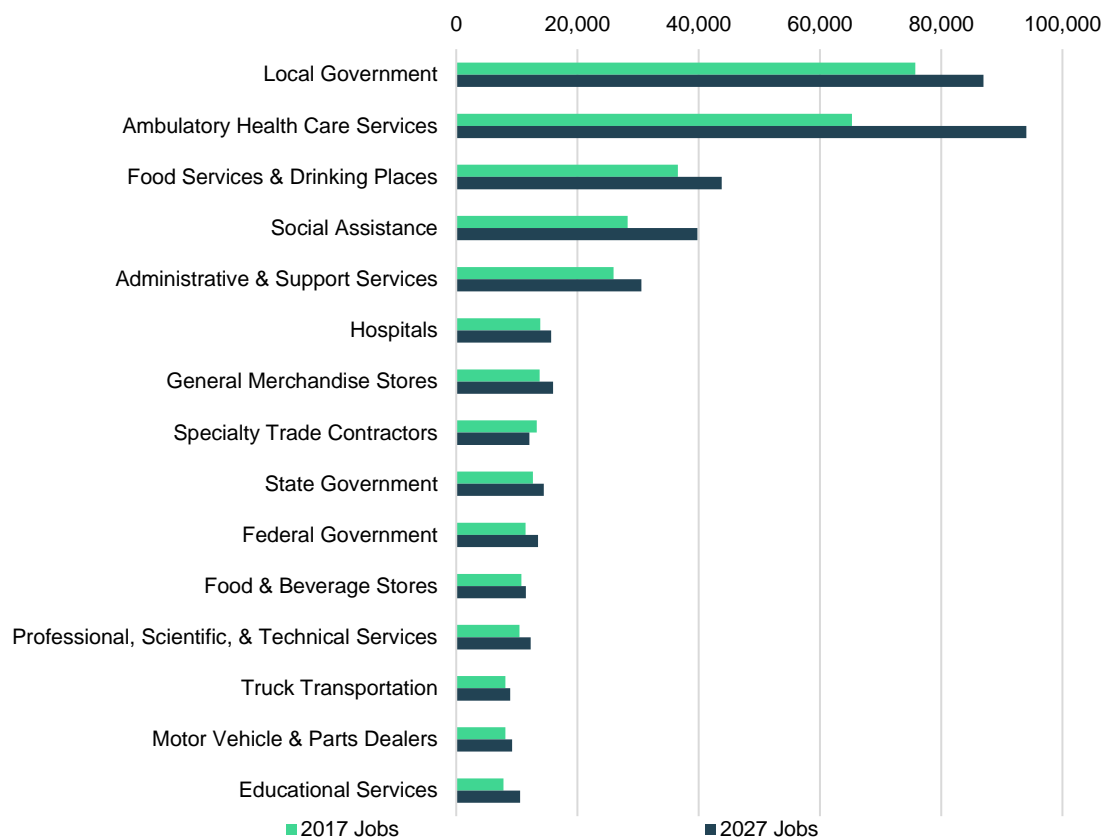
1. Industry Composition

Evaluating the region's industry composition, earnings, and employment provides information on the economic diversity of a given region. Understanding this is important for determining the occupations that are in demand in the region. The North American Industry Classification System (NAICS) is the structure used by federal agencies to classify business establishments based on their production

process (although the final product or service is usually similar for the firms in a given industry). NAICS applies a six-digit hierarchical coding system to organize more than 1,000 detailed industries in the U.S. For this analysis, Emsi has aggregated these detailed industries into their three-digit NAICS codes, referred to as industry subsectors.

Figure 2 presents the 15 largest industry subsectors in the STC Economic Region, by their 2017 job counts, and also shows the industry subsectors' projected growth or decline over the next decade. Job growth between 2017 and 2027 is calculated using a combination of government-published sources at the national, state, and regional levels and a combination of the short-, mid-, and long-term trend lines. For more detail across all three-digit industry subsectors, please refer to Appendix 2.

Figure 2: Jobs by Industry Subsector in the STC Economic Region, 2017 and 2027



Source: Emsi Employees & Self-Employed 2018.3.

As shown, the Local Government industry subsector had the highest number of jobs in the STC Economic Region in 2017. However, the next largest subsector in terms of jobs, Ambulatory Health Care Services, is predicted to become the largest industry subsector in the next ten years. Only one of these top industry subsectors, Specialty Trade Contractors, is expected to shrink over the next ten years.

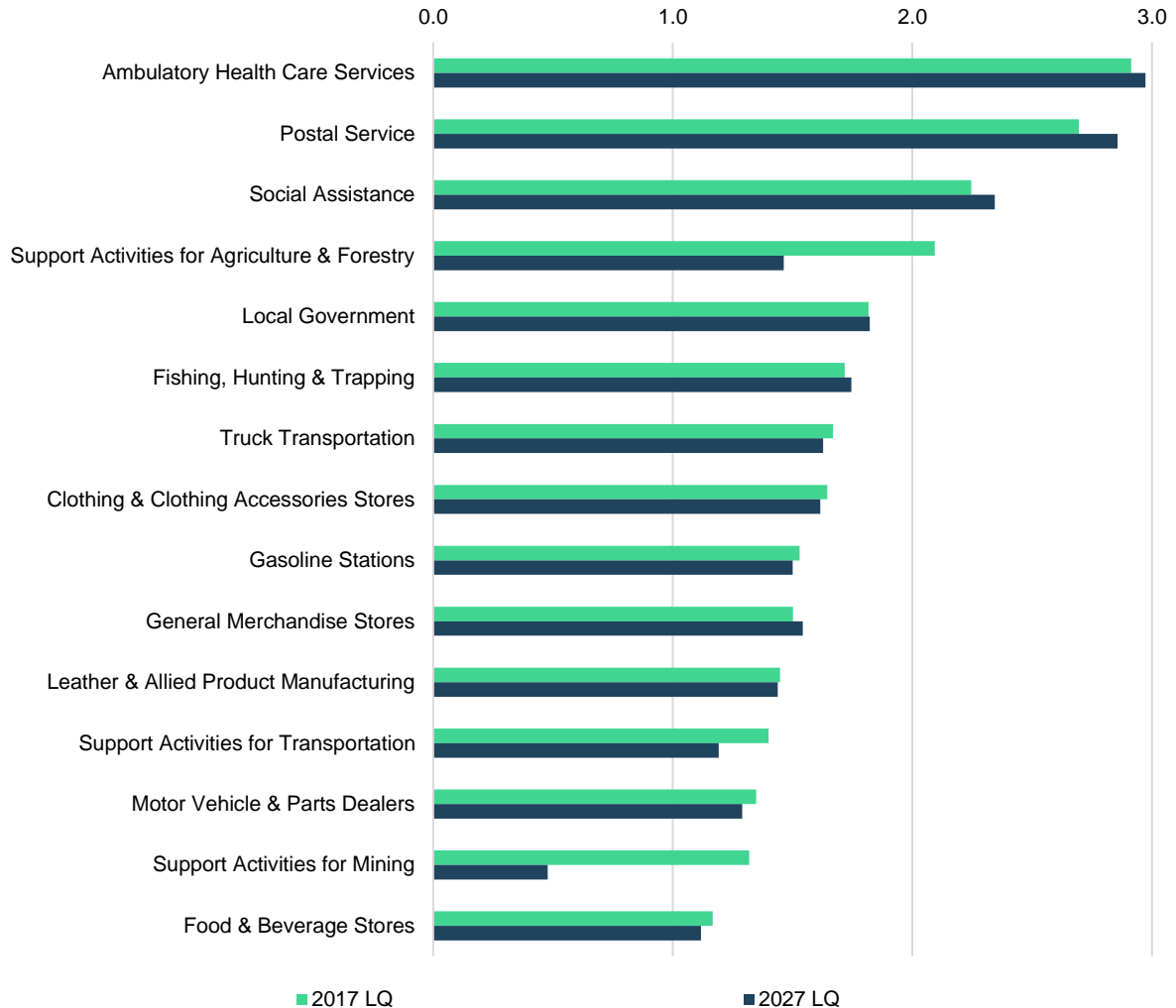
Figure 3 shows the employment concentration of the industry subsectors in the STC Economic Region, measured in terms of location quotients (LQs). LQs are used to assess national

competitiveness by comparing the concentration of employment in a given industry against the concentration of employment for that same industry across the nation. An LQ equal to one means that the percentage of total employment comprised by an industry in the region exactly matches the percentage of total employment comprised by that industry in the nation. An LQ greater than one means that the industry comprises a greater proportion of total employment in the region than it does in the nation.

High LQs (usually anything greater than 1.2) are an indication that the region has a comparative advantage or specialization in certain industry subsectors relative to the rest of the nation or potentially to other competing regions. For example, Ambulatory Health Care Services is almost 3 times more concentrated in the STC Economic Region than in the U.S. When evaluated jointly with job counts and expected job growth, high LQs can indicate the industry subsectors that have the greatest potential for workforce investment and where regional economic development professionals are likely to be focusing their efforts. This information is of particular importance to educators seeking to engage in larger conversations with other organizations about aligning program offerings with workforce needs.

As shown in Figure 3, the Ambulatory Health Care Services industry subsector has the largest LQ at 2.9 and is expected to grow slightly by 2027. The Postal Service; Social Assistance; and Support Activities for Agriculture & Forestry industry subsectors also have relatively large LQs. However, Support Activities for Agriculture & Forestry is expected to contract significantly in the region in the next ten years, as is Support Activities for Mining. While the Rio Grande Valley is well known for agriculture, thus explaining the high LQ for Support Activities for Agriculture & Forestry, crop production and other agricultural activities have been declining steadily in the region. At the same time, other industries, such as health care services, educational services, and various types of manufacturing have been increasing rapidly in the region, showing an overall shift in the region's industry composition. Mining activities have not declined in the region, but the need for mining support activities is projected to decline, which could suggest greater efficiencies in mining or a gradual contraction of the entire industry relative to other subsectors in the region.

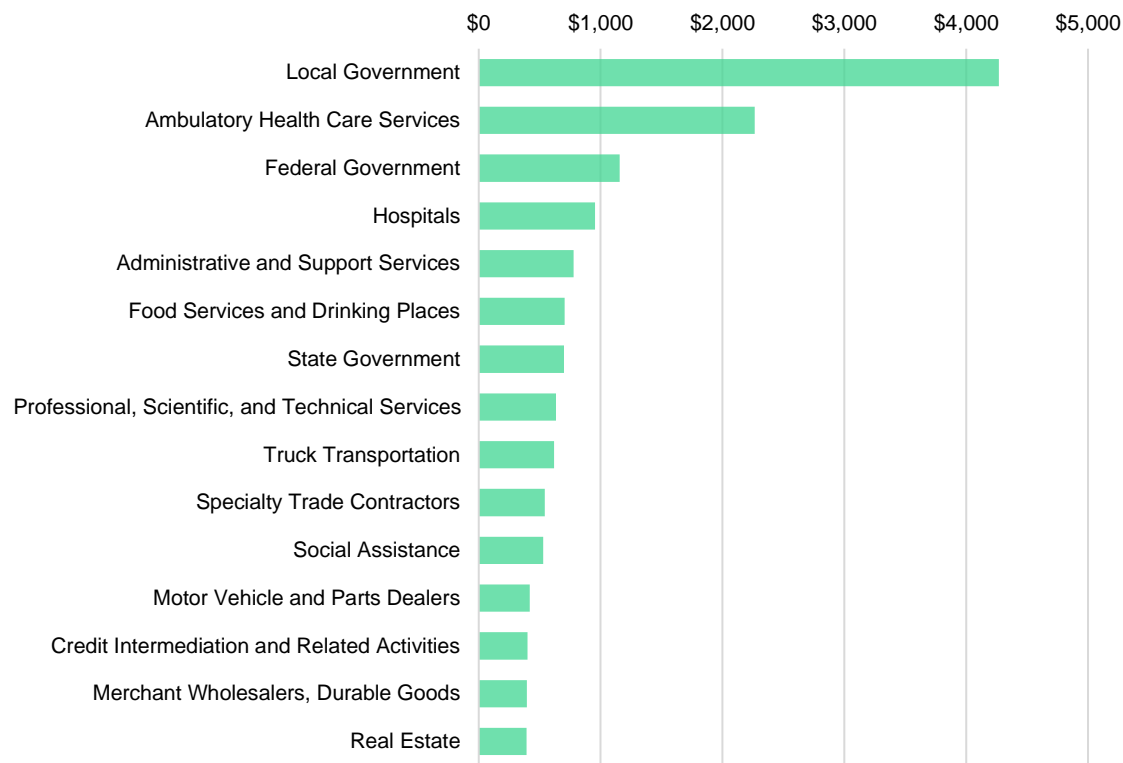
Figure 3: Employment Concentration (LQ) by Industry Subsector in the STC Economic Region, 2017 and 2027



Source: Emsi Employees & Self-Employed 2018.3.

It is also important to examine industry earnings, which are defined as the total wages, salaries, supplements (such as additional employee benefits), and proprietor income in a region. Because workers in various industries see different average wages, looking at the top industries by earnings allows us to gain another perspective on the region's key industries. Figure 4 shows the top 15 industry subsectors by total subsector earnings in the STC Economic Region in 2017. Local Government had the highest earnings at \$4.3 billion, which was 20% of the region's total earnings (\$21.3 billion). The next highest industry subsector is Ambulatory Health Care Services, bringing in 10% of the region's total earnings. Federal Government and Hospitals had the third and fourth largest earnings, at 5.4% and 4.5% of the region's total earnings, respectively.

Figure 4: Earnings in Millions by Industry Subsector in the STC Economic Region, 2017



Source: Emsi Employees & Self-Employed 2018.3.

2. Occupations within Key Industry Subsectors

Five industry subsectors are found in Figures 2, 3, and 4 because they are top employers and have high LQs. These subsectors are Local Government; Ambulatory Health Care Services; Social Assistance; Truck Transportation; and Motor Vehicle & Parts Dealers. Because of these industry subsectors' relative strength in the region, we identify the most common occupations within each of the five industry subsectors, called the staffing pattern.¹ The industry subsectors' staffing patterns provide insight into the region's labor market demand, and by extension, give context for the demand for the college's program offerings. The Standard Occupational Classification (SOC) is the structure used by federal agencies to classify workers into occupational categories. SOC applies a five-digit hierarchical coding system to organize more than 860 detailed occupations in the U.S. and is used to classify the occupational data used in this analysis. Detailed employment projections for the occupations presented in this section can be found in Appendix 2, while detailed employment projections for all occupations can be found in Appendix 3.

¹ The top occupations, in terms of the percent of total jobs in an industry, are identified using data from the National Occupational Employment Statistics program, projections from the National Industry-Occupation Employment Matrix, and Emsi's proprietary employment data.

The Local Government industry subsector is the largest employer in the STC Economic Region, and is expected to grow by over 11,000 jobs in the next ten years. Nearly half of the jobs in this industry subsector are related to public education. The top three occupations by job counts are elementary school teachers, except special education; secondary school teachers, except special & career/technical education; and teacher assistants. Other occupations in this industry subsector with high employment include office clerks, general; janitors & cleaners, except maids & housekeeping cleaners; police and sheriff's patrol officers; and secretaries & administrative assistants, except legal, medical, & executive.

In the STC Economic Region, Ambulatory Health Care Services is the second largest industry subsector by jobs, the largest by LQ, and is projected to have more jobs than Local Government by 2027. As expected, many of the top occupations in the region's staffing pattern are related to direct patient care. Personal care aides and home health aides, with median hourly wages of \$8.90 and \$8.82, respectively, account for 52% of all jobs in this industry subsector. However, though these low-paying occupations account for a large portion of the industry subsector's employment, there are many direct patient care occupations with higher wages. Registered nurses, with a median hourly wage of \$33.30, account for just over 5% of all jobs in this industry subsector, and licensed practical & licensed vocational nurses, with a median hourly wage of \$21.10, make up almost 4%. Other occupations identified in the staffing pattern have skills related to administrative tasks. Medical secretaries; office clerks, general; and receptionists & information clerks make up just over 8% of all jobs in the industry subsector.

The staffing pattern for the Social Assistance industry subsector contains many health care occupations, such as personal care aides and home health aides. In fact, these two occupations account for nearly two-thirds of all jobs in the industry subsector. Also included within the industry subsector's staffing pattern are social welfare-type occupations related to children and mental health. Examples include childcare workers (which alone accounts for 12% of all jobs in the industry subsector); preschool teachers, except special education; social & human service assistants; and child, family, & school social workers. Many of the occupations in this industry subsector have fairly low median hourly wages, with the top three occupations all having median hourly wages below \$9.

Truck Transportation, which accounts for only 2% of jobs in the region, has a fairly high LQ. The strong LQ is likely explained by the proximity of the STC Economic Region to Mexico and the volume of freight moving into and out of the country. The top occupation in this industry subsector is heavy & tractor-trailer truck drivers, which make up almost 70% of all jobs in the industry subsector. Other occupations in this industry subsector include laborers & freight, stock, & material movers, hand; bus & truck mechanics & diesel engine specialists; and dispatchers, except police, fire, & ambulance. These three occupations account for another 11% of the industry subsector's jobs.

Lastly, the Motor Vehicle & Parts Dealers industry subsector contains both technical and retail occupations. The top three occupations in this industry subsector are retail salespersons; automotive service technicians & mechanics; and parts salespersons, together comprising 48% of all jobs in the industry subsector. Occupations related to administrative tasks also account for a portion of this

industry subsector, with office clerks, general; counter & rental clerks; and bookkeeping, accounting, & auditing clerks making up another 9% of jobs in the industry subsector.

3. Economic Base Analysis

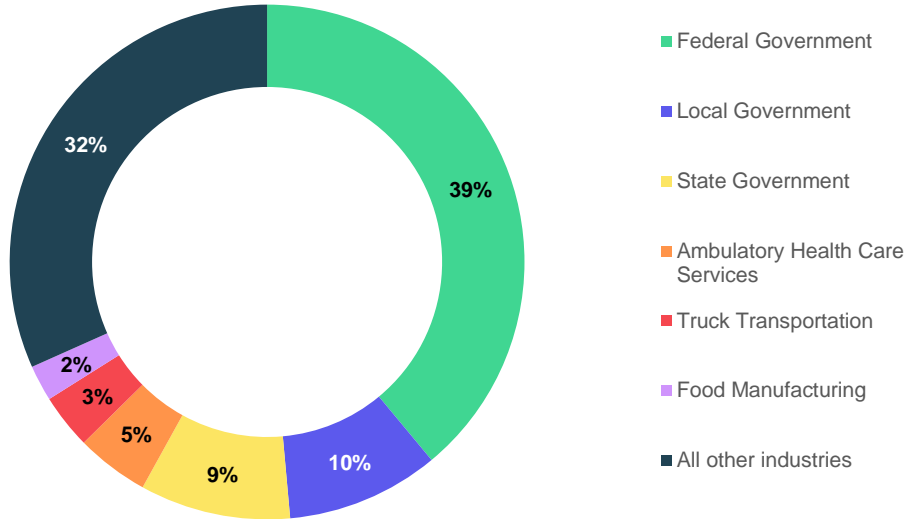
Economic base theory is widely used as a component of strategic development and planning. Economic base analysis contextualizes the types of economic activities that drive the regional economy, and assesses how those activities support earnings and create an economic impact across various industries.

The simplest way to think about a region's economic base is to think of a region's industries as composed of two fundamentally different types. One exports goods or services to non-residents, whether people or businesses, and thereby brings outside dollars into the region. The other sells goods or services to local residents and thereby intercepts monies already in circulation within the region. Looking at which industries are basic, or essential to the economic base, gives us an idea of these industries' importance in bringing outside money into the region. A regional economy can grow by adding or growing basic industries (also known as "export promotion") or by adding or growing non-basic industries (also known as "import substitution").

Figure 5 displays the top regional industry subsectors in terms of the percentage of total regional exports. As shown, Federal Government leads all subsectors in terms of exports at \$13.6 billion. The next industry subsectors, Local Government and State Government, are much smaller at \$3.3 billion each. According to standard economic impact methodology, when an industry is receiving funds from outside the region, it is assumed to be exporting a good or a service. This can seem counter-intuitive in the context of government, because the government industry subsectors are not typically thought to be an exporter of either goods or services. In this case, federal- and state-funded institutions providing public services bring in money from outside the region, thus counting as exports. The STC Economic Region's location on the U.S.-Mexico border drives much of this inflow of federal and state dollars. Local Government also brings in outside money, notably from sales and use taxes from shoppers who come from outside the region.

Ambulatory Health Care Services is the largest non-government exporting industry subsector, bringing in \$1.6 billion and accounting for 5% of the region's exports. Given the number of hospitals and other medical institutions in the STC Economic Region, it is not surprising that this industry subsector brings in so much external money. This could suggest that either people from outside areas travel to the STC Economic Region for medical treatment, or that there are external dollars flowing towards healthcare in the region, such as Medicaid or Medicare payments. Truck Transportation and Food Manufacturing are also large non-government exporting industry subsectors, bringing in \$1.2 billion and \$787 million respectively. Given the amount of freight that travels through the region because of its proximity to Mexico, and the amount of agricultural activity in the area, it makes sense that these industry subsectors account for large portions of the region's exports.

Figure 5: Top Industry Subsectors by Exports in the STC Economic Region, 2017



Source: Emsi Industry Data 2018.3

The contributions of these and other industry subsectors are critical to bringing in a fresh influx of new dollars. Table 1 displays detailed industry exports, along with the total earnings paid out annually by each industry sector and how much each industry sector contributes to regional “value added,” which is the primary component in calculating the region’s gross regional product (GRP).

Although a far second by exports, Local Government leads all industries in terms of total earnings, with \$4.2 billion (20% of regional earnings), followed by Ambulatory Health Care Services and Federal Government. Federal Government has a high exports-to-earnings ratio, which could be because monies exported in the region are simply passing through the region or being spent on capital rather than labor. Local Government also leads all industries in terms of value added with \$4.4 billion (15% of value added), again followed by Ambulatory Health Care Services and Federal Government. Its ratio of earnings to value added for Local Government is high as well, meaning that much of the economic activity in the STC Economic Region created by the industry subsector is through employing people, which makes sense given its high number of jobs and strong LQ, as shown in Section 1.

Table 1: Top 25 Industry Subsectors by Exports in the STC Economic Region, 2017

NAICS Code	Description	Total Exports (millions)	Total Earnings (millions)	Total Value Added (millions)
901	Federal Government	\$13,571	\$1,156	\$1,701
903	Local Government	\$3,343	\$4,268	\$4,379
902	State Government	\$3,296	\$699	\$784
621	Ambulatory Health Care Services	\$1,596	\$2,265	\$2,405
484	Truck Transportation	\$1,201	\$619	\$804
311	Food Manufacturing	\$787	\$147	\$309

325	Chemical Manufacturing	\$602	\$67	\$269
441	Motor Vehicle and Parts Dealers	\$583	\$419	\$715
423	Merchant Wholesalers, Durable Goods	\$557	\$395	\$803
445	Food and Beverage Stores	\$473	\$342	\$572
722	Food Services and Drinking Places	\$458	\$705	\$1,040
452	General Merchandise Stores	\$456	\$374	\$628
561	Administrative and Support Services	\$437	\$779	\$944
624	Social Assistance	\$414	\$529	\$561
336	Transportation Equipment Manufacturing	\$409	\$118	\$204
424	Merchant Wholesalers, Nondurable Goods	\$407	\$308	\$620
211	Oil and Gas Extraction	\$397	\$181	\$411
522	Credit Intermediation and Related Activities	\$278	\$399	\$869
622	Hospitals	\$268	\$954	\$1,069
611	Educational Services	\$238	\$340	\$365
111	Crop Production	\$235	\$100	\$164
524	Insurance Carriers and Related Activities	\$218	\$236	\$371
448	Clothing and Clothing Accessories Stores	\$210	\$151	\$254
447	Gasoline Stations	\$198	\$124	\$212
332	Fabricated Metal Product Manufacturing	\$195	\$78	\$115
---	All other industry subsectors	\$3,995	\$5,523	\$8,651
Total		\$34,825	\$21,275	\$29,219

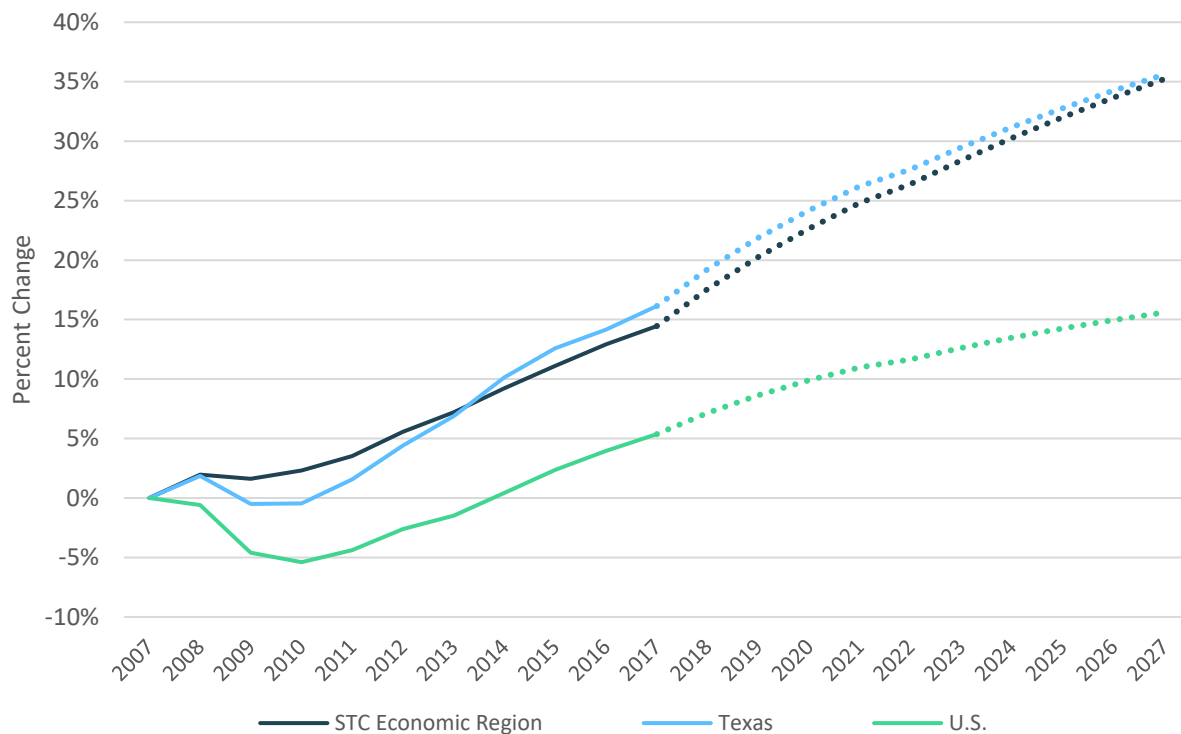
Source: Emsi Industry Data 2018.3.

4. Job Growth and Unemployment

Data on unemployment and job growth give researchers an idea of where skills mismatches may exist in the region. Unemployment data can also provide important context when identifying the job training programs that are best suited to transitioning unemployed workers into in-demand occupations.

Figure 6 displays the historical and projected cumulative job growth in the STC Economic Region between 2007 and 2027, with 2007 serving as the base year. We can see from this figure that the STC Economic Region has steadily seen similar job growth to Texas and higher job growth than the U.S. In fact, from 2007 to 2017, jobs increased by 15% in the STC Economic Region, which well outpaced the national job growth rate of 5%. Interestingly, while Texas and the U.S. saw decreases in jobs in the years following the 2008 recession, the STC Economic Region continued to experience positive job growth. Detailed job numbers can be found in Appendix 2.

