

REGIONAL WORKFORCE ANALYSIS: CONROE, TX PREPARED FOR THE CONROE ECONOMIC DEVELOPMENT COUNCIL



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TIP STRATEGIES, INC., is a privately held economic development consulting firm with offices in Austin and Seattle. TIP is committed to providing quality solutions for public sector and private sector clients. Established in 1995, the firm's primary focus is economic development strategic planning.

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INTRODUCTION

To provide a common framework for TIP Strategies recommendations for workforce strategies, TIP conducted an assessment of the Montgomery County labor market. Team members began by compiling data on the county, with comparisons to the Houston–The Woodlands–Sugar Land Metropolitan Statistical Area (Houston MSA), the state of Texas, and the US, where appropriate. The purpose of the assessment was to understand the drivers of demand for workers in the county's labor market, the supply of workers, and the training infrastructure. A comparison of the two can provide insights into any gaps between the demand for and supply of workers.

The findings presented in this section are based on the following elements.

- A review of labor market data from primary and secondary sources, including the US Census Bureau, the
 US Bureau of Labor Statistics, Economic Modeling Specialists International (Emsi), the National Center for
 Education Statistics (NCES) Integrated Postsecondary Education Data System (IPEDS), the Texas Public
 Education Information Resource (TPEIR), Conroe ISD, Willis ISD, Lone Star College-Montgomery, and the US
 Department of Labor Employment and Training Administration (DOLETA).
- Input from interviews, focus groups with key stakeholders, and the Workforce Committee.
- TIP Strategies' 20 years of experience working with communities across the country and compiling best practices.

The key findings from this analysis and input is presented below and on the following pages.

DEMAND DRIVERS

Montgomery County's job base now exceeds 200,000 jobs, having grown 41 percent from 148,973 in 2008 to 209,497 in 2018. Job growth in the county has consistently outpaced that of the metro, state, and nation over the past 10 years.

The industry sectors that employ the largest number of workers in Montgomery County are **retail trade**; **education**; **lodging**, **restaurants**, & **bars**; **healthcare**; **and construction**. Healthcare, construction, and education are expected to add the largest number of jobs over the next 5 years.

The industry sectors with the highest concentrations of employment relative to the US are energy (mining incl. oil & gas), construction, education, and retail trade. This is indicative of the relative strength of these sectors in Montgomery County and in the Houston MSA overall.

The number of openings is a measure of occupational demand. Openings are comprised of two components: new jobs and replacement jobs. New jobs are an estimate of net job change during the period of analysis. These represent new positions that did not exist previously. Anticipated replacement demand, or separations, represent existing positions that must be filled due to workers leaving the occupation for reasons including retirement, changing careers, dropping out of the labor force, etc.

Over the next 5 years, **Montgomery County is expected to have more than 150,000 job openings**. More than half of these job openings will require some kind of training. In addition, about 21,000 of these job openings are new positions.

CONROE EDC

The list of middle skill and high skill high-demand occupations in Figure 11 reflect the key industries in Montgomery County that require skilled labor and, thus, drive the education/training needs. The important pathways that are represented on these lists are as follows.

- Skilled trades, including maintenance and repair
- Healthcare professionals and support occupations
- Business, operations, and management
- Education

Examining openings by career cluster reveals high-demand areas of study. The career clusters with the highest number of openings that require training are the following.

- Architecture & Construction
- Education & Training
- Business, Management & Administration
- Health Science
- Manufacturing

Figure 13 shows occupational demand for each of these major career clusters. Key observations regarding demand factors are listed below.

- The local labor market is tight but only about **1 in 5** of the top 75 high-demand occupations in the top five career clusters are showing significant **wage pressure**. However, wage pressure in the science, technology, engineering, and mathematics (STEM) career cluster is significant in 9 of the 15 highest-demand occupations.
- Retirement exposure is highest in business, manufacturing, and STEM occupations.

FIGURE 1. ANNUAL JOB GROWTH (PERCENT)

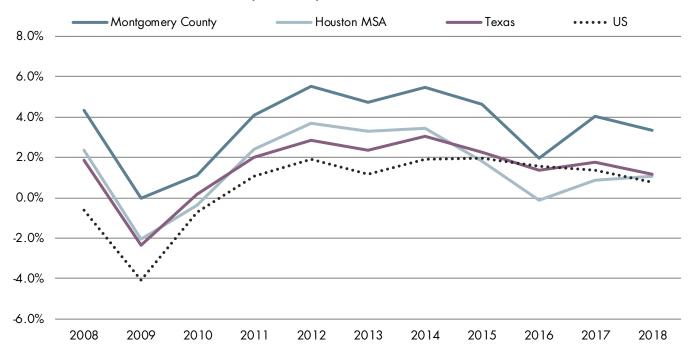
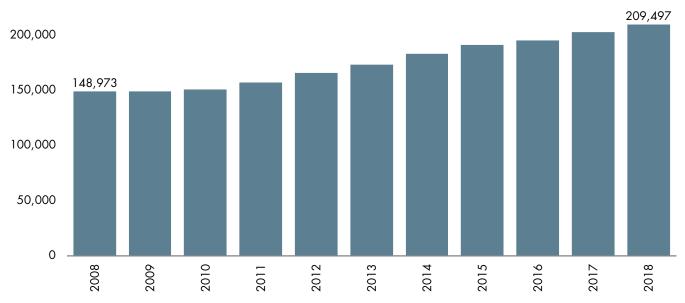


FIGURE 2. MONTGOMERY COUNTY EMPLOYMENT

250,000



Source: (figures this page) Emsi 2019.1—QCEW Employees, Non-QCEW Employees, and Self-Employed.

FIGURE 3. INDUSTRY DISTRIBUTION (PERCENT OF TOTAL)

COMPARISON OF MONTGOMERY COUNTY WITH SELECTED GEOGRAPHIES AND US

		Montgomery			
NAICS	Code & Description	County	Houston MSA	Texas	US
44-45	Retail trade	12.9%	9.8%	10.3%	10.3%
61	Education*	12.1%	10.0%	9.9%	9.2%
72	Lodging, restaurants, & bars	10.2%	8.9%	9.0%	8.7%
62	Healthcare & social assistance*	10.1%	11.3%	12.0%	13.5%
23	Construction	9.2%	8.1%	7.0%	5.6%
54	Professional services	7.2%	7.4%	6.5%	6.6%
81	Personal & other services	5.9%	5.3%	5.0%	4.8%
56	Administrative & support services	5.8%	7.2%	6.7%	6.3%
31-33	Manufacturing	5.3%	7.0%	6.6%	8.0%
42	Wholesale trade	3.6%	4.9%	4.5%	3.8%
52	Finance & insurance	3.4%	3.3%	4.4%	4.1%
9039	Local government	2.7%	2.4%	2.9%	3.5%
48-49	Transportation & warehousing*	2.4%	4.6%	4.3%	4.0%
21	Mining (incl. oil & gas)	2.2%	2.4%	1.8%	0.4%
53	Property sales & leasing	2.0%	2.2%	2.0%	1.7%
71	Arts, entertainment, & recreation	1.9%	1.3%	1.3%	1.8%
55	Corporate & regional offices	1.4%	1.3%	1.0%	1.4%
51	Information	0.7%	1.0%	1.6%	1.9%
22	Utilities	0.3%	0.5%	0.4%	0.3%
9029	State government	0.2%	0.5%	1.1%	1.4%
9011	Federal government (civilian)	0.2%	0.6%	1.2%	1.4%
11	Agriculture & forestry	0.2%	0.2%	0.8%	1.2%
	-				

^{*}Includes related public sector employment (e.g., education includes public schools, colleges, and universities; healthcare includes public hospitals; and transportation & warehousing includes US Postal Service workers).

Source: Emsi 2019.1—QCEW Employees, Non-QCEW Employees, and Self-Employed.

Note: Three largest industries are highlighted.

FIGURE 4. INDUSTRY CONCENTRATION (LQ)

COMPARISON OF MONTGOMERY COUNTY WITH SELECTED GEOGRAPHIES AND US

		Montgomery			
NAICS (Code & Description	County	Houston MSA	Texas	US
21	Mining (incl. oil & gas)	5.45	5.73	4.23	1.00
23	Construction	1.65	1.45	1.24	1.00
61	Education*	1.31	1.08	1.07	1.00
44-45	Retail trade	1.26	0.96	1.00	1.00
81	Personal & other services	1.23	1.10	1.02	1.00
72	Lodging, restaurants, & bars	1.18	1.03	1.03	1.00
53	Property sales & leasing	1.15	1.27	1.15	1.00
54	Professional services	1.11	1.14	0.98	1.00
71	Arts, entertainment, & recreation	1.09	0.73	0.74	1.00
55	Corporate & regional offices	0.99	0.93	0.69	1.00
42	Wholesale trade	0.97	1.32	1.19	1.00
22	Utilities	0.96	1.48	1.11	1.00
56	Administrative & support services	0.92	1.14	1.06	1.00
52	Finance & insurance	0.84	0.81	1.07	1.00
9039	Local government	0.75	0.67	0.82	1.00
62	Healthcare & social assistance*	0.75	0.84	0.89	1.00
31-33	Manufacturing	0.67	0.88	0.82	1.00
48-49	Transportation & warehousing*	0.61	1.15	1.08	1.00
51	Information	0.38	0.55	0.85	1.00
9029	State government	0.17	0.35	0.74	1.00
11	Agriculture & forestry	0.16	0.15	0.67	1.00
901199	Federal government (civilian)	0.14	0.43	0.85	1.00

^{*}Includes related public sector employment (e.g., education includes public schools, colleges, and universities; healthcare includes public hospitals; and transportation & warehousing includes US Postal Service workers).

Source: Emsi 2019.1—QCEW Employees, Non-QCEW Employees, and Self-Employed.

Note: LQs greater than 1.25 are presumed to show competitive advantage and are highlighted.

ABOUT LOCATION QUOTIENTS (LQS)

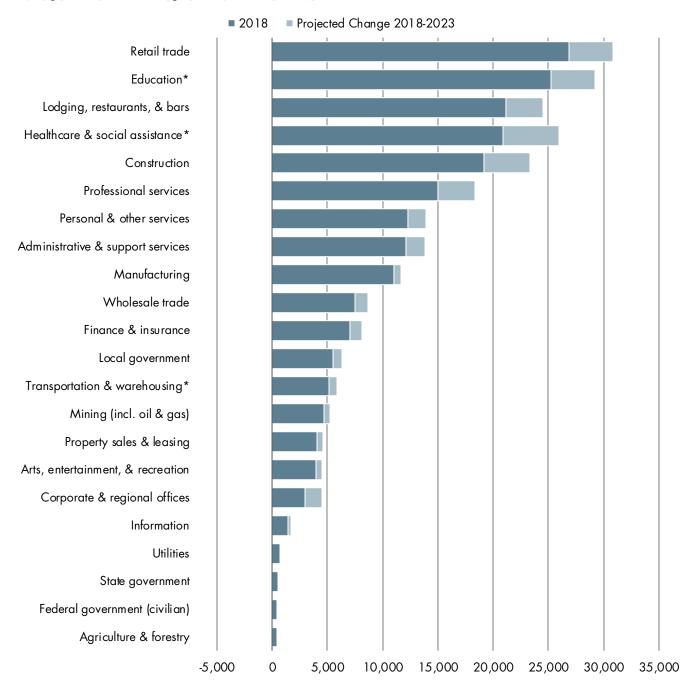
Location quotient analysis is a statistical technique used to suggest areas of relative advantage based on a region's employment base. LQs are calculated as an industry's share of total local employment divided by the same industry's share of employment at the national level.

(local employment in industry x / total local employment-all industries)
(national employment in industry x / total national employment-all industries)

If the local industry and national industry are perfectly proportional, the LQ will be 1.00. LQs greater than 1.25 are presumed to indicate a comparative advantage; those below 0.75 suggest areas of weakness but also point to opportunities for expansion or attraction.

FIGURE 5. TOTAL EMPLOYMENT BY INDUSTRY

2018 JOB BASE AND PROJECTED 5-YEAR CHANGE



^{*}Includes related public sector employment (e.g., education includes public schools, colleges, and universities; healthcare includes public hospitals; and transportation & warehousing includes US Postal Service workers).

Source: Emsi 2019.1—QCEW Employees, Non-QCEW Employees, and Self-Employeed.

COMPONENTS OF OCCUPATIONAL DEMAND

New Jobs. New jobs are an estimate of net job change during the period of analysis. These represent new positions that did not exist previously.

Replacement Jobs. Anticipated replacement demand, or separations, represent existing positions that must be filled due to workers leaving the occupation for reasons including retirement, changing careers, dropping out of the labor force, etc. This calculation is produced by the US Bureau of Labor Statistics as part of its Employment Projections program.

Openings. Openings provide a more comprehensive measure of demand for a given occupation. Figures are comprised of the two components: new jobs and replacement jobs.

FIGURE 6. OCCUPATIONS BY SKILL LEVEL MONTGOMERY COUNTY

FIGURE 7. EXPECTED OCCUPATIONAL CHANGES BY SKILL LEVEL, ESTIMATED OPENINGS 2018-2023



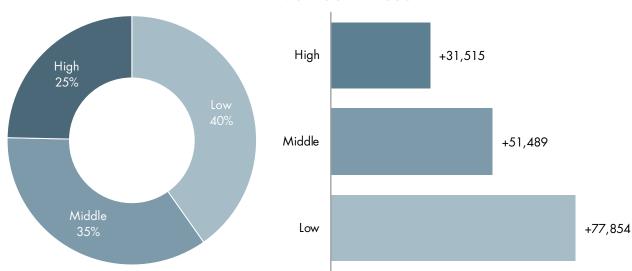
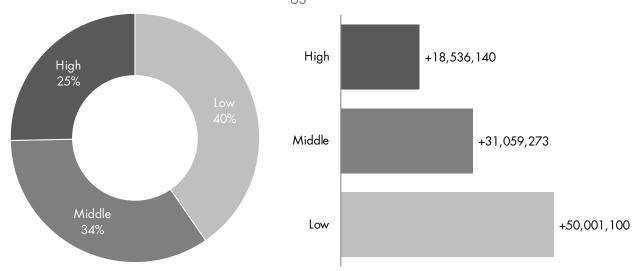


FIGURE 8. OCCUPATIONS BY SKILL LEVEL US

FIGURE 9. EXPECTED OCCUPATIONAL CHANGES BY SKILL LEVEL, ESTIMATED OPENINGS 2018–2023 US



Source: (figures this page) Emsi 2019.1—QCEW Employees, Non-QCEW Employees, and Self-Employed.

Notes: High skill occupations require a bachelor's degree or higher; middle skill occupations require at least a high school diploma but less than a bachelor's degree; low skill occupations require a high school diploma or less. Due to rounding, not all numbers equal 100.

FIGURE 10. MONTGOMERY COUNTY OCCUPATIONAL STRENGTHS TOP 25 LQS

		Montgomery County			Houston MSA				
		Wage				Wage			
				Median	Premium			Median	Premium
SOC	DESCRIPTION	2018	2018	Hourly	over US	2018	2018	Hourly	over US
CODE		Jobs	LQ	Earnings	Avg.	Jobs	LQ	Earnings	Avg.
17-2171	Petroleum Engineers	455	9.67	\$68.98	1.08	10,821	14.69	\$75.85	1.19
47-5011	Derrick Operators, Oil & Gas	131	9.33	\$16.96	0.76	1,814	8.26	\$19.24	0.87
47-5071	Roustabouts, Oil & Gas	587	8.01	\$14.91	0.84	7,699	6.72	\$16.80	0.94
47-5012	Rotary Drill Operators, Oil & Gas	182	7.86	\$22.70	0.87	2,654	7.35	\$25.63	0.99
47-5081	Helpers-Extraction Workers	163	6.97	\$15.29	0.89	2,013	5.50	\$1 <i>7</i> .1 <i>7</i>	1.00
47-5013	Service Unit Operators, Oil, Gas, & Mining	379	6.53	\$20.72	0.89	5,729	6.32	\$23.42	1.01
19-4041	Geological & Petroleum Technicians	125	5.60	\$29.79	1.14	2,517	7.21	\$33.36	1.28
19-2042	Geoscientists, Except Hydrologists & Geographers	235	5.52	\$60.02	1.35	5,119	7.69	\$64.49	1.45
17-2041	Chemical Engineers	188	4.02	\$61.05	1.24	5,129	7.01	\$62.28	1.27
47-2011	Boilermakers	91	4.00	\$25.15	0.84	1,298	3.64	\$27.76	0.93
53-7073	Wellhead Pumpers	70	3.80	\$22.68	0.90	1,467	5.13	\$24.53	0.97
53-7072	Pump Operators, Except Wellhead Pumpers	86	3.63	\$1 <i>7</i> .82	0.84	1,461	3.95	\$19.46	0.91
47-2151	Pipelayers	215	3.61	\$14.43	0.82	1,653	1.77	\$15.35	0.87
47-3015	Helpers-Pipelayers, Plumbers, Pipe/Steamfitters	277	3.59	\$14.64	1.02	3,464	2.87	\$16.36	1.14
47-2171	Reinforcing Iron & Rebar Workers	111	3.40	\$16.71	0.86	1,902	3.73	\$18.36	0.94
25-3011	Teachers & Instr., Adult/Remedial/GED	252	2.82	\$24.57	1.00	2,323	1.66	\$24.31	0.99
51-8091	Chemical Plant & System Operators	103	2.59	\$31.31	1.05	2,898	4.67	\$33.82	1.13
47-3019	Helpers, Construction Trades, All Other	91	2.54	\$13.36	0.94	1,425	2.54	\$14.89	1.04
51-9011	Chemical Equipment Workers	257	2.53	\$31.62	1.38	7,557	4.76	\$34.64	1.51
29-1061	Anesthesiologists	111	2.46	\$121.36	1.01	1,526	2.16	\$131.48	1.10
43-6013	Medical Secretaries	1,903	2.44	\$16.02	0.96	27,892	2.28	\$16.32	0.98
49-3092	Recreational Vehicle Service Technicians	51	2.41	\$15.99	0.88	509	1.54	\$1 <i>7</i> .97	0.99
29-1151	Nurse Anesthetists	138	2.39	\$70.77	0.89	2,234	2.46	\$76.88	0.97
13-2082	Tax Preparers	298	2.31	\$26.19	1.28	2,464	1.22	\$23.88	1.17
3 <i>7</i> -3013	Tree Trimmers & Pruners	187	2.26	\$14.25	0.94	2,216	1.71	\$14.22	0.94

Source: Emsi 2019.1—QCEW Employees, Non-QCEW Employees, and Self-Employed.

Note: Occupations with at least 50 jobs in Montgomery County. Wage premiums greater than 1.10 are highlighted for emphasis.