Figure 6: Historical and Projected Job Growth in the STC Economic Region

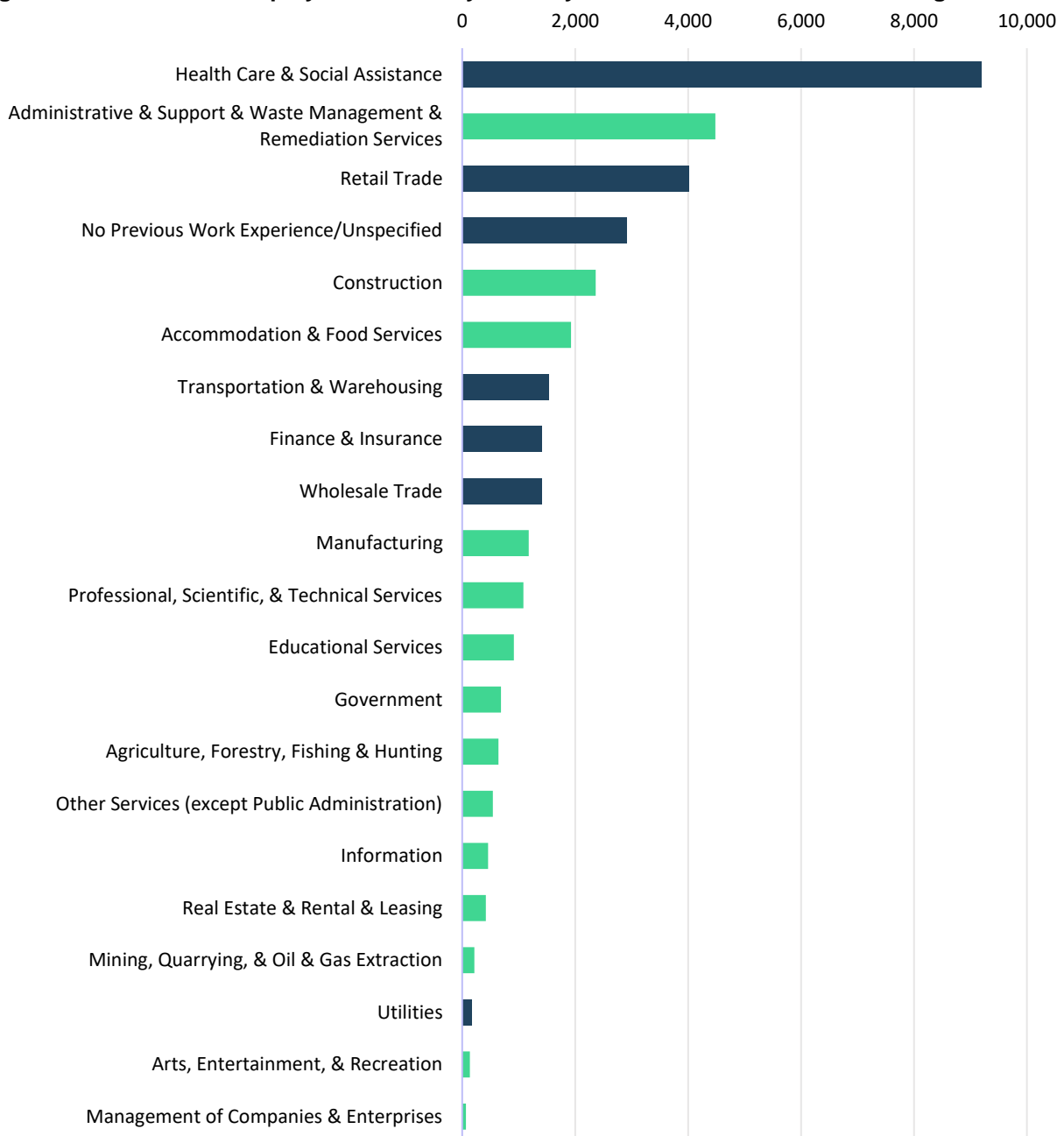


Source: Emsi Employees & Self-Employed 2018.3

Despite high job growth, the STC Economic Region displays a high number of unemployed workers. Figure 7 presents the number of people unemployed by industry sector in the STC Economic Region.² Data reflect April 2018 and follow the same methodology used by the federal statistical agencies to determine the number of workers in an industry that are not currently employed. The unemployment rate is not provided because it is difficult to accurately determine the size of the labor force in a given industry on a monthly basis. Rather than the unemployment rate, the number of all unemployed workers for the region are provided to display which industry sectors have the highest concentration of unemployed workers. Industry sectors in the STC Economic Region that exceed the national concentration of unemployed workers appear in dark blue. Supporting data tables can be found in Appendix 2.

² Although the industry data reported elsewhere in this analysis is at the three-digit NAICS level, unemployment data by industry is only available at the two-digit level, referred to as industry sectors.

Figure 7: Number of Unemployed Workers by Industry Sector in the STC Economic Region



Source: Emsi Total Unemployment, April 2018. Industry sectors in dark blue display a higher concentration of unemployed workers than the national average.

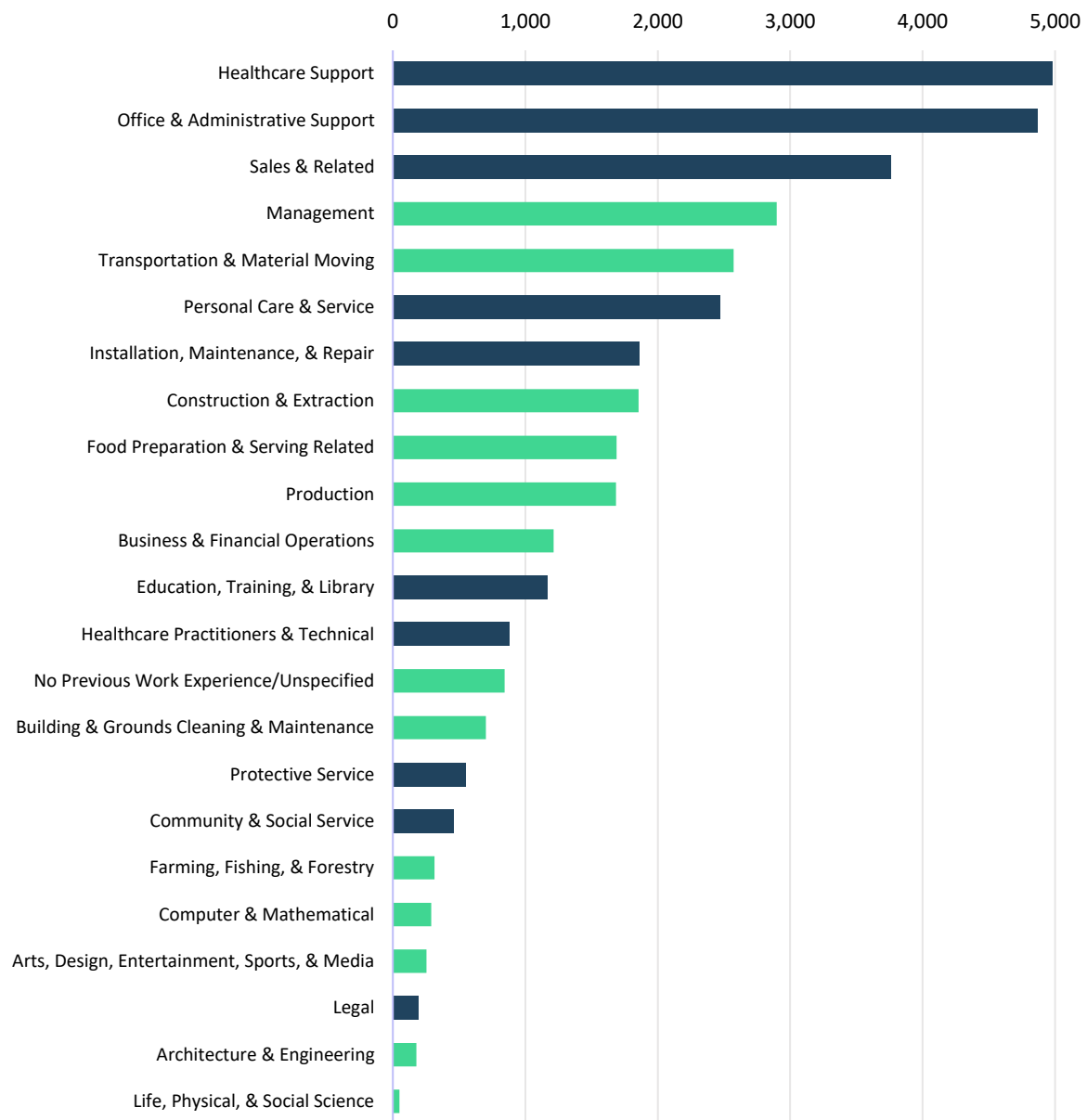
As shown, the industry sector with the highest number of unemployed workers is Health Care & Social Assistance with 9,202 unemployed individuals. Unemployed workers in this industry make up 26% of the total unemployed workers in the region, exceeding the national unemployment concentration for this occupation group by 18%. The sector with the next highest unemployment has less than half as many unemployed workers. This sector, Administrative & Support & Waste Management & Remediation Services, has 4,483 unemployed individuals. It is common for industries like these to have a high proportion of jobs that require little to no education and training, thus making

them more vulnerable to worker turnover. Another sector that is generally affected by high turnover is Retail Trade, the sector with the third highest unemployment. Other industry sectors appearing in Figure 7 have concentrations of unemployed workers similar to the national average. However, Construction – another industry that typically displays high turnover – has a much lower concentration of unemployed workers in the region, at 7%, compared to the national concentration of 17%.

Figure 8 provides a breakdown of unemployment in the STC Economic Region by major occupation group, which provides insight into which occupations across all industries are driving unemployment in the region.³ As shown, occupational groups that contain the highest number of unemployed workers in the STC Economic Region are healthcare support (4,977 unemployed workers), office & administrative support (4,865 unemployed workers), and sales & related (3,760 unemployed workers). Healthcare support has a significantly higher concentration of unemployed workers than does the nation (14% of unemployed workers in the region, compared to 3% for the nation), but it is the only occupational group with unemployment that significantly exceeds the national concentration. Healthcare support includes occupations such as home health aides and nursing assistants, but does not include registered nurses, which are included in the healthcare practitioners & technical occupation group. Office & administrative support includes many occupations related to clerks and receptionists. Though some of these occupational groups have a relatively high number of unemployed workers, many also face high turnover.

³ Although the occupation data reported elsewhere in this analysis is at more detailed levels, unemployment data by occupation is only available at the two-digit level, referred to as occupation groups.

Figure 8: Number of Unemployed Workers by Occupation Group in the STC Economic Region



Source: Emsi Total Unemployment, April 2018. Occupation groups in dark blue display a higher concentration of unemployed workers than the national average.

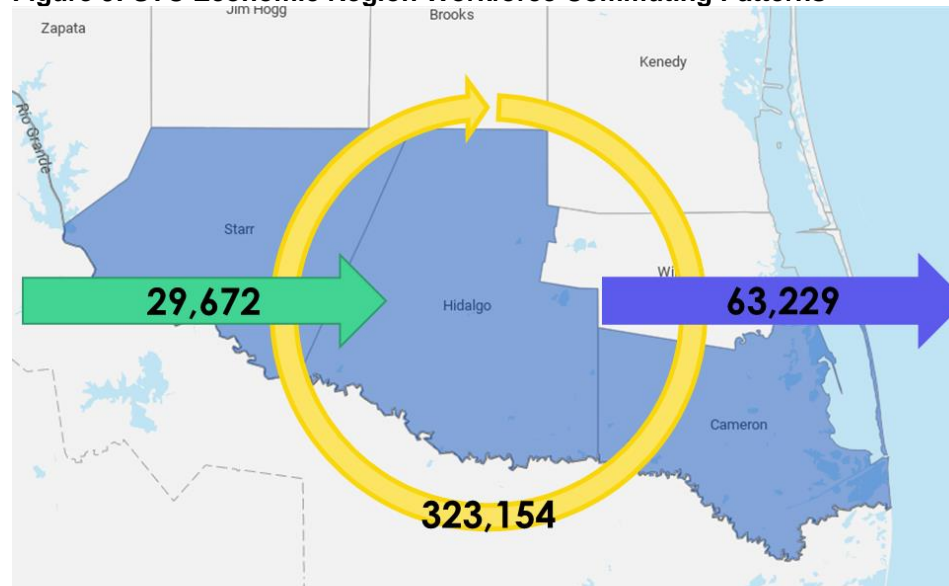
5. Workforce Commuting Patterns

One option for workers facing difficulty finding employment is to seek employment outside of the region in which they reside and commute to work. The Longitudinal Employer-Household Dynamics

(LEHD) program⁴ at the Census Bureau provides information on the residential and employment locations of workers. This provides community leaders with an idea of the commuting patterns of regional employees. More specifically, it demonstrates the extent to which employees commute to the region for work and/or residents commute to surrounding communities for work. The results of the LEHD data provide additional context as to how workers from outside the region could be filling current gaps or how the region's workers could be out-commuting when there is a surplus of available jobs.

Figure 9 presents the inflow and outflow of jobs to and from the STC Economic Region in 2015, the most recent year for which commuting data is available. In 2015, there were 352,826 jobs in the region, with 323,154 filled by residents and 29,672 (8.4%) filled by people living outside the region. Additionally, 63,229 out of the STC Economic Region's 386,383 residents (16.4%) commuted outside the region for work. The figure illustrates that about twice as many workers out-commute than in-commute. Supporting data tables can be found in Appendix 2.

Figure 9: STC Economic Region Workforce Commuting Patterns



Source: U.S. Census Bureau, Center for Economic Studies.

29,672	-	Employed in STC Economic Region but living outside
323,154	-	Living and employed in STC Economic Region
63,229	-	Living in STC Economic Region but employed outside

Source: 2015 Census LEHD.

⁴ LEHD is an innovative program that uses modern statistical and computing techniques to combine federal and state administrative data on employers and employees with core Census Bureau censuses and surveys while protecting the confidentiality of people and firms that provide the data. Given data limitations, commuting patterns only reflect the U.S. and not commuters to or from Mexico.

While many workers in the STC Economic Region commute to or from the region, the need to commute varies widely by occupation. Table 2 shows the commuting patterns for each occupation sector (occupations at the three-digit SOC level) in the STC Economic Region, organized in descending order by net commuters. The first column, “2017 Jobs”, displays the total number of people employed in the STC Economic Region. The second column, “2017 Resident Workers”, shows the number of people living in the region that are employed in that occupation sector but not necessarily working in the region. The third column, “2017 Net Commuters”, shows the difference between jobs and resident workers, which can be interpreted as the net amount of people commuting into or out of the region. Positive numbers of net commuters indicate that workers in the occupation group commute into the region to work, whereas negative values indicate that workers in the occupation commute elsewhere. As shown, the vast majority of occupation groups have negative net commuters, with the STC Economic Region as a whole displaying 27,513 net out-commuters.⁵

Only two occupation groups display high levels of net in-commuters: other personal care & service workers and nursing, psychiatric, & home health aides. While other occupation groups have positive net commuters, they are relatively small and are likely within the range of normal labor market fluctuations. The majority of occupation groups see significantly high levels of out-commuters, with construction trades workers having the highest share of net out-commuters both by count (4,649) and as a percentage of the occupation’s regional jobs (44.4%). This could be due to the short-term nature of construction projects and the need for construction trades workers to work at various locations throughout their time in the workforce.

Table 2: Commuting Patterns for the STC Economic Region by Occupation Sector

SOC	Description	2017 Jobs	2017 Resident Workers	2017 Net Commuters	Percentage Net Commuters
39-9000	Other Personal Care and Service Workers	42,213	41,064	1,149	2.8%
31-1000	Nursing, Psychiatric, and Home Health Aides	22,027	21,615	412	1.9%
23-2000	Legal Support Workers	877	839	38	4.5%
21-2000	Religious Workers	795	764	31	4.1%
39-3000	Entertainment Attendants and Related Workers	1,043	1,023	20	2.0%
39-5000	Personal Appearance Workers	829	816	13	1.6%
27-4000	Media and Communication Equipment Workers	367	354	13	3.7%
39-4000	Funeral Service Workers	148	150	(2)	(1.3%)
45-4000	Forest, Conservation, and Logging Workers	18	21	(3)	(14.5%)
39-7000	Tour and Travel Guides	69	73	(4)	(5.5%)
23-1000	Lawyers, Judges, and Related Workers	990	995	(5)	(0.5%)
39-6000	Baggage Porters, Bellhops, and Concierges	71	77	(6)	(7.8%)

⁵ This number varies from the number of out-commuters presented in the LEHD data above for several reasons. Primarily, the difference is because the LEHD program uses individual survey data that indicates commuting status. The data presented in Table 2 simply compares resident worker counts with job counts to approximate net commuting numbers. Nevertheless, both data sets provide insight into how the regional labor market is affected by commuting status, and vice versa.

South Texas College – Environmental Scan

15-2000	Mathematical Science Occupations	85	92	(7)	(7.6%)
43-2000	Communications Equipment Operators	222	236	(14)	(5.9%)
39-2000	Animal Care and Service Workers	372	386	(14)	(3.6%)
19-3000	Social Scientists and Related Workers	411	425	(14)	(3.3%)
17-1000	Architects, Surveyors, and Cartographers	188	203	(15)	(7.4%)
39-1000	Supervisors of Personal Care and Service Workers	467	485	(18)	(3.7%)
27-2000	Entertainers and Performers, Sports and Related Workers	670	691	(21)	(3.0%)
45-3000	Fishing and Hunting Workers	37	61	(24)	(39.2%)
27-3000	Media and Communication Workers	1,306	1,332	(26)	(2.0%)
25-4000	Librarians, Curators, and Archivists	816	843	(27)	(3.2%)
35-1000	Supervisors of Food Preparation and Serving Workers	2,872	2,902	(30)	(1.0%)
51-5100	Printing Workers	295	328	(33)	(10.1%)
19-1000	Life Scientists	243	277	(34)	(12.3%)
37-1000	Supervisors of Building and Grounds Cleaning and Maintenance Workers	300	335	(35)	(10.4%)
27-1000	Art and Design Workers	849	887	(38)	(4.3%)
25-2000	Preschool, Primary, Secondary, and Special Education School Teachers	26,273	26,312	(39)	(0.1%)
35-3000	Food and Beverage Serving Workers	24,073	24,121	(48)	(0.2%)
33-1000	Supervisors of Protective Service Workers	496	549	(53)	(9.7%)
53-6000	Other Transportation Workers	1,037	1,091	(54)	(4.9%)
45-1000	Supervisors of Farming, Fishing, and Forestry Workers	155	219	(64)	(29.3%)
53-5000	Water Transportation Workers	101	166	(65)	(39.3%)
19-2000	Physical Scientists	173	243	(70)	(28.8%)
25-3000	Other Teachers and Instructors	5,356	5,427	(71)	(1.3%)
51-7000	Woodworkers	299	380	(81)	(21.3%)
35-9000	Other Food Preparation and Serving Related Workers	3,227	3,309	(82)	(2.5%)
11-2000	Advertising, Marketing, Promotions, Public Relations, and Sales Managers	505	588	(83)	(14.1%)
31-2000	Occupational Therapy and Physical Therapist Assistants and Aides	737	820	(83)	(10.1%)
25-9000	Other Education, Training, and Library Occupations	6,463	6,546	(83)	(1.3%)
53-1000	Supervisors of Transportation and Material Moving Workers	959	1,044	(85)	(8.1%)
33-2000	Fire Fighting and Prevention Workers	935	1,026	(91)	(8.9%)
41-3000	Sales Representatives, Services	5,086	5,177	(91)	(1.8%)
53-4000	Rail Transportation Workers	263	364	(101)	(27.8%)
41-9000	Other Sales and Related Workers	1,507	1,622	(115)	(7.1%)
29-9000	Other Healthcare Practitioners and Technical Occupations	420	538	(118)	(22.0%)
35-2000	Cooks and Food Preparation Workers	9,413	9,534	(121)	(1.3%)
51-6000	Textile, Apparel, and Furnishings Workers	1,046	1,169	(123)	(10.5%)
53-2000	Air Transportation Workers	361	486	(125)	(25.7%)
49-1000	Supervisors of Installation, Maintenance, and Repair Workers	987	1,119	(132)	(11.8%)
19-4000	Life, Physical, and Social Science Technicians	437	573	(136)	(23.8%)
25-1000	Postsecondary Teachers	3,013	3,168	(155)	(4.9%)
41-4000	Sales Representatives, Wholesale and Manufacturing	2,903	3,068	(165)	(5.4%)
33-9000	Other Protective Service Workers	4,454	4,625	(171)	(3.7%)
49-2000	Electrical and Electronic Equipment Mechanics, Installers, and Repairers	1,394	1,583	(189)	(11.9%)

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43-1000	Supervisors of Office and Administrative Support Workers	3,271	3,470	(199)	(5.7%)
47-4000	Other Construction and Related Workers	693	897	(204)	(22.7%)
37-3000	Grounds Maintenance Workers	1,516	1,720	(204)	(11.9%)
17-3000	Drafters, Engineering Technicians, and Mapping Technicians	806	1,030	(224)	(21.7%)
41-1000	Supervisors of Sales Workers	4,412	4,638	(226)	(4.9%)
55-9000	Military-only occupations	1,255	1,494	(239)	(16.0%)
43-3000	Financial Clerks	8,595	8,836	(241)	(2.7%)
51-1000	Supervisors of Production Workers	864	1,114	(250)	(22.4%)
51-8000	Plant and System Operators	821	1,094	(273)	(25.0%)
43-4000	Information and Record Clerks	16,229	16,509	(280)	(1.7%)
11-3000	Operations Specialties Managers	1,654	1,972	(318)	(16.1%)
21-1000	Counselors, Social Workers, and Other Community and Social Service Specialists	6,415	6,739	(324)	(4.8%)
47-3000	Helpers, Construction Trades	307	633	(326)	(51.5%)
13-2000	Financial Specialists	3,146	3,480	(334)	(9.6%)
51-3000	Food Processing Workers	2,005	2,350	(345)	(14.7%)
31-9000	Other Healthcare Support Occupations	4,968	5,325	(357)	(6.7%)
33-3000	Law Enforcement Workers	7,098	7,532	(434)	(5.8%)
37-2000	Building Cleaning and Pest Control Workers	8,877	9,316	(439)	(4.7%)
49-3000	Vehicle and Mobile Equipment Mechanics, Installers, and Repairers	4,158	4,606	(448)	(9.7%)
51-2000	Assemblers and Fabricators	1,514	1,963	(449)	(22.9%)
11-1000	Top Executives	3,945	4,468	(523)	(11.7%)
15-1100	Computer Occupations	2,644	3,188	(544)	(17.1%)
43-9000	Other Office and Administrative Support Workers	16,067	16,681	(614)	(3.7%)
53-3000	Motor Vehicle Operators	13,596	14,222	(626)	(4.4%)
43-6000	Secretaries and Administrative Assistants	12,475	13,109	(634)	(4.8%)
11-9000	Other Management Occupations	5,118	5,770	(652)	(11.3%)
17-2000	Engineers	1,037	1,727	(690)	(39.9%)
29-2000	Health Technologists and Technicians	10,666	11,388	(722)	(6.3%)
47-1000	Supervisors of Construction and Extraction Workers	968	1,710	(742)	(43.4%)
51-4000	Metal Workers and Plastic Workers	2,581	3,398	(817)	(24.0%)
43-5000	Material Recording, Scheduling, Dispatching, and Distributing Workers	11,249	12,070	(821)	(6.8%)
45-2000	Agricultural Workers	2,856	3,739	(883)	(23.6%)
47-5000	Extraction Workers	850	1,750	(900)	(51.4%)
13-1000	Business Operations Specialists	6,181	7,132	(951)	(13.3%)
53-7000	Material Moving Workers	10,779	11,769	(990)	(8.4%)
41-2000	Retail Sales Workers	30,118	31,132	(1,014)	(3.3%)
49-9000	Other Installation, Maintenance, and Repair Occupations	7,663	8,679	(1,016)	(11.7%)
51-9000	Other Production Occupations	3,502	4,540	(1,038)	(22.9%)
29-1000	Health Diagnosing and Treating Practitioners	15,122	16,197	(1,075)	(6.6%)
47-2000	Construction Trades Workers	5,846	10,505	(4,659)	(44.4%)
Total*		422,524	450,031	(27,506)	(6.1%)

Source: Emsi Employees 2018.3. Self-employed workers have been excluded because they are classified as resident workers, and thus have no net commuters.

*Totals may not add due to rounding.

6. Population Characteristics

This section presents data on population growth, age, race/ethnicity, poverty levels, and median household income. This information is important as it can prepare STC for potential changes in the number of students it will serve, when these students will be reaching college age, and their socioeconomic status.

The population of the STC Economic Region in 2017 was 1,352,402, with 64% living in Hidalgo County, 31% living in Cameron County, and 5% living in Starr County (Table 3). The largest city is Brownsville, in Cameron County, followed by McAllen in Hidalgo County. The region's population has grown by 16.5% in the past ten years, and is projected to continue to grow. Hidalgo County has seen growth of 20.6% in the last decade and is projected to continue growing at the highest rate among the three counties.

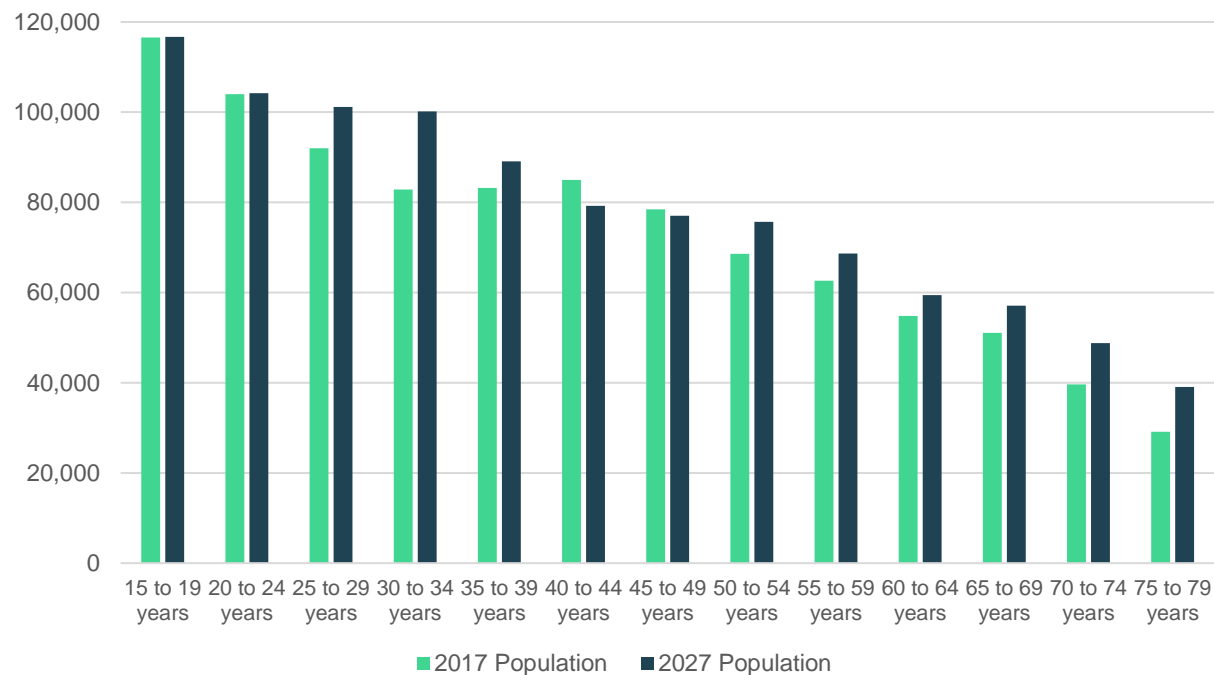
Table 3: Population Growth in the STC Economic Region

	2007 Population	2017 Population	% Change 2007-2017	2027 Population	% Change 2017-2027
STC Economic Region	1,161,004	1,352,402	16.5%	1,438,062	6.3%
Hidalgo County	715,212	862,748	20.6%	930,536	7.9%
Cameron County	386,271	425,033	10.0%	440,156	3.6%
Starr County	59,521	64,622	8.6%	67,370	4.3%

Source: Emsi Population Data 2018.3.

While the general population growth is important, also of interest to the college is the growth by age group. Figure 10 shows population growth in the STC Economic Region by age group. As shown, there is an overall trend that more residents will reach retirement age over the next ten years; however, the “30-34 years” age band is expected to experience the highest growth by 2027.

Figure 10: Population Growth by Age Group in the STC Economic Region



Source: Emsi Population Data 2018.3.

Table 4 shows the population in the STC Economic Region by ethnicity and race. As shown, 91.4% of the region’s population is in the “Hispanic, All Types” category. Another 7.1% is in the “White, Non-Hispanic” and 0.8% is in the “Asian, Non-Hispanic” categories, the two next largest proportions. Altogether, less than 1% of the region’s population identify as two or more races, non- Hispanic; American Indian or Alaskan Native, non-Hispanic; and Native Hawaiian or Pacific Islander, non-Hispanic. The Hispanic population in the STC Economic Region is expected to grow both in size and as a proportion of the total population by 2027.

Table 4: Population in the STC Economic Region by Ethnicity and Race, 2017

Ethnicity/Race	2017 Population	2017 % Distribution	2027 Population	2027 % Distribution
Hispanic, all types	1,236,766	91.4%	1,327,819	92.3%
White, non-Hispanic	95,941	7.1%	88,532	6.2%
Asian, non-Hispanic	11,216	0.8%	12,349	0.9%
Black, non-Hispanic	5,234	0.4%	5,867	0.4%
Two or more races, non-Hispanic	2,114	0.2%	2,357	0.2%
American Indian or Alaskan Native, non-Hispanic	916	0.1%	885	0.1%
Native Hawaiian or Pacific Islander, Non-Hispanic	215	0.0%	253	0.0%
Total	1,352,402	100%	1,438,062	100%

Source: Emsi Population Data 2018.3.

Despite a growing economy and high employment growth, the STC Economic Region experiences high rates of poverty. Table 5 displays the median household income, poverty rates, and unemployment rates for the counties comprising the STC Economic Region, as well as for prominent

cities in the region, selected border cities, Texas, and the U.S. As shown, while Texas has just a slightly lower median household income than the U.S., each county in the STC Economic Region displays a median income well below that of Texas, with the lowest in Starr County, at \$26,682 – less than half of the median for Texas. The poverty rates throughout the region are high as well, ranging from 21.1% in Weslaco to 50.3% in Roma – all more than double the poverty rate in the U.S. Although Texas has a lower unemployment rate than the U.S., the STC Economic Region has an unemployment rate of 9.4%, with Starr County displaying an unemployment rate of 14.2%. To put this into perspective, this means that nearly one out of every ten individuals in the STC Economic Region’s labor force is unemployed, and nearly one out of every seven people in Starr County. These unemployment and poverty rates are on par with other U.S. border cities in Texas, although the median household income in the region remains lower than in the border cities.

Table 5: Income, Poverty, and Unemployment Characteristics for Selected Geographies

	Median Household Income	Poverty Rate	Unemployment Rate
STC Economic Region	\$35,147	29.1%	9.4%
Hidalgo County	\$36,094	28.6%	9.0%
Edinburg, TX	\$43,760	23.0%	7.3%
McAllen, TX	\$45,568	22.5%	7.8%
Mission, TX	\$43,480	21.5%	9.7%
Pharr, TX	\$36,501	28.2%	7.3%
Weslaco, TX	\$36,157	21.1%	7.7%
Cameron County	\$34,578	29.2%	9.4%
Brownsville, TX	\$34,255	30.1%	9.4%
Harlingen, TX	\$35,718	25.4%	8.9%
San Benito, TX	\$26,736	35.8%	11.2%
Starr County	\$26,682	35.3%	14.2%
Rio Grande City, TX	\$31,066	29.9%	8.2%
Roma, TX	\$19,842	50.3%	12.5%
Selected U.S. border cities	-	-	-
Del Rio, TX	\$41,662	18.8%	9.1%
Eagle Pass, TX	\$41,560	21.3%	10.0%
El Paso, TX	\$43,322	17.8%	7.7%
Laredo, TX	\$39,548	27.5%	5.7%
Texas	\$54,727	13.0%	6.4%
U.S.	\$55,322	11.0%	7.4%

Source: American Community Survey 2016 5-Year Estimates. Poverty rate reflects the percentage of families whose income was below the poverty level within the 12 months preceding the data collection period.

A unique and significant characteristic of the region is its proximity to the U.S.-Mexico border, influencing both the region’s economy and the demographics and size of its population. The region’s location on the border allows for significant international migration.

According to the U.S. Department of Homeland Security, in 2016, 3,308 persons from outside the U.S. obtained lawful permanent resident status in the McAllen-Edinburg-Mission, Texas Core Based Statistical Area, out of 1,183,505 persons doing so in the entire country. For comparison, El Paso, Texas had 5,082 persons obtain lawful permanent resident status. Detailed information from the region is unavailable, so it is not possible here to say with certainty where most of these lawful permanent residents originated. However, at the national level, 15% of those obtaining lawful permanent residence were from Mexico in 2016.

In addition to legal immigration, the STC Economic Region experiences unlawful immigration. In 2016 in the Rio Grande Valley Border Patrol Sector, there were 186,830 aliens apprehended, which comprised 46% of all Southwest sector apprehensions during the year (Southwest sectors include Texas, California, and Arizona).

It is difficult to determine how many unlawful immigrants currently reside in the STC Economic Region, but based on American Community Survey data, Texas was estimated to have 1.9 million unauthorized residents in 2014, following California at 2.9 million. There were an estimated 12.1 million unauthorized immigrants living in the U.S. overall. Approximately 55% of the total estimated 12.1 million unauthorized immigrants were from Mexico in 2014, a slight decrease from 59% in 2007. It is even more difficult to gather estimates of unauthorized residents at a regional or a metropolitan level. Despite the difficulty of providing accurate estimates, it is known that both lawful and unlawful immigrants affect the regional economy in the STC Economic Region, increasing economic activity and human capital in the area.

7. Educational Attainment

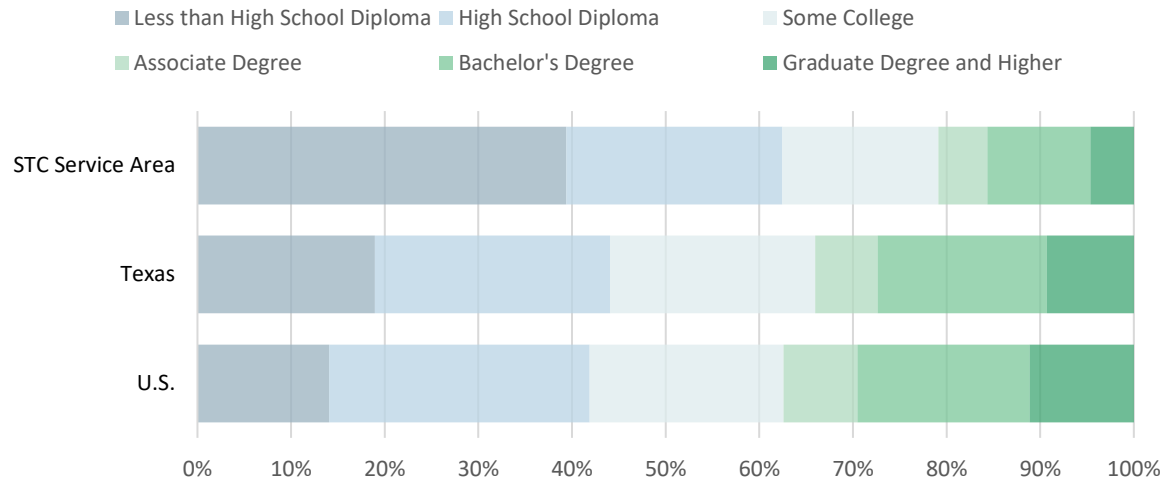
This section describes the educational attainment of the population in the STC Economic Region for adults aged 25 years and older. The data are useful for educators directing efforts towards specific population groups that have low education levels. The region's educational attainment is presented by gender and ethnicity and broken out according to the following categories: 1) less than a high school diploma, 2) high school diploma, 3) some college,⁶ 4) associate degree, 5) bachelor's degree, and 6) graduate degree and higher.

Figure 11 displays the educational attainment of the overall adult population in the STC Economic Region, without reference to gender or ethnicity. In the STC Economic Region, 62% of the adult population has a high school diploma or less, which is significantly more than the national average of 42%. This number has remained steady in the past ten years, with 64% of the STC Economic Region population having a high school diploma or less in 2007. Out of all the education categories in Figure 11, the people who are most likely to seek education and training from STC are those in the "Less

⁶ The "Some College" category includes individuals who attended college but did not successfully obtain a degree and individuals who have received a postsecondary vocational award or professional certification but did not receive an associate or bachelor's degree.

than High School Diploma,” “High School Diploma,” and “Some College” categories. Together, these categories total 606,950 people, or 79% of the entire adult population in the region.

Figure 11: Educational Attainment of the Adult Population in the STC Economic Region, Texas, and the U.S.

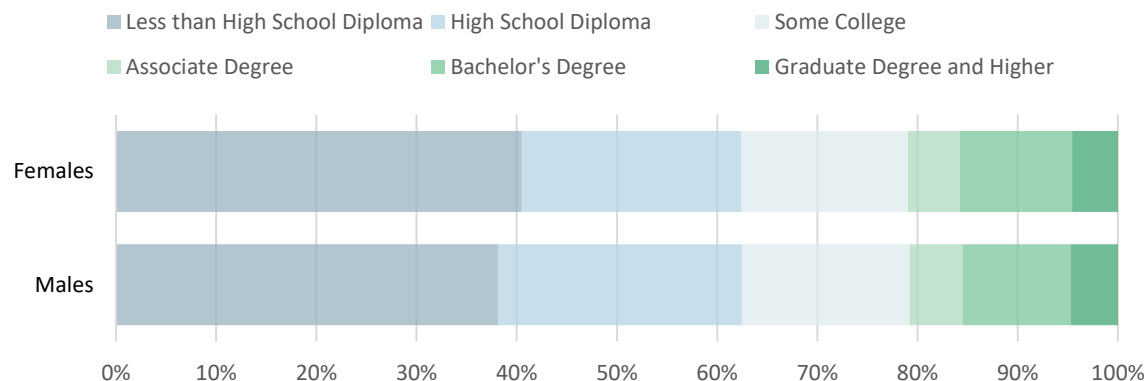


Source: Emsi Employees & Self-Employed 2018.3.

Of those with no postsecondary education in the STC Economic Region, there are significantly more people with a “Less than High School Diploma” level of education. This may indicate the need for General Education Development (GED), English as a Second Language (ESL), and remedial education courses.

The distribution of educational attainment by gender is fairly even in the STC Economic Region. Females are slightly more likely to have a “Less than High School Diploma” level of education. This information appears in Figure 12.

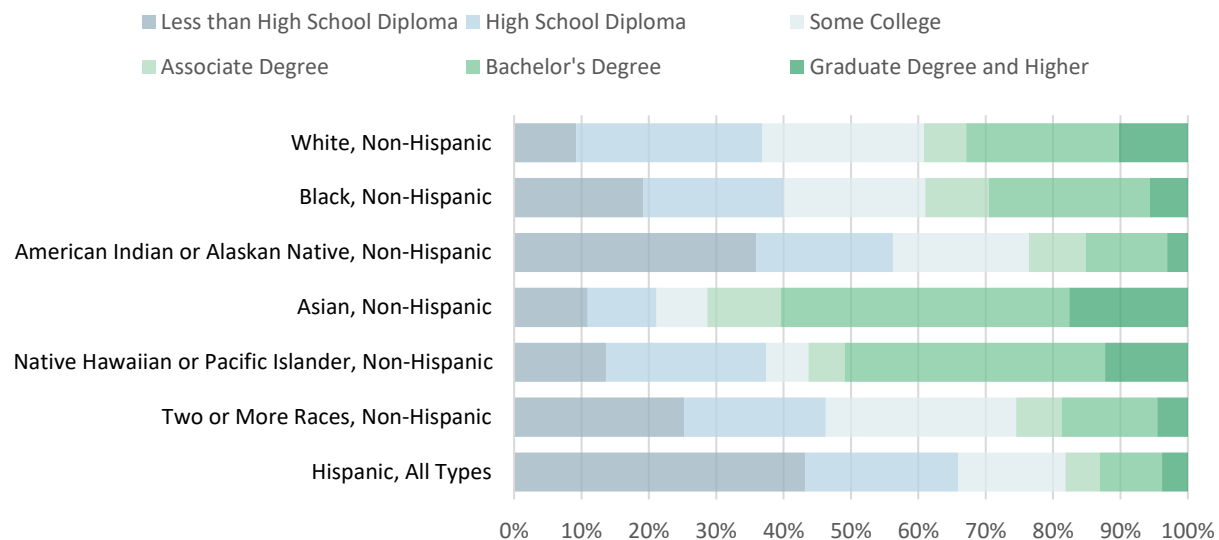
Figure 12: Educational Attainment of the Adult Population in the STC Service Region by Gender



Source: Emsi Employees & Self-Employed 2018.3.

Figure 13 displays the educational attainment of the adult population in the STC Economic Region by ethnicity. The “Asian, Non-Hispanic” category has the highest percentage of adults with some postsecondary education (79%). The “White, Non-Hispanic” category follows with 63%. However, recall from Table 4 that 91% of the STC Economic Region’s population is in the “Hispanic, All Types” category. This category has the lowest level of educational attainment, with only 34% of its adult population having some sort of postsecondary degree or training. These data suggest that there are many opportunities to increase educational attainment across all ethnic groups, especially among the Hispanic population.

Figure 13: Educational Attainment of the Adult Population in the STC Economic Region by Ethnicity and Race



Source: Emsi Employees & Self-Employed 2018.3.

These data show that there is a large population with low educational attainment in the STC Economic Region. There is strong potential to increase these individuals’ educational attainment; a recent survey by New America indicates that 80% of Americans believe that there are more career opportunities for those who pursue higher education.⁷ The same survey indicated that 81% of Americans believe that a community college education is worth the cost.

While this suggests that many Americans value higher education, it is important to make sure students seeking higher education are guided towards fields that are relevant for their desired career paths. Recent research conducted by Strada Education Network, in partnership with Gallup, finds that the relevance of an individual’s academic program to their current career plays a strong role in the way they perceive their education’s value and quality, as well as their own well-being. Overall, the survey found that only 26% of working U.S. adults with college experience strongly agree that their education

⁷ “Varying Degrees 2018: New America’s Annual Survey on Higher Education,” New America, 2018.

is relevant to their work and day-to-day life.⁸ However, those who strongly agree their courses were relevant to their careers and lives were 63% more likely to believe that their education was worth the cost, and 50% more likely to believe they received a high-quality education.

8. Education and Career Training Providers

When considering the economy and population of the STC Economic Region and how it relates to STC's educational offerings, it is also important to consider the presence of other educational institutions in the region. While demand for certain occupations may be strong, if there are too many graduates from programs training for them, those graduates may be faced with few job prospects and leave the region to find employment. Thus, it is important for STC to know which other entities offer similar programs and career training, and to what extent.⁹

Table 6 presents the certificate, associate degree, and bachelor's degree completions in the STC Economic Region in 2017, as reported to the Integrated Postsecondary Education Data System (IPEDS).¹⁰ Of 14,362 awards at or below the bachelor's degree level granted in 2017, certificates accounted for 40%, bachelor's degrees 31%, and associate degrees the remaining 29%. STC is currently the only institution offering all three levels of awards. As shown in Figure 14, while associate and bachelor's degree completions have increased over the last decade, the STC Economic Region has always seen a high proportion of certificate completers; this could be due to the attractiveness of certificates as an affordable, short-term career training option. This is especially true in the years following the 2008 recession, as evidenced by the sharp increase in certificate completions from 2009-2010.

Table 6: Completions by Institution in the STC Economic Region, 2017

Institution	2017 Completions		
	Certificate	Associate	Bachelor's
South Texas College	2,009	3,674	306
Advanced Barber College and Hair Design	64	0	0
Brightwood College-Brownsville	225	14	0
Brightwood College-McAllen	276	28	0
Mission Beauty Institute	54	0	0
RGV Careers	226	0	0
Rio Grande Bible Institute	15	0	29
Salon & Spa Institute	37	0	0
South Texas Training Center	122	0	0
South Texas Vocational Technical Institute-Brownsville	181	0	0
South Texas Vocational Technical Institute-McAllen	277	0	0

⁸ "From College to Life: Relevance and the value of Higher Education," Strada Education Network and Gallup, Inc., 2018.

⁹ The information presented in this section is intended for the college to understand which other educational institutions are offering programs in similar fields. Further analysis is needed to determine if and where there is a mismatch between the supply and demand of workers in the region.

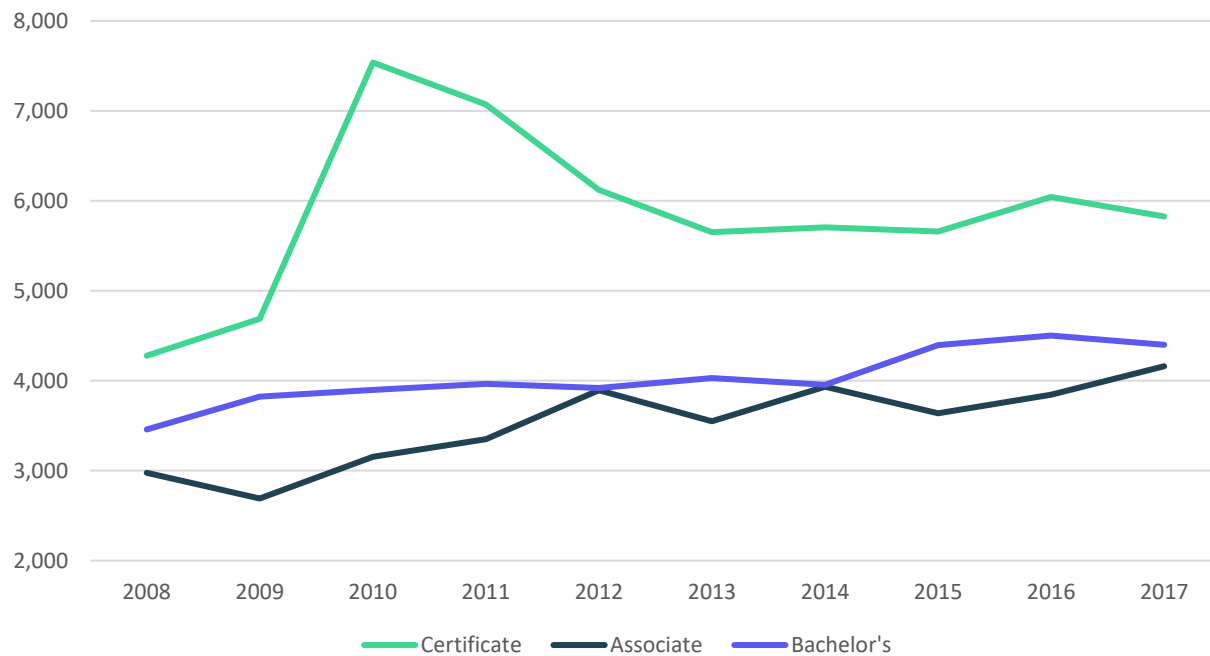
¹⁰ See Appendix 4 for detailed completions data.

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South Texas Vocational Technical Institute-Weslaco	255	0	0
Southern Careers Institute-Brownsville	305	0	0
Southern Careers Institute-Harlingen	351	0	0
Southern Careers Institute-Pharr	458	0	0
Southern Texas Careers Academy	31	0	0
Texas Southmost College	90	445	0
The College of Health Care Professions-McAllen Campus	194	0	0
The University of Texas Rio Grande Valley	0	0	4,065
UCAS University of Cosmetology Arts & Sciences-La Joya	70	0	0
UCAS University of Cosmetology Arts & Sciences-McAllen	102	0	0
UCAS University of Cosmetology Arts & Sciences-Harlingen	116	0	0
Valley Grande Institute for Academic Studies	200	0	0
Vogue College of Cosmetology-McAllen	143	0	0
Total	5,801	4,161	4,400

Source: IPEDS.

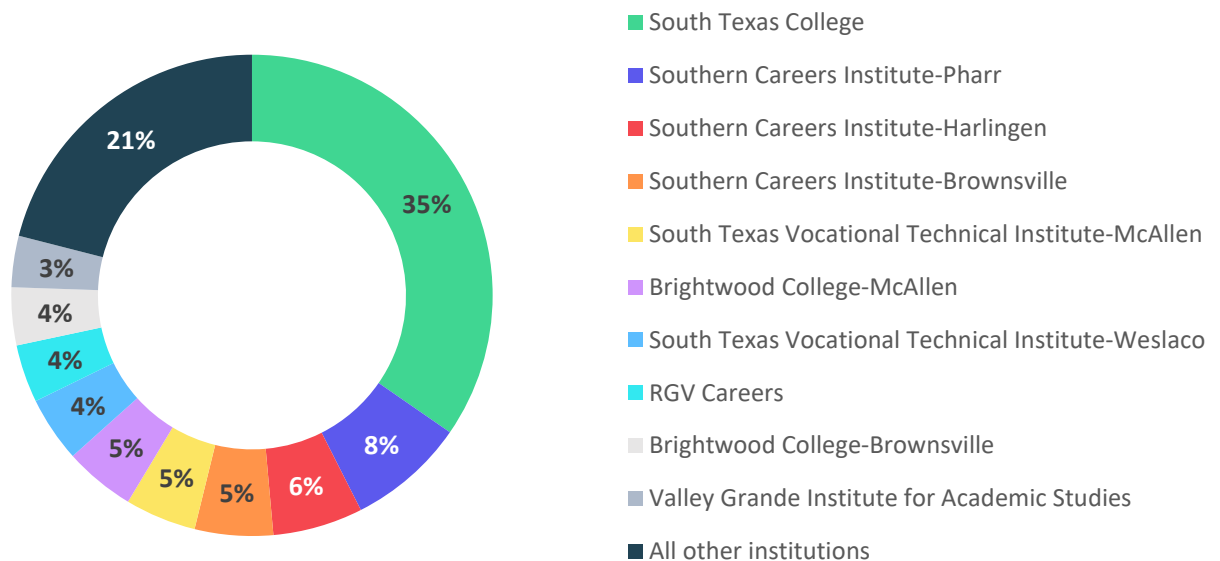
Figure 14: Historical Completions by Award Level in the STC Economic Region



Source: IPEDS.

There are many institutions in the STC Economic Region offering certificate programs. Figure 15 shows the 2017 certificate completions by institution, or market share. Of 23 institutions offering certificates, STC had the highest market share in 2017, with 35% of certificate completers. Various locations of the Southern Careers Institute made up the next 19%, followed by South Texas Vocational Technical Institute-McAllen and Brightwood College-McAllen, each with 5%. Cosmetology institutions accounted for 10% of all certificate completions (included in the “all other” category).

Figure 15: Market Share of Certificate Completions in the STC Economic Region, 2017



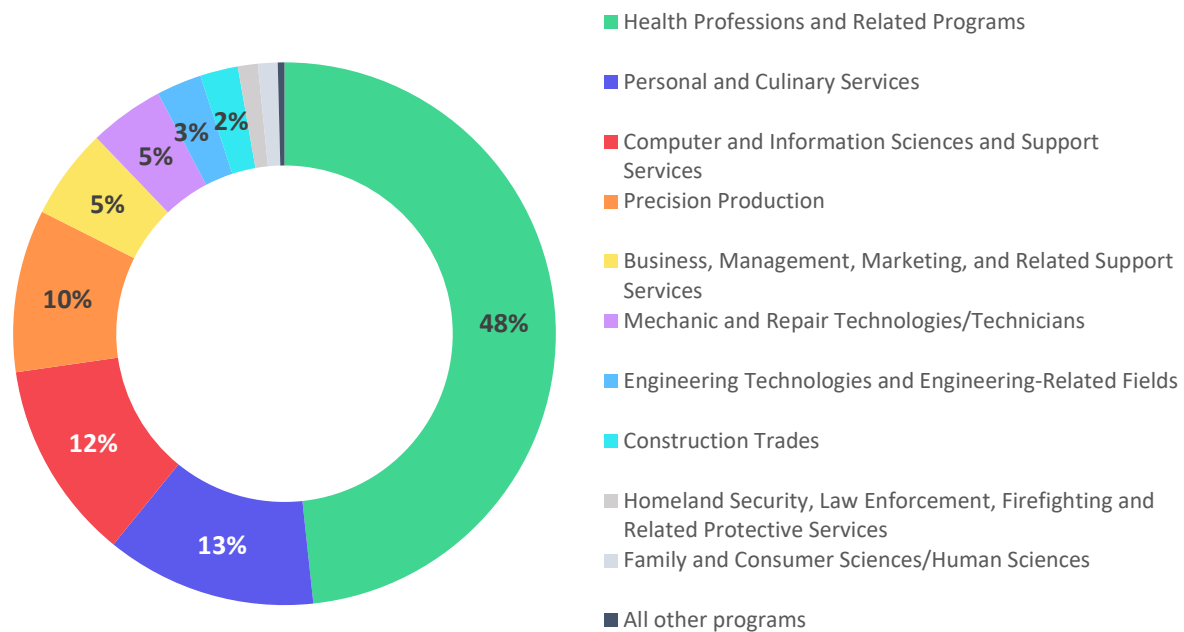
Source: IPEDS.

While the institutions in the STC Economic Region offer programs in a wide variety of subjects, many of the certificate programs in the region are healthcare-related. Figure 16 and Table 7 display certificate completions in the STC Economic Region as classified per the Classification of Instructional Programs (CIP) at the two-digit level. As shown, nearly half of certificates awarded in 2017 were for Health Professions & Related Programs. This makes sense given the region's strong healthcare industry activity, as shown in Section 1. Of all healthcare certificates awarded in 2017, only 14% were from STC. Several other institutions in the region specialize in healthcare, offering either mostly or exclusively healthcare-oriented certificates, such as RGV Careers, Brightwood College-McAllen, the South Texas Vocational Technical Institute, the College of Healthcare Professions-McAllen, and the Valley Grande Institute for Academic Studies.¹¹

The next largest area of regional certificates is Personal & Culinary Services, in large part due to the number of cosmetology institutions in the region. Computer & Information Sciences & Support Services accounts for 12% of certificate completions in the region, most of which are awarded by STC (91%). Other strong certificate program areas in the region include Precision Production (10% of certificates awarded); Business, Management, Marketing, & Related Support Services (5% of certificates awarded); and Mechanic & Repair Technologies/Technicians (5% of certificates awarded).

¹¹ See Appendix 4 for a detailed list of program completions by institution.

Figure 16: Certificate Completions by Program Area in the STC Economic Region, 2017



Source: IPEDS.

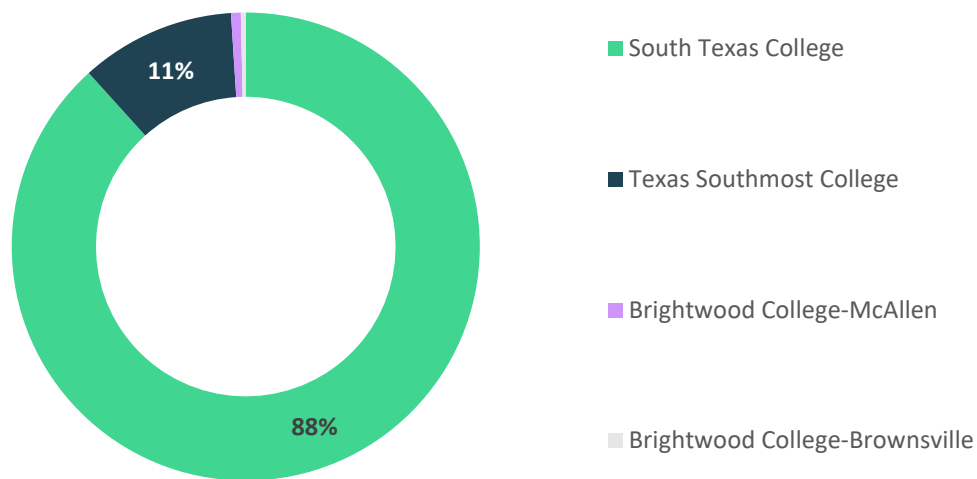
Table 7: Top Certificate Program Areas in the STC Economic Region, 2017

CIP (2-digit)	CIP Title	Total Certificate Completions	STC Certificate Completions	STC % of Certificate Completions
51	Health Professions and Related Programs	2,802	392	14%
12	Personal and Culinary Services	728	52	7%
11	Computer and Information Sciences and Support Services	689	629	91%
48	Precision Production	562	332	59%
52	Business, Management, Marketing, and Related Support Services	314	100	32%
47	Mechanic and Repair Technologies/Technicians	259	190	73%
15	Engineering Technologies and Engineering-Related Fields	156	108	69%
46	Construction Trades	131	65	50%
43	Homeland Security, Law Enforcement, Firefighting and Related Protective Services	69	69	100%
19	Family and Consumer Sciences/Human Sciences	68	67	99%
39	Theology and Religious Vocations	15	0	0%
22	Legal Professions and Studies	8	5	63%
Total		5,801	2,009	35%

Source: IPEDS.

Though there are many institutions offering certificate programs in the STC Economic Region, there are only four offering associate degrees. Figure 17 presents the market share of associate degree completions in the STC Economic Region. As shown, STC accounts for the vast majority of associate degree completions, at 88%.

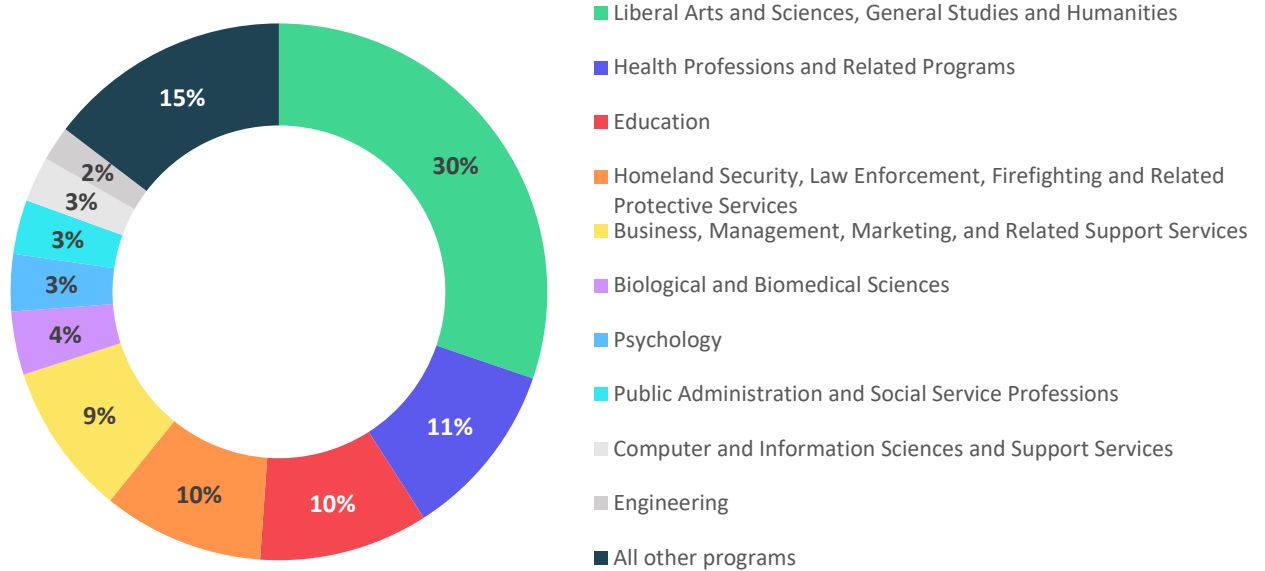
Figure 17: Market Share of Associate Degree Completions in the STC Economic Region, 2017



Source: IPEDS.

Figure 18 and Table 8 present the top program areas for associate degrees in the STC Economic Region. The top program area is Liberal Arts & Sciences, General Studies & Humanities. This reflects the tendency of many associate degree programs to serve as a stepping stone for students who wish to pursue bachelor's degrees. While it's unknown what types of careers students who graduate from general studies programs will ultimately pursue, many other associate degree programs in the region give insight into the fields students are interested. Health Professions & Related Programs make up 11% of associate degree completions, with STC accounting for 89% of those completions. Other top program areas are Education; Homeland Security, Law Enforcement, Firefighting & Related Protective Services; and Business, Management, Marketing, & Related Support Services.

Figure 18: Associate Degree Completions by Program Area in the STC Economic Region, 2017



Source: IPEDS.