FIGURE 11. MONTGOMERY COUNTY DEMAND FACTORS BY SKILL LEVEL

ESTIMATED ANNUAL OPENINGS (THROUGH 2023) WITH ESTIMATE OF NET CHANGE

SOC DESCRIPTION 2018 Jobs 2018 2023 2018 2023 2018 2023 2018 2023 2018 2023 2018 2023 2018 2023 2018 2023 2018 2023 2018 2018 2023 2018 2018 2023 2018 2018 2023 2018 2018 2018 2023 2018				DEMAND FACTORS				
35-3021 Combined Food Prep. & Servers, Incl. Fast Food 41-2031 Retail Salespersons 7,211 6,428 950 0,94 13% 8% 41-2031 Retail Salespersons 7,211 6,428 950 0,94 13% 8% 41-2011 Cashiers 5,367 6,288 895 1,00 10% 5% 35-3031 Waiters & Waitresses 4,330 5,035 680 0,91 5% 3% 43-9061 Office Clerks, General 5,391 4,072 736 1,10 17% 9% 43-5081 Stock Clerks & Order Fillers 3,317 2,865 597 1,05 12% 5% 47-2061 Construction Laborers 3,455 2,757 819 0,94 12% 3% 37-2011 Janitors & Cleaners, Exc. Maids & Housekeepers 3,031 2,707 592 0,95 20% 410% 43-4051 Customer Service Representatives 3,139 2,627 497 0,94 13% 4% 43-6014 Secretaries/Admin. Asst., Exc. Legal, Med., & Exec. 3,336 2,295 418 0,96 23% 410% 37-3012 Iandscaping & Groundskeeping Workers 1,761 1,898 502 0,93 19% 10% 37-3011 Landscaping & Groundskeeping Workers 2,339 1,836 357 0,92 16% 6% 37-2012 Maids & Housekeepers 1,639 1,442 195 0,98 1,472 156 0,89 5% 43-4171 Receptionists & Information Clerks 1,311 1,147 231 0,89 13% 8% MIDDIE-SKILL (More than high school, less than four years) 35-2021 Fost Curre, Retail Sales Workers 2,288 1,599 1,689 359 1,00 23% 411% 43-6014 43-6014 43-6015 43-6015 43-6015 43-6015 43-6016		DESCRIPTION		Openings (2018-	Change (2018-	Wage Premium over US		% 65+ Years
41-2031 Retail Salespersons 7,211 6,428 950 0,94 13% 8% 41-2011 Cashiers 5,367 6,288 895 1.00 10% 5% 35-3031 Waiters & Waitresses 4,330 5,035 680 0,91 5% 3% 43-9061 Office Clerks, General 5,391 4,072 736 1.10 17% 9% 43-5081 Stock Clerks & Order Fillers 3,317 2,865 597 1.05 12% 5% 47-2061 Construction Laborers 3,455 2,757 819 0,94 12% 3% 37-2011 Janiitors & Cleaners, Exc. Maids & Housekeepers 3,031 2,707 592 0,95 20% ◀ 10% 43-4051 Customer Service Representatives 3,139 2,627 497 0,94 13% 4% 43-6014 Secretaries/Admin. Asst., Exc. Legal, Med., & Exec. 3,336 2,295 418 0,96 23% ◀ 10% 37-3011 Landscaping & Groundskeeping Workers 4,399021 Personal Care Aides 1,761 1,898 502 0,93 19% 10% 37-3012 Maids & Housekeepers 1,889 1,482 195 0,95 18% 5% 35-3022 Counter Attendants, Cafeteria, & Concession 1,147 1,472 156 0.89 5% 4% 39-9011 Childcare Workers 1,236 1,382 250 1.03 10% 5% 43-4171 Receptionists & Information Clerks 1,311 1,147 231 0.89 13% 8% 35-9031 Hosts & Hostesses 792 1,078 121 0,93 4% 7% 33-9032 Security Guards MIDDLE-SKIIL (More than high school, less than four years) 43-6013 Medical Secretaries 1,903 1,490 385 0,96 7% 5% 43-6013 Medical Secretaries 1,903 1,490 385 0,96 17% 6% 35-1012 First-Line Supvsr., Food Prep. & Servers 1,551 1,452 274 1.29 10% 4% 41-3099 Sales Reps., Services, All Other 1,794 1,440 298 0,94 15% 6%	LOW-SKI	LL (High school or less)						
41-2011 Cashiers 5,367 6,288 895 1.00 10% 5% 35-3031 Waiters & Waitresses 4,330 5,035 680 0.91 5% 3% 43-9061 Office Clerks, General 5,391 4,072 736 1.10 17% 9% 43-5081 Stock Clerks & Order Fillers 3,317 2,865 597 1.05 12% 5% 47-2061 Construction Laborers 3,455 2,757 819 0.94 12% 3% 37-2011 Janitors & Cleaners, Exc. Maids & Housekeepers 3,031 2,707 592 0.95 20% ■ 10% 43-4051 Customer Service Representatives 3,139 2,627 497 0.94 13% 4% 43-4051 Customer Service Representatives 3,139 2,627 497 0.94 13% ■ 4% 43-6014 Secretaries/Admin. Asst., Exc. Legal, Med., & Exec. 3,336 2,295 418 0.96 23% ■ 10% 39-9021 Personal Care Aides 1,761 1,898 502 0.93 19% 10% 37-3011 Landscaping & Groundskeeping Workers 2,339 1,836 357 0.92 16% 6% 37-2012 Maids & Housekeepers 1,889 1,482 195 0.95 18% 5% 35-3022 Counter Attendants, Cafeteria, & Concession 1,147 1,472 156 0.89 5% 4% 39-9011 Childcare Workers 1,539 1,428 240 0.93 13% 6% 35-2021 Food Preparation Workers 1,236 1,382 250 1.03 10% 5% 43-4171 Receptionists & Information Clerks 1,311 1,147 231 0.89 13% 8% 35-9031 Hosts & Hostessees 792 1,078 121 0.93 4% 7% 33-9032 Security Guards 1,069 968 206 0.93 16% 11% ■ MIDDLE-SKILL (More than high school, less than four years) 1,551 1,452 274 129 10% 4% 45-100 5 1	35-3021	Combined Food Prep. & Servers, Incl. Fast Food	6,027	7,322	1,309	0.92	8%	5%
35-3031 Waiters & Waitresses 4,330 5,035 680 0.91 5% 3% 43-9061 Office Clerks, General 5,391 4,072 736 1.10 17% 9% 43-5081 Stock Clerks & Order Fillers 3,317 2,865 597 1.05 12% 5% 47-2061 Construction Laborers 3,455 2,757 819 0.94 12% 3% 37-2011 Janitors & Cleaners, Exc. Maids & Housekeepers 3,031 2,707 592 0.95 20% 10% 43-4051 Customer Service Representatives 3,139 2,627 497 0.94 13% 4% 43-6014 Secretaries/Admin. Asst., Exc. Legal, Med., & Exec. 3,336 2,295 418 0.96 23% 10% 53-7062 Laborers/Freight, Stock, & Material Movers, Hand 2,370 2,149 413 0.93 12% 4% 39-9021 Personal Care Aides 1,761 1,898 502 0,93 19% 10% 37-3011 Landscaping & Groundskeeping Workers 2,339 1,836 357 0,92 16% 6% 37-2012 Maids & Housekeepers 1,889 1,482 195 0.95 18% 5% 35-3022 Counter Attendants, Cafeteria, & Concession 1,147 1,472 156 0.89 5% 43-4171 Receptionists & Information Clerks 1,311 1,147 231 0.89 138 8% 35-9031 Hosts & Hotsesses 792 1,078 1,078 1,093 43-6013 Medical Secretaries 1,903 1,490 385 0.96 9% 5% 43-6013 Medical Secretaries 1,903 1,490 385 0.96 17% 6% 35-1012 First-Line Supvsr., Retail Sales Workers 2,282 1,529 264 0.91 10% 15% 6% 15% 6% 1551 1,452 274 11.00 15% 6% 15% 15% 15% 15% 15% 15%	41-2031 R	Retail Salespersons	<i>7</i> ,211	6,428	950	0.94	13%	8%
43-9061 Office Clerks, General 5,391 4,072 736 1.10 17% 9% 43-5081 Stock Clerks & Order Fillers 3,317 2,865 597 1.05 12% 5% 47-2061 Construction Laborers 3,455 2,757 819 0.94 12% 3% 37-2011 Janitors & Cleaners, Exc. Maids & Housekeepers 3,031 2,707 592 0.95 20% ◀ 10% 43-4051 Customer Service Representatives 3,139 2,627 497 0.94 13% 4% 43-6014 Secretaries/Admin. Asst., Exc. Legal, Med., & Exec. 3,336 2,295 418 0.96 23% ◀ 10% 53-7062 Laborers/Freight, Stock, & Material Movers, Hand 2,370 2,149 413 0.93 12% 4% 39-9021 Personal Care Aides 1,761 1,898 502 0.93 19% 10% 37-3011 Landscaping & Groundskeeping Workers 2,339 1,836 357 0.92 16% 6% 37-2012 Maids & Housekeepers 1,889 1,482 195 0.95 18% 5% 35-3022 Counter Altendants, Cafeteria, & Concession 1,147 1,472 156 0.89 5% 4% 39-9011 Childcare Workers 1,539 1,428 240 0.93 13% 6% 35-2021 Food Preparation Workers 1,236 1,382 250 1.03 10% 5% 43-4171 Receptionists & Information Clerks 1,311 1,147 231 0.89 13% 8% 35-9031 Hosts & Hostesses 792 1,078 121 0,93 4% 7% 33-9032 Security Guards 1,069 968 206 0.93 16% 11% ◀ MIDDLE-SKILL (More than high school, less than four years) 35-2014 Cooks, Restaurant 2,099 1,971 386 0.96 9% 5% 43-3031 Bookkeeping, Accounting, & Auditing Clerks 2,244 1,689 359 1.00 23% ◀ 11% ◀ 41-1011 First-Line Supvsr., Retail Sales Workers 2,282 1,529 264 0.91 20% ◀ 9% 43-6013 Medical Secretaries 1,903 1,490 385 0.96 17% 6% 45-1012 First-Line Supvsr., Food Prep. & Servers 1,551 1,452 274 1.29 10% 4% 41-3099 Sales Reps., Services, All Other 1,794 1,440 298 0.94 15% 6%	41-2011	Cashiers	5,367	6,288	895	1.00	10%	5%
43-5081 Stock Clerks & Order Fillers 3,317 2,865 597 1,05 12% 5% 47-2061 Construction Laborers 3,455 2,757 819 0,94 12% 3% 37-2011 Janitors & Cleaners, Exc. Maids & Housekeepers 3,031 2,707 592 0,95 20% ■ 10% 43-4051 Customer Service Representatives 3,139 2,627 497 0,94 13% 4% 43-6014 Secretaries/Admin. Asst., Exc. Legal, Med., & Exec. 3,336 2,295 418 0,96 23% ■ 10% 53-7062 Laborers/Freight, Stock, & Material Movers, Hand 2,370 2,149 413 0,93 12% 4% 39-9021 Personal Care Aides 1,761 1,898 502 0,93 19% 10% 37-3011 Landscaping & Groundskeeping Workers 2,339 1,836 357 0,92 16% 6% 37-2012 Maids & Housekeepers 1,889 1,482 195 0,95 18% 5% 35-3022 Counter Attendants, Cafeteria, & Concession 1,147 1,472 156 0.89 5% 4% 39-9011 Childcare Workers 1,539 1,428 240 0,93 13% 6% 35-2021 Food Preparation Workers 1,236 1,382 250 1.03 10% 5% 43-4171 Receptionists & Information Clerks 1,311 1,147 231 0.89 13% 8% 35-9031 Hosts & Hostesses 792 1,078 121 0,93 4% 7% 33-9032 Security Guards 1,069 968 206 0,93 16% 11% ■ MIDDLE-SKILL (More than high school, less than four years) 35-2014 Cooks, Restaurant 2,099 1,971 386 0,96 9% 5% 43-3031 Bookkeeping, Accounting, & Auditing Clerks 2,244 1,689 359 1.00 23% ■ 11% ■ MIDDLE-SKILL (More than high school, less than four years) 35-2014 Cooks, Restaurant 2,099 1,971 386 0,96 9% 5% 43-3032 Heavy & Tractor-Trailer Truck Drivers 2,282 1,529 264 0,91 20% ■ 9% 43-6013 Medical Secretaries 1,903 1,490 385 0,96 17% 6% 35-1012 First-Line Supvsr., Food Prep. & Servers 1,551 1,452 274 129 10% 4% 41-3099 Sales Reps., Services, All Other 1,794 1,440 298 0,94 15% 6%	35-3031 \	Waiters & Waitresses	4,330	5,035	680	0.91	5%	3%
47:2061 Construction Laborers 3,455 2,757 819 0.94 12% 3% 37:2011 Janitors & Cleaners, Exc. Maids & Housekeepers 3,031 2,707 592 0.95 20% 10% 43:4051 Customer Service Representatives 3,139 2,627 497 0.94 13% 4% 43:6014 Secretaries/Admin. Asst., Exc. Legal, Med., & Exec. 3,336 2,295 418 0.96 23% 10% 53:7062 Laborers/Freight, Stock, & Material Movers, Hand 2,370 2,149 413 0.93 12% 4% 39:9021 Personal Care Aides 1,761 1,898 502 0.93 19% 10% 37:2012 Maids & Housekeepers 1,889 1,482 195 0.95 18% 5% 37:2012 Maids & Housekeepers 1,889 1,482 195 0.95 18% 5% 37:2012 Maids & Housekeepers 1,889 1,482 195 0.95 18% 5% 37:2012 Maids & Housekeepers 1,889 1,482 195 0.95 18% 5% 35:2022 Counter Attendants, Cafeteria, & Concession 1,147 1,472	43-9061 (Office Clerks, General	5,391	4,072	736	1.10	17%	9%
37-2011 Janitors & Cleaners, Exc. Maids & Housekeepers 3,031 2,707 592 0,95 20% ■ 10% 43-4051 Customer Service Representatives 3,139 2,627 497 0,94 13% 4% 43-6014 Secretaries/Admin. Asst., Exc. Legal, Med., & Exec. 3,336 2,295 418 0,96 23% ■ 10% 53-7062 Laborers/Freight, Stock, & Material Movers, Hand 2,370 2,149 413 0,93 12% 4% 39-9021 Personal Care Aides 1,761 1,898 502 0,93 19% 10% 37-3011 Landscaping & Groundskeeping Workers 2,339 1,836 357 0,92 16% 6% 37-2012 Maids & Housekeepers 1,889 1,482 195 0,95 18% 5% 35-3022 Counter Attendants, Cafeteria, & Concession 1,147 1,472 156 0,89 5% 4% 39-9011 Childcare Workers 1,539 1,428 240 0,93 13% 6% 35-2021 Food Preparation Workers 1,236 1,382 250 1,03 10% 5% 43-4171 Receptionists & Information Clerks 1,311 1,147 231 0,89 13% 8% 35-9031 Hosts & Hostesses 792 1,078 121 0,93 4% 7% 33-9032 Security Guards 1,069 968 206 0,93 16% 11% ■ MIDDLE-SKILL (More than high school, less than four years) 35-2014 Cooks, Restaurant 2,099 1,971 386 0,96 9% 5% 43-3031 Bookkeeping, Accounting, & Auditing Clerks 2,244 1,689 359 1.00 23% ■ 11% ■ 41-1011 First-Line Supvsr., Retail Sales Workers 2,282 1,529 264 0,91 20% ■ 9% 35-1012 First-Line Supvsr., Food Prep. & Servers 1,551 1,452 274 1,240 298 0,94 15% 6%	43-5081 5	Stock Clerks & Order Fillers	3,317	2,865	597	1.05	12%	5%
43-4051 Customer Service Representatives 3,139 2,627 497 0,94 13% 4% 43-6014 Secretaries/Admin. Asst., Exc. Legal, Med., & Exec. 3,336 2,295 418 0,96 23% 10% 53-7062 Laborers/Freight, Stock, & Material Movers, Hand 2,370 2,149 413 0,93 12% 4% 39-9021 Personal Care Aides 1,761 1,898 502 0,93 19% 10% 37-3011 Landscaping & Groundskeeping Workers 2,339 1,836 357 0,92 16% 6% 37-2012 Maids & Housekeepers 1,889 1,482 195 0,95 18% 5% 35-3022 Counter Attendants, Cafeteria, & Concession 1,147 1,472 156 0,89 5% 4% 39-9011 Childcare Workers 1,539 1,428 240 0,93 13% 6% 35-2021 Food Preparation Workers 1,236 1,382 250 1,03 10% 5% 43-4171 Receptionists & Information Clerks 1,311 1,147 231 0,89 13% 8% 35-9031 Hosts & Hostesses 792 1,078 121 0,93 4% 7% 33-9032 Security Guards 1,069 968 206 0,93 16% 11% MIDDLE-SKILL (More than high school, less than four years) 35-2014 Cooks, Restaurant 2,099 1,971 386 0,96 9% 5% 43-3031 Bookkeeping, Accounting, & Auditing Clerks 2,244 1,689 359 1,03 1,599 1,971 386 0,96 9% 5% 43-3032 Heavy & Tractor-Trailer Truck Drivers 2,282 1,529 264 0,91 20% 9% 43-6013 Medical Secretaries 1,903 1,440 298 0,94 15% 6% 1,794 1,440 298 0,94 15% 6%	47-2061	Construction Laborers	3,455	2,757	819	0.94	12%	3%
43-6014 Secretaries/Admin. Asst., Exc. Legal, Med., & Exec. 3,336 2,295 418 0.96 23% ◀ 10% 53-7062 Laborers/Freight, Stock, & Material Movers, Hand 2,370 2,149 413 0.93 12% 4% 39-9021 Personal Care Aides 1,761 1,898 502 0.93 19% 10% 37-3011 Landscaping & Groundskeeping Workers 2,339 1,836 357 0.92 16% 6% 37-2012 Maids & Housekeepers 1,889 1,482 195 0.95 18% 5% 35-3022 Counter Attendants, Cafeteria, & Concession 1,147 1,472 156 0.89 5% 4% 39-9011 Childcare Workers 1,539 1,428 240 0.93 13% 6% 35-2021 Food Preparation Workers 1,236 1,382 250 1.03 10% 5% 43-4171 Receptionists & Information Clerks 1,311 1,147 231 0.89 13% 8% 35-9031 Hosts & Hostesses 792 1,078 121 0.93 4% 7% 33-9032 Security Guards 1,069 968 206 0.93 16% 11% ◀ MIDDLE-SKILL (More than high school, less than four years) 35-2014 Cooks, Restaurant 2,099 1,971 386 0.96 9% 5% 43-3031 Bookkeeping, Accounting, & Auditing Clerks 2,244 1,689 359 1.00 23% ◀ 11% ◀ 41-1011 First-Line Supvsr., Retail Sales Workers 2,377 1,658 339 1.03 15% 4% 53-3032 Heavy & Tractor-Trailer Truck Drivers 2,282 1,529 264 0.91 20% ◀ 9% 43-6013 Medical Secretaries 1,903 1,490 385 0.96 17% 6% 35-1012 First-Line Supvsr., Food Prep. & Servers 1,551 1,452 274 1.29 10% 4% 41-3099 Sales Reps., Services, All Other 1,794 1,440 298 0.94 15% 6%	37-2011 J	anitors & Cleaners, Exc. Maids & Housekeepers	3,031	2,707	592	0.95	20% <	10%
53-7062 Laborers/Freight, Stock, & Material Movers, Hand 2,370 2,149 413 0.93 12% 4% 39-9021 Personal Care Aides 1,761 1,898 502 0.93 19% 10% 37-3011 Landscaping & Groundskeeping Workers 2,339 1,836 357 0.92 16% 6% 37-2012 Maids & Housekeepers 1,889 1,482 195 0.95 18% 5% 35-3022 Counter Attendants, Cafeteria, & Concession 1,147 1,472 156 0.89 5% 4% 39-9011 Childcare Workers 1,539 1,428 240 0.93 13% 6% 35-2021 Food Preparation Workers 1,236 1,382 250 1.03 10% 5% 43-4171 Receptionists & Information Clerks 1,311 1,147 231 0.89 13% 8% 35-9031 Hosts & Hostesses 792 1,078 121 0.93 4% 7% 33-9032 Security Guards 1,069 968 206 0.93 16% 11% MIDDLE-SKILL (More than high school, less than four years) 35-2014 Cooks, Restaurant 2,099 1,971 386 0.96 9% 5% 43-3031 Bookkeeping, Accounting, & Auditing Clerks 2,244 1,689 359 1.00 23% 11% 41-1011 First-Line Supvsr., Retail Sales Workers 2,282 1,529 264 0.91 20% 9% 43-6013 Medical Secretaries 1,903 1,490 385 0.96 17% 6% 35-1012 First-Line Supvsr., Food Prep. & Servers 1,551 1,452 274 1.29 10% 4% 41-3099 Sales Reps., Services, All Other 1,794 1,440 298 0.94 15% 6%	43-4051	Customer Service Representatives	3,139	2,627	497	0.94	13%	4%
39-9021 Personal Care Aides 1,761 1,898 502 0.93 19% 10% 37-3011 Landscaping & Groundskeeping Workers 2,339 1,836 357 0.92 16% 6% 37-2012 Maids & Housekeepers 1,889 1,482 195 0.95 18% 5% 35-3022 Counter Attendants, Cafeteria, & Concession 1,147 1,472 156 0.89 5% 4% 39-9011 Childcare Workers 1,539 1,428 240 0.93 13% 6% 35-2021 Food Preparation Workers 1,236 1,382 250 1.03 10% 5% 43-4171 Receptionists & Information Clerks 1,311 1,147 231 0.89 13% 8% 35-9031 Hosts & Hostesses 792 1,078 121 0.93 4% 7% 33-9032 Security Guards 1,069 968 206 0.93 16% 11% ◀ MIDDLE-SKILL (More than high school, less than four years) 35-2014 Cooks, Restaurant 2,099 1,971 386 0.96 9% 5% 43-3031 Bookkeeping, Accounting, & Auditing Clerks 2,244 1,689 359 1.00 23% ◀ 11% ◀ 41-1011 First-Line Supvsr., Retail Sales Workers 2,377 1,658 339 1.03 15% 4% 53-3032 Heavy & Tractor-Trailer Truck Drivers 2,282 1,529 264 0.91 20% ◀ 9% 43-6013 Medical Secretaries 1,903 1,490 385 0.96 17% 6% 35-1012 First-Line Supvsr., Food Prep. & Servers 1,794 1,440 298 0.94 15% 6%	43-6014 9	Secretaries/Admin. Asst., Exc. Legal, Med., & Exec.	3,336	2,295	418	0.96	23%	10%
37-3011 Landscaping & Groundskeeping Workers 2,339 1,836 357 0.92 16% 6% 37-2012 Maids & Housekeepers 1,889 1,482 195 0.95 18% 5% 35-3022 Counter Attendants, Cafeteria, & Concession 1,147 1,472 156 0.89 5% 4% 39-9011 Childcare Workers 1,539 1,428 240 0.93 13% 6% 35-2021 Food Preparation Workers 1,236 1,382 250 1.03 10% 5% 43-4171 Receptionists & Information Clerks 1,311 1,147 231 0.89 13% 8% 35-9031 Hosts & Hostesses 792 1,078 121 0.93 4% 7% 33-9032 Security Guards 1,069 968 206 0.93 16% 11% MIDDLE-SKILL (More than high school, less than four years) 35-2014 Cooks, Restaurant 2,099 1,971 386 0.96 9% 5% 43-3031 Bookkeeping, Accounting, & Auditing Clerks 2,244 1,689 359 1.00 23% 41-1011 First-Line Supvsr., Retail Sales Workers 2,377 1,658 339 1.03 15% 4% 53-3032 Heavy & Tractor-Trailer Truck Drivers 2,282 1,529 264 0.91 20% 9% 43-6013 Medical Secretaries 1,794 1,440 298 0.94 15% 6%	53-7062 L	aborers/Freight, Stock, & Material Movers, Hand	2,370	2,149	413	0.93	12%	4%
37-2012 Maids & Housekeepers 1,889 1,482 195 0.95 18% 5% 35-3022 Counter Attendants, Cafeteria, & Concession 1,147 1,472 156 0.89 5% 4% 39-9011 Childcare Workers 1,539 1,428 240 0.93 13% 6% 35-2021 Food Preparation Workers 1,236 1,382 250 1.03 10% 5% 43-4171 Receptionists & Information Clerks 1,311 1,147 231 0.89 13% 8% 35-9031 Hosts & Hostesses 792 1,078 121 0.93 4% 7% 33-9032 Security Guards 1,069 968 206 0.93 16% 11% MIDDLE-SKILL (More than high school, less than four years) 35-2014 Cooks, Restaurant 2,099 1,971 386 0.96 9% 5% 43-3031 Bookkeeping, Accounting, & Auditing Clerks 2,244 1,689 359 1.00 23% 11% 41-1011 First-Line Supvsr., Retail Sales Workers 2,377 1,658 339 1.03 15% 4% 53-3032 Heavy & Tractor-Trailer Truck Drivers 2,282 1,529 264 0.91 20% 9% 43-6013 Medical Secretaries 1,903 1,490 385 0.96 17% 6% 35-1012 First-Line Supvsr., Food Prep. & Servers 1,794 1,440 298 0.94 15% 6%	39-9021 F	Personal Care Aides	1,761	1,898	502	0.93	19%	10%
35-3022 Counter Attendants, Cafeteria, & Concession 1,147 1,472 156 0.89 5% 4% 39-9011 Childcare Workers 1,539 1,428 240 0.93 13% 6% 35-2021 Food Preparation Workers 1,236 1,382 250 1.03 10% 5% 43-4171 Receptionists & Information Clerks 1,311 1,147 231 0.89 13% 8% 35-9031 Hosts & Hostesses 792 1,078 121 0.93 4% 7% 33-9032 Security Guards 1,069 968 206 0.93 16% 11% MIDDLE-SKILL (More than high school, less than four years) 35-2014 Cooks, Restaurant 2,099 1,971 386 0.96 9% 5% 43-3031 Bookkeeping, Accounting, & Auditing Clerks 2,244 1,689 359 1.00 23% 11% 41-1011 First-Line Supvsr., Retail Sales Workers 2,377 1,658 339 1.03 15% 4% 53-3032 Heavy & Tractor-Trailer Truck Drivers 2,282 1,529 264 0.91 20% 9% 43-6013 Medical Secretaries 1,903 1,490 385 0.96 17% 6% 35-1012 First-Line Supvsr., Food Prep. & Servers 1,551 1,452 274 1.29 10% 4% 41-3099 Sales Reps., Services, All Other 1,794 1,440 298 0.94 15% 6%	37-3011 L	andscaping & Groundskeeping Workers	2,339	1,836	357	0.92	16%	6%
39-9011 Childcare Workers 1,539 1,428 240 0.93 13% 6% 35-2021 Food Preparation Workers 1,236 1,382 250 1.03 10% 5% 43-4171 Receptionists & Information Clerks 1,311 1,147 231 0.89 13% 8% 35-9031 Hosts & Hostesses 792 1,078 121 0.93 4% 7% 33-9032 Security Guards 1,069 968 206 0.93 16% 11% MIDDLE-SKILL (More than high school, less than four years) 35-2014 Cooks, Restaurant 2,099 1,971 386 0.96 9% 5% 43-3031 Bookkeeping, Accounting, & Auditing Clerks 2,244 1,689 359 1.00 23% 11% 41-1011 First-Line Supvsr., Retail Sales Workers 2,377 1,658 339 1.03 15% 4% 53-3032 Heavy & Tractor-Trailer Truck Drivers 2,282 1,529 264 0.91 20% 9% 43-6013 Medical Secretaries 1,903 1,490 385 0.96 17% 6% 35-1012 First-Line Supvsr., Food Prep. & Servers 1,551 1,452 274 1.29 10% 4% 41-3099 Sales Reps., Services, All Other 1,794 1,440 298 0.94 15% 6%	37-2012 N	Maids & Housekeepers	1,889	1,482	195	0.95	18%	5%
35-2021 Food Preparation Workers 1,236 1,382 250 1.03 10% 5% 43-4171 Receptionists & Information Clerks 1,311 1,147 231 0.89 13% 8% 35-9031 Hosts & Hostesses 792 1,078 121 0.93 4% 7% 33-9032 Security Guards 1,069 968 206 0.93 16% 11% MIDDLE-SKILL (More than high school, less than four years) 35-2014 Cooks, Restaurant 2,099 1,971 386 0.96 9% 5% 43-3031 Bookkeeping, Accounting, & Auditing Clerks 2,244 1,689 359 1.00 23% 11% 41-1011 First-Line Supvsr., Retail Sales Workers 2,377 1,658 339 1.03 15% 4% 53-3032 Heavy & Tractor-Trailer Truck Drivers 2,282 1,529 264 0.91 20% 9% 43-6013 Medical Secretaries 1,903 1,490 385 0.96 17% 6% 35-1012 First-Line Supvsr., Food Prep. & Servers 1,551 1,452 274 1.29 10% 4% 41-3099 Sales Reps., Services, All Other 1,794 1,440 298 0.94 15% 6%	35-3022	Counter Attendants, Cafeteria, & Concession	1,147	1,472	156	0.89	5%	4%
43-4171 Receptionists & Information Clerks 1,311	39-9011 (Childcare Workers	1,539	1,428	240	0.93	13%	6%
35-9031 Hosts & Hostesses 792 1,078 121 0.93 4% 7% 33-9032 Security Guards 1,069 968 206 0.93 16% 11% MIDDLE-SKILL (More than high school, less than four years) 35-2014 Cooks, Restaurant 2,099 1,971 386 0.96 9% 5% 43-3031 Bookkeeping, Accounting, & Auditing Clerks 2,244 1,689 359 1.00 23% ◀ 11% ◀ 41-1011 First-Line Supvsr., Retail Sales Workers 2,377 1,658 339 1.03 15% 4% 53-3032 Heavy & Tractor-Trailer Truck Drivers 2,282 1,529 264 0.91 20% ◀ 9% 43-6013 Medical Secretaries 1,903 1,490 385 0.96 17% 6% 35-1012 First-Line Supvsr., Food Prep. & Servers 1,551 1,452 274 1.29 10% 4% 41-3099 Sales Reps., Services, All Other 1,794 1,440 298 0.94 15% 6%	35-2021 F	ood Preparation Workers	1,236	1,382	250	1.03	10%	5%
33-9032 Security Guards 1,069 968 206 0.93 16% 11% MIDDLE-SKILL (More than high school, less than four years) 35-2014 Cooks, Restaurant 2,099 1,971 386 0.96 9% 5% 43-3031 Bookkeeping, Accounting, & Auditing Clerks 2,244 1,689 359 1.00 23% 41-1011 First-Line Supvsr., Retail Sales Workers 2,377 1,658 339 1.03 15% 4% 53-3032 Heavy & Tractor-Trailer Truck Drivers 2,282 1,529 264 0.91 20% 43-6013 Medical Secretaries 1,903 1,490 385 0.96 17% 6% 35-1012 First-Line Supvsr., Food Prep. & Servers 1,551 1,452 274 1.29 10% 4% 41-3099 Sales Reps., Services, All Other 1,794 1,440 298 0.94 15% 6%	43-4171 R	Receptionists & Information Clerks	1,311	1,147	231	0.89	13%	8%
MIDDLE-SKILL (More than high school, less than four years) 35-2014 Cooks, Restaurant 2,099 1,971 386 0.96 9% 5% 43-3031 Bookkeeping, Accounting, & Auditing Clerks 2,244 1,689 359 1.00 23% 11% 4 41-1011 First-Line Supvsr., Retail Sales Workers 2,377 1,658 339 1.03 15% 4% 53-3032 Heavy & Tractor-Trailer Truck Drivers 2,282 1,529 264 0.91 20% 9% 43-6013 Medical Secretaries 1,903 1,490 385 0.96 17% 6% 35-1012 First-Line Supvsr., Food Prep. & Servers 1,551 1,452 274 1.29 10% 4% 41-3099 Sales Reps., Services, All Other 1,794 1,440 298 0.94 15% 6%	35-9031 H	Hosts & Hostesses	792	1,078	121	0.93	4%	7%
35-2014 Cooks, Restaurant 2,099 1,971 386 0.96 9% 5% 43-3031 Bookkeeping, Accounting, & Auditing Clerks 2,244 1,689 359 1.00 23% 11% 41-1011 First-Line Supvsr., Retail Sales Workers 2,377 1,658 339 1.03 15% 4% 53-3032 Heavy & Tractor-Trailer Truck Drivers 2,282 1,529 264 0.91 20% 9% 43-6013 Medical Secretaries 1,903 1,490 385 0.96 17% 6% 35-1012 First-Line Supvsr., Food Prep. & Servers 1,551 1,452 274 1.29 10% 4% 41-3099 Sales Reps., Services, All Other 1,794 1,440 298 0.94 15% 6%	33-9032 5	Security Guards	1,069	968	206	0.93	16%	11% ◀
43-3031 Bookkeeping, Accounting, & Auditing Clerks 2,244 1,689 359 1.00 23% ◀ 11% ◀ 41-1011 First-Line Supvsr., Retail Sales Workers 2,377 1,658 339 1.03 15% 4% 53-3032 Heavy & Tractor-Trailer Truck Drivers 2,282 1,529 264 0.91 20% ◀ 9% 43-6013 Medical Secretaries 1,903 1,490 385 0.96 17% 6% 35-1012 First-Line Supvsr., Food Prep. & Servers 1,551 1,452 274 1.29 10% 4% 41-3099 Sales Reps., Services, All Other 1,794 1,440 298 0.94 15% 6%	MIDDLE-S	KILL (More than high school, less than four years)						
41-1011 First-Line Supvsr., Retail Sales Workers 2,377 1,658 339 1.03 15% 4% 53-3032 Heavy & Tractor-Trailer Truck Drivers 2,282 1,529 264 0.91 20% 9% 43-6013 Medical Secretaries 1,903 1,490 385 0.96 17% 6% 35-1012 First-Line Supvsr., Food Prep. & Servers 1,551 1,452 274 1.29 10% 4% 41-3099 Sales Reps., Services, All Other 1,794 1,440 298 0.94 15% 6%	35-2014	Cooks, Restaurant	2,099	1,971	386	0.96	9%	5%
53-3032 Heavy & Tractor-Trailer Truck Drivers 2,282 1,529 264 0.91 20% 9% 43-6013 Medical Secretaries 1,903 1,490 385 0.96 17% 6% 35-1012 First-Line Supvsr., Food Prep. & Servers 1,551 1,452 274 1.29 10% 4% 41-3099 Sales Reps., Services, All Other 1,794 1,440 298 0.94 15% 6%	43-3031 E	Bookkeeping, Accounting, & Auditing Clerks	2,244	1,689	359	1.00	23%	11% <
43-6013 Medical Secretaries 1,903 1,490 385 0.96 17% 6% 35-1012 First-Line Supvsr., Food Prep. & Servers 1,551 1,452 274 1.29 10% 4% 41-3099 Sales Reps., Services, All Other 1,794 1,440 298 0.94 15% 6%	41-1011 F	First-Line Supvsr., Retail Sales Workers	2,377	1,658	339	1.03	15%	4%
35-1012 First-Line Supvsr., Food Prep. & Servers 1,551 1,452 274 1.29 10% 4% 41-3099 Sales Reps., Services, All Other 1,794 1,440 298 0.94 15% 6%	53-3032 H	Heavy & Tractor-Trailer Truck Drivers	2,282	1,529	264	0.91	20% <	9%
41-3099 Sales Reps., Services, All Other 1,794 1,440 298 0.94 15% 6%	43-6013 <i>N</i>	Medical Secretaries	1,903	1,490	385	0.96	17%	6%
	35-1012 F	First-Line Supvsr., Food Prep. & Servers	1,551	1,452	274	1.29	10%	4%
25-9041 Teacher Assistants 1,878 1,407 373 0.77 18% 5%	41-3099 5	Sales Reps., Services, All Other	1,794	1,440	298	0.94	15%	6%
		•	1,878	1,407	373	0.77	18%	5%
43-1011 First-Line Supvsr., Office & Admin. Support 1,861 1,291 315 1.03 18% 5%	43-1011 F	First-Line Supvsr., Office & Admin. Support	1,861	1,291	315	1.03	18%	5%
41-4012 Sales Reps., Whls. & Mfg., Exc. Tech. & Scientific 1,780 1,273 311 0.99 20% ◀ 8%	41-4012 5	Sales Reps., Whls. & Mfg., Exc. Tech. & Scientific	1,780	1,273	311	0.99	20% <	8%