Table 8: Top Associate Degree Program Areas in the STC Economic Region, 2017

CIP (2-digit)	CIP Title	Total Associate Degree Completions	STC Associate Degree Completions	STC % of Associate Degree Completions
24	Liberal Arts and Sciences, General Studies and Humanities	1,258	1,125	89%
51	Health Professions and Related Programs	445	378	85%
13	Education	424	368	87%
43	Homeland Security, Law Enforcement, Firefighting and Related Protective Services	404	328	81%
52	Business, Management, Marketing, and Related Support Services	382	336	88%
26	Biological and Biomedical Sciences	159	159	100%
42	Psychology	143	143	100%
44	Public Administration and Social Service Professions	136	93	68%
11	Computer and Information Sciences and Support Services	114	95	83%
14	Engineering	87	87	100%
27	Mathematics and Statistics	68	68	100%
47	Mechanic and Repair Technologies/Technicians	57	55	96%
15	Engineering Technologies and Engineering-Related Fields	55	44	80%
31	Parks, Recreation, Leisure, and Fitness Studies	55	55	100%
50	Visual and Performing Arts	50	47	94%
48	Precision Production	49	49	100%
19	Family and Consumer Sciences/Human Sciences	48	37	77%
16	Foreign Languages, Literatures, and Linguistics	41	41	100%
45	Social Sciences	34	34	100%
22	Legal Professions and Studies	33	21	64%
23	English Language and Literature/Letters	30	30	100%
09	Communication, Journalism, and Related Programs	23	23	100%

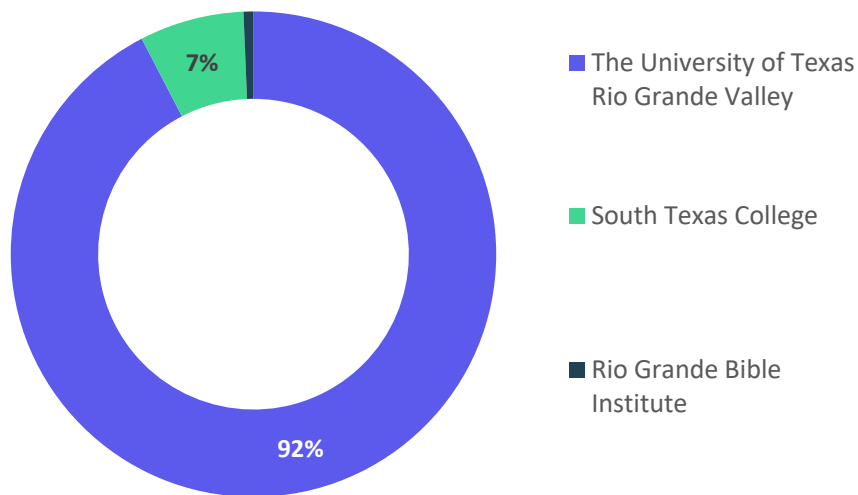
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12	Personal and Culinary Services	16	16	100%
46	Construction Trades	14	13	93%
54	History	14	14	100%
40	Physical Sciences	9	9	100%
04	Architecture and Related Services	6	0	0%
38	Philosophy and Religious Studies	5	5	100%
30	Multi/Interdisciplinary Studies	1	0	0%
05	Area, Ethnic, Cultural, Gender, and Group Studies	1	1	100%
Total		4,161	3,674	88%

Source: IPEDS.

STC is one of three community colleges in Texas that is approved by the Texas Higher Education Coordinating Board to offer bachelor's degrees. As seen in Figure 19, in 2017, bachelor's degrees from STC accounted for 7% of those awarded in the region, with 92% awarded by the University of Texas Rio Grande Valley (UTRGV).

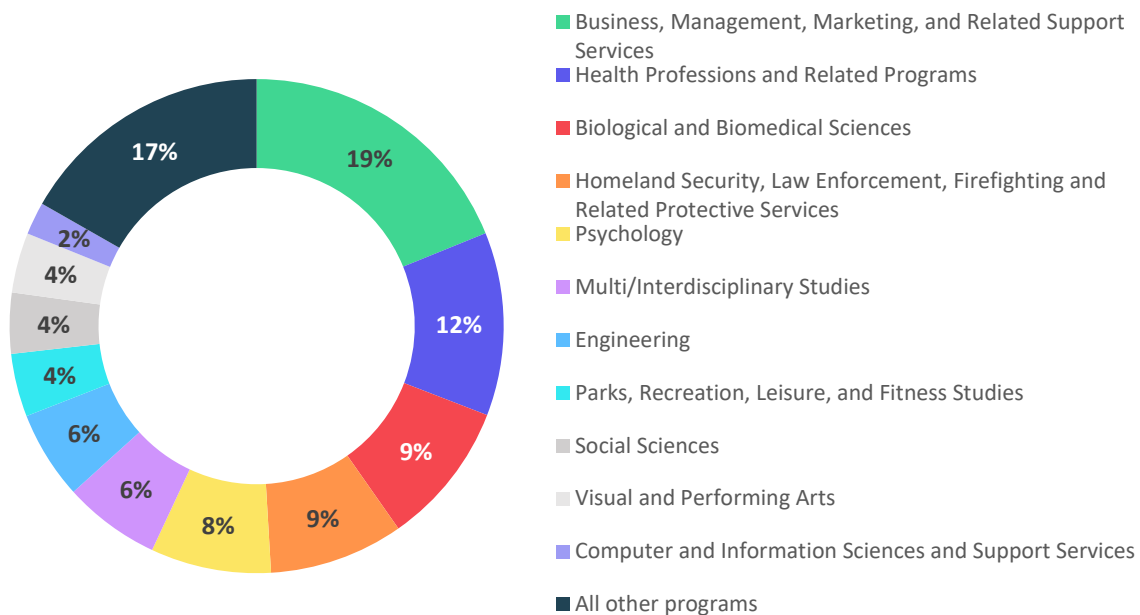
Figure 19: Market Share of Bachelor's Degree Completions in the STC Economic Region, 2017



Source: IPEDS.

STC currently offers four bachelor's degree programs: a Bachelor's of Science in Organizational Leadership, and Bachelor's of Applied Technology degrees in Computer & Information Technologies, Technology Management, and Medical & Health Services Management. The college's Organizational Leadership & Technology Management program is classified under the Business, Management, Marketing, & Related Support Services program area, which is also the top bachelor's degree program area in the region (19% of completions, as shown in Figure 20). Completions from UTRGV account for 74% of completions in that program area, however. UTRGV also offers programs in the Health Professions & Related Programs and Computer & Information Sciences & Support Services program areas, the other two fields for which STC's bachelor's degree programs train.

Figure 20: Bachelor's Degree Completions by Program Area in the STC Economic Region, 2017



Source: IPEDS.

Table 9: Top Bachelor's Degree Program Areas in the STC Economic Region, 2017

CIP (2-digit)	CIP Title	Total Bachelor's Degree Completions	STC Bachelor's Degree Completions	STC % of Bachelor's Degree Completions
52	Business, Management, Marketing, and Related Support Services	830	219	26%
51	Health Professions and Related Programs	528	60	11%
26	Biological and Biomedical Sciences	414	0	0%
43	Homeland Security, Law Enforcement, Firefighting and Related Protective Services	387	0	0%
42	Psychology	347	0	0%
30	Multi/Interdisciplinary Studies	279	0	0%
14	Engineering	254	0	0%
31	Parks, Recreation, Leisure, and Fitness Studies	182	0	0%
45	Social Sciences	175	0	0%
50	Visual and Performing Arts	173	0	0%
11	Computer and Information Sciences and Support Services	94	27	29%
	All other programs	737	0	0%
Total		4,400	306	7%

Source: IPEDS.

While the IPEDS data presented above are useful for determining which other institutions in the region offer similar training to STC, they do not provide a complete picture of the training options available to students. Reporting to IPEDS is only required for institutions who receive federal funding, so there are some private training providers that are not included in the available completions data. Emsi researched private training providers in the STC Economic Region that do not report to IPEDS in order to gain a more robust picture of the region's training offerings. Table 10 displays private training providers in the region organized by primary program area. Note that this is not an exhaustive

list, but a list of providers who came up when searching for private training options for popular types of occupations.

Students may seek training from one of these providers for a variety of reasons, including employer requirements, location, language, scheduling, and cost. Cost information for most of the institutions below was not readily available; however, many include information about federal student aid on their websites, suggesting that students who seek federal aid have a wide variety of options available to them in the STC Economic Region.

Table 10: Other training providers in the STC Economic Region

Name	Location	Programs Offered	Website
Healthcare Training Providers			
Brownsville Dental Assistant School	Brownsville, TX	Dental Assistant	https://brownsvilledentalassistant.com/
Cameron County Education Initiative, Inc.	Brownsville, TX	Medical Assistant Medical Billing & Coding Construction Technology	www.myccei.org
Careers Unlimited	Mission, TX	ECG Technician Nurse Assistant Patient Care Technician Phlebotomy	www.mycareersunlimited.com
Claudy Vocational Institute	Brownsville, TX	Nurse Aide	http://www.claudyvocational.net/
Dental Assistant Training School – Rio Grande Valley	Harlingen, TX	Dental Assistant	https://www.datrainingschool.com/
General Educational Services of Texas	Brownsville, TX	Medical Assistant Medical Office Specialist Child Development/Early Childhood	http://www.gesotx.com/
New Start School	McAllen, TX	Nurse Assistant (CAN) Phlebotomy Physical Therapy Technician	http://132.148.14.51/
RGV Vo-Tech	McAllen, TX	Nurse Aide	http://rgvvotech.com/
Rio Grande Valley College	Pharr, TX	Medical Assistant Medical Billing & Coding Specialist Nurse Aide Pharmacy Technician Vocational Nursing	www.rgvcollege.edu
SixRNs Institute	Edinburg, TX	Medical Assistant Medication Aide Nurse Aide Rehabilitation Aide Phlebotomy Technician	https://apps.twc.state.tx.us/CSC/directory/schoolDetail.do?schoolId=4762
South Texas Nursing Academy	Pharr, TX	Nurse Aide Radiologic Technology Phlebotomy Technician	https://apps.twc.state.tx.us/CSC/directory/schoolDetail.do?schoolId=3343
Southwest School of Business and Technical Careers (also known as Southwest Schools or Career U)	McAllen, TX	Clinical/Medical Assistant Computerized Accounting Specialist General Office Skills Medical Office Specialist Pharmacy Technician	www.sws.edu
Valley Baptist Medical Center School of Vocational Nursing	Harlingen, TX	Vocational Nursing	https://www.valleybaptist.net/for-medical-professionals/education-training/lvn-school-of-nursing

Computer and Information Technology Training Providers			
Onlc Training Centers	McAllen, TX	Various computer skills ranging from desktop applications to software certifications to programming	www.onlc.com
Valley Technical Academy	Mission, TX	Cybersecurity Data Science Web Development	http://www.valleytechnicalacademy.com/
Welding and Pipefitting Training Providers			
Allied Skills Training Center	Brownsville, TX	Combination Welding (5-week program)	http://alliedskills.info/about-us/
Hi-Tech Welding Institute	Brownsville, TX	Welding – structural & pipe training (5-week program)	https://www.facebook.com/Hi-Tech-Welding-Institute-Fab-Shop-421580834709654/
McAllen Careers Institute	McAllen, TX	Pipefitting Welding, various types	http://mcallencareersinstitute.com/
South Texas Specialty Welders, LLC (also known as South Texas Welding School)	Pharr, TX	Welding, various types	http://www.stswweldingschool.com/
Training Providers – Various Fields			
Inter-Tech Technical School	McAllen, TX	Accounting Office Specialist Computer Office Specialist Legal Office Specialist Medical Assistant Medical Office Specialist	https://www.inter-techs.com/

9. Mexico Trade Influence

The information presented in previous sections provides important context for the regional economy and its long-term growth. Because of the STC Economic Region's proximity to Mexico, it is also important to consider international factors that may affect the region. The STC Economic Region is located along the U.S.-Mexico border across the Rio Grande River from Reynosa in Tamaulipas, Mexico. The Reynosa economy plays a significant role in the STC Economic Region, providing both jobs across the border and increased revenue flows in the entire region. Reynosa had a population of 773,089 in 2015,¹² but it also has a significant floating population. In 2015, the Lower Rio Grande Valley-Tamaulipas Border Subregion was estimated to have 2.5 million inhabitants.¹³

A significant amount of trade and travel between Mexico and the U.S. occurs in the STC Economic Region. As shown in Table 6, in 2017 alone, over 30 million people and over 13 million vehicles crossed from Mexico to the U.S. various ports of entry in the STC Economic Region.

¹² "Delimitación de las zonas metropolitanas de México 2015," INEGI, 2018.

¹³ "Competitive Border Communities: Mapping and Developing U.S.-Mexico Transborder Industries," Wilson Center, 2015.

Table 6: 2017 Traffic into U.S. Ports of Entry in the STC Economic Region

Port of entry	2017 People	2017 Vehicles
Hidalgo	11,611,942	5,517,349
Progreso	3,611,979	1,335,137
Rio Grande City	874,949	487,433
Roma	1,795,765	822,973
Brownsville	12,853,443	5,447,928
Total	30,748,078	13,610,820

Source: Bureau of Transportation Statistics, U.S. Department of Homeland Security, Customs and Border Protection, May 2018.

Shoppers and commuters travel frequently between Mexico and the U.S. in the STC Economic Region. Many individuals come from Mexico to shop in McAllen and Brownsville. One of the region's top industries by jobs and LQ is General Merchandise Stores. In 2017, the Retail Trade industry sector had \$5.4 billion in sales, 45% of which brought in money from outside the STC Service Region. Because of this large amount of sales originating from outside the region, the travel of shoppers from Mexico has a significant impact on tax revenues. For example, the city of McAllen collected a total \$54.2 million in sales and use tax in 2017.¹⁴

A 2016 paper by the Wilson Center emphasizes the importance of the economic relationship between the U.S. and Mexico, estimating that 4.9 million jobs in the U.S. depend on trade between the two nations.¹⁵ This figure was arrived at by calculating three economic shifts that could potentially occur if trade with Mexico were to be halted completely: a decrease in the number of U.S. jobs involved in producing exports to Mexico; an increase in jobs returning to the U.S. to produce goods previously imported from Mexico; and a decrease in jobs resulting from economic activity stemming from lower-cost imports. For perspective, the 4.9 million jobs is equivalent to around one out of every 29 jobs in the U.S. For Texas alone, the research estimates that in 2014, over 382,000 jobs were supported by trade with Mexico, the largest of any state.

For parts of Texas along the border, such as the STC Economic Region, it is imperative to keep in mind the roles that the flow of the two nations' citizens and international trade play in the regional economy. The projected data presented throughout this report use historical and current trends; however, future conditions are likely to be impacted by policy that affects the economic relationship between the U.S. and Mexico.

¹⁴ "Sales Tax Allocation, City," Texas Comptroller of Public Accounts, 2018.

¹⁵ "How Trade with Mexico Impacts Employment in the United States," Wilson Center, 2016.

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Appendix 1: About Emsi Data

Emsi data were used to inform the majority of this analysis. In order to capture a complete picture of regional economic and population characteristics, Emsi gathers and integrates economic, labor market, demographic, and education data from over 40 government and private-sector sources, creating a comprehensive and current database that includes both published data and detailed estimates with full coverage of the United States.

More specifically, Emsi combines covered employment data from Quarterly Census of Employment and Wages (QCEW-produced by the Department of Labor) with total employment data in Regional Economic Information System (REIS-published by the Bureau of Economic Analysis or BEA). This is augmented with County Business Patterns (CBP) and Non-Employer Statistics (NES) published by the Census Bureau. Projections are based on the latest-available Emsi industry data, 15-year past local trends in each industry, growth rates in statewide and, where available, sub-state area industry projections published by individual state agencies and, in part, growth rates in national projections from the Bureau of Labor Statistics (BLS).

Through this combination of data sources, Emsi is able to fill gaps in individual sources (such as suppressions), yielding a composite database that leverages the strengths of all its sources. Finally, Emsi's database is updated quarterly, providing the most up-to-date integrated information possible.

Appendix 2: Supporting Data Tables

This appendix holds the supporting data tables for figures provided in the environmental scan.

A2.1 Industry Composition

Table A2.1: Current and Projected Jobs by Industry Subsector in the STC Economic Region, 2017 and 2027

NAICS Code	NAICS Title	2017 Jobs	2027 Jobs	Change	% Change
111	Crop Production	2,154	1,080	(1,073)	(50%)
112	Animal Production & Aquaculture	320	168	(151)	(47%)
113	Forestry & Logging	39	42	3	8%
114	Fishing, Hunting & Trapping	180	204	24	14%
115	Support Activities for Agriculture & Forestry	3,431	2,908	(523)	(15%)
211	Oil & Gas Extraction	293	383	90	31%
212	Mining (except Oil & Gas)	144	216	72	50%
213	Support Activities for Mining	1,183	561	(622)	(53%)
221	Utilities	1,200	1,427	227	19%
236	Construction of Buildings	5,250	4,865	(385)	(7%)
237	Heavy & Civil Engineering Construction	2,757	3,195	438	16%
238	Specialty Trade Contractors	13,291	12,078	(1,213)	(9%)
311	Food Manufacturing	2,965	2,812	(153)	(5%)
312	Beverage & Tobacco Product Manufacturing	163	90	(73)	(45%)
313	Textile Mills	189	285	95	50%
314	Textile Product Mills	158	109	(48)	(31%)
315	Apparel Manufacturing	129	52	(78)	(60%)
316	Leather & Allied Product Manufacturing	125	127	2	1%
321	Wood Product Manufacturing	194	179	(15)	(7%)
322	Paper Manufacturing	739	776	38	5%
323	Printing & Related Support Activities	289	304	15	5%
324	Petroleum & Coal Products Manufacturing	54	30	(24)	(44%)
325	Chemical Manufacturing	261	349	88	34%
326	Plastics & Rubber Products Manufacturing	495	425	(70)	(14%)
327	Nonmetallic Mineral Product Manufacturing	850	755	(95)	(11%)
331	Primary Metal Manufacturing	306	363	57	19%
332	Fabricated Metal Product Manufacturing	1,587	1,655	68	4%
333	Machinery Manufacturing	882	1,218	336	38%
334	Computer & Electronic Product Manufacturing	311	395	84	27%
335	Electrical Equipment, Appliance, & Component Manufacturing	454	460	6	1%
336	Transportation Equipment Manufacturing	1,640	1,485	(156)	(9%)
337	Furniture & Related Product Manufacturing	652	560	(92)	(14%)
339	Miscellaneous Manufacturing	409	457	48	12%
423	Merchant Wholesalers, Durable Goods	6,302	7,022	721	11%
424	Merchant Wholesalers, Nondurable Goods	5,417	6,274	857	16%
425	Wholesale Electronic Markets & Agents & Brokers	904	909	4	<1%
441	Motor Vehicle & Parts Dealers	8,112	9,229	1,118	14%
442	Furniture & Home Furnishings Stores	1,692	1,600	(92)	(5%)

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443	Electronics & Appliance Stores	1,682	1,814	132	8%
444	Building Material & Garden Equipment & Supplies Dealers	4,067	4,525	458	11%
445	Food & Beverage Stores	10,759	11,481	722	7%
446	Health & Personal Care Stores	3,334	3,838	504	15%
447	Gasoline Stations	4,214	4,820	606	14%
448	Clothing & Clothing Accessories Stores	6,969	6,852	(117)	(2%)
451	Sporting Goods, Hobby, Musical Instrument, & Book Stores	1,893	2,875	982	52%
452	General Merchandise Stores	13,778	15,984	2,207	16%
453	Miscellaneous Store Retailers	2,811	2,553	(257)	(9%)
454	Nonstore Retailers	817	694	(123)	(15%)
481	Air Transportation	130	102	(27)	(21%)
482	Rail Transportation	160	154	(6)	(4%)
483	Water Transportation	1	2	<1	22%
484	Truck Transportation	8,123	8,921	798	10%
485	Transit & Ground Passenger Transportation	814	966	152	19%
486	Pipeline Transportation	62	59	(3)	(5%)
487	Scenic & Sightseeing Transportation	106	152	46	43%
488	Support Activities for Transportation	3,006	3,161	155	5%
491	Postal Service	95	172	77	81%
492	Couriers & Messengers	959	1,074	115	12%
493	Warehousing & Storage	1,383	1,476	93	7%
511	Publishing Industries (except Internet)	527	458	(69)	(13%)
512	Motion Picture & Sound Recording Industries	668	775	106	16%
515	Broadcasting (except Internet)	629	604	(25)	(4%)
517	Telecommunications	1,756	1,980	225	13%
518	Data Processing, Hosting, & Related Services	69	60	(9)	(13%)
519	Other Information Services	13	11	(3)	(20%)
521	Monetary Authorities-Central Bank	0	0	0	0%
522	Credit Intermediation & Related Activities	6,387	6,798	410	6%
523	Securities, Commodity Contracts, & Other Financial Investments & Related Activities	606	653	47	8%
524	Insurance Carriers & Related Activities	4,589	5,513	924	20%
525	Funds, Trusts, & Other Financial Vehicles	9	15	6	65%
531	Real Estate	3,882	4,048	166	4%
532	Rental & Leasing Services	1,112	1,025	(87)	(8%)
533	Lessors of Nonfinancial Intangible Assets (except Copyrighted Works)	1	3	1	88%
541	Professional, Scientific, & Technical Services	10,455	12,295	1,841	18%
551	Management of Companies & Enterprises	918	1,231	313	34%
561	Administrative & Support Services	25,947	30,547	4,600	18%
562	Waste Management & Remediation Services	933	1,095	162	17%
611	Educational Services	7,801	10,552	2,751	35%
621	Ambulatory Health Care Services	65,303	94,033	28,729	44%
622	Hospitals	13,862	15,667	1,806	13%
623	Nursing & Residential Care Facilities	6,535	8,168	1,633	25%
624	Social Assistance	28,270	39,805	11,534	41%
711	Performing Arts, Spectator Sports, & Related Industries	1,090	1,267	177	16%
712	Museums, Historical Sites, & Similar Institutions	254	310	57	22%
713	Amusement, Gambling, & Recreation Industries	2,926	3,574	648	22%

721	Accommodation	3,336	3,347	11	0%
722	Food Services & Drinking Places	36,584	43,809	7,225	20%
811	Repair & Maintenance	5,487	5,599	112	2%
812	Personal & Laundry Services	4,534	5,160	625	14%
813	Religious, Grantmaking, Civic, Professional, & Similar Organizations	4,510	4,925	415	9%
814	Private Households	1,195	926	(269)	(22%)
901	Federal Government	11,455	13,473	2,018	18%
902	State Government	12,631	14,465	1,835	15%
903	Local Government	75,715	86,987	11,272	15%
Total		470,672	470,672	555,902	8%

Source: Emsi Employees & Self-Employed 2018.3.

Table A2.2: Location Quotient (LQ) by Industry Subsector in the STC Economic Region, 2017 and 2027

NAICS Code	NAICS Title	2017 LQ	2027 LQ
111	Crop Production	0.89	0.40
112	Animal Production & Aquaculture	0.25	0.13
113	Forestry & Logging	0.17	0.19
114	Fishing, Hunting & Trapping	1.72	1.75
115	Support Activities for Agriculture & Forestry	2.09	1.46
211	Oil & Gas Extraction	0.69	0.71
212	Mining (except Oil & Gas)	0.26	0.38
213	Support Activities for Mining	1.32	0.48
221	Utilities	0.73	0.77
236	Construction of Buildings	0.87	0.68
237	Heavy & Civil Engineering Construction	0.90	0.79
238	Specialty Trade Contractors	0.80	0.61
311	Food Manufacturing	0.63	0.54
312	Beverage & Tobacco Product Manufacturing	0.21	0.10
313	Textile Mills	0.57	0.92
314	Textile Product Mills	0.43	0.32
315	Apparel Manufacturing	0.33	0.16
316	Leather & Allied Product Manufacturing	1.45	1.44
321	Wood Product Manufacturing	0.16	0.13
322	Paper Manufacturing	0.69	0.72
323	Printing & Related Support Activities	0.21	0.24
324	Petroleum & Coal Products Manufacturing	0.16	0.08
325	Chemical Manufacturing	0.11	0.14
326	Plastics & Rubber Products Manufacturing	0.24	0.20
327	Nonmetallic Mineral Product Manufacturing	0.69	0.58
331	Primary Metal Manufacturing	0.28	0.34
332	Fabricated Metal Product Manufacturing	0.38	0.36
333	Machinery Manufacturing	0.28	0.37
334	Computer & Electronic Product Manufacturing	0.10	0.13
335	Electrical Equipment, Appliance, & Component Manufacturing	0.40	0.39
336	Transportation Equipment Manufacturing	0.34	0.28
337	Furniture & Related Product Manufacturing	0.53	0.42
339	Miscellaneous Manufacturing	0.22	0.22

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423	Merchant Wholesalers, Durable Goods	0.71	0.71
424	Merchant Wholesalers, Nondurable Goods	0.88	0.91
425	Wholesale Electronic Markets & Agents & Brokers	0.34	0.28
441	Motor Vehicle & Parts Dealers	1.35	1.29
442	Furniture & Home Furnishings Stores	1.15	1.00
443	Electronics & Appliance Stores	1.10	1.21
444	Building Material & Garden Equipment & Supplies Dealers	1.05	1.02
445	Food & Beverage Stores	1.17	1.12
446	Health & Personal Care Stores	1.04	1.01
447	Gasoline Stations	1.53	1.50
448	Clothing & Clothing Accessories Stores	1.64	1.62
451	Sporting Goods, Hobby, Musical Instrument, & Book Stores	1.01	1.29
452	General Merchandise Stores	1.50	1.54
453	Miscellaneous Store Retailers	1.00	0.81
454	Nonstore Retailers	0.39	0.27
481	Air Transportation	0.09	0.06
482	Rail Transportation	0.23	0.20
483	Water Transportation	0.01	0.01
484	Truck Transportation	1.67	1.63
485	Transit & Ground Passenger Transportation	0.45	0.44
486	Pipeline Transportation	0.43	0.36
487	Scenic & Sightseeing Transportation	0.98	1.09
488	Support Activities for Transportation	1.40	1.19
491	Postal Service	2.70	2.86
492	Couriers & Messengers	0.47	0.45
493	Warehousing & Storage	0.46	0.37
511	Publishing Industries (except Internet)	0.24	0.19
512	Motion Picture & Sound Recording Industries	0.44	0.41
515	Broadcasting (except Internet)	0.77	0.74
517	Telecommunications	0.75	0.87
518	Data Processing, Hosting, & Related Services	0.07	0.05
519	Other Information Services	0.02	0.01
521	Monetary Authorities-Central Bank	0.00	0.00
522	Credit Intermediation & Related Activities	0.82	0.77
523	Securities, Commodity Contracts, & Other Financial Investments & Related Activities	0.21	0.19
524	Insurance Carriers & Related Activities	0.57	0.58
525	Funds, Trusts, & Other Financial Vehicles	0.24	0.32
531	Real Estate	0.63	0.56
532	Rental & Leasing Services	0.67	0.53
533	Lessors of Nonfinancial Intangible Assets (except Copyrighted Works)	0.02	0.03
541	Professional, Scientific, & Technical Services	0.34	0.33
551	Management of Companies & Enterprises	0.14	0.16
561	Administrative & Support Services	0.93	0.91
562	Waste Management & Remediation Services	0.73	0.68
611	Educational Services	0.64	0.69
621	Ambulatory Health Care Services	2.91	2.97
622	Hospitals	0.94	0.90
623	Nursing & Residential Care Facilities	0.67	0.67
624	Social Assistance	2.25	2.34

711	Performing Arts, Spectator Sports, & Related Industries	0.44	0.44
712	Museums, Historical Sites, & Similar Institutions	0.51	0.48
713	Amusement, Gambling, & Recreation Industries	0.57	0.57
721	Accommodation	0.57	0.50
722	Food Services & Drinking Places	1.06	1.05
811	Repair & Maintenance	1.11	0.98
812	Personal & Laundry Services	0.71	0.67
813	Religious, Grantmaking, Civic, Professional, & Similar Organizations	0.52	0.49
814	Private Households	0.46	0.31
901	Federal Government	0.81	0.89
902	State Government	0.80	0.82
903	Local Government	1.82	1.82

Source: Emsi Employees & Self-Employed 2018.3.