continued, next page.

FIGURE 11. MONTGOMERY COUNTY DEMAND FACTORS BY SKILL LEVEL (CONTINUED)

ESTIMATED ANNUAL OPENINGS (THROUGH 2023) WITH ESTIMATE OF NET CHANGE

					DEMANE	FACT	ORS	
SOC CODE DES	SCRIPTION	2018 Jobs	Ope (20	ected enings 018- 023)	Net Job Change (2018- 2023)	Wage Premium over US	% 55-64 Years	% 65 + Years
47-1011 First	t-Line Supvsr., Constr. Trades & Extraction	1,718		1,268	357	0.98	19%	6%
49-9071 Mai	intenance & Repair Workers, General	1,772		1,185	273	0.91	23% <	7%
47-2111 Elec	ctricians	1,255		983	238	0.89	14%	4%
47-2031 Car	rpenters	1,594		916	164	0.92	17%	4%
31-9092 Med	dical Assistants	1,048		901	283	0.92	6%	1%
31-1014 Nur	rsing Assistants	1,1 <i>57</i>		888	196	1.00	13%	4%
47-2152 Plum	mbers, Pipefitters, & Steamfitters	1,036		848	253	0.91	13%	3%
47-2073 Ope	erating Eng. & Other Constr. Equip. Operators	906		81 <i>7</i>	260	0.78	18%	6%
51-4121 We	elders, Cutters, Solderers, & Brazers	1,165		777	131	1.06	14%	3%
39-5012 Hai	irdressers, Hairstylists, & Cosmetologists	906		736	162	1.05	11%	6%
HIGH SKILL	(Four-year degree or above)							
13-2011 Acc	countants & Auditors	2,883		2,061	669	1.13	16%	6%
11-1021 Ger	neral & Operations Managers	2,841		1,821	576	1.15	17%	4%
25-2021 Tea	achers, Elementary (Except Special Ed.)	2,770		1,497	454	0.96	17%	3%
29-1141 Reg	gistered Nurses	2,588		1,419	691	1.12	17%	4%
25-2031 Tea	ichers, Secondary (Exc. Special Ed. & CTE)	2,530		1,305	385	0.92	17%	3%
25-3098 Sub	ostitute Teachers	1,453		1,048	211	0.82	16%	7%
25-1099 Tea	ichers, Postsecondary	1,83 <i>7</i>		1,043	302	1.20	18%	14% <
13-1199 Busi	iness Operations Specialists, All Other	1,026		725	222	1.11	19%	6%
25-2022 Tea	ichers, Middle School (Exc. Special Ed. & CTE)	1,325		709	211	0.95	17%	3%
13-1111 Mai	nagement Analysts	1,010		668	204	1.04	24% <	13% <
11-9199 Mai	nagers, All Other	1,109		576	167	0.76	25% <	10%
13-1071 Hun	man Resources Specialists	<i>7</i> 81		564	157	1.12	14%	3%
41-3031 Sec	curities, Commodities, & Financial Srvcs. Sales	724		484	120	0.71	14%	5%
11-9021 Cor	nstruction Managers	873		460	144	0.84	21% <	6%
11-3031 Find	ancial Managers	659		455	186	1.10	18%	5%
21-2011 Clei	ergy	572		450	116	1.09	25% ◀	20% <
15-1132 Soft	tware Developers, Applications	705		446	196	0.99	11%	2%
15-1121 Cor	mputer Systems Analysts	740		386	133	0.99	15%	3%
13-1161 Mai	rket Research Analysts & Mktng. Specialists	440		380	140	1.06	12%	4%
17-2051 Civi	il Engineers	486		369	168	1.30	17%	9%

Source: Emsi 2019.1—QCEW Employees, Non-QCEW Employees, and Self-Employed.

Note: Highlights represent the following in each column. Wage premium = 10% or higher than US wages; %55-64 = 20% or higher; %65+ >10%.

FIGURE 12. OPENINGS BY CAREER CLUSTER, 2018-2023

MONTGOMERY COUNTY

	TOTAL	OPENINGS REQUIRING	BY SK	LL LEVEL
CAREER CLUSTER	OPENINGS	TRAINING	Middle	High
Architecture & Construction	14,452	10,622	9,265	1,3 <i>57</i>
Education & Training	10,881	10,445	2,198	8,247
Business Management & Administration	21,418	10,376	4,044	6,332
Health Science	10,185	9,069	5,887	3,182
Manufacturing	9,714	8,303	8,303	
Marketing	21,040	7,227	5,742	1,484
Finance	6,873	6,102	2,205	3,896
Hospitality & Tourism	32,019	4,448	4,435	13
Transportation, Distribution & Logistics	14,457	4,447	4,263	184
Human Services	7,875	3,097	1,267	1,830
Information Technology	2,311	2,311	689	1,622
Law, Public Safety, Corrections & Security	3,873	1,975	1,592	382
Arts, Audio/Video Technology & Communications	1,775	1,728	979	749
Science, Technology, Engineering & Mathematics	1,647	1,647	72	1,574
Agriculture, Food & Natural Resources	1,610	802	695	107
Government & Public Adminstration	728	472	250	222

Source: Emsi 2019.1—QCEW Employees, Non-QCEW Employees, and Self-Employed.

Note: Only occupations with 10+ openings.