Table A2.3: Earnings by Industry Subsector in the STC Economic Region, 2017

NAICS Code	NAICS Title	Earnings	% of Regional Earnings
111	Crop Production	\$99,774,116	0.5%
112	Animal Production & Aquaculture	\$39,659,180	0.2%
113	Forestry & Logging	\$2,517,140	<0.1%
114	Fishing, Hunting & Trapping	\$19,325,684	0.1%
115	Support Activities for Agriculture & Forestry	\$134,268,895	0.6%
211	Oil & Gas Extraction	\$181,198,826	0.9%
212	Mining (except Oil & Gas)	\$18,606,945	0.1%
213	Support Activities for Mining	\$109,433,809	0.5%
221	Utilities	\$109,923,207	0.5%
236	Construction of Buildings	\$239,381,403	1.1%
237	Heavy & Civil Engineering Construction	\$146,355,063	0.7%
238	Specialty Trade Contractors	\$540,943,666	2.5%
311	Food Manufacturing	\$146,817,970	0.7%
312	Beverage & Tobacco Product Manufacturing	\$10,400,955	<0.1%
313	Textile Mills	\$7,358,241	<0.1%
314	Textile Product Mills	\$5,211,633	<0.1%
315	Apparel Manufacturing	\$5,688,170	<0.1%
316	Leather & Allied Product Manufacturing	\$6,946,438	<0.1%
321	Wood Product Manufacturing	\$11,199,022	0.1%
322	Paper Manufacturing	\$43,281,202	0.2%
323	Printing & Related Support Activities	\$10,690,571	0.1%
324	Petroleum & Coal Products Manufacturing	\$4,393,482	<0.1%
325	Chemical Manufacturing	\$67,026,164	0.3%
326	Plastics & Rubber Products Manufacturing	\$25,792,061	0.1%
327	Nonmetallic Mineral Product Manufacturing	\$40,128,024	0.2%
331	Primary Metal Manufacturing	\$17,793,701	0.1%
332	Fabricated Metal Product Manufacturing	\$78,073,460	0.4%
333	Machinery Manufacturing	\$56,128,773	0.3%
334	Computer & Electronic Product Manufacturing	\$35,442,326	0.2%
335	Electrical Equipment, Appliance, & Component Manufacturing	\$32,996,414	0.2%
336	Transportation Equipment Manufacturing	\$118,354,323	0.6%
337	Furniture & Related Product Manufacturing	\$30,171,158	0.1%

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339	Miscellaneous Manufacturing	\$26,190,825	0.1%
423	Merchant Wholesalers, Durable Goods	\$395,371,293	1.9%
424	Merchant Wholesalers, Nondurable Goods	\$307,523,923	1.4%
425	Wholesale Electronic Markets & Agents & Brokers	\$104,307,836	0.5%
441	Motor Vehicle & Parts Dealers	\$418,605,802	2.0%
442	Furniture & Home Furnishings Stores	\$57,695,714	0.3%
443	Electronics & Appliance Stores	\$76,861,671	0.4%
444	Building Material & Garden Equipment & Supplies Dealers	\$131,931,947	0.6%
445	Food & Beverage Stores	\$342,401,945	1.6%
446	Health & Personal Care Stores	\$148,277,912	0.7%
447	Gasoline Stations	\$123,809,043	0.6%
448	Clothing & Clothing Accessories Stores	\$151,056,147	0.7%
451	Sporting Goods, Hobby, Musical Instrument, & Book Stores	\$45,805,315	0.2%
452	General Merchandise Stores	\$373,595,819	1.8%
453	Miscellaneous Store Retailers	\$116,429,252	0.5%
454	Nonstore Retailers	\$55,596,998	0.3%
481	Air Transportation	\$15,119,571	0.1%
482	Rail Transportation	\$13,929,896	0.1%
483	Water Transportation	\$1,062,274	<0.1%
484	Truck Transportation	\$618,983,421	2.9%
485	Transit & Ground Passenger Transportation	\$31,961,297	0.2%
486	Pipeline Transportation	\$13,084,925	0.1%
487	Scenic & Sightseeing Transportation	\$4,160,590	<0.1%
488	Support Activities for Transportation	\$145,016,287	0.7%
491	Postal Service	\$2,477,924	<0.1%
492	Couriers & Messengers	\$45,245,559	0.2%
493	Warehousing & Storage	\$88,796,143	0.4%
511	Publishing Industries (except Internet)	\$20,709,018	0.1%
512	Motion Picture & Sound Recording Industries	\$23,765,690	0.1%
515	Broadcasting (except Internet)	\$40,594,500	0.2%
517	Telecommunications	\$125,088,137	0.6%
518	Data Processing, Hosting, & Related Services	\$5,273,338	<0.1%
519	Other Information Services	\$2,585,425	<0.1%
521	Monetary Authorities-Central Bank	\$0	0.0%
522	Credit Intermediation & Related Activities	\$399,367,076	1.9%
523	Securities, Commodity Contracts, & Other Financial Investments & Related Activities	\$190,012,733	0.9%
524	Insurance Carriers & Related Activities	\$235,957,987	1.1%
525	Funds, Trusts, & Other Financial Vehicles	\$52,421,629	0.2%
531	Real Estate	\$391,672,848	1.8%
532	Rental & Leasing Services	\$69,104,978	0.3%
533	Lessors of Nonfinancial Intangible Assets (except Copyrighted Works)	\$360,645	<0.1%
541	Professional, Scientific, & Technical Services	\$635,139,833	3.0%
551	Management of Companies & Enterprises	\$78,895,033	0.4%
561	Administrative & Support Services	\$778,670,800	3.7%
562	Waste Management & Remediation Services	\$51,934,393	0.2%
611	Educational Services	\$339,803,126	1.6%
621	Ambulatory Health Care Services	\$2,264,776,507	10.6%

622	Hospitals	\$954,258,222	4.5%
623	Nursing & Residential Care Facilities	\$258,572,317	1.2%
624	Social Assistance	\$528,563,029	2.5%
711	Performing Arts, Spectator Sports, & Related Industries	\$39,330,238	0.2%
712	Museums, Historical Sites, & Similar Institutions	\$9,996,611	<0.1%
713	Amusement, Gambling, & Recreation Industries	\$58,166,481	0.3%
721	Accommodation	\$94,396,932	0.4%
722	Food Services & Drinking Places	\$705,041,559	3.3%
811	Repair & Maintenance	\$199,695,185	0.9%
812	Personal & Laundry Services	\$225,621,763	1.1%
813	Religious, Grantmaking, Civic, Professional, & Similar Organizations	\$106,420,703	0.5%
814	Private Households	\$15,101,120	0.1%
901	Federal Government	\$1,155,663,399	5.4%
902	State Government	\$699,316,931	3.3%
903	Local Government	\$4,268,159,127	20.1%
Total*		\$21,275,018,665	100%

Source: Emsi Employees & Self-Employed 2018.3.

*Totals may not add due to rounding.

A2.2 Industry Staffing Patterns

Table A2.1: Employment Projections in the STC Economic Region for the Top 25 Occupations Related to the Local Government (NAICS 903) Industry Subsector

SOC Code	SOC Title	2017 Jobs	2027 Jobs	Change	% Change	% of Jobs in Industry
25-2021	Elementary School Teachers, Except Special Education	8,283	9,274	991	12%	10.9%
25-2031	Secondary School Teachers, Except Special and Career/Technical Education	6,588	7,334	746	11%	8.7%
25-9041	Teacher Assistants	4,544	5,234	690	15%	6.0%
25-2022	Middle School Teachers, Except Special and Career/Technical Education	4,409	4,895	486	11%	5.8%
25-3098	Substitute Teachers	3,049	3,423	374	12%	4.0%
43-9061	Office Clerks, General	2,963	3,205	242	8%	3.9%
37-2011	Janitors and Cleaners, Except Maids and Housekeeping Cleaners	2,936	3,347	411	14%	3.9%
33-3051	Police and Sheriff's Patrol Officers	2,566	3,161	595	23%	3.4%
43-6014	Secretaries and Administrative Assistants, Except Legal, Medical, and Executive	2,543	2,607	64	3%	3.4%
53-3022	Bus Drivers, School or Special Client	1,738	1,812	74	4%	2.3%
35-3021	Combined Food Preparation and Serving Workers, Including Fast Food	1,427	1,584	157	11%	1.9%
11-9032	Education Administrators, Elementary and Secondary School	1,353	1,516	163	12%	1.8%
25-1099	Postsecondary Teachers	1,201	1,657	456	38%	1.6%
49-9071	Maintenance and Repair Workers, General	1,171	1,383	212	18%	1.5%
35-2012	Cooks, Institution and Cafeteria	1,058	1,079	21	2%	1.4%
21-1012	Educational, Guidance, School, and Vocational Counselors	1,047	1,181	134	13%	1.4%
33-3021	Detectives and Criminal Investigators	1,011	1,161	150	15%	1.3%
25-3097	Teachers and Instructors, All Other	886	994	108	12%	1.2%
39-9011	Childcare Workers	863	970	107	12%	1.1%
33-3012	Correctional Officers and Jailers	783	862	79	10%	1.0%

33-2011	Firefighters	781	1,012	231	30%	1.0%
53-3021	Bus Drivers, Transit and Intercity	754	899	145	19%	1.0%
25-2012	Kindergarten Teachers, Except Special Education	735	823	88	12%	1.0%
21-1021	Child, Family, and School Social Workers	591	678	87	15%	0.8%
25-2032	Career/Technical Education Teachers, Secondary School	569	631	62	11%	0.8%

Source: Emsi Employees & Self-Employed 2018.3.

Table A2.2: Employment Projections in the STC Economic Region for the Top 25 Occupations Related to the Ambulatory Health Care Services (NAICS 621) Industry Subsector

SOC Code	SOC Title	2017 Jobs	2027 Jobs	Change	% Change	% of Jobs in Industry
39-9021	Personal Care Aides	19,346	26,404	7,058	36%	29.6%
31-1011	Home Health Aides	14,835	22,993	8,158	55%	22.7%
29-1141	Registered Nurses	3,321	5,743	2,422	73%	5.1%
43-6013	Medical Secretaries	2,935	3,766	831	28%	4.5%
31-9092	Medical Assistants	2,435	3,287	852	35%	3.7%
29-2061	Licensed Practical and Licensed Vocational Nurses	2,385	3,655	1,270	53%	3.7%
31-1014	Nursing Assistants	1,554	2,546	992	64%	2.4%
43-9061	Office Clerks, General	1,529	1,848	319	21%	2.3%
43-4171	Receptionists and Information Clerks	936	1,313	377	40%	1.4%
31-9091	Dental Assistants	850	1,203	353	42%	1.3%
29-2041	Emergency Medical Technicians and Paramedics	828	1,093	265	32%	1.3%
43-3021	Billing and Posting Clerks	686	927	241	35%	1.1%
29-1069	Physicians and Surgeons, All Other	552	738	186	34%	0.8%
43-1011	First-Line Supervisors of Office and Administrative Support Workers	519	716	197	38%	0.8%
43-6014	Secretaries and Administrative Assistants, Except Legal, Medical, and Executive	490	616	126	26%	0.8%
43-4051	Customer Service Representatives	478	656	178	37%	0.7%
29-1021	Dentists, General	472	602	130	28%	0.7%
11-9111	Medical and Health Services Managers	465	803	338	73%	0.7%
29-1123	Physical Therapists	459	782	323	70%	0.7%
29-2021	Dental Hygienists	414	618	204	49%	0.6%
29-1151	Nurse Anesthetists	352	410	58	16%	0.5%
29-1071	Physician Assistants	349	511	162	46%	0.5%
29-2018	Clinical Laboratory Technologists and Technicians	345	417	72	21%	0.5%
29-1171	Nurse Practitioners	287	482	195	68%	0.4%
29-1122	Occupational Therapists	271	422	151	56%	0.4%

Source: Emsi Employees & Self-Employed 2018.3.

Table A2.3: Employment Projections in the STC Economic Region for the Top 25 Occupations Related to the Social Assistance (NAICS 624) Industry Subsector

SOC Code	SOC Title	2017 Jobs	2027 Jobs	Change	% Change	% of Jobs in Industry
39-9021	Personal Care Aides	16,852	24,788	7,936	47%	59.6%
39-9011	Childcare Workers	3,430	3,292	(138)	(4%)	12.1%
31-1011	Home Health Aides	1,691	2,653	962	57%	6.0%
25-2011	Preschool Teachers, Except Special Education	1,002	1,129	127	13%	3.5%
21-1093	Social and Human Service Assistants	563	855	292	52%	2.0%
43-9061	Office Clerks, General	345	438	93	27%	1.2%

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21-1021	Child, Family, and School Social Workers	343	495	152	44%	1.2%
25-9041	Teacher Assistants	335	418	83	25%	1.2%
43-6014	Secretaries and Administrative Assistants, Except Legal, Medical, and Executive	178	253	75	42%	0.6%
11-9151	Social and Community Service Managers	167	310	143	86%	0.6%
31-1014	Nursing Assistants	161	301	140	87%	0.6%
21-1018	Substance Abuse, Behavioral Disorder, and Mental Health Counselors	160	234	74	46%	0.6%
21-1023	Mental Health and Substance Abuse Social Workers	154	201	47	31%	0.5%
11-9031	Education Administrators, Preschool and Childcare Center/Program	150	161	11	7%	0.5%
39-1021	First-Line Supervisors of Personal Service Workers	137	251	114	83%	0.5%
35-2012	Cooks, Institution and Cafeteria	130	171	41	32%	0.5%
21-1015	Rehabilitation Counselors	97	154	57	59%	0.3%
53-3041	Taxi Drivers and Chauffeurs	97	124	27	28%	0.3%
37-2011	Janitors and Cleaners, Except Maids and Housekeeping Cleaners	90	125	35	39%	0.3%
11-1021	General and Operations Managers	83	140	57	69%	0.3%
39-9032	Recreation Workers	77	144	67	87%	0.3%
29-1141	Registered Nurses	75	151	76	101%	0.3%
31-1013	Psychiatric Aides	72	89	17	24%	0.3%
43-3031	Bookkeeping, Accounting, and Auditing Clerks	66	94	28	42%	0.2%
53-3022	Bus Drivers, School or Special Client	64	100	36	56%	0.2%

Source: Emsi Employees & Self-Employed 2018.3.

Table A2.7: Employment Projections in the STC Economic Region for the Top 25 Occupations Related to the Truck Transportation (NAICS 484) Industry Subsector

SOC Code	SOC Title	2017 Jobs	2027 Jobs	Change	% Change	% of Jobs in Industry
53-3032	Heavy and Tractor-Trailer Truck Drivers	5,663	6,242	579	10%	69.7%
53-7062	Laborers and Freight, Stock, and Material Movers, Hand	385	441	56	15%	4.7%
49-3031	Bus and Truck Mechanics and Diesel Engine Specialists	265	295	30	11%	3.3%
43-5032	Dispatchers, Except Police, Fire, and Ambulance	239	252	13	5%	2.9%
43-9061	Office Clerks, General	214	213	(1)	(0%)	2.6%
53-3033	Light Truck or Delivery Services Drivers	210	210	0	0%	2.6%
53-1048	First-line Supervisors of Transportation and Material Moving Workers, Except Aircraft Cargo Handling Supervisors	145	160	15	10%	1.8%
43-6014	Secretaries and Administrative Assistants, Except Legal, Medical, and Executive	76	76	0	0%	0.9%
53-7051	Industrial Truck and Tractor Operators	74	84	10	14%	0.9%
43-4051	Customer Service Representatives	70	74	4	6%	0.9%
43-3031	Bookkeeping, Accounting, and Auditing Clerks	61	64	3	5%	0.7%
11-9199	Managers, All Other	58	78	20	34%	0.7%
41-3099	Sales Representatives, Services, All Other	55	61	6	11%	0.7%
11-1021	General and Operations Managers	55	64	9	16%	0.7%
11-3071	Transportation, Storage, and Distribution Managers	34	37	3	9%	0.4%
53-3031	Driver/Sales Workers	31	33	2	6%	0.4%
43-1011	First-Line Supervisors of Office and Administrative Support Workers	27	29	2	7%	0.3%
43-3021	Billing and Posting Clerks	23	27	4	17%	0.3%

53-7064	Packers and Packagers, Hand	22	23	1	5%	0.3%
49-9071	Maintenance and Repair Workers, General	20	22	2	10%	0.2%
43-5011	Cargo and Freight Agents	20	22	2	10%	0.2%
11-1011	Chief Executives	15	21	6	40%	0.2%
43-5071	Shipping, Receiving, and Traffic Clerks	15	16	1	7%	0.2%
49-9098	Helpers--Installation, Maintenance, and Repair Workers	15	16	1	7%	0.2%
49-1011	First-Line Supervisors of Mechanics, Installers, and Repairers	13	15	2	15%	0.2%

Source: Emsi Employees & Self-Employed 2018.3.

Table A2.8: Employment Projections in the STC Economic Region for the Top 25 Occupations Related to the Motor Vehicle and Parts Dealers (NAICS 441) Industry Subsector

SOC Code	SOC Title	2017 Jobs	2027 Jobs	Change	% Change	% of Jobs in Industry
41-2031	Retail Salespersons	1,707	1,974	267	16%	21.0%
49-3023	Automotive Service Technicians and Mechanics	842	1,026	184	22%	10.4%
41-2022	Parts Salespersons	601	667	66	11%	7.4%
41-1011	First-Line Supervisors of Retail Sales Workers	581	591	10	2%	7.2%
49-3093	Tire Repairers and Changers	510	513	3	1%	6.3%
43-9061	Office Clerks, General	371	395	24	6%	4.6%
53-7061	Cleaners of Vehicles and Equipment	371	466	95	26%	4.6%
53-3033	Light Truck or Delivery Services Drivers	346	373	27	8%	4.3%
41-2021	Counter and Rental Clerks	196	235	39	20%	2.4%
49-1011	First-Line Supervisors of Mechanics, Installers, and Repairers	174	205	31	18%	2.1%
49-3021	Automotive Body and Related Repairers	173	210	37	21%	2.1%
43-4051	Customer Service Representatives	172	208	36	21%	2.1%
43-3031	Bookkeeping, Accounting, and Auditing Clerks	146	159	13	9%	1.8%
11-1021	General and Operations Managers	142	168	26	18%	1.8%
53-3041	Taxi Drivers and Chauffeurs	112	111	(1)	(1%)	1.4%
43-6014	Secretaries and Administrative Assistants, Except Legal, Medical, and Executive	97	100	3	3%	1.2%
49-9098	Helpers--Installation, Maintenance, and Repair Workers	74	87	13	18%	0.9%
41-2011	Cashiers	74	86	12	16%	0.9%
53-6031	Automotive and Watercraft Service Attendants	72	89	17	24%	0.9%
43-5081	Stock Clerks and Order Fillers	62	70	8	13%	0.8%
43-4171	Receptionists and Information Clerks	61	73	12	20%	0.7%
53-3031	Driver/Sales Workers	60	70	10	17%	0.7%
41-3099	Sales Representatives, Services, All Other	59	74	15	25%	0.7%
43-1011	First-Line Supervisors of Office and Administrative Support Workers	56	64	8	14%	0.7%
11-2022	Sales Managers	56	78	22	39%	0.7%

Source: Emsi Employees & Self-Employed 2018.3.

A2.3 Economic Base Analysis

Table A2.9: Exports, Earnings, and Value Added by Industry Subsector in the STC Economic Region, 2017

NAICS Code	NAICS Title	Total Exports (millions)	Total Earnings (millions)	Total Value Added (millions)
111	Crop Production	\$235	\$100	\$164
112	Animal Production & Aquaculture	\$156	\$40	\$77
113	Forestry & Logging	\$3	\$3	\$5
114	Fishing, Hunting & Trapping	\$23	\$19	\$31
115	Support Activities for Agriculture & Forestry	\$113	\$134	\$141
211	Oil & Gas Extraction	\$397	\$181	\$411
212	Mining (except Oil & Gas)	\$41	\$19	\$54
213	Support Activities for Mining	\$75	\$109	\$149
221	Utilities	\$66	\$110	\$355
236	Construction of Buildings	\$34	\$239	\$344
237	Heavy & Civil Engineering Construction	\$16	\$146	\$211
238	Specialty Trade Contractors	\$72	\$541	\$777
311	Food Manufacturing	\$787	\$147	\$309
312	Beverage & Tobacco Product Manufacturing	\$32	\$10	\$25
313	Textile Mills	\$23	\$7	\$10
314	Textile Product Mills	\$9	\$5	\$7
315	Apparel Manufacturing	\$7	\$6	\$6
316	Leather & Allied Product Manufacturing	\$36	\$7	\$8
321	Wood Product Manufacturing	\$5	\$11	\$15
322	Paper Manufacturing	\$176	\$43	\$79
323	Printing & Related Support Activities	\$19	\$11	\$15
324	Petroleum & Coal Products Manufacturing	\$5	\$4	\$14
325	Chemical Manufacturing	\$602	\$67	\$269
326	Plastics & Rubber Products Manufacturing	\$89	\$26	\$50
327	Nonmetallic Mineral Product Manufacturing	\$100	\$40	\$82
331	Primary Metal Manufacturing	\$95	\$18	\$29
332	Fabricated Metal Product Manufacturing	\$195	\$78	\$115
333	Machinery Manufacturing	\$106	\$56	\$69
334	Computer & Electronic Product Manufacturing	\$82	\$35	\$78
335	Electrical Equipment, Appliance, & Component Manufacturing	\$96	\$33	\$49
336	Transportation Equipment Manufacturing	\$409	\$118	\$204
337	Furniture & Related Product Manufacturing	\$63	\$30	\$36
339	Miscellaneous Manufacturing	\$41	\$26	\$35
423	Merchant Wholesalers, Durable Goods	\$557	\$395	\$803
424	Merchant Wholesalers, Nondurable Goods	\$407	\$308	\$620
425	Wholesale Electronic Markets & Agents & Brokers	\$52	\$104	\$212
441	Motor Vehicle & Parts Dealers	\$583	\$419	\$715
442	Furniture & Home Furnishings Stores	\$93	\$58	\$98
443	Electronics & Appliance Stores	\$122	\$77	\$130
444	Building Material & Garden Equipment & Supplies Dealers	\$181	\$132	\$225
445	Food & Beverage Stores	\$473	\$342	\$572
446	Health & Personal Care Stores	\$161	\$148	\$251
447	Gasoline Stations	\$198	\$124	\$212

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448	Clothing & Clothing Accessories Stores	\$210	\$151	\$254
451	Sporting Goods, Hobby, Musical Instrument, & Book Stores	\$60	\$46	\$78
452	General Merchandise Stores	\$456	\$374	\$628
453	Miscellaneous Store Retailers	\$179	\$116	\$198
454	Nonstore Retailers	\$22	\$56	\$94
481	Air Transportation	\$13	\$15	\$31
482	Rail Transportation	\$7	\$14	\$29
483	Water Transportation	\$1	\$1	\$3
484	Truck Transportation	\$1,201	\$619	\$804
485	Transit & Ground Passenger Transportation	\$32	\$32	\$35
486	Pipeline Transportation	\$39	\$13	\$52
487	Scenic & Sightseeing Transportation	\$7	\$4	\$6
488	Support Activities for Transportation	\$193	\$145	\$196
491	Postal Service	\$1	\$2	(\$0)
492	Couriers & Messengers	\$23	\$45	\$66
493	Warehousing & Storage	\$51	\$89	\$106
511	Publishing Industries (except Internet)	\$7	\$21	\$35
512	Motion Picture & Sound Recording Industries	\$62	\$24	\$82
515	Broadcasting (except Internet)	\$32	\$41	\$106
517	Telecommunications	\$153	\$125	\$483
518	Data Processing, Hosting, & Related Services	\$1	\$5	\$8
519	Other Information Services	\$1	\$3	\$4
521	Monetary Authorities-Central Bank	\$0	\$0	\$0
522	Credit Intermediation & Related Activities	\$278	\$399	\$869
523	Securities, Commodity Contracts, & Other Financial Investments & Related Activities	\$62	\$190	\$203
524	Insurance Carriers & Related Activities	\$218	\$236	\$371
525	Funds, Trusts, & Other Financial Vehicles	\$99	\$52	\$55
531	Real Estate	\$66	\$392	\$643
532	Rental & Leasing Services	\$77	\$69	\$214
533	Lessors of Nonfinancial Intangible Assets (except Copyrighted Works)	\$5	<\$1	\$10
541	Professional, Scientific, & Technical Services	\$137	\$635	\$828
551	Management of Companies & Enterprises	\$94	\$79	\$86
561	Administrative & Support Services	\$437	\$779	\$944
562	Waste Management & Remediation Services	\$64	\$52	\$85
611	Educational Services	\$238	\$340	\$365
621	Ambulatory Health Care Services	\$1,596	\$2,265	\$2,405
622	Hospitals	\$268	\$954	\$1,069
623	Nursing & Residential Care Facilities	\$88	\$259	\$293
624	Social Assistance	\$414	\$529	\$561
711	Performing Arts, Spectator Sports, & Related Industries	\$9	\$39	\$51
712	Museums, Historical Sites, & Similar Institutions	\$5	\$10	\$11
713	Amusement, Gambling, & Recreation Industries	\$9	\$58	\$90
721	Accommodation	\$29	\$94	\$188
722	Food Services & Drinking Places	\$458	\$705	\$1,040
811	Repair & Maintenance	\$116	\$200	\$231
812	Personal & Laundry Services	\$47	\$226	\$249
813	Religious, Grantmaking, Civic, Professional, & Similar Organizations	\$10	\$106	\$123

814	Private Households	<\$1	\$15	\$15
901	Federal Government	\$13,571	\$1,156	\$1,701
902	State Government	\$3,296	\$699	\$784
903	Local Government	\$3,343	\$4,268	\$4,379
Total*		\$34,825	\$21,275	\$29,219

Source: Emsi Employees & Self-Employed 2018.3.

A2.4 Job Growth and Unemployment

Table A2.10: Historical and Projected Job Growth in the STC Economic Region

STC Economic Region			Texas		Nation	
Year	Job Count	% Change since 2007	Job Count	% Change since 2007	Job Count	% Change since 2007
2007	411,665	-	11,662,775	-	152,747,155	-
2008	419,711	2.0%	11,879,849	1.9%	151,842,769	(0.6%)
2009	418,268	1.6%	11,604,752	(0.5%)	145,721,523	(4.6%)
2010	421,208	2.3%	11,608,009	(0.5%)	144,501,535	(5.4%)
2011	426,120	3.5%	11,843,149	1.5%	146,034,401	(4.4%)
2012	434,573	5.6%	12,175,986	4.4%	148,773,143	(2.6%)
2013	441,349	7.2%	12,465,559	6.9%	150,497,974	(1.5%)
2014	449,667	9.2%	12,844,344	10.1%	153,395,318	0.4%
2015	457,423	11.1%	13,132,030	12.6%	156,373,058	2.4%
2016	464,807	12.9%	13,312,206	14.1%	158,800,545	4.0%
2017	471,162	14.5%	13,544,835	16.1%	160,946,219	5.4%
2018	484,004	17.6%	13,907,351	19.2%	163,694,294	7.2%
2019	495,084	20.3%	14,214,673	21.9%	165,953,552	8.6%
2020	504,936	22.7%	14,483,363	24.2%	167,870,291	9.9%
2021	513,829	24.8%	14,719,642	26.2%	169,512,757	11.0%
2022	520,332	26.4%	14,885,107	27.6%	170,522,541	11.6%
2023	528,543	28.4%	15,101,243	29.5%	172,004,305	12.6%
2024	536,234	30.3%	15,300,784	31.2%	173,335,701	13.5%
2025	543,456	32.0%	15,485,309	32.8%	174,531,388	14.3%
2026	550,255	33.7%	15,656,245	34.2%	175,604,602	15.0%
2027	556,670	35.2%	15,814,880	35.6%	176,567,333	15.6%

Source: Emsi Total Employment, April 2018.

Data on unemployment give researchers an idea of where skills mismatches may exist in the region. Unemployment data can also provide important context when identifying the training programs that are best suited to transitioning unemployed workers into in-demand occupations.

The tables and figures present the number of people unemployed by two-digit industry sector in the STC Economic Region.¹⁶ Data reflect April 2018 and follow the same methodology used by the federal statistical agencies to determine the number of workers in an industry that are not currently

¹⁶ Unemployment by industry data is only available at the two-digit level whereas the industry data reported elsewhere in this analysis is at the three-digit level.

employed. The unemployment rate is not provided because it is difficult to accurately determine the size of the labor force in a given industry on a monthly basis. Rather than the unemployment rate, the percent of all unemployed for the region and for the nation are provided to display which industry sectors have the highest concentration of unemployed workers.

Table A2.11: Number of Unemployed Workers by Industry Sector in the STC Economic Region with National Comparison

NAICS Code	Industry Sector	Number of Unemployed	% of Unemployed	National % of Unemployed	Difference
62	Health Care & Social Assistance	9,202	26%	8%	18%
56	Administrative & Support & Waste Management & Remediation Services	4,483	13%	13%	(1%)
44	Retail Trade	4,014	11%	8%	3%
99	No Previous Work Experience/Unspecified	2,911	8%	7%	2%
23	Construction	2,363	7%	17%	(10%)
72	Accommodation & Food Services	1,927	5%	6%	(1%)
48	Transportation & Warehousing	1,538	4%	4%	1%
52	Finance & Insurance	1,408	4%	3%	1%
42	Wholesale Trade	1,403	4%	3%	1%
31	Manufacturing	1,178	3%	9%	(6%)
54	Professional, Scientific, & Technical Services	1,085	3%	4%	(1%)
61	Educational Services	915	3%	2%	1%
90	Government	687	2%	2%	(1%)
11	Agriculture, Forestry, Fishing & Hunting	641	2%	5%	(3%)
81	Other Services (except Public Administration)	543	2%	2%	(1%)
51	Information	460	1%	2%	(1%)
53	Real Estate & Rental & Leasing	417	1%	1%	<1%
21	Mining, Quarrying, & Oil & Gas Extraction	215	1%	1%	<1%
22	Utilities	166	<1%	<1%	<1%
71	Arts, Entertainment, & Recreation	138	<1%	2%	(2%)
55	Management of Companies & Enterprises	66	<1%	1%	<1%

Source: Emsi Total Unemployment, April 2018.

Table A2.12: Number of Unemployed Worker by Occupational Group in the STC Economic Region with National Comparison

SOC	Occupation	Number of Unemployed	% of Unemployed	National % of Unemployed	Difference
31-0000	Healthcare Support	4,977	14%	3%	11%
43-0000	Office & Administrative Support	4,865	14%	11%	2%
41-0000	Sales & Related	3,760	11%	8%	3%
11-0000	Management	2,898	8%	8%	0%
53-0000	Transportation & Material Moving	2,573	7%	8%	0%
39-0000	Personal Care & Service	2,467	7%	2%	5%
49-0000	Installation, Maintenance, & Repair	1,859	5%	4%	1%
47-0000	Construction & Extraction	1,855	5%	15%	(9%)

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35-0000	Food Preparation & Serving Related	1,689	5%	6%	(1%)
51-0000	Production	1,684	5%	8%	(3%)
13-0000	Business & Financial Operations	1,214	3%	3%	0%
25-0000	Education, Training, & Library	1,169	3%	2%	1%
29-0000	Healthcare Practitioners & Technical	879	2%	2%	1%
99-0000	No Previous Work Experience/Unspecified	845	2%	6%	(4%)
37-0000	Building & Grounds Cleaning & Maintenance	703	2%	5%	(3%)
33-0000	Protective Service	550	2%	1%	0%
21-0000	Community & Social Service	461	1%	1%	0%
45-0000	Farming, Fishing, & Forestry	315	1%	2%	(1%)
15-0000	Computer & Mathematical	290	1%	2%	(1%)
27-0000	Arts, Design, Entertainment, Sports, & Media	253	1%	1%	(1%)
23-0000	Legal	190	1%	<1%	<1%
17-0000	Architecture & Engineering	177	0%	1%	(1%)
19-0000	Life, Physical, & Social Science	50	0%	1%	0%

Source: Emsi Total Unemployment, April 2018.

A2.5 Workforce Commuting Patterns

Table A2.13: STC Economic Region Job Inflow and Outflow

Commuting Status	Jobs	Percentage
Employment Patterns		
Employed in the Economic Region	352,826	100%
Employed and Living in the Economic Region	323,154	92%
Employed in the Economic Region but Living Outside	29,672	8%
Residential Patterns		
Living in the Economic Region	386,383	100%
Living and Employed in the Economic Region	323,154	84%
Living in the Economic Region but Employed Outside	63,229	16%

Source: 2015 Census LEHD.

A2.6 Educational Attainment

Table A2.14: Breakdown of Adult Population in the STC Economic Region by Educational Attainment, 2012 and 2017

Education Level	2012 Population	2012 % Distribution	2017 Population	2017 % Distribution	Population Change	% Distribution Change
Less than high school diploma or equivalent	271,145	38%	302,058	39%	30,913	1.4%
High school diploma or equivalent	170,679	24%	177,021	23%	6,342	(0.8%)
Some college	123,022	17%	127,871	17%	4,848	(0.6%)
Associate degree	35,473	5%	40,246	5%	4,772	0.3%
Bachelor's degree	80,535	11%	84,469	11%	3,935	(0.3%)
Graduate degree or higher	32,938	5%	35,476	5%	2,538	0.0%

Source: Emsi Employees & Self-Employed 2018.3.

Table A2.15: Breakdown of Adult Population in the STC Economic Region by Educational Attainment and Gender

Education Level	Males	Proportion	Females	Proportion
Less than high school diploma or equivalent	138,115	38%	163,943	40%
High school diploma or equivalent	88,300	24%	88,722	22%
Some college	60,554	17%	67,317	17%
Associate degree	19,302	5%	20,943	5%
Bachelor's degree	39,084	11%	45,385	11%
Graduate degree and higher	16,974	5%	18,502	5%

Source: Emsi Employees & Self-Employed 2018.3.

Table A2.16: Breakdown of Adult Population in the STC Economic Region by Educational Attainment and Ethnicity/Race

Ethnicity		Less than High School Diploma	High School Diploma	Some College	Associate Degree	Bachelor's Degree	Graduate Degree and Higher
White, non-hispanic	Count	7,008	21,059	18,256	4,757	17,249	7,802
	Percent	9%	28%	24%	6%	23%	10%
Black, non-hispanic	Count	631	686	691	312	786	186
	Percent	19%	21%	21%	9%	24%	6%

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American Indian or Alaskan native, non-hispanic	Count	231	130	130	54	77	20
	Percent	36%	20%	20%	8%	12%	3%
Asian, non-hispanic	Count	848	789	587	843	3,321	1,363
	Percent	11%	10%	8%	11%	43%	18%
Native Hawaiian or Pacific Islander, non-hispanic	Count	19	34	9	8	55	17
	Percent	14%	24%	6%	5%	39%	12%
Two or more races, non-hispanic	Count	269	223	301	72	151	48
	Percent	25%	21%	28%	7%	14%	5%
Hispanic, all types	Count	293,051	154,100	107,896	34,199	62,830	26,040
	Percent	43%	23%	16%	5%	9%	4%

Source: Emsi Employees & Self-Employed 2018.3.

Appendix 3: Detailed Employment Projections

Table A3.1: Detailed Employment Projections by Occupation for the STC Economic Region, 2017 and 2027

SOC Code	SOC Title	2017 Jobs	2027 Jobs	Change	% Change	Annual Job Openings
11-1011	Chief Executives	388	462	74	19%	41
11-1021	General & Operations Managers	3,794	4,561	766	20%	453
11-1031	Legislators	78	109	31	40%	11
11-2011	Advertising & Promotions Managers	20	23	3	18%	3
11-2021	Marketing Managers	129	173	44	34%	19
11-2022	Sales Managers	380	478	99	26%	50
11-2031	Public Relations & Fundraising Managers	66	87	21	32%	9
11-3011	Administrative Services Managers	392	505	113	29%	52
11-3021	Computer & Information Systems Managers	152	216	64	42%	22
11-3031	Financial Managers	507	690	184	36%	68
11-3051	Industrial Production Managers	150	168	19	13%	14
11-3061	Purchasing Managers	69	85	16	22%	8
11-3071	Transportation, Storage, & Distribution Managers	259	288	29	11%	26
11-3111	Compensation & Benefits Managers	14	18	4	29%	2
11-3121	Human Resources Managers	201	256	55	27%	26
11-3131	Training & Development Managers	60	73	14	23%	8
11-9013	Farmers, Ranchers, & Other Agricultural Managers	936	422	(514)	(55%)	51
11-9021	Construction Managers	1,065	870	(195)	(18%)	71
11-9031	Education Administrators, Preschool & Childcare Center/Program	195	217	22	11%	20
11-9032	Education Administrators, Elementary & Secondary School	1,601	1,869	268	17%	172
11-9033	Education Administrators, Postsecondary	280	352	72	26%	34
11-9039	Education Administrators, All Other	105	127	22	21%	12
11-9041	Architectural & Engineering Managers	100	129	30	30%	12
11-9051	Food Service Managers	960	989	29	3%	123
11-9061	Funeral Service Managers	24	31	8	33%	3
11-9071	Gaming Managers	4	6	1	28%	1
11-9081	Lodging Managers	131	133	2	1%	15
11-9111	Medical & Health Services Managers	844	1,278	434	51%	137
11-9121	Natural Sciences Managers	41	56	15	35%	6
11-9131	Postmasters & Mail Superintendents	25	26	0	2%	2
11-9141	Property, Real Estate, & Community Association Managers	426	482	55	13%	44
11-9151	Social & Community Service Managers	287	483	196	68%	58
11-9161	Emergency Management Directors	23	28	6	26%	3
11-9199	Managers, All Other	2,623	3,152	529	20%	278
13-1011	Agents & Business Managers of Artists, Performers, & Athletes	24	32	8	33%	4
13-1021	Buyers & Purchasing Agents, Farm Products	642	690	48	7%	74
13-1022	Wholesale & Retail Buyers, Except Farm Products	283	329	47	16%	33

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13-1023	Purchasing Agents, Except Wholesale, Retail, & Farm Products	10	12	2	25%	1
13-1031	Claims Adjusters, Examiners, & Investigators	1,700	1,961	260	15%	186
13-1032	Insurance Appraisers, Auto Damage	243	250	7	3%	27
13-1041	Compliance Officers	909	1,152	243	27%	135
13-1051	Cost Estimators	6	7	2	34%	1
13-1071	Human Resources Specialists	30	42	11	37%	5
13-1074	Farm Labor Contractors	150	193	43	29%	23
13-1075	Labor Relations Specialists	535	744	209	39%	83
13-1081	Logisticians	202	250	48	24%	34
13-1111	Management Analysts	116	165	49	42%	20
13-1121	Meeting, Convention, & Event Planners	75	99	24	32%	10
13-1131	Fundraisers	534	664	130	24%	77
13-1141	Compensation, Benefits, & Job Analysis Specialists	363	579	216	59%	73
13-1151	Training & Development Specialists	1,064	1,439	375	35%	165
13-1161	Market Research Analysts & Marketing Specialists	2,112	2,512	399	19%	266
13-1199	Business Operations Specialists, All Other	201	226	25	13%	18
13-2011	Accountants & Auditors	52	73	20	39%	7
13-2021	Appraisers & Assessors of Real Estate	109	130	21	19%	13
13-2031	Budget Analysts	138	182	44	32%	20
13-2041	Credit Analysts	197	228	31	16%	21
13-2051	Financial Analysts	53	66	13	25%	7
13-2052	Personal Financial Advisors	22	33	11	51%	3
13-2053	Insurance Underwriters	53	71	18	34%	7
13-2061	Financial Examiners	436	542	106	24%	55
13-2071	Credit Counselors	125	150	25	20%	13
13-2072	Loan Officers	218	247	29	13%	30
13-2081	Tax Examiners & Collectors, & Revenue Agents	118	158	40	34%	17
13-2082	Tax Preparers	7	14	6	87%	1
13-2099	Financial Specialists, All Other	300	382	82	27%	33
15-1111	Computer & Information Research Scientists	54	76	22	42%	7
15-1121	Computer Systems Analysts	167	181	14	9%	13
15-1122	Information Security Analysts	198	309	111	56%	30
15-1131	Computer Programmers	74	112	38	51%	11
15-1132	Software Developers, Applications	152	197	45	30%	18
15-1133	Software Developers, Systems Software	116	145	29	25%	12
15-1134	Web Developers	343	423	79	23%	35
15-1141	Database Administrators	54	74	20	37%	7
15-1142	Network & Computer Systems Administrators	976	1,224	248	25%	115
15-1143	Computer Network Architects	264	328	64	24%	31
15-1151	Computer User Support Specialists	185	273	89	48%	26
15-1152	Computer Network Support Specialists	5	8	4	74%	1
15-1199	Computer Occupations, All Other	2	3	1	72%	0
15-2011	Actuaries	53	86	32	60%	8
15-2021	Mathematicians	22	37	15	68%	4
15-2031	Operations Research Analysts	4	4	1	20%	0
15-2041	Statisticians	132	142	10	8%	12

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15-2091	Mathematical Technicians	32	35	3	8%	3
15-2099	Mathematical Science Occupations, All Other	18	24	7	37%	2
17-1011	Architects, Except Landscape & Naval	104	116	12	11%	10
17-1012	Landscape Architects	21	32	10	49%	3
17-1021	Cartographers & Photogrammetrists	3	3	0	7%	0
17-1022	Surveyors	8	11	2	28%	1
17-2011	Aerospace Engineers	16	20	4	28%	2
17-2021	Agricultural Engineers	371	455	83	22%	42
17-2031	Biomedical Engineers	21	28	8	37%	3
17-2041	Chemical Engineers	91	124	33	36%	11
17-2051	Civil Engineers	74	101	27	36%	9
17-2061	Computer Hardware Engineers	20	33	13	62%	3
17-2071	Electrical Engineers	21	26	5	23%	2
17-2072	Electronics Engineers, Except Computer	97	131	33	34%	12
17-2081	Environmental Engineers	7	11	4	62%	1
17-2111	Health & Safety Engineers, Except Mining Safety Engineers & Inspectors	13	16	3	23%	1
17-2112	Industrial Engineers	208	264	56	27%	22
17-2121	Marine Engineers & Naval Architects	4	6	2	45%	1
17-2131	Materials Engineers	10	14	4	37%	1
17-2141	Mechanical Engineers	34	41	7	19%	3
17-2151	Mining & Geological Engineers, Including Mining Safety Engineers	113	151	39	34%	13
17-2161	Nuclear Engineers	109	122	13	12%	12
17-2171	Petroleum Engineers	18	24	6	31%	3
17-2199	Engineers, All Other	67	72	5	7%	7
17-3011	Architectural & Civil Drafters	73	75	2	3%	7
17-3012	Electrical & Electronics Drafters	4	5	1	29%	1
17-3013	Mechanical Drafters	222	257	35	16%	26
17-3019	Drafters, All Other	90	117	27	30%	13
17-3021	Aerospace Engineering & Operations Technicians	9	11	2	20%	1
17-3022	Civil Engineering Technicians	10	14	5	47%	2
17-3023	Electrical & Electronics Engineering Technicians	27	34	7	25%	4
17-3024	Electro-Mechanical Technicians	58	64	6	10%	6
17-3025	Environmental Engineering Technicians	64	84	20	31%	9
17-3026	Industrial Engineering Technicians	114	130	16	14%	16
17-3027	Mechanical Engineering Technicians	16	17	1	5%	2
17-3029	Engineering Technicians, Except Drafters, All Other	17	17	0	0%	2
17-3031	Surveying & Mapping Technicians	21	23	2	9%	3
19-1011	Animal Scientists	17	20	3	15%	2
19-1012	Food Scientists & Technologists	9	13	4	39%	1
19-1013	Soil & Plant Scientists	8	13	6	75%	2
19-1021	Biochemists & Biophysicists	58	76	18	31%	8
19-1022	Microbiologists	60	74	14	23%	8
19-1023	Zoologists & Wildlife Biologists	7	9	2	28%	1
19-1029	Biological Scientists, All Other	5	7	2	45%	1
19-1031	Conservation Scientists	37	61	23	62%	7
19-1032	Foresters	2	4	2	80%	0

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19-1041	Epidemiologists	5	5	0	6%	0
19-1042	Medical Scientists, Except Epidemiologists	11	15	5	44%	2
19-1099	Life Scientists, All Other	20	25	5	25%	2
19-2011	Astronomers	46	59	13	29%	7
19-2012	Physicists	3	4	1	15%	0
19-2021	Atmospheric & Space Scientists	40	64	24	59%	8
19-2031	Chemists	26	34	8	31%	4
19-2032	Materials Scientists	4	6	2	59%	1
19-2041	Environmental Scientists & Specialists, Including Health	30	39	9	29%	4
19-2042	Geoscientists, Except Hydrologists & Geographers	11	16	6	52%	2
19-2043	Hydrologists	8	12	3	40%	1
19-2099	Physical Scientists, All Other	401	491	90	22%	41
19-3011	Economists	1	1	0	2%	0
19-3022	Survey Researchers	42	56	14	32%	5
19-3031	Clinical, Counseling, & School Psychologists	3	4	1	33%	0
19-3032	Industrial-Organizational Psychologists	63	87	24	39%	9
19-3039	Psychologists, All Other	6	8	2	30%	1
19-3041	Sociologists	2	3	1	52%	0
19-3051	Urban & Regional Planners	5	7	2	33%	1
19-3091	Anthropologists & Archeologists	9	13	4	41%	1
19-3092	Geographers	63	81	18	29%	9
19-3093	Historians	32	33	2	5%	4
19-3094	Political Scientists	108	131	24	22%	15
19-3099	Social Scientists & Related Workers, All Other	27	35	8	31%	4
19-4011	Agricultural & Food Science Technicians	102	91	(11)	(11%)	11
19-4021	Biological Technicians	2	3	1	22%	0
19-4031	Chemical Technicians	16	24	8	53%	3
19-4041	Geological & Petroleum Technicians	53	68	15	28%	9
19-4051	Nuclear Technicians	19	28	9	51%	4
19-4061	Social Science Research Assistants	17	33	15	90%	5
19-4091	Environmental Science & Protection Technicians, Including Health	78	103	25	32%	14
19-4092	Forensic Science Technicians	1,418	1,658	240	17%	200
19-4093	Forest & Conservation Technicians	45	83	38	83%	11
19-4099	Life, Physical, & Social Science Technicians, All Other	186	272	85	46%	35
21-1011	Substance Abuse & Behavioral Disorder Counselors	556	767	210	38%	98
21-1012	Educational, Guidance, School, & Vocational Counselors	168	203	36	21%	25
21-1013	Marriage & Family Therapists	1,290	1,618	329	25%	197
21-1014	Mental Health Counselors	342	686	344	100%	95
21-1015	Rehabilitation Counselors	690	809	119	17%	96
21-1019	Counselors, All Other	50	86	36	73%	12
21-1021	Child, Family, & School Social Workers	106	147	41	39%	21
21-1022	Healthcare Social Workers	195	245	50	26%	26
21-1023	Mental Health & Substance Abuse Social Workers	1,312	1,785	473	36%	252
21-1029	Social Workers, All Other	226	291	65	29%	41

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21-1091	Health Educators	67	135	69	104%	21
21-1092	Probation Officers & Correctional Treatment Specialists	532	729	197	37%	96
21-1093	Social & Human Service Assistants	253	293	41	16%	41
21-1094	Community Health Workers	121	149	28	24%	23
21-1099	Community & Social Service Specialists, All Other	1,365	1,635	269	20%	97
21-2011	Clergy	9	14	6	64%	1
21-2021	Directors, Religious Activities & Education	17	23	6	38%	2
21-2099	Religious Workers, All Other	10	14	4	42%	1
23-1011	Lawyers	96	117	21	22%	7
23-1012	Judicial Law Clerks	679	840	161	24%	102
23-1021	Administrative Law Judges, Adjudicators, & Hearing Officers	83	102	19	23%	10
23-1022	Arbitrators, Mediators, & Conciliators	184	200	16	9%	19
23-1023	Judges, Magistrate Judges, & Magistrates	40	59	20	50%	7
23-2011	Paralegals & Legal Assistants	3,064	4,008	944	31%	397
23-2091	Court Reporters	1,579	1,831	253	16%	210
23-2093	Title Examiners, Abstractors, & Searchers	858	996	137	16%	114
23-2099	Legal Support Workers, All Other	9,288	10,697	1,408	15%	931
25-1099	Postsecondary Teachers, General	4,966	5,675	709	14%	491
25-2011	Preschool Teachers, Except Special Education	36	44	8	22%	4
25-2012	Kindergarten Teachers, Except Special Education	7,451	8,554	1,103	15%	725
25-2021	Elementary School Teachers, Except Special Education	584	652	68	12%	54
25-2022	Middle School Teachers, Except Special & Career/Technical Education	40	59	19	47%	6
25-2023	Career/Technical Education Teachers, Middle School	603	723	120	20%	65
25-2031	Secondary School Teachers, Except Special & Career/Technical Education	442	511	69	16%	45
25-2032	Career/Technical Education Teachers, Secondary School	524	622	98	19%	55
25-2051	Special Education Teachers, Preschool	68	96	29	42%	10
25-2052	Special Education Teachers, Kindergarten & Elementary School	161	175	14	9%	22
25-2053	Special Education Teachers, Middle School	636	771	136	21%	99
25-2054	Special Education Teachers, Secondary School	1,621	1,886	265	16%	239
25-2059	Special Education Teachers, All Other	3,392	3,871	480	14%	486
25-3011	Adult Basic & Secondary Education & Literacy Teachers & Instructors	22	26	4	18%	3
25-3021	Self-Enrichment Education Teachers	22	28	6	25%	3
25-3098	Substitute Teachers	18	24	6	32%	3
25-3099	Teachers & Instructors, All Other	579	680	101	18%	75
25-4011	Archivists	179	244	65	36%	38
25-4012	Curators	86	97	11	13%	10
25-4013	Museum Technicians & Conservators	23	29	6	25%	3
25-4021	Librarians	728	840	112	15%	89
25-4031	Library Technicians	5,516	6,550	1,033	19%	787
25-9011	Audio-Visual & Multimedia Collections Specialists	149	201	52	35%	23

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25-9021	Farm & Home Management Advisors	102	117	15	14%	11
25-9031	Instructional Coordinators	79	87	8	10%	8
25-9041	Teacher Assistants	88	100	12	14%	9
25-9099	Education, Training, & Library Workers, All Other	42	46	4	10%	4
27-1011	Art Directors	17	18	1	9%	2
27-1012	Craft Artists	53	57	4	8%	6
27-1013	Fine Artists, Including Painters, Sculptors, & Illustrators	25	25	(1)	(3%)	3
27-1014	Multimedia Artists & Animators	183	120	(64)	(35%)	15
27-1019	Artists & Related Workers, All Other	332	371	39	12%	40
27-1021	Commercial & Industrial Designers	128	133	5	4%	14
27-1022	Fashion Designers	432	487	55	13%	53
27-1023	Floral Designers	10	13	3	25%	1
27-1024	Graphic Designers	15	15	(0)	(0%)	2
27-1025	Interior Designers	43	52	9	21%	6
27-1026	Merchandise Displayers & Window Trimmers	102	129	28	27%	14
27-1027	Set & Exhibit Designers	16	18	3	16%	3
27-1029	Designers, All Other	329	444	115	35%	69
27-2011	Actors	26	36	10	40%	6
27-2012	Producers & Directors	24	23	(2)	(6%)	3
27-2021	Athletes & Sports Competitors	10	11	1	7%	2
27-2022	Coaches & Scouts	182	209	27	15%	23
27-2023	Umpires, Referees, & Other Sports Officials	312	363	50	16%	41
27-2031	Dancers	54	62	8	14%	8
27-2032	Choreographers	80	47	(33)	(41%)	6
27-2041	Music Directors & Composers	29	30	1	3%	3
27-2042	Musicians & Singers	8	10	3	33%	1
27-2099	Entertainers & Performers, Sports & Related Workers, All Other	103	104	1	1%	12
27-3011	Radio & Television Announcers	707	810	103	15%	92
27-3012	Public Address System & Other Announcers	209	253	43	21%	29
27-3021	Broadcast News Analysts	40	52	11	28%	6
27-3022	Reporters & Correspondents	209	250	41	19%	26
27-3031	Public Relations Specialists	305	372	67	22%	41
27-3041	Editors	29	38	9	31%	4
27-3042	Technical Writers	153	179	27	17%	19
27-3043	Writers & Authors	59	70	11	18%	8
27-3091	Interpreters & Translators	1	1	0	34%	0
27-3099	Media & Communication Workers, All Other	16	19	2	14%	2
27-4011	Audio & Video Equipment Technicians	264	280	16	6%	28
27-4012	Broadcast Technicians	33	39	7	21%	4
27-4013	Radio Operators	24	32	8	31%	4
27-4014	Sound Engineering Technicians	28	34	6	22%	4
27-4021	Photographers	84	100	16	19%	5
27-4031	Camera Operators, Television, Video, & Motion Picture	496	631	135	27%	31
27-4032	Film & Video Editors	33	39	6	20%	2
27-4099	Media & Communication Equipment Workers, All Other	32	39	7	20%	2

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29-1011	Chiropractors	2	2	1	40%	0
29-1021	Dentists, General	28	33	6	21%	2
29-1022	Oral & Maxillofacial Surgeons	174	229	54	31%	19
29-1023	Orthodontists	92	111	19	20%	6
29-1024	Prosthodontists	708	839	131	19%	51
29-1029	Dentists, All Other Specialists	215	255	40	19%	11
29-1031	Dietitians & Nutritionists	269	366	97	36%	20
29-1041	Optometrists	212	251	39	18%	11
29-1051	Pharmacists	61	77	15	25%	4
29-1061	Anesthesiologists	101	126	25	24%	6
29-1062	Family & General Practitioners	49	63	14	28%	3
29-1063	Internists, General	97	125	27	28%	7
29-1064	Obstetricians & Gynecologists	876	1,134	258	29%	58
29-1065	Pediatricians, General	476	669	193	40%	55
29-1066	Psychiatrists	18	21	3	17%	1
29-1067	Surgeons	455	656	201	44%	51
29-1069	Physicians & Surgeons, All Other	597	967	370	62%	75
29-1071	Physician Assistants	89	102	12	14%	6
29-1081	Podiatrists	38	50	13	34%	4
29-1122	Occupational Therapists	551	690	139	25%	47
29-1123	Physical Therapists	723	885	163	23%	61
29-1124	Radiation Therapists	36	46	10	27%	3
29-1125	Recreational Therapists	107	135	28	26%	10
29-1126	Respiratory Therapists	81	102	22	27%	6
29-1127	Speech-Language Pathologists	8,183	11,633	3,450	42%	925
29-1128	Exercise Physiologists	485	538	53	11%	32
29-1129	Therapists, All Other	10	15	5	45%	1
29-1131	Veterinarians	395	624	229	58%	52
29-1141	Registered Nurses	36	43	7	20%	3
29-1151	Nurse Anesthetists	67	93	26	39%	7
29-1161	Nurse Midwives	1,007	1,140	133	13%	87
29-1171	Nurse Practitioners	433	642	209	48%	58
29-1181	Audiologists	142	163	21	15%	11
29-1199	Health Diagnosing & Treating Practitioners, All Other	142	188	46	32%	14
29-2011	Medical & Clinical Laboratory Technologists	31	39	8	25%	3
29-2012	Medical & Clinical Laboratory Technicians	541	639	98	18%	44
29-2021	Dental Hygienists	72	87	15	21%	6
29-2031	Cardiovascular Technologists & Technicians	1,049	1,378	329	31%	115
29-2032	Diagnostic Medical Sonographers	129	153	24	18%	15
29-2033	Nuclear Medicine Technologists	1,321	1,616	295	22%	157
29-2034	Radiologic Technologists	127	140	13	10%	13
29-2035	Magnetic Resonance Imaging Technologists	84	51	(33)	(39%)	6
29-2041	Emergency Medical Technicians & Paramedics	374	425	52	14%	40
29-2051	Dietetic Technicians	202	252	50	25%	25
29-2052	Pharmacy Technicians	220	270	51	23%	26
29-2053	Psychiatric Technicians	3,704	5,176	1,472	40%	505
29-2054	Respiratory Therapy Technicians	580	759	179	31%	63
29-2055	Surgical Technologists	195	232	37	19%	21

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29-2056	Veterinary Technologists & Technicians	18	22	4	23%	2
29-2057	Ophthalmic Medical Technicians	37	43	6	16%	3
29-2061	Licensed Practical & Licensed Vocational Nurses	354	438	84	24%	36
29-2071	Medical Records & Health Information Technicians	153	181	28	18%	12
29-2081	Opticians, Dispensing	63	71	8	12%	5
29-2091	Orthotists & Prosthetists	111	134	23	20%	9
29-2092	Hearing Aid Specialists	4	6	2	62%	1
29-2099	Health Technologists & Technicians, All Other	106	130	24	23%	9
29-9011	Occupational Health & Safety Specialists	17,209	26,481	9,272	54%	3,712
29-9012	Occupational Health & Safety Technicians	448	425	(24)	(5%)	54
29-9091	Athletic Trainers	4,492	6,132	1,640	37%	833
29-9092	Genetic Counselors	86	100	14	16%	13
29-9099	Healthcare Practitioners & Technical Workers, All Other	139	189	50	36%	28
31-1011	Home Health Aides	10	15	6	62%	2
31-1013	Psychiatric Aides	311	459	147	47%	66
31-1014	Nursing Assistants	277	308	31	11%	41
31-1015	Orderlies	257	308	51	20%	37
31-2011	Occupational Therapy Assistants	925	1,292	367	40%	173
31-2012	Occupational Therapy Aides	2,965	3,910	945	32%	503
31-2021	Physical Therapist Assistants	52	75	23	44%	11
31-2022	Physical Therapist Aides	117	168	51	44%	24
31-9011	Massage Therapists	54	63	10	18%	10
31-9091	Dental Assistants	62	90	28	46%	16
31-9092	Medical Assistants	432	507	75	17%	61
31-9093	Medical Equipment Preparers	354	432	77	22%	62
31-9094	Medical Transcriptionists	116	128	12	11%	10
31-9095	Pharmacy Aides	200	269	69	34%	23
31-9096	Veterinary Assistants & Laboratory Animal Caretakers	67	102	35	52%	10
31-9097	Phlebotomists	114	135	21	19%	16
31-9099	Healthcare Support Workers, All Other	839	1,080	242	29%	95
33-1011	First-Line Supervisors of Correctional Officers	88	104	16	18%	12
33-1012	First-Line Supervisors of Police & Detectives	8	11	3	41%	1
33-1021	First-Line Supervisors of Fire Fighting & Prevention Workers	55	65	10	18%	6
33-1099	First-Line Supervisors of Protective Service Workers, All Other	1,529	1,660	131	9%	155
33-2011	Firefighters	2,507	2,859	352	14%	222
33-2021	Fire Inspectors & Investigators	27	32	5	19%	3
33-2022	Forest Fire Inspectors & Prevention Specialists	27	25	(2)	(7%)	3
33-3011	Bailiffs	2,939	3,593	654	22%	299
33-3012	Correctional Officers & Jailers	15	19	4	27%	2
33-3021	Detectives & Criminal Investigators	65	80	14	22%	10
33-3031	Fish & Game Wardens	59	66	7	12%	8
33-3041	Parking Enforcement Workers	10	14	4	38%	2
33-3051	Police & Sheriff's Patrol Officers	3,540	3,681	141	4%	548
33-3052	Transit & Railroad Police	116	154	38	33%	31