FIGURE 13. MONTGOMERY COUNTY DEMAND FACTORS BY CAREER CLUSTER

ESTIMATED ANNUAL OPENINGS (THROUGH 2023) WITH ESTIMATE OF NET CHANGE

Projected Proj				DEMAND FACTORS				
47-1011 First-Line Supvsr., Constr. Trades & Extraction 1,718 1,268 357 0,98 19% 6% 47-2111 Electricians 1,255 983 238 0.89 14% 4% 47-2031 Corpenters 1,594 916 164 0.92 17% 4% 47-2152 Plumbers, Pipefitters, & Steamfitters 1,036 848 253 0,91 13% 3% 47-2073 Operating Eng. & Other Constr. Equip. Operators 906 817 260 0.78 18% 6% 47-2073 Construction Managers 873 460 144 0.84 21% 4 6% 49-9021 HVAC/Refrig. Mechanics & Installers 518 378 108 0.84 14% 4% 17-2051 Civil Engineers 486 369 168 130 17% 9% 47-2015 Cement Masons & Concrete Finishers 374 334 108 0.75 13% 4% 47-2011 Picture Line Supvsr., Identifications 354 268 80 10.01 19% 4% 47-2011 Service Unit Operators, Oil, Gas, & Mining 379 306 65 0	CODE			Openings (2018-	Change (2018-	Wage Premium over US		
47-2111 Electricions 1,255 983 238 0.89 14% 4% 47-2031 Carpenters 1,594 916 164 0.92 17% 4% 47-2152 Plumbers, Pipefitters, & Steamfitters 1,036 848 253 0.91 13% 3% 47-2073 Operating Eng. & Other Constr. Equip. Operators 906 817 260 0.78 18% 6% 11-9021 Construction Managers 873 460 144 0.84 21% 6% 49-9021 HVAC/Refrig. Mechanics & Installers 518 378 108 0.84 14% 4% 47-2051 Civil Engineers 486 369 168 1.30 17% 9% 47-2051 Cement Masons & Concrete Finishers 374 334 108 0.75 13% 4% 47-2011 Painters, Construction & Maintenance 677 334 41 1.04 19% 4% 47-2013 Service Unit Operators, Oil, Gas, & Mining 379 306 65 0.89 8% Insf. Data 47-2021 Brickmasons & Blockmasons 243 226 103 0.93 15% <td< td=""><td>Archited</td><td>ture & Construction</td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	Archited	ture & Construction						
47-2031 Carpenters 1,594 916 164 0.92 17% 4% 47-2152 Plumbers, Pipefitters, & Steamfitters 1,036 848 253 0.91 13% 3% 47-2073 Operating Eng. & Other Constr. Equip. Operators 906 817 260 0.78 18% 6% 11-9021 Construction Managers 873 460 144 0.84 21% 6% 49-9021 HVAC/Refrig. Mechanics & Installers 518 378 108 0.84 14% 4% 17-2051 Civil Engineers 486 369 168 1.30 17% 9% 47-2051 Cement Masons & Concrete Finishers 374 334 108 0.75 13% 4% 47-2011 Pointers, Construction & Maintenance 677 334 41 1.04 19% 4% 47-2013 Service Unit Operators, Oil, Gas, & Mining 379 306 65 0.89 8% Insf. Data 47-2021 Brickmasons & Blockmasons 243 226 103 0.93 15% 5% 47-2211 Sheet Metal Workers 237 163 33 0.82 15%			1,718	1,268	357	0.98		
47-2152 Plumbers, Pipefitters, & Steamfitters 1,036 848 253 0.91 13% 3% 47-2073 Operating Eng. & Other Constr. Equip. Operators 906 817 260 0.78 18% 6% 11-9021 Construction Managers 873 460 144 0.84 21% 4 6% 49-9021 HVAC/Refrig. Mechanics & Installers 518 378 108 0.84 14% 4% 17-2051 Civil Engineers 486 369 168 1.30 17% 9% 47-2051 Cement Masons & Concrete Finishers 374 334 108 0.75 13% 4% 47-2013 Service Unit Operators, Oil, Gas, & Mining 379 306 65 0.89 8% Insf. Data 13-1051 Cost Estimators 354 268 80 1.01 22% 14% 4 47-2011 Sheet Metal Workers 237 163 33 0.82 15% 5% 37-1012 First-Line Supvsr., Landscaping & Groundskeeping 241 152 33 0.77 17% Insf. Data Education & Training 25-2021 Teachers, Elementary (Except Special Ed.)					238			4%
47-2073 Operating Eng. & Other Constr. Equip. Operators 906 817 260 0.78 18% 6% 11-9021 Construction Managers 873 460 144 0.84 21% 6% 49-9021 HVAC/Refrig. Mechanics & Installers 518 378 108 0.84 14% 4% 17-2051 Civil Engineers 486 369 168 130 17% 9% 47-2051 Cement Masons & Concrete Finishers 374 334 108 0.75 13% 4% 47-2141 Pointers, Construction & Maintenance 677 334 41 1.04 19% 4% 47-5013 Service Unit Operators, Oil, Gas, & Mining 379 306 65 0.89 8% Insf. Data 13-1051 Cost Estimators 354 268 80 1.01 22% 14% 4 47-2021 Brickmasons & Blockmasons 243 226 103 0.93 15% 5% 37-1012 First-Line Supvar., Landscaping & Groundskeeping 241 152 33 0.72 17% Insf. Data Education & Training 25-2021 Teachers, Elementary (Except Special Ed.) <	47-2031	Carpenters	1,594	916	164	0.92	17%	4%
11-9021 Construction Managers 873 460 144 0.84 21%	47-2152	Plumbers, Pipefitters, & Steamfitters	1,036	848	253	0.91	13%	3%
49-9021 HVAC/Refrig. Mechanics & Installers 518 378 108 0.84 14% 4% 17-2051 Civil Engineers 486 369 168 1.30 17% 9% 47-2051 Cement Masons & Concrete Finishers 374 334 108 0.75 13% 4% 47-2051 Service Unit Operators, Oil, Gas, & Mining 379 306 65 0.89 8% Inst. Data 47-5013 Service Unit Operators, Oil, Gas, & Mining 379 306 65 0.89 8% Inst. Data 47-2021 Brickmasons & Blockmasons 243 226 103 0.93 15% 5% 47-2211 Sheet Metal Workers 237 163 33 0.82 15% 5% 37-1012 First-Line Supvsr., Landscaping & Groundskeeping 241 152 33 0.77 17% Insf. Data Education & Training 25-2021 Teachers, Elementary (Except Special Ed.) 2,770 1,497 454 0.96 17% 3% 25-2021 Teachers, Secondary (Exc. Special Ed. & CTE) 2,530 1,305 385 0.92 17% 3% 25-2021 Teachers, Postsec	47-2073	Operating Eng. & Other Constr. Equip. Operators	906	817	260	0.78	18%	6%
17-2051 Civil Engineers 486 369 168 1,30 17% 9% 47-2051 Cement Masons & Concrete Finishers 374 334 108 0,75 13% 4% 47-2014 Painters, Construction & Maintenance 677 334 41 1,04 19% 4% 47-5013 Service Unit Operators, Oil, Gas, & Mining 379 306 65 0.89 8% Insf. Data 13-1051 Cost Estimators 354 268 80 1,01 22% 14% 4 47-2021 Brickmasons & Blockmasons 243 226 103 0,93 15% 5% 47-2211 Sheet Metal Workers 237 163 33 0.82 15% 5% 37-1012 First-Line Supvsr., Landscaping & Groundskeeping 241 152 33 0.77 17% Insf. Data Education & Training 25-2021 Teachers, Elementary (Except Special Ed.) 2,770 1,497 454 0.96 17% 3% 25-9041 Teachers, Secondary (Exc. Special Ed. & CTE) 2,530 1,305 385 0.92 17% 3% 25-2021 Teachers, Postsecondary	11-9021	Construction Managers	873	460	144	0.84	21%	4 6%
47:2051 Cement Masons & Concrete Finishers 374 334 108 0.75 13% 4% 47:2141 Painters, Construction & Maintenance 677 334 41 1.04 19% 4% 47:5013 Service Unit Operators, Oil, Gas, & Mining 379 306 65 0.89 8% Insf. Data 13:1051 Cost Estimators 354 268 80 1.01 22% 14% 4 47:2021 Brickmasons & Blockmasons 243 226 103 0.93 15% 5% 47:2211 Sheet Metal Workers 237 163 33 0.82 15% 5% 37:1012 First-Line Supvsr., Landscaping & Groundskeeping 241 152 33 0.77 17% Insf. Data Education & Training 25:2021 Teachers, Elementary (Except Special Ed.) 2,770 1,497 454 0.96 17% 3% 25:2021 Teachers, Secondary (Exc. Special Ed. & CTE) 2,530 1,305 385 0.92 17% 3% 25:2031 Teachers, Postsecondary 1,837 1,043 302 1.20 18% 14% 4 25:2011 Tea	49-9021	HVAC/Refrig. Mechanics & Installers	518	378	108	0.84	14%	4%
47-2141 Painters, Construction & Maintenance 677 334 41 1.04 19% 4% 47-5013 Service Unit Operators, Oil, Gas, & Mining 379 306 65 0.89 8% Insf. Data 13-1051 Cost Estimators 354 268 80 1.01 22% ◀ 14% ◀ 47-2021 Brickmasons & Blockmasons 243 226 103 0.93 15% 5% 47-2211 Sheet Metal Workers 237 163 33 0.82 15% 5% 37-1012 First-Line Supvsr., Landscaping & Groundskeeping 241 152 33 0.77 17% Insf. Data Education & Training 25-2021 Teachers, Elementary (Except Special Ed.) 2,770 1,497 454 0.96 17% 3% 25-9041 Teacher Assistants 1,878 1,407 373 0.77 18% 5% 5% 25-2031 Teachers, Secondary (Exc. Special Ed. & CTE) 2,530 1,305 385 0.92 17% 3% 25-3098 Substitute Teachers 1,453 1,048 211 0.82 16% 7% 25-2011 Teachers, Postsecondary 1,837 1,043 302 120 18% 14% ◀ 25-2022 Teachers, M	1 <i>7</i> -2051	Civil Engineers	486	369	168	1.30	17%	9%
47-5013 Service Unit Operators, Oil, Gas, & Mining 379 306 65 0.89 8% Insf. Data 13-1051 Cost Estimators 354 268 80 1.01 22% ◀ 14% ◀ 47-2021 Brickmasons & Blockmasons 243 226 103 0.93 15% 5% 47-2211 Sheet Metal Workers 237 163 33 0.82 15% 5% 37-1012 First-Line Supvsr., Landscaping & Groundskeeping 241 152 33 0.77 17% Insf. Data Education & Training 25-2021 Teachers, Elementary (Except Special Ed.) 2,770 1,497 454 0.96 17% 3% 25-9041 Teachers, Elementary (Except Special Ed.) 2,770 1,497 454 0.96 17% 3% 25-2031 Teachers, Secondary (Exc. Special Ed. & CTE) 2,530 1,305 385 0.92 17% 3% 25-3098 Substitute Teachers 1,453 1,048 211 0.82 16% 7% 25-1099 Teachers, Postsecondary 1,837 1,043 302 120 18% 14% ◀ 25-2011 Teachers, Preschool (Except Special Ed.) 1,052 724 180 0.77 10% 2% 25-2022	47-2051	Cement Masons & Concrete Finishers	374	334	108	0.75	13%	4%
13-1051 Cost Estimators 354 268 80 1.01 22%	47-2141	Painters, Construction & Maintenance	677	334	41	1.04	19%	4%
47-2021 Brickmasons & Blockmasons 243	47-5013	Service Unit Operators, Oil, Gas, & Mining	3 <i>7</i> 9	306	65	0.89	8%	Insf. Data
47-2211 Sheet Metal Workers 237 163 33 0.82 15% 5% 37-1012 First-Line Supvsr., Landscaping & Groundskeeping 241 152 33 0.77 17% Insf. Data Education & Training 25-2021 Teachers, Elementary (Except Special Ed.) 2,770 1,497 454 0.96 17% 3% 25-9041 Teacher Assistants 1,878 1,407 373 0.77 18% 5% 25-2031 Teachers, Secondary (Exc. Special Ed. & CTE) 2,530 1,305 385 0.92 17% 3% 25-3098 Substitute Teachers 1,453 1,048 211 0.82 16% 7% 25-1099 Teachers, Postsecondary 1,837 1,043 302 1.20 18% 14% 4 25-2011 Teachers, Preschool (Except Special Ed.) 1,052 724 180 0.77 10% 2% 25-2022 Teachers, Middle School (Exc. Special Ed. & CTE) 1,325 709 211 0.95 17% 3% 25-3097 Teachers & Instructors, All Other 471 360 85 0.82 14% 10%	13-1051	Cost Estimators	354	268	80	1.01	22%	■ 14% ■
37-1012 First-Line Supvsr., Landscaping & Groundskeeping 241 152 33 0.77 17% Insf. Data Education & Training 25-2021 Teachers, Elementary (Except Special Ed.) 2,770 1,497 454 0.96 17% 3% 25-9041 Teacher Assistants 1,878 1,407 373 0.77 18% 5% 25-2031 Teachers, Secondary (Exc. Special Ed. & CTE) 2,530 1,305 385 0.92 17% 3% 25-3098 Substitute Teachers 1,453 1,048 211 0.82 16% 7% 25-1099 Teachers, Postsecondary 1,837 1,043 302 1.20 18% 14% 4 25-2011 Teachers, Preschool (Except Special Ed.) 1,052 724 180 0.77 10% 2% 25-2022 Teachers, Middle School (Exc. Special Ed.) 1,325 709 211 0.95 17% 3% 25-3097 Teachers & Instructors, All Other 471 360 85 0.82 14% 10% 21-1012 Educ., Guidance, School, & Vocational Counselors 431 306 69 1.07 17% 5%	47-2021	Brickmasons & Blockmasons	243	226	103	0.93	15%	5%
Education & Training 25-2021 Teachers, Elementary (Except Special Ed.) 2,770	47-2211	Sheet Metal Workers	237	163	33	0.82	15%	5%
25-2021 Teachers, Elementary (Except Special Ed.) 2,770 1,497 454 0.96 17% 3% 25-9041 Teacher Assistants 1,878 1,407 373 0.77 18% 5% 25-2031 Teachers, Secondary (Exc. Special Ed. & CTE) 2,530 1,305 385 0.92 17% 3% 25-3098 Substitute Teachers 1,453 1,048 211 0.82 16% 7% 25-1099 Teachers, Postsecondary 1,837 1,043 302 1.20 18% 14% 25-2011 Teachers, Preschool (Except Special Ed.) 1,052 724 180 0.77 10% 2% 25-2022 Teachers, Middle School (Exc. Special Ed. & CTE) 2,530 1,305 385 0.92 17% 3% 1,048 211 0.82 16% 7% 25-2011 Teachers, Preschool (Except Special Ed.) 1,052 724 180 0.77 10% 2% 25-2022 Teachers, Middle School (Exc. Special Ed. & CTE) 1,325 709 211 0.95 17% 3% 25-3097 Teachers & Instructors, All Other 471 360 85 0.82 14% 10% 21-1012 Educ., Guidance, School, & Vocational Counselors 431 306 69 1.07 17% 5% 11-9032 Educ. Administrators, Elem. & Secondary 497 278 81 0.83 23% 5% 27-2022 Coaches & Scouts 303 277 61 1.11 8% 5% 25-2012 Teachers, Kindergarten (Except Special Ed.) 368 244 55 0.99 13% Insf. Data 25-9031 Instructional Coordinators 275 175 44 1.05 21% 8% 25-3011 Teachers & Instr., Adult/Remedial/GED 252 153 13 1.00 13% 8%	3 <i>7</i> -1012	First-Line Supvsr., Landscaping & Groundskeeping	241	152	33	0.77	17%	Insf. Data
25-9041 Teacher Assistants 1,878 1,407 373 0.77 18% 5% 25-2031 Teachers, Secondary (Exc. Special Ed. & CTE) 2,530 1,305 385 0.92 17% 3% 25-3098 Substitute Teachers 1,453 1,048 211 0.82 16% 7% 25-1099 Teachers, Postsecondary 1,837 1,043 302 1.20 18% 14% 25-2011 Teachers, Preschool (Except Special Ed.) 1,052 724 180 0.77 10% 2% 25-2022 Teachers, Middle School (Exc. Special Ed. & CTE) 1,325 709 211 0.95 17% 3% 25-3097 Teachers & Instructors, All Other 471 360 85 0.82 14% 10% 21-1012 Educ., Guidance, School, & Vocational Counselors 431 306 69 1.07 17% 5% 11-9032 Educ. Administrators, Elem. & Secondary 497 278 81 0.83 23% 5% 27-2022 Coaches & Scouts 303 277 61 1.11 8% 5% 25-2012 Teachers, Kindergarten (Except Special Ed.) 368 244 55 0.99 13% Insf. Data 25-9031 Instructional Coordinators 275 175 44 1.05 21% 8% 25-3011 Teachers & Instr., Adult/Remedial/GED 252 153 13 1.00 13% 8%	Education	on & Training						
25-2031 Teachers, Secondary (Exc. Special Ed. & CTE) 2,530 1,305 385 0.92 17% 3% 25-3098 Substitute Teachers 1,453 1,048 211 0.82 16% 7% 25-1099 Teachers, Postsecondary 1,837 1,043 302 1.20 18% 14% ◀ 25-2011 Teachers, Preschool (Except Special Ed.) 1,052 724 180 0.77 10% 2% 25-2022 Teachers, Middle School (Exc. Special Ed. & CTE) 1,325 709 211 0.95 17% 3% 25-3097 Teachers & Instructors, All Other 471 360 85 0.82 14% 10% 21-1012 Educ., Guidance, School, & Vocational Counselors 431 306 69 1.07 17% 5% 11-9032 Educ. Administrators, Elem. & Secondary 497 278 81 0.83 23% ◀ 5% 27-2022 Coaches & Scouts 303 277 61 1.11 8% 5% 25-2012 Teachers, Kindergarten (Except Special Ed.) 368 244 55 0.99 13% Insf. Data 25-9031 Instructional Coordinators 275 175 44 1.05 21% ◀ 8% 25-3011 Teachers & Instr., Adult/Remedial/GED 252 153 13 1.00 13% 8%	25-2021	Teachers, Elementary (Except Special Ed.)	2,770	1,497	454	0.96	17%	3%
25-3098 Substitute Teachers 1,453 1,048 211 0.82 16% 7% 25-1099 Teachers, Postsecondary 1,837 1,043 302 1.20 18% 14% ◀ 25-2011 Teachers, Preschool (Except Special Ed.) 1,052 724 180 0.77 10% 2% 25-2022 Teachers, Middle School (Exc. Special Ed. & CTE) 1,325 709 211 0.95 17% 3% 25-3097 Teachers & Instructors, All Other 471 360 85 0.82 14% 10% 21-1012 Educ., Guidance, School, & Vocational Counselors 431 306 69 1.07 17% 5% 11-9032 Educ. Administrators, Elem. & Secondary 497 278 81 0.83 23% ◀ 5% 27-2022 Coaches & Scouts 303 277 61 1.11 8% 5% 25-2012 Teachers, Kindergarten (Except Special Ed.) 368 244 55 0.99 13% Insf. Data 25-9031 Instructional Coordinators 275 175 44 1.05 21% ◀ 8% 25-3011 Teachers & Instr., Adult/Remedial/GED 252 153 13 1.00 13% 8%	25-9041	Teacher Assistants	1,878	1,407	373	0.77	18%	5%
25-1099 Teachers, Postsecondary 1,837 1,043 302 1.20 18% 14% 25-2011 Teachers, Preschool (Except Special Ed.) 1,052 724 180 0.77 10% 2% 25-2022 Teachers, Middle School (Exc. Special Ed. & CTE) 1,325 709 211 0.95 17% 3% 25-3097 Teachers & Instructors, All Other 471 360 85 0.82 14% 10% 21-1012 Educ., Guidance, School, & Vocational Counselors 431 306 69 1.07 17% 5% 11-9032 Educ. Administrators, Elem. & Secondary 497 278 81 0.83 23% 5% 27-2022 Coaches & Scouts 303 277 61 1.11 8% 5% 25-2012 Teachers, Kindergarten (Except Special Ed.) 368 244 55 0.99 13% Insf. Data 25-9031 Instructional Coordinators 275 175 44 1.05 21% 8% 25-3011 Teachers & Instr., Adult/Remedial/GED	25-2031	Teachers, Secondary (Exc. Special Ed. & CTE)	2,530	1,305	385	0.92	17%	3%
25-2011 Teachers, Preschool (Except Special Ed.) 1,052 724 180 0.77 10% 2% 25-2022 Teachers, Middle School (Exc. Special Ed. & CTE) 1,325 709 211 0.95 17% 3% 25-3097 Teachers & Instructors, All Other 471 360 85 0.82 14% 10% 21-1012 Educ., Guidance, School, & Vocational Counselors 431 306 69 1.07 17% 5% 11-9032 Educ. Administrators, Elem. & Secondary 497 278 81 0.83 23% ◀ 5% 27-2022 Coaches & Scouts 303 277 61 1.11 8% 5% 25-2012 Teachers, Kindergarten (Except Special Ed.) 368 244 55 0.99 13% Insf. Data 25-9031 Instructional Coordinators 275 175 44 1.05 21% ◀ 8% 25-3011 Teachers & Instr., Adult/Remedial/GED 252 153 13 1.00 13% 8%	25-3098	Substitute Teachers	1,453	1,048	211	0.82	16%	7%
25-2022 Teachers, Middle School (Exc. Special Ed. & CTE) 1,325 709 211 0.95 17% 3% 25-3097 Teachers & Instructors, All Other 471 360 85 0.82 14% 10% 21-1012 Educ., Guidance, School, & Vocational Counselors 431 306 69 1.07 17% 5% 11-9032 Educ. Administrators, Elem. & Secondary 497 278 81 0.83 23% 5% 27-2022 Coaches & Scouts 303 277 61 1.11 8% 5% 25-2012 Teachers, Kindergarten (Except Special Ed.) 368 244 55 0.99 13% Insf. Data 25-9031 Instructional Coordinators 275 175 44 1.05 21% 8% 25-3011 Teachers & Instr., Adult/Remedial/GED 252 153 13 1.00 13% 8%	25-1099	Teachers, Postsecondary	1,837	1,043	302	1.20	18%	14% <
25-3097 Teachers & Instructors, All Other 471 360 85 0.82 14% 10% 21-1012 Educ., Guidance, School, & Vocational Counselors 431 306 69 1.07 17% 5% 11-9032 Educ. Administrators, Elem. & Secondary 497 278 81 0.83 23% 5% 27-2022 Coaches & Scouts 303 277 61 1.11 8% 5% 25-2012 Teachers, Kindergarten (Except Special Ed.) 368 244 55 0.99 13% Insf. Data 25-9031 Instructional Coordinators 275 175 44 1.05 21% 8% 25-3011 Teachers & Instr., Adult/Remedial/GED 252 153 13 1.00 13% 8%	25-2011	Teachers, Preschool (Except Special Ed.)	1,052	724	180	0.77	10%	2%
21-1012 Educ., Guidance, School, & Vocational Counselors 431 306 69 1.07 17% 5% 11-9032 Educ. Administrators, Elem. & Secondary 497 278 81 0.83 23% 5% 27-2022 Coaches & Scouts 303 277 61 1.11 8% 5% 25-2012 Teachers, Kindergarten (Except Special Ed.) 368 244 55 0.99 13% Insf. Data 25-9031 Instructional Coordinators 275 175 44 1.05 21% 8% 25-3011 Teachers & Instr., Adult/Remedial/GED 252 153 13 1.00 13% 8%	25-2022	Teachers, Middle School (Exc. Special Ed. & CTE)	1,325	709	211	0.95	17%	3%
11-9032 Educ. Administrators, Elem. & Secondary 497 278 81 0.83 23% ◀ 5% 27-2022 Coaches & Scouts 303 277 61 1.11 8% 5% 25-2012 Teachers, Kindergarten (Except Special Ed.) 368 244 55 0.99 13% Inst. Data 25-9031 Instructional Coordinators 275 175 44 1.05 21% ◀ 8% 25-3011 Teachers & Instr., Adult/Remedial/GED 252 153 13 1.00 13% 8%	25-3097	Teachers & Instructors, All Other	471	360	85	0.82	14%	10%
27-2022 Coaches & Scouts 303 277 61 1.11 8% 5% 25-2012 Teachers, Kindergarten (Except Special Ed.) 368 244 55 0.99 13% Insf. Data 25-9031 Instructional Coordinators 275 175 44 1.05 21% 4 8% 25-3011 Teachers & Instr., Adult/Remedial/GED 252 153 13 1.00 13% 8%	21-1012	Educ., Guidance, School, & Vocational Counselors	431	306	69	1.07	17%	5%
25-2012 Teachers, Kindergarten (Except Special Ed.) 368 244 55 0.99 13% Insf. Data 25-9031 Instructional Coordinators 275 175 44 1.05 21% ◀ 8% 25-3011 Teachers & Instr., Adult/Remedial/GED 252 153 13 1.00 13% 8%	11-9032	Educ. Administrators, Elem. & Secondary	497	278	81	0.83	23%	◆ 5%
25-9031 Instructional Coordinators 275 175 44 1.05 21% 4 8% 25-3011 Teachers & Instr., Adult/Remedial/GED 252 153 13 1.00 13% 8%	27-2022	Coaches & Scouts	303	277	61	1.11	8%	5%
25-3011 Teachers & Instr., Adult/Remedial/GED 252 153 13 1.00 13% 8%	25-2012	Teachers, Kindergarten (Except Special Ed.)	368	244	55	0.99	13%	Insf. Data
	25-9031	Instructional Coordinators	275	175	44	1.05	21%	◀ 8%
25-2054 Special Educ. Teachers, Secondary School 268 144 43 0.92 18% Insf. Data	25-3011	Teachers & Instr., Adult/Remedial/GED	252	153	13	1.00	13%	8%
	25-2054	Special Educ. Teachers, Secondary School	268	144	43	0.92	18%	Insf. Data