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33-9011	Animal Control Workers	152	206	55	36%	55
33-9021	Private Detectives & Investigators	152	190	38	25%	21
33-9031	Gaming Surveillance Officers & Gaming Investigators	413	489	77	19%	130
33-9032	Security Guards	324	390	66	20%	56
33-9091	Crossing Guards	2,819	3,364	545	19%	543
33-9092	Lifeguards, Ski Patrol, & Other Recreational Protective Service Workers	1,768	1,913	145	8%	301
33-9093	Transportation Security Screeners	1,714	1,883	169	10%	295
33-9099	Protective Service Workers, All Other	4	5	1	20%	1
35-1011	Chefs & Head Cooks	3,631	4,353	722	20%	695
35-1012	First-Line Supervisors of Food Preparation & Serving Workers	543	577	33	6%	90
35-2011	Cooks, Fast Food	23	29	6	26%	5
35-2012	Cooks, Institution & Cafeteria	2,136	2,527	391	18%	476
35-2013	Cooks, Private Household	1,145	1,240	95	8%	226
35-2014	Cooks, Restaurant	14,831	18,597	3,766	25%	3,781
35-2015	Cooks, Short Order	1,554	1,788	234	15%	425
35-2019	Cooks, All Other	6,182	7,205	1,023	17%	1,503
35-2021	Food Preparation Workers	552	654	102	18%	109
35-3011	Bartenders	1,354	1,542	188	14%	290
35-3021	Combined Food Preparation & Serving Workers, Including Fast Food	737	888	151	20%	156
35-3022	Counter Attendants, Cafeteria, Food Concession, & Coffee Shop	983	1,159	177	18%	288
35-3031	Waiters & Waitresses	163	194	32	20%	37
35-3041	Food Servers, Nonrestaurant	494	600	106	22%	79
35-9011	Dining Room & Cafeteria Attendants & Bartender Helpers	498	496	(2)	(0%)	53
35-9021	Dishwashers	7,446	8,965	1,518	20%	1,330
35-9031	Hosts & Hostesses, Restaurant, Lounge, & Coffee Shop	3,476	3,816	340	10%	560
35-9099	Food Preparation & Serving Related Workers, All Other	27	37	11	39%	6
37-1011	First-Line Supervisors of Housekeeping & Janitorial Workers	218	244	26	12%	37
37-1012	First-Line Supervisors of Landscaping, Lawn Service, & Groundskeeping Workers	4,930	5,329	399	8%	711
37-2011	Janitors & Cleaners, Except Maids & Housekeeping Cleaners	110	105	(5)	(4%)	14
37-2012	Maids & Housekeeping Cleaners	253	270	17	7%	36
37-2019	Building Cleaning Workers, All Other	48	60	11	23%	8
37-2021	Pest Control Workers	38	47	9	22%	8
37-3011	Landscaping & Groundskeeping Workers	494	695	200	40%	85
37-3012	Pesticide Handlers, Sprayers, & Applicators, Vegetation	136	133	(3)	(2%)	17
37-3013	Tree Trimmers & Pruners	677	814	137	20%	138
37-3019	Grounds Maintenance Workers, All Other	49	67	18	36%	11
39-1011	Gaming Supervisors	55	59	4	7%	10
39-1012	Slot Supervisors	50	50	(0)	(0%)	8
39-1021	First-Line Supervisors of Personal Service Workers	9	10	1	17%	2

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39-2011	Animal Trainers	149	199	50	33%	53
39-2021	Nonfarm Animal Caretakers	734	885	151	21%	218
39-3011	Gaming Dealers	5	6	2	36%	2
39-3012	Gaming & Sports Book Writers & Runners	17	20	3	21%	5
39-3019	Gaming Service Workers, All Other	7	8	2	27%	2
39-3021	Motion Picture Projectionists	7	8	1	20%	1
39-3031	Ushers, Lobby Attendants, & Ticket Takers	58	72	14	25%	12
39-3091	Amusement & Recreation Attendants	98	112	14	15%	16
39-3092	Costume Attendants	188	221	33	17%	24
39-3093	Locker Room, Coatroom, & Dressing Room Attendants	1,708	1,975	268	16%	268
39-3099	Entertainment Attendants & Related Workers, All Other	5	6	1	18%	1
39-4011	Embalmers	196	239	43	22%	31
39-4021	Funeral Attendants	39	41	2	4%	5
39-4031	Morticians, Undertakers, & Funeral Directors	158	186	28	17%	24
39-5011	Barbers	25	32	7	28%	5
39-5012	Hairdressers, Hairstylists, & Cosmetologists	46	53	6	14%	8
39-5091	Makeup Artists, Theatrical & Performance	101	121	20	20%	23
39-5092	Manicurists & Pedicurists	5,215	5,244	29	1%	870
39-5093	Shampooers	38,473	53,790	15,317	40%	8,879
39-5094	Skincare Specialists	419	550	131	31%	104
39-6011	Baggage Porters & Bellhops	695	905	210	30%	170
39-6012	Concierges	315	437	122	39%	83
39-7011	Tour Guides & Escorts	183	234	51	28%	39
39-7012	Travel Guides	5,773	6,097	323	6%	742
39-9011	Childcare Workers	1,184	1,248	64	5%	128
39-9021	Personal Care Aides	11,895	13,059	1,165	10%	2,698
39-9031	Fitness Trainers & Aerobics Instructors	4	10	6	137%	2
39-9032	Recreation Workers	1,095	1,190	96	9%	169
39-9041	Residential Advisors	740	834	94	13%	117
39-9099	Personal Care & Service Workers, All Other	17,805	19,613	1,808	10%	3,160
41-1011	First-Line Supervisors of Retail Sales Workers	248	219	(29)	(12%)	31
41-1012	First-Line Supervisors of Non-Retail Sales Workers	2,244	2,716	472	21%	312
41-2011	Cashiers	806	869	63	8%	93
41-2012	Gaming Change Persons & Booth Cashiers	114	104	(10)	(9%)	14
41-2021	Counter & Rental Clerks	2,230	2,626	396	18%	361
41-2022	Parts Salespersons	480	533	53	11%	62
41-2031	Retail Salespersons	2,741	3,024	283	10%	353
41-3011	Advertising Sales Agents	181	195	14	8%	37
41-3021	Insurance Sales Agents	72	75	3	4%	14
41-3031	Securities, Commodities, & Financial Services Sales Agents	246	258	13	5%	27
41-3041	Travel Agents	755	797	42	6%	83
41-3099	Sales Representatives, Services, All Other	157	171	14	9%	20
41-4011	Sales Representatives, Wholesale & Manufacturing, Technical & Scientific Products	408	494	86	21%	86
41-4012	Sales Representatives, Wholesale & Manufacturing, Except Technical & Scientific Products	276	223	(54)	(19%)	28

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41-9011	Demonstrators & Product Promoters	501	587	86	17%	87
41-9012	Models	3,345	3,928	583	17%	454
41-9021	Real Estate Brokers	188	192	4	2%	28
41-9022	Real Estate Sales Agents	22	22	(0)	(1%)	3
41-9031	Sales Engineers	12	14	2	15%	2
41-9041	Telemarketers	309	458	148	48%	60
41-9091	Door-To-Door Sales Workers, News & Street Vendors, & Related Workers	1,454	1,834	380	26%	220
41-9099	Sales & Related Workers, All Other	3,908	4,186	278	7%	522
43-1011	First-Line Supervisors of Office & Administrative Support Workers	20	26	6	30%	5
43-2011	Switchboard Operators, Including Answering Service	505	552	47	9%	62
43-2021	Telephone Operators	198	211	13	7%	26
43-2099	Communications Equipment Operators, All Other	2,527	2,487	(40)	(2%)	318
43-3011	Bill & Account Collectors	49	63	14	29%	8
43-3021	Billing & Posting Clerks	64	67	4	6%	8
43-3031	Bookkeeping, Accounting, & Auditing Clerks	9	11	2	19%	1
43-3041	Gaming Cage Workers	367	464	98	27%	49
43-3051	Payroll & Timekeeping Clerks	125	132	7	5%	15
43-3061	Procurement Clerks	8,997	10,412	1,415	16%	1,509
43-3071	Tellers	762	904	142	19%	96
43-3099	Financial Clerks, All Other	462	471	9	2%	64
43-4011	Brokerage Clerks	700	704	5	1%	121
43-4021	Correspondence Clerks	290	388	99	34%	55
43-4031	Court, Municipal, & License Clerks	474	571	97	20%	92
43-4041	Credit Authorizers, Checkers, & Clerks	446	545	99	22%	62
43-4051	Customer Service Representatives	144	131	(13)	(9%)	15
43-4061	Eligibility Interviewers, Government Programs	566	574	8	1%	72
43-4071	File Clerks	370	426	57	15%	54
43-4081	Hotel, Motel, & Resort Desk Clerks	2,013	2,543	530	26%	384
43-4111	Interviewers, Except Eligibility & Loan	154	170	17	11%	20
43-4121	Library Assistants, Clerical	510	636	126	25%	84
43-4131	Loan Interviewers & Clerks	435	473	38	9%	45
43-4141	New Accounts Clerks	196	219	22	11%	24
43-4151	Order Clerks	415	512	98	24%	56
43-4161	Human Resources Assistants, Except Payroll & Timekeeping	829	883	53	6%	90
43-4171	Receptionists & Information Clerks	114	127	13	11%	11
43-4181	Reservation & Transportation Ticket Agents & Travel Clerks	138	152	14	10%	14
43-4199	Information & Record Clerks, All Other	759	830	71	9%	66
43-5011	Cargo & Freight Agents	121	129	9	7%	11
43-5021	Couriers & Messengers	442	540	99	22%	65
43-5031	Police, Fire, & Ambulance Dispatchers	1,999	2,094	95	5%	234
43-5032	Dispatchers, Except Police, Fire, & Ambulance	5,796	6,666	870	15%	965
43-5041	Meter Readers, Utilities	199	206	7	3%	22
43-5051	Postal Service Clerks	783	789	6	1%	95
43-5052	Postal Service Mail Carriers	533	494	(39)	(7%)	60

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43-5053	Postal Service Mail Sorters, Processors, & Processing Machine Operators	4,133	5,123	990	24%	651
43-5061	Production, Planning, & Expediting Clerks	7,302	7,629	327	4%	910
43-5071	Shipping, Receiving, & Traffic Clerks	74	74	0	0%	8
43-5081	Stock Clerks & Order Fillers	800	714	(86)	(11%)	97
43-5111	Weighers, Measurers, Checkers, & Samplers, Recordkeeping	142	145	3	2%	19
43-6011	Executive Secretaries & Executive Administrative Assistants	35	35	0	0%	4
43-6012	Legal Secretaries	699	842	143	20%	100
43-6013	Medical Secretaries	188	233	45	24%	31
43-6014	Secretaries & Administrative Assistants, Except Legal, Medical, & Executive	13,867	14,620	753	5%	1,905
43-9011	Computer Operators	129	139	9	7%	17
43-9021	Data Entry Keyers	14	18	3	24%	3
43-9022	Word Processors & Typists	11	15	3	30%	2
43-9031	Desktop Publishers	371	524	153	41%	70
43-9041	Insurance Claims & Policy Processing Clerks	165	136	(29)	(17%)	22
43-9051	Mail Clerks & Mail Machine Operators, Except Postal Service	34	40	6	18%	6
43-9061	Office Clerks, General	10	9	(1)	(9%)	2
43-9071	Office Machine Operators, Except Computer	332	238	(95)	(28%)	42
43-9081	Proofreaders & Copy Markers	325	226	(99)	(31%)	45
43-9111	Statistical Assistants	2,013	1,771	(242)	(12%)	325
43-9199	Office & Administrative Support Workers, All Other	235	179	(56)	(24%)	34
45-1011	First-Line Supervisors of Farming, Fishing, & Forestry Workers	25	21	(4)	(17%)	4
45-2011	Agricultural Inspectors	110	115	5	5%	13
45-2021	Animal Breeders	30	40	10	32%	5
45-2041	Graders & Sorters, Agricultural Products	13	13	0	3%	2
45-2091	Agricultural Equipment Operators	7	7	(0)	(3%)	1
45-2092	Farmworkers & Laborers, Crop, Nursery, & Greenhouse	23	25	3	11%	4
45-2093	Farmworkers, Farm, Ranch, & Aquacultural Animals	2	2	0	8%	0
45-2099	Agricultural Workers, All Other	2	2	(0)	(19%)	0
45-3011	Fishers & Related Fishing Workers	1,569	1,338	(231)	(15%)	151
45-3021	Hunters & Trappers	51	49	(2)	(4%)	5
45-4011	Forest & Conservation Workers	165	123	(42)	(26%)	13
45-4021	Fallers	28	26	(2)	(8%)	2
45-4022	Logging Equipment Operators	2,750	2,491	(259)	(9%)	259
45-4023	Log Graders & Scalers	103	87	(16)	(15%)	9
45-4029	Logging Workers, All Other	48	42	(6)	(13%)	4
47-1011	First-Line Supervisors of Construction Trades & Extraction Workers	20	14	(6)	(31%)	2
47-2011	Boilermakers	181	153	(27)	(15%)	15
47-2021	Brickmasons & Blockmasons	225	190	(34)	(15%)	24
47-2022	Stonemasons	5	4	(0)	(8%)	1
47-2031	Carpenters	4,286	4,430	144	3%	508
47-2041	Carpet Installers	97	114	17	17%	14
47-2042	Floor Layers, Except Carpet, Wood, & Hard	5	5	0	5%	1

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Tiles						
47-2043	Floor Sanders & Finishers	815	879	63	8%	109
47-2044	Tile & Marble Setters	200	186	(14)	(7%)	19
47-2051	Cement Masons & Concrete Finishers	38	30	(8)	(20%)	3
47-2053	Terrazzo Workers & Finishers	1,178	1,296	118	10%	163
47-2061	Construction Laborers	90	66	(24)	(27%)	9
47-2071	Paving, Surfacing, & Tamping Equipment Operators	37	27	(10)	(26%)	4
47-2072	Pile-Driver Operators	19	22	3	17%	3
47-2073	Operating Engineers & Other Construction Equipment Operators	1,295	1,207	(88)	(7%)	116
47-2081	Drywall & Ceiling Tile Installers	11	7	(4)	(37%)	1
47-2082	Tapers	166	178	12	7%	21
47-2111	Electricians	1,001	1,011	9	1%	116
47-2121	Glaziers	49	43	(7)	(13%)	5
47-2131	Insulation Workers, Floor, Ceiling, & Wall	60	48	(12)	(20%)	6
47-2132	Insulation Workers, Mechanical	385	380	(4)	(1%)	42
47-2141	Painters, Construction & Maintenance	297	283	(14)	(5%)	33
47-2142	Paperhangers	92	69	(23)	(25%)	9
47-2151	Pipelayers	23	32	10	43%	4
47-2152	Plumbers, Pipefitters, & Steamfitters	16	11	(5)	(32%)	2
47-2161	Plasterers & Stucco Masons	30	26	(4)	(12%)	4
47-2171	Reinforcing Iron & Rebar Workers	76	87	12	15%	14
47-2181	Roofers	9	6	(3)	(32%)	1
47-2211	Sheet Metal Workers	129	123	(7)	(5%)	19
47-2221	Structural Iron & Steel Workers	17	17	0	1%	3
47-2231	Solar Photovoltaic Installers	44	39	(4)	(10%)	6
47-3011	Helpers--Brickmasons, Blockmasons, Stonemasons, & Tile & Marble Setters	178	219	41	23%	28
47-3012	Helpers--Carpenters	25	34	9	37%	5
47-3013	Helpers--Electricians	72	70	(2)	(3%)	9
47-3014	Helpers--Painters, Paperhangers, Plasterers, & Stucco Masons	48	60	12	24%	8
47-3015	Helpers--Pipelayers, Plumbers, Pipefitters, & Steamfitters	317	410	94	30%	51
47-3016	Helpers--Roofers	19	24	5	25%	3
47-3019	Helpers, Construction Trades, All Other	83	98	15	18%	14
47-4011	Construction & Building Inspectors	75	81	6	8%	10
47-4021	Elevator Installers & Repairers	31	19	(12)	(38%)	3
47-4031	Fence Erectors	65	35	(30)	(46%)	6
47-4041	Hazardous Materials Removal Workers	223	116	(108)	(48%)	21
47-4051	Highway Maintenance Workers	33	35	2	6%	4
47-4061	Rail-Track Laying & Maintenance Equipment Operators	35	38	3	9%	5
47-4071	Septic Tank Servicers & Sewer Pipe Cleaners	8	11	2	29%	2
47-4091	Segmental Pavers	4	6	2	50%	1
47-4099	Construction & Related Workers, All Other	3	2	(1)	(24%)	0
47-5011	Derrick Operators, Oil & Gas	6	7	0	5%	1
47-5012	Rotary Drill Operators, Oil & Gas	3	6	4	118%	1
47-5013	Service Unit Operators, Oil, Gas, & Mining	395	230	(164)	(42%)	41

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47-5021	Earth Drillers, Except Oil & Gas	50	42	(8)	(17%)	7
47-5031	Explosives Workers, Ordnance Handling Experts, & Blasters	9	8	(1)	(7%)	1
47-5041	Continuous Mining Machine Operators	1,010	1,163	153	15%	118
47-5042	Mine Cutting & Channeling Machine Operators	397	436	40	10%	49
47-5049	Mining Machine Operators, All Other	60	70	10	17%	9
47-5051	Rock Splitters, Quarry	609	672	62	10%	80
47-5061	Roof Bolters, Mining	38	44	6	15%	4
47-5071	Roustabouts, Oil & Gas	43	45	1	3%	5
47-5081	Helpers--Extraction Workers	19	23	3	18%	2
47-5099	Extraction Workers, All Other	122	139	18	14%	14
49-1011	First-Line Supervisors of Mechanics, Installers, & Repairers	34	44	9	27%	5
49-2011	Computer, Automated Teller, & Office Machine Repairers	67	54	(14)	(20%)	6
49-2021	Radio, Cellular, & Tower Equipment Installers & Repairs	94	94	1	1%	11
49-2022	Telecommunications Equipment Installers & Repairers, Except Line Installers	129	133	4	3%	16
49-2091	Avionics Technicians	191	231	39	21%	22
49-2092	Electric Motor, Power Tool, & Related Repairers	599	657	58	10%	73
49-2093	Electrical & Electronics Installers & Repairers, Transportation Equipment	54	58	5	9%	6
49-2094	Electrical & Electronics Repairers, Commercial & Industrial Equipment	2,572	2,835	263	10%	305
49-2095	Electrical & Electronics Repairers, Powerhouse, Substation, & Relay	1,244	1,425	182	15%	150
49-2096	Electronic Equipment Installers & Repairers, Motor Vehicles	89	75	(14)	(15%)	9
49-2097	Electronic Home Entertainment Equipment Installers & Repairers	252	270	19	7%	29
49-2098	Security & Fire Alarm Systems Installers	25	29	4	14%	3
49-3011	Aircraft Mechanics & Service Technicians	63	64	2	2%	8
49-3021	Automotive Body & Related Repairers	51	47	(4)	(9%)	6
49-3022	Automotive Glass Installers & Repairers	70	76	6	9%	9
49-3023	Automotive Service Technicians & Mechanics	17	44	27	156%	7
49-3031	Bus & Truck Mechanics & Diesel Engine Specialists	31	30	(0)	(1%)	4
49-3041	Farm Equipment Mechanics & Service Technicians	631	651	20	3%	90
49-3042	Mobile Heavy Equipment Mechanics, Except Engines	31	34	3	8%	3
49-3043	Rail Car Repairers	275	296	21	8%	26
49-3051	Motorboat Mechanics & Service Technicians	902	903	1	0%	96
49-3052	Motorcycle Mechanics	103	109	7	6%	12
49-3053	Outdoor Power Equipment & Other Small Engine Mechanics	474	509	35	7%	50
49-3091	Bicycle Repairers	175	178	3	2%	20
49-3092	Recreational Vehicle Service Technicians	38	41	3	8%	4
49-3093	Tire Repairers & Changers	2	2	(0)	(19%)	0
49-9011	Mechanical Door Repairers	251	307	56	22%	30
49-9012	Control & Valve Installers & Repairers, Except Mechanical Door	460	513	52	11%	58

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49-9021	Heating, Air Conditioning, & Refrigeration Mechanics & Installers	5	6	0	4%	1
49-9031	Home Appliance Repairers	72	87	15	20%	9
49-9041	Industrial Machinery Mechanics	53	62	9	16%	6
49-9043	Maintenance Workers, Machinery	16	12	(4)	(24%)	1
49-9044	Millwrights	21	24	4	17%	3
49-9045	Refractory Materials Repairers, Except Brickmasons	4,406	4,940	534	12%	554
49-9051	Electrical Power-Line Installers & Repairers	27	33	6	23%	4
49-9052	Telecommunications Line Installers & Repairers	115	105	(10)	(9%)	13
49-9061	Camera & Photographic Equipment Repairers	8	9	1	9%	1
49-9062	Medical Equipment Repairers	2	2	0	3%	0
49-9063	Musical Instrument Repairers & Tuners	48	42	(6)	(13%)	5
49-9064	Watch Repairers	6	5	(1)	(15%)	1
49-9069	Precision Instrument & Equipment Repairers, All Other	44	44	0	0%	5
49-9071	Maintenance & Repair Workers, General	13	14	2	12%	2
49-9081	Wind Turbine Service Technicians	417	453	36	9%	63
49-9091	Coin, Vending, & Amusement Machine Servicers & Repairers	521	594	73	14%	66
49-9092	Commercial Divers	918	986	68	7%	109
49-9093	Fabric Menders, Except Garment	70	54	(16)	(23%)	7
49-9094	Locksmiths & Safe Repairers	25	22	(3)	(10%)	3
49-9095	Manufactured Building & Mobile Home Installers	213	210	(3)	(1%)	28
49-9096	Riggers	38	34	(3)	(9%)	4
49-9097	Signal & Track Switch Repairers	201	153	(48)	(24%)	20
49-9098	Helpers--Installation, Maintenance, & Repair Workers	53	50	(3)	(6%)	7
49-9099	Installation, Maintenance, & Repair Workers, All Other	2	3	1	30%	0
51-1011	First-Line Supervisors of Production & Operating Workers	969	985	16	2%	127
51-2011	Aircraft Structure, Surfaces, Rigging, & Systems Assemblers	728	778	49	7%	123
51-2021	Coil Winders, Tapers, & Finishers	404	458	54	13%	64
51-2022	Electrical & Electronic Equipment Assemblers	256	328	72	28%	47
51-2023	Electromechanical Equipment Assemblers	58	71	13	22%	10
51-2031	Engine & Other Machine Assemblers	81	75	(6)	(8%)	10
51-2041	Structural Metal Fabricators & Fitters	432	408	(25)	(6%)	65
51-2091	Fiberglass Laminators & Fabricators	77	78	0	0%	12
51-2092	Team Assemblers	119	140	21	18%	18
51-2093	Timing Device Assemblers & Adjusters	234	259	26	11%	30
51-2099	Assemblers & Fabricators, All Other	23	28	5	22%	3
51-3011	Bakers	79	79	(1)	(1%)	9
51-3021	Butchers & Meat Cutters	20	20	(1)	(3%)	2
51-3022	Meat, Poultry, & Fish Cutters & Trimmers	20	24	4	18%	3
51-3023	Slaughterers & Meat Packers	241	249	8	3%	31
51-3091	Food & Tobacco Roasting, Baking, & Drying Machine Operators & Tenders	9	9	(0)	(2%)	1
51-3092	Food Batchmakers	44	53	9	20%	7
51-3093	Food Cooking Machine Operators & Tenders	14	15	2	13%	2

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51-3099	Food Processing Workers, All Other	17	19	1	7%	2
51-4011	Computer-Controlled Machine Tool Operators, Metal & Plastic	297	364	67	22%	44
51-4012	Computer Numerically Controlled Machine Tool Programmers, Metal & Plastic	16	18	3	18%	2
51-4021	Extruding & Drawing Machine Setters, Operators, & Tenders, Metal & Plastic	6	5	(1)	(19%)	1
51-4022	Forging Machine Setters, Operators, & Tenders, Metal & Plastic	4	4	0	9%	1
51-4023	Rolling Machine Setters, Operators, & Tenders, Metal & Plastic	5	6	1	13%	1
51-4031	Cutting, Punching, & Press Machine Setters, Operators, & Tenders, Metal & Plastic	8	5	(3)	(36%)	1
51-4032	Drilling & Boring Machine Tool Setters, Operators, & Tenders, Metal & Plastic	249	225	(24)	(10%)	29
51-4033	Grinding, Lapping, Polishing, & Buffing Machine Tool Setters, Operators, & Tenders, Metal & Plastic	98	111	13	13%	14
51-4034	Lathe & Turning Machine Tool Setters, Operators, & Tenders, Metal & Plastic	130	155	26	20%	18
51-4035	Milling & Planing Machine Setters, Operators, & Tenders, Metal & Plastic	1,083	1,048	(35)	(3%)	126
51-4041	Machinists	43	43	0	0%	5
51-4051	Metal-Refining Furnace Operators & Tenders	30	30	0	1%	4
51-4052	Pourers & Casters, Metal	24	23	(1)	(5%)	3
51-4061	Model Makers, Metal & Plastic	69	70	1	2%	8
51-4062	Patternmakers, Metal & Plastic	17	20	3	21%	3
51-4071	Foundry Mold & Coremakers	43	45	2	5%	5
51-4072	Molding, Coremaking, & Casting Machine Setters, Operators, & Tenders, Metal & Plastic	18	20	2	10%	3
51-4081	Multiple Machine Tool Setters, Operators, & Tenders, Metal & Plastic	292	316	24	8%	38
51-4111	Tool & Die Makers	23	24	1	6%	4
51-4121	Welders, Cutters, Solderers, & Brazers	460	487	27	6%	73
51-4122	Welding, Soldering, & Brazing Machine Setters, Operators, & Tenders	129	122	(7)	(6%)	17
51-4191	Heat Treating Equipment Setters, Operators, & Tenders, Metal & Plastic	290	232	(58)	(20%)	30
51-4192	Layout Workers, Metal & Plastic	50	47	(3)	(5%)	5
51-4193	Plating & Coating Machine Setters, Operators, & Tenders, Metal & Plastic	11	12	1	9%	2
51-4193	Plating & Coating Machine Setters, Operators, & Tenders, Metal & Plastic	27	24	(3)	(9%)	4
51-4194	Tool Grinders, Filers, & Sharpeners	231	227	(4)	(2%)	33
51-4199	Metal Workers & Plastic Workers, All Other	25	42	17	69%	6
51-5111	Prepress Technicians & Workers	20	21	1	5%	3
51-5112	Printing Press Operators	6	5	(0)	(6%)	1
51-5113	Print Binding & Finishing Workers	8	10	3	37%	1
51-6011	Laundry & Dry-Cleaning Workers	27	27	1	2%	4
51-6021	Pressers, Textile, Garment, & Related Materials	5	5	0	4%	1
51-6031	Sewing Machine Operators	101	94	(8)	(8%)	11
51-6041	Shoe & Leather Workers & Repairers	38	44	6	15%	6
51-6042	Shoe Machine Operators & Tenders	236	199	(37)	(16%)	25
51-6051	Sewers, Hand	56	46	(10)	(18%)	5

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51-6052	Tailors, Dressmakers, & Custom Sewers	6	5	(0)	(8%)	1
51-6061	Textile Bleaching & Dyeing Machine Operators & Tenders	5	5	(0)	(1%)	1
51-6062	Textile Cutting Machine Setters, Operators, & Tenders	20	21	1	4%	3
51-6063	Textile Knitting & Weaving Machine Setters, Operators, & Tenders	33	34	1	3%	4
51-6064	Textile Winding, Twisting, & Drawing Out Machine Setters, Operators, & Tenders	43	45	2	5%	6
51-6091	Extruding & Forming Machine Setters, Operators, & Tenders, Synthetic & Glass Fibers	3	4	1	24%	0
51-6092	Fabric & Apparel Patternmakers	17	21	4	25%	2
51-6093	Upholsterers	40	45	5	14%	5
51-6099	Textile, Apparel, & Furnishings Workers, All Other	83	96	13	16%	12
51-7011	Cabinetmakers & Bench Carpenters	598	659	60	10%	64
51-7021	Furniture Finishers	24	28	4	18%	3
51-7031	Model Makers, Wood	13	14	0	3%	2
51-7032	Patternmakers, Wood	28	35	6	23%	4
51-7041	Sawing Machine Setters, Operators, & Tenders, Wood	14	17	3	22%	2
51-7042	Woodworking Machine Setters, Operators, & Tenders, Except Sawing	39	49	10	25%	6
51-7099	Woodworkers, All Other	76	66	(10)	(13%)	8
51-8011	Nuclear Power Reactor Operators	205	168	(36)	(18%)	22
51-8012	Power Distributors & Dispatchers	37	36	(1)	(2%)	5
51-8013	Power Plant Operators	116	119	4	3%	15
51-8021	Stationary Engineers & Boiler Operators	12	10	(2)	(14%)	1
51-8031	Water & Wastewater Treatment Plant & System Operators	57	60	4	6%	8
51-8091	Chemical Plant & System Operators	113	107	(5)	(5%)	15
51-8092	Gas Plant Operators	11	11	0	3%	1
51-8093	Petroleum Pump System Operators, Refinery Operators, & Gaugers	920	882	(38)	(4%)	118
51-8099	Plant & System Operators, All Other	127	139	12	10%	17
51-9011	Chemical Equipment Operators & Tenders	34	42	8	23%	6
51-9012	Separating, Filtering, Clarifying, Precipitating, & Still Machine Setters, Operators, & Tenders	14	17	3	22%	2
51-9021	Crushing, Grinding, & Polishing Machine Setters, Operators, & Tenders	57	67	10	17%	9
51-9022	Grinding & Polishing Workers, Hand	542	539	(4)	(1%)	71
51-9023	Mixing & Blending Machine Setters, Operators, & Tenders	135	141	6	4%	17
51-9031	Cutters & Trimmers, Hand	138	148	10	8%	18
51-9032	Cutting & Slicing Machine Setters, Operators, & Tenders	26	27	1	4%	3
51-9041	Extruding, Forming, Pressing, & Compacting Machine Setters, Operators, & Tenders	57	64	7	12%	8
51-9051	Furnace, Kiln, Oven, Drier, & Kettle Operators & Tenders	41	39	(2)	(4%)	7
51-9061	Inspectors, Testers, Sorters, Samplers, & Weighers	12	14	1	11%	2
51-9071	Jewelers & Precious Stone & Metal Workers	60	53	(7)	(11%)	8
51-9081	Dental Laboratory Technicians	23	21	(2)	(7%)	3

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51-9082	Medical Appliance Technicians	14	17	3	20%	2
51-9083	Ophthalmic Laboratory Technicians	90	91	1	1%	11
51-9111	Packaging & Filling Machine Operators & Tenders	159	165	6	4%	20
51-9121	Coating, Painting, & Spraying Machine Setters, Operators, & Tenders	3	4	1	17%	0
51-9122	Painters, Transportation Equipment	451	558	107	24%	95
51-9123	Painting, Coating, & Decorating Workers	241	297	57	24%	40
51-9141	Semiconductor Processors	10	10	1	8%	1
51-9151	Photographic Process Workers & Processing Machine Operators	978	1,076	98	10%	125
51-9191	Adhesive Bonding Machine Operators & Tenders	103	109	6	6%	11
51-9192	Cleaning, Washing, & Metal Pickling Equipment Operators & Tenders	89	97	9	10%	10
51-9193	Cooling & Freezing Equipment Operators & Tenders	133	159	26	20%	18
51-9194	Etchers & Engravers	39	46	7	18%	5
51-9195	Molders, Shapers, & Casters, Except Metal & Plastic	9	8	(1)	(14%)	1
51-9196	Paper Goods Machine Setters, Operators, & Tenders	97	125	28	29%	21
51-9197	Tire Builders	1,180	1,430	250	21%	200
51-9198	Helpers--Production Workers	1,999	2,180	181	9%	294
51-9199	Production Workers, All Other	1,452	1,586	133	9%	192
53-1011	Aircraft Cargo Handling Supervisors	8,514	9,315	801	9%	1,123
53-1021	First-Line Supervisors of Helpers, Laborers, & Material Movers, Hand	2,177	2,474	298	14%	305
53-1031	First-Line Supervisors of Transportation & Material-Moving Machine & Vehicle Operators	843	848	5	1%	96
53-2011	Airline Pilots, Copilots, & Flight Engineers	91	116	25	27%	22
53-2012	Commercial Pilots	60	62	2	4%	6
53-2021	Air Traffic Controllers	1	1	(0)	(6%)	0
53-2022	Airfield Operations Specialists	3	3	0	6%	0
53-2031	Flight Attendants	28	30	1	5%	3
53-3011	Ambulance Drivers & Attendants, Except Emergency Medical Technicians	151	169	18	12%	18
53-3021	Bus Drivers, Transit & Intercity	11	17	6	53%	2
53-3022	Bus Drivers, School or Special Client	10	11	1	14%	1
53-3031	Driver/Sales Workers	42	56	14	34%	8
53-3032	Heavy & Tractor-Trailer Truck Drivers	51	68	17	33%	9
53-3033	Light Truck or Delivery Services Drivers	8	10	2	20%	1
53-3041	Taxi Drivers & Chauffeurs	9	12	3	30%	2
53-3099	Motor Vehicle Operators, All Other	4	6	2	37%	1
53-4011	Locomotive Engineers	74	105	30	41%	18
53-4012	Locomotive Firers	495	561	66	13%	102
53-4013	Rail Yard Engineers, Dinkey Operators, & Hostlers	22	28	6	26%	4
53-4021	Railroad Brake, Signal, & Switch Operators	198	222	24	12%	25
53-4031	Railroad Conductors & Yardmasters	89	106	17	19%	16
53-4041	Subway & Streetcar Operators	154	176	22	14%	23
53-4099	Rail Transportation Workers, All Other	144	141	(3)	(2%)	21

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53-5011	Sailors & Marine Oilers	119	118	(2)	(1%)	14
53-5021	Captains, Mates, & Pilots of Water Vessels	7	7	0	6%	1
53-5022	Motorboat Operators	200	192	(8)	(4%)	24
53-5031	Ship Engineers	1	2	0	31%	0
53-6011	Bridge & Lock Tenders	5	4	(1)	(15%)	1
53-6021	Parking Lot Attendants	1,520	1,554	34	2%	190
53-6031	Automotive & Watercraft Service Attendants	1,144	1,260	116	10%	197
53-6041	Traffic Technicians	5,501	6,179	677	12%	947
53-6051	Transportation Inspectors	206	208	2	1%	31
53-6061	Transportation Attendants, Except Flight Attendants	2,026	2,081	55	3%	343
53-6099	Transportation Workers, All Other	3	3	0	0%	0
53-7011	Conveyor Operators & Tenders	36	30	(6)	(17%)	4
53-7021	Crane & Tower Operators	25	27	2	9%	4
53-7031	Dredge Operators	331	371	40	12%	52
53-7032	Excavating & Loading Machine & Dragline Operators	6	6	1	12%	1
53-7033	Loading Machine Operators, Underground Mining	80	79	(1)	(1%)	11
53-7041	Hoist & Winch Operators	77	84	6	8%	11
53-7051	Industrial Truck & Tractor Operators	1,255	1,334	79	6%	164
53-7061	Cleaners of Vehicles & Equipment	0	0	0	0%	0
53-7062	Laborers & Freight, Stock, & Material Movers, Hand	0	0	0	0%	0
53-7063	Machine Feeders & Offbearers	0	0	0	0%	0
53-7064	Packers & Packagers, Hand	0	0	0	0%	0
53-7071	Gas Compressor & Gas Pumping Station Operators	0	0	0	0%	0
53-7072	Pump Operators, Except Wellhead Pumps	0	0	0	0%	0
53-7073	Wellhead Pumps	0	0	0	0%	0
53-7081	Refuse & Recyclable Material Collectors	0	0	0	0%	0
53-7111	Mine Shuttle Car Operators	0	0	0	0%	0
53-7121	Tank Car, Truck, & Ship Loaders	0	0	0	0%	0
53-7199	Material Moving Workers, All Other	388	462	74	19%	41

Source: Emsi Employees & Self-Employed 2018.3.

Appendix 4: Detailed Completions Data

The table below presents detailed completions data at the certificate, associate, and bachelor's degree levels in the STC Economic Region. Because enrollments can fluctuate over time, the last three years of completions are presented for context. For the purposes of this analysis, certificates of varying lengths have been grouped together into one "certificate" category. More detail can be found in the supplementary data file. Programs offered by STC are highlighted in blue.

Table A4.1: Detailed Completions Data for the STC Economic Region

CIP	CIP Title	Award Level	Institution	Completions		
				2015	2016	2017
03.0104	Environmental Science	Bachelor's	Texas Southmost College	5	0	0
			The University of Texas Rio Grande Valley	9	16	21
04.0201	Architecture	Associate	Texas Southmost College	9	13	6
05.0203	Hispanic-American, Puerto Rican, & Mexican-American/Chicano Studies	Associate	South Texas College	0	0	1
		Bachelor's	The University of Texas Rio Grande Valley	6	14	10
09.0100	Communication, General	Bachelor's	Texas Southmost College	20	0	0
			The University of Texas Rio Grande Valley	0	23	9
09.0101	Speech Communication & Rhetoric	Associate	South Texas College	15	17	23
		Bachelor's	The University of Texas Rio Grande Valley	31	30	34
09.0102	Mass Communication/Media Studies	Bachelor's	The University of Texas Rio Grande Valley	79	68	80
11.0101	Computer & Information Sciences, General	Certificate	South Texas College	792	837	629
			Texas Southmost College	3	2	2
		Associate	South Texas College	41	40	42
			Texas Southmost College	22	20	19
		Bachelor's	South Texas College	23	26	27
			Texas Southmost College	11	0	0
			The University of Texas Rio Grande Valley	0	12	18
11.0401	Information Science/Studies	Bachelor's	Texas Southmost College	17	0	0
			The University of Texas Rio Grande Valley	0	8	9
11.0701	Computer Science	Associate	South Texas College	40	31	53
		Bachelor's	The University of Texas Rio Grande Valley	31	20	40
11.1006	Computer Support Specialist	Certificate	Brightwood College-Brownsville	35	29	19
			Southern Careers Institute-Brownsville	0	33	22
			Southern Careers Institute-Pharr	0	0	17
12.0401	Cosmetology/Cosmetologist,	Certificate	Mission Beauty Institute	0	13	20

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	General		Salon & Spa Institute	36	32	27
			Southern Careers Institute-Brownsville	43	44	59
			Southern Texas Careers Academy	29	21	21
			UCAS University of Cosmetology Arts & Sciences-La Joya	37	46	46
			UCAS University of Cosmetology Arts & Sciences-McAllen	39	73	57
			UCAS University of Cosmetology Arts & Sciences-Harlingen	38	65	55
			UCAS University of Cosmetology Arts & Sciences-Harlingen	0	20	8
			Vogue College of Cosmetology-McAllen	51	51	76
12.0402	Barbering/Barber	Certificate	Advanced Barber College and Hair Design	76	56	60
12.0409	Aesthetician/Esthetician & Skin Care Specialist	Certificate	Mission Beauty Institute	0	2	11
			Salon & Spa Institute	10	4	8
			Southern Texas Careers Academy	6	6	6
			UCAS University of Cosmetology Arts & Sciences-La Joya	8	7	7
			UCAS University of Cosmetology Arts & Sciences-McAllen	17	17	26
			UCAS University of Cosmetology Arts & Sciences-Harlingen	0	15	15
			UCAS University of Cosmetology Arts & Sciences-Harlingen	13	15	15
			Vogue College of Cosmetology-McAllen	21	20	0
12.0410	Nail Technician/Specialist & Manicurist	Certificate	Advanced Barber College and Hair Design	2	1	1
			Mission Beauty Institute	0	22	20
			Southern Texas Careers Academy	10	4	4
			UCAS University of Cosmetology Arts & Sciences-La Joya	22	13	13
			UCAS University of Cosmetology Arts & Sciences-McAllen	20	31	12
			UCAS University of Cosmetology Arts & Sciences-Harlingen	31	20	20

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			Vogue College of Cosmetology-McAllen	24	28	0
12.0413	Cosmetology, Barber/Styling, & Nail Instructor	Certificate	Advanced Barber College and Hair Design	1	2	3
			Mission Beauty Institute	0	1	3
			Salon & Spa Institute	4	4	2
			UCAS University of Cosmetology Arts & Sciences-La Joya	3	4	4
			UCAS University of Cosmetology Arts & Sciences-McAllen	6	5	7
			UCAS University of Cosmetology Arts & Sciences-Harlingen	3	3	3
			Vogue College of Cosmetology-McAllen	4	2	5
12.0499	Cosmetology & Related Personal Grooming Arts, Other	Certificate	Vogue College of Cosmetology-McAllen	0	0	62
12.0501	Baking & Pastry Arts/Baker/Pastry Chef	Certificate	South Texas College	13	30	22
12.0503	Culinary Arts/Chef Training	Certificate	South Texas College	25	34	30
		Associate	South Texas College	21	22	16
13.1203	Junior High/Intermediate/Middle School Education & Teaching	Associate	South Texas College	11	18	15
			Texas Southmost College	1	1	3
13.1205	Secondary Education & Teaching	Associate	South Texas College	72	87	85
			Texas Southmost College	0	3	7
13.1206	Teacher Education, Multiple Levels	Associate	Texas Southmost College	1	1	2
13.1210	Early Childhood Education & Teaching	Associate	South Texas College	245	275	268
			Texas Southmost College	23	18	44
14.0101	Engineering, General	Associate	South Texas College	64	65	87
14.0801	Civil Engineering, General	Bachelor's	The University of Texas Rio Grande Valley	32	42	66
14.0901	Computer Engineering, General	Bachelor's	The University of Texas Rio Grande Valley	15	29	35
14.1001	Electrical & Electronics Engineering	Bachelor's	The University of Texas Rio Grande Valley	48	33	28
14.1201	Engineering Physics/Applied Physics	Bachelor's	Texas Southmost College	32	0	0
			The University of Texas Rio Grande Valley	0	33	12
14.1901	Mechanical Engineering	Bachelor's	The University of Texas Rio Grande Valley	73	79	95
14.3501	Industrial Engineering	Bachelor's	The University of Texas Rio Grande Valley	13	1	0
14.3601	Manufacturing Engineering	Bachelor's	The University of Texas Rio Grande Valley	0	16	18
15.0000	Engineering Technology, General	Bachelor's	Texas Southmost College	6	0	0
			The University of Texas Rio Grande Valley	0	18	9
15.0501	Heating, Ventilation, Air Conditioning & Refrigeration	Certificate	Southern Careers Institute-Harlingen	0	26	46

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	Engineering Technology/Technician					
15.0612	Industrial Technology/Technician	Associate	Texas Southmost College	1	0	0
15.1001	Construction Engineering Technology/Technician	Certificate	South Texas College	1	4	3
		Associate	South Texas College	1	5	2
15.1201	Computer Engineering Technology/Technician	Certificate	South Texas College	4	9	6
		Associate	South Texas College	37	30	21
15.1202	Computer Technology/Computer Systems Technology	Certificate	South Texas College	101	86	69
15.1301	Drafting & Design Technology/Technician, General	Certificate	South Texas College	15	12	30
			Texas Southmost College	2	0	2
		Associate	South Texas College	15	22	21
			Texas Southmost College	4	0	11
16.0101	Foreign Languages & Literatures, General	Associate	South Texas College	26	22	26
16.0103	Language Interpretation & Translation	Bachelor's	Texas Southmost College	8	0	0
16.0103	Language Interpretation & Translation	Bachelor's	The University of Texas Rio Grande Valley	0	8	13
16.0901	French Language & Literature	Bachelor's	The University of Texas Rio Grande Valley	0	0	2
16.0905	Spanish Language & Literature	Associate	Texas Southmost College	0	1	0
			Texas Southmost College	16	0	0
		Bachelor's	The University of Texas Rio Grande Valley	47	74	72
16.1603	Sign Language Interpretation & Translation	Associate	South Texas College	20	24	15
19.0706	Child Development	Certificate	South Texas College	57	78	61
19.0708	Child Care & Support Services Management	Bachelor's	The University of Texas Rio Grande Valley	2	7	5
19.0709	Child Care Provider/Assistant	Certificate	South Texas College	1	5	6
			Texas Southmost College	10	6	1
		Associate	South Texas College	24	25	37
			Texas Southmost College	14	20	11
22.0000	Legal Studies, General	Bachelor's	Texas Southmost College	2	0	0
			The University of Texas Rio Grande Valley	0	2	7
22.0301	Legal Administrative Assistant/Secretary	Certificate	South Texas College	8	2	5
			Texas Southmost College	4	2	3
		Associate	South Texas College	5	2	1
22.0302	Legal Assistant/Paralegal	Associate	South Texas College	26	25	20
			Texas Southmost College	7	22	12
23.0101	English Language & Literature, General	Associate	South Texas College	25	31	30
		Bachelor's	Texas Southmost College	20	0	0
			The University of Texas Rio Grande Valley	155	161	128
24.0102	General Studies	Associate	South Texas College	782	927	1125
			Texas Southmost College	98	127	133
		Bachelor's	The University of Texas Rio	57	57	26

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			Grande Valley			
26.0101	Biology/Biological Sciences, General	Associate	South Texas College	188	191	159
		Bachelor's	Texas Southmost College	80	0	0
			The University of Texas Rio Grande Valley	269	407	380
26.0102	Biomedical Sciences, General	Bachelor's	Texas Southmost College	4	0	0
			The University of Texas Rio Grande Valley	0	22	34
27.0101	Mathematics, General	Associate	South Texas College	31	45	68
		Bachelor's	Texas Southmost College	17	0	0
			The University of Texas Rio Grande Valley	40	59	59
30.1801	Natural Sciences	Associate	Texas Southmost College	1	2	1
30.3001	Computational Science	Bachelor's	The University of Texas Rio Grande Valley	0	0	1
30.9999	Multi-/Interdisciplinary Studies, Other	Bachelor's	Texas Southmost College	210	0	0
			The University of Texas Rio Grande Valley	200	349	278
31.0501	Health & Physical Education/Fitness, General	Associate	South Texas College	52	35	55
31.0505	Kinesiology & Exercise Science	Bachelor's	Texas Southmost College	106	0	0
			The University of Texas Rio Grande Valley	114	169	182
38.0101	Philosophy	Associate	South Texas College	5	4	5
		Bachelor's	The University of Texas Rio Grande Valley	15	13	14
39.0201	Bible/Biblical Studies	Certificate	Rio Grande Bible Institute	4	7	15
		Bachelor's	Rio Grande Bible Institute	26	17	29
40.0101	Physical Sciences	Bachelor's	The University of Texas Rio Grande Valley	2	1	0
40.0501	Chemistry, General	Associate	South Texas College	23	14	4
		Bachelor's	Texas Southmost College	13	0	0
			The University of Texas Rio Grande Valley	35	42	40
40.0801	Physics, General	Associate	South Texas College	9	9	5
		Bachelor's	Texas Southmost College	4	0	0
			The University of Texas Rio Grande Valley	4	14	11
42.0101	Psychology, General	Associate	South Texas College	166	162	143
		Bachelor's	Texas Southmost College	105	0	0
			The University of Texas Rio Grande Valley	258	350	347
43.0103	Criminal Justice/Law Enforcement Administration	Bachelor's	Texas Southmost College	102	0	0
			The University of Texas Rio Grande Valley	250	321	386
43.0104	Criminal Justice/Safety Studies	Associate	Brightwood College-McAllen	36	28	27
			South Texas College	313	265	309
			Texas Southmost College	11	49	49
		Bachelor's	Texas Southmost College	4	0	0
			The University of Texas Rio	0	2	1

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			Grande Valley			
43.0106	Forensic Science & Technology	Associate	Texas Southmost College	1	0	0
43.0107	Criminal Justice/Police Science	Certificate	South Texas College	43	16	41
		Associate	South Texas College	4	7	11
43.0203	Fire Science/Fire-fighting	Certificate	South Texas College	38	18	28
		Associate	South Texas College	13	15	8
44.0401	Public Administration	Bachelor's	Texas Southmost College	2	0	0
			The University of Texas Rio Grande Valley	0	1	0
44.0701	Social Work	Associate	South Texas College	112	106	93
			Texas Southmost College	50	47	43
		Bachelor's	The University of Texas Rio Grande Valley	109	121	108
45.0101	Social Sciences, General	Associate	South Texas College	17	21	16
		Bachelor's	The University of Texas Rio Grande Valley	25	10	22
45.0201	Anthropology	Associate	South Texas College	8	1	5
		Bachelor's	The University of Texas Rio Grande Valley	14	14	17
45.0601	Economics, General	Bachelor's	The University of Texas Rio Grande Valley	12	22	22
45.1001	Political Science & Government, General	Associate	South Texas College	10	11	13
		Bachelor's	Texas Southmost College	16	0	0
			The University of Texas Rio Grande Valley	31	61	63
45.1101	Sociology	Bachelor's	Texas Southmost College	28	0	0
			The University of Texas Rio Grande Valley	37	56	51
46.0301	Electrical & Power Transmission Installation/Installer, General	Certificate	South Texas College	0	0	65
		Associate	South Texas College	7	12	13
46.0302	Electrician	Certificate	Brightwood College-McAllen	46	58	45
			South Texas College	39	40	0
46.0401	Building/Property Maintenance	Associate	Texas Southmost College	0	2	1
46.0412	Building/Construction Site Management/Manager	Certificate	Texas Southmost College	13	11	21
		Associate	Texas Southmost College	1	1	0
47.0201	Heating, Air Conditioning, Ventilation & Refrigeration Maintenance Technology/Technician	Certificate	Brightwood College-Brownsville	49	40	53
			South Texas College	65	47	53
			Texas Southmost College	8	5	3
		Associate	South Texas College	25	17	20
			Texas Southmost College	0	3	2
47.0603	Autobody/Collision & Repair Technology/Technician	Certificate	Texas Southmost College	9	9	10
47.0604	Automobile/Automotive Mechanics Technology/Technician	Certificate	South Texas College	86	72	71
			Texas Southmost College	5	13	3
		Associate	South Texas College	19	14	17
			Texas Southmost College	0	3	0
47.0605	Diesel Mechanics Technology/Technician	Certificate	South Texas College	83	62	66
		Associate	South Texas College	20	18	18

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48.0501	Machine Tool Technology/Machinist	Certificate	South Texas College	0	0	1
48.0507	Tool & Die Technology/Technician	Certificate	South Texas College	42	62	91
		Associate	South Texas College	7	10	12
48.0508	Welding Technology/Welder	Certificate	South Texas College	220	217	240
			South Texas Vocational Technical Institute-Weslaco	74	82	98
			Southern Careers Institute-Harlingen	0	66	76
			Southern Careers Institute-Pharr	0	0	56
		Associate	South Texas College	0	0	37
50.0301	Dance, General	Bachelor's	The University of Texas Rio Grande Valley	9	9	9
50.0409	Graphic Design	Associate	South Texas College	12	15	16
50.0501	Drama & Dramatics/Theatre Arts, General	Associate	South Texas College	6	10	9
		Bachelor's	The University of Texas Rio Grande Valley	31	29	20
50.0701	Art/Art Studies, General	Associate	Texas Southmost College	0	3	3
		Bachelor's	Texas Southmost College	14	0	0
			The University of Texas Rio Grande Valley	0	23	17
50.0702	Fine/Studio Arts, General	Associate	South Texas College	18	25	12
		Bachelor's	The University of Texas Rio Grande Valley	65	72	79
50.0901	Music, General	Associate	South Texas College	10	8	10
		Bachelor's	Texas Southmost College	21	0	0
			The University of Texas Rio Grande Valley	0	20	19
50.0903	Music Performance, General	Bachelor's	The University of Texas Rio Grande Valley	30	23	29
51.0000	Health Services/Allied Health/Health Sciences, General	Bachelor's	Texas Southmost College	23	0	0
			The University of Texas Rio Grande Valley	0	12	5
51.0001	Health & Wellness, General	Bachelor's	The University of Texas Rio Grande Valley	1	2	3
51.0201	Communication Sciences & Disorders, General	Bachelor's	The University of Texas Rio Grande Valley	54	45	33
51.0601	Dental Assisting/Assistant	Certificate	Brightwood College-McAllen	103	102	95
			South Texas Vocational Technical Institute-Brownsville	43	57	52
			South Texas Vocational Technical Institute-McAllen	75	82	66
			South Texas Vocational Technical Institute-Weslaco	39	51	42
51.0701	Health/Health Care Administration/Management	Bachelor's	South Texas College	94	79	60
51.0707	Health Information/Medical Records Technology/Technician	Certificate	South Texas College	24	26	15
		Associate	South Texas College	18	16	19
51.0708	Medical	Certificate	South Texas College	0	3	0

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	Transcription/Transcriptionist					
51.0710	Medical Office Assistant/Specialist	Certificate	Brightwood College-Brownsville	51	28	23
			Brightwood College-McAllen	54	48	32
			South Texas Training Center	75	103	0
			South Texas Vocational Technical Institute-Brownsville	0	0	5
			South Texas Vocational Technical Institute-McAllen	29	31	26
			South Texas Vocational Technical Institute-Weslaco	44	29	17
			Southern Careers Institute-Harlingen	0	12	10
			Southern Careers Institute-Pharr	20	27	21
		Associate	Brightwood College-Brownsville	15	11	10
			Brightwood College-McAllen	9	0	0
51.0713	Medical Insurance Coding Specialist/Coder	Certificate	South Texas College	24	21	18
			Southern Careers Institute-Brownsville	32	40	27
			Southern Careers Institute-Harlingen	76	53	62
			Southern Careers Institute-Pharr	64	56	69
			Valley Grande Institute for Academic Studies	21	11	24
51.0714	Medical Insurance Specialist/Medical Biller	Certificate	RGV Careers	9	8	7
			The College of Health Care Professions-McAllen Campus	0	0	45
51.0716	Medical Administrative/Executive Assistant & Medical Secretary	Certificate	Texas Southmost College	6	4	15
		Associate	Texas Southmost College	5	13	4
51.0801	Medical/Clinical Assistant	Certificate	Brightwood College-Brownsville	126	153	124
			Brightwood College-McAllen	144	144	104
			RGV Careers	1	3	26
			South Texas College	72	63	75
			South Texas Training Center	0	0	72
			South Texas Vocational Technical Institute-Brownsville	107	121	90
			South Texas Vocational Technical Institute-McAllen	108	143	94
			South Texas Vocational Technical Institute-Weslaco	116	103	98
			Southern Careers Institute-Brownsville	148	149	145
			Southern Careers Institute-Harlingen	152	142	127
			Southern Careers Institute-	140	165	163

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			Pharr			
			The College of Health Care Professions-McAllen Campus	0	0	71
			Valley Grande Institute for Academic Studies	0	5	13
		Associate	Brightwood College-Brownsville	0	0	4
			Brightwood College-McAllen	0	0	1
			South Texas College	13	18	19
51.0803	Occupational Therapist Assistant	Associate	South Texas College	34	13	14
51.0805	Pharmacy Technician/Assistant	Certificate	Brightwood College-Brownsville	0	0	6
			RGV Careers	31	24	21
			South Texas College	16	0	1
			Southern Careers Institute-Pharr	0	0	30
		Associate	South Texas College	21	19	9
51.0806	Physical Therapy Technician/Assistant	Certificate	The College of Health Care Professions-McAllen Campus	0	0	49
		Associate	South Texas College	14	14	14
51.0904	Emergency Medical Technology/Technician (EMT Paramedic)	Certificate	South Texas College	135	201	119
			Texas Southmost College	1	0	0
		Associate	South Texas College	12	14	17
			Texas Southmost College	6	10	5
51.0907	Medical Radiologic Technology/Science - Radiation Therapist	Certificate	Valley Grande Institute for Academic Studies	31	43	0
51.0908	Respiratory Care Therapy/Therapist	Associate	South Texas College	20	49	16
			Texas Southmost College	14	16	10
51.0910	Diagnostic Medical Sonography/Sonographer & Ultrasound Technician	Certificate	South Texas College	0	5	5
		Associate	Texas Southmost College	8	10	7
51.0911	Radiologic Technology/Science - Radiographer	Certificate	The College of Health Care Professions-McAllen Campus	0	0	29
			Valley Grande Institute for Academic Studies	0	0	35
		Associate	South Texas College	20	20	14
			Texas Southmost College	8	8	8
51.1004	Clinical/Medical Laboratory Technician	Associate	Texas Southmost College	5	13	3
51.1005	Clinical Laboratory Science/Medical Technology/Technologist	Bachelor's	The University of Texas Rio Grande Valley	20	22	16
51.1103	Pre-Pharmacy Studies	Associate	South Texas College	10	5	6
51.2314	Rehabilitation Science	Bachelor's	The University of Texas Rio Grande Valley	279	344	254
51.3101	Dietetics/Dietitian	Bachelor's	The University of Texas Rio Grande Valley	14	16	10

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51.3501	Massage Therapy/Therapeutic Massage	Certificate	South Texas Vocational Technical Institute-Brownsville	37	38	34
			South Texas Vocational Technical Institute-McAllen	62	68	69
51.3801	Registered Nursing/Registered Nurse	Associate	South Texas College	197	156	250
			Texas Southmost College	74	38	15
		Bachelor's	Texas Southmost College	40	0	0
			The University of Texas Rio Grande Valley	94	251	147
51.3901	Licensed Practical/Vocational Nurse Training	Certificate	South Texas College	101	121	89
			Texas Southmost College	32	37	22
			Valley Grande Institute for Academic Studies	71	66	54
51.3902	Nursing Assistant/Aide & Patient Care Assistant/Aide	Certificate	RGV Careers	179	194	46
			South Texas College	53	71	70
			South Texas Training Center	44	50	50
			South Texas Vocational Technical Institute-Brownsville	23	0	0
			South Texas Vocational Technical Institute-McAllen	14	0	0
			South Texas Vocational Technical Institute-Weslaco	13	0	0
			Valley Grande Institute for Academic Studies	89	46	74
51.3999	Practical Nursing, Vocational Nursing & Nursing Assistants, Other	Certificate	RGV Careers	68	86	126
52.0101	Business/Commerce, General	Certificate	South Texas College	27	35	19
		Associate	South Texas College	245	277	311
			Texas Southmost College	21	29	35
		Bachelor's	South Texas College	0	0	57
52.0201	Business Administration & Management, General	Bachelor's	South Texas College	84	134	162
			Texas Southmost College	67	0	0
			The University of Texas Rio Grande Valley	99	157	198
52.0203	Logistics, Materials, & Supply Chain Management	Bachelor's	The University of Texas Rio Grande Valley	0	2	2
52.0301	Accounting	Associate	Texas Southmost College	3	4	5
		Bachelor's	Texas Southmost College	64	0	0
			The University of Texas Rio Grande Valley	119	166	187
52.0302	Accounting Technology/Technician & Bookkeeping	Certificate	South Texas Vocational Technical Institute-McAllen	17	20	22
			Southern Careers Institute-Brownsville	53	49	42
			Southern Careers Institute-Harlingen	36	34	23
			Southern Careers Institute-Pharr	75	68	87

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			Texas Southmost College	1	4	5
52.0401	Administrative Assistant & Secretarial Science, General	Certificate	South Texas College	19	15	43
			Southern Careers Institute-Brownsville	4	3	10
			Southern Careers Institute-Harlingen	23	14	7
			Southern Careers Institute-Pharr	14	26	15
			Texas Southmost College	9	2	1
		Associate	South Texas College	9	10	15
52.0408	General Office Occupations & Clerical Services	Certificate	Texas Southmost College	5	2	2
52.0701	Entrepreneurship/Entrepreneurial Studies	Bachelor's	Texas Southmost College	4	0	0
			The University of Texas Rio Grande Valley	0	1	6
52.0801	Finance, General	Bachelor's	Texas Southmost College	16	0	0
			The University of Texas Rio Grande Valley	67	75	97
52.1001	Human Resources Management/Personnel Administration, General	Certificate	South Texas College	16	62	38
		Associate	South Texas College	11	13	10
52.1101	International Business/Trade/Commerce	Bachelor's	Texas Southmost College	23	0	0
			The University of Texas Rio Grande Valley	0	22	19
52.1201	Management Information Systems, General	Bachelor's	The University of Texas Rio Grande Valley	32	35	41
52.1401	Marketing/Marketing Management, General	Associate	Texas Southmost College	10	3	6
		Bachelor's	Texas Southmost College	15	0	0
			The University of Texas Rio Grande Valley	49	77	61
54.0101	History, General	Associate	South Texas College	10	19	14
		Bachelor's	Texas Southmost College	24	0	0
			The University of Texas Rio Grande Valley	53	58	60

Source: IPEDS.