continued, next page

FIGURE 13. MONTGOMERY COUNTY DEMAND FACTORS BY CAREER CLUSTER (CONTINUED)

ESTIMATED ANNUAL OPENINGS (THROUGH 2023) WITH ESTIMATE OF NET CHANGE

			DEMAND FACTORS					
SOC CODE	DESCRIPTION	2018 Jobs	Ope (2	jected enings 018- 023)	Net Job Change (2018- 2023)	Wage Premium over US	% 55-64 Years	% 65+ Years
Busines	s Management & Administration							
11-1021	General & Operations Managers	2,841		1,821	576	1.15	17%	4%
43-3031	Bookkeeping, Accounting, & Auditing Clerks	2,244		1,689	359	1.00	23%	■ 11% ■
43-1011	First-Line Supvsr., Office & Admin. Support	1,861		1,291	315	1.03	18%	5%
13-1199	Business Operations Specialists, All Other	1,026		725	222	1.11	19%	6%
13-1111	Management Analysts	1,010		668	204	1.04	24%	■ 13% ■
43-3021	Billing & Posting Clerks	720		578	183	1.01	14%	5%
11-9199	Managers, All Other	1,109		576	167	0.76	25%	◀ 10%
13-1071	Human Resources Specialists	<i>7</i> 81		564	1 <i>57</i>	1.12	14%	3%
13-1028	Buyers & Purchasing Agents	632		393	80	0.94	21%	√ 7%
43-6011	Exec. Secretaries/Admin. Assistants	611		388	48	1.02	23%	⋖ 9%
13-1151	Training & Development Specialists	355		263	77	1.10	17%	4%
13-1041	Compliance Officers	327		206	66	1.14	21%	⋖ 6%
11-3011	Administrative Services Managers	312		203	67	1.05	24%	⋖ 6%
43-3051	Payroll & Timekeeping Clerks	271		193	48	1.03	19%	7%
11-3021	Computer & Info. Systems Managers	296		189	<i>7</i> 1	1.03	16%	Insf. Data
Health	Science							
43-6013	Medical Secretaries	1,903		1,490	385	0.96	17%	6%
29-1141	Registered Nurses	2,588		1,419	691	1.12	17%	4%
31-9092	Medical Assistants	1,048		901	283	0.92	6%	1%
31-1014	Nursing Assistants	1,157		888	196	1.00	13%	4%
29-2052	Pharmacy Technicians	<i>77</i> 8		462	138	1.13	8%	2%
29-2061	Licensed Practical/Vocational Nurses	815		460	150	1.13	16%	4%
31-9091	Dental Assistants	595		446	100	1.04	7%	Insf. Data
11-9111	Medical & Health Services Managers	340		249	102	1.08	19%	5%
29-1051	Pharmacists	488		185	75	1.03	14%	5%
29-2018	Clinical Laboratory Technologists & Techs.	275		158	65	0.95	14%	Insf. Data
29-2071	Medical Records & Health Info. Technicians	232		141	64	1.05	16%	5%
29-1069	Physicians & Surgeons, All Other	331		120	73	0.82	16%	11% <
29-2056	Veterinary Technologists & Technicians	217		119	30	0.86	6%	Insf. Data
	Dental Hygienists	216		118	47	1.08	11%	Insf. Data
	Nurse Practitioners	175		110	62	1.12	15%	Insf. Data

continued, next page

FIGURE 13. MONTGOMERY COUNTY DEMAND FACTORS BY CAREER CLUSTER (CONTINUED)

ESTIMATED ANNUAL OPENINGS (THROUGH 2023) WITH ESTIMATE OF NET CHANGE

			DEMAND FACTORS					
SOC	DESCRIPTION	2018 Jobs	Op (2	ojected enings 2018- 2023)	Net Job Change (2018- 2023)	Wage Premium over US	% 55-64 Years	% 65+ Years
Manufa	cturing							
	Maintenance & Repair Workers, General	1,772		1,185	273	0.91	23%	√ 7%
51-4121	Welders, Cutters, Solderers, & Brazers	1,165		777	131	1.06	14%	3%
51-9061	Inspectors, Testers, Sorters, Samplers, & Weighers	801		533	47	1.07	19%	7%
51-1011	First-Line Supvsr., Production & Operating Workers	704		437	80	1.06	20%	5%
51-4041	Machinists	564		365	67	0.96	21%	⋖ 6%
49-1011	First-Line Supvsr., Mechanics, Install, & Repair	591		353	87	0.98	22%	⋖ 5%
	Production, Planning, & Expediting Clerks	462		332	81	0.98	18%	4%
49-9041	Industrial Machinery Mechanics	500		289	63	1.01	21%	⋖ 5%
51-3021	Butchers & Meat Cutters	293		266	69	0.91	15%	5%
49-9099	Install./Maint./Repair Workers, All Other	267		178	43	0.91	17%	7%
51-9011	Chemical Equipment Workers	257		160	19	1.38	20%	◀ Insf. Data
51-4031	Cutting, Punching, & Press Machine, Metal/Plastic	213		128	7	0.91	19%	5%
51-4011	CNC Machine Operators, Metal/Plastic	204		128	23	1.03	14%	Insf. Data
51-2028	Electrical/Electronic/Electromech. Assemblers, Exc. Co	214		126	-1	0.93	21%	⋖ 6%
49-2011	Computer, ATM, & Office Machine Repairers	185		117	22	0.99	13%	Insf. Data
Science	, Technology, Engineering & Mathematics							
17-2171	Petroleum Engineers	455		218	63	1.08	20%	4%
1 <i>7</i> -2141	Mechanical Engineers	360		202	79	1.12	16%	5%
19-2042	Geoscientists, Except Hydrologists & Geographers	235		152	38	1.35	21%	⋖ 5%
1 <i>7</i> -2112	Industrial Engineers	232		126	45	1.26	19%	5%
11-9041	Architectural & Engineering Mgrs.	191		118	45	1.24	24%	⋖ 6%
1 <i>7</i> -2071	Electrical Engineers	168		105	46	1.01	20%	⋖ 7%
1 <i>7</i> -2199	Engineers, All Other	189		100	35	1.12	20%	11% ◀
1 <i>7</i> -2041	Chemical Engineers	188		94	30	1.24	19%	Insf. Data
19-4099	Life, Physical, & Social Science Techs., All Other	100		72	11	0.90	11%	Insf. Data
17-2072	Electronics Engineers, Except Computer	110		59	21	1.10	20%	◀ Insf. Data
19-2031	Chemists	97		58	12	0.95	15%	Insf. Data
19-2041	Environmental Scientists & Specialists, Incl. Health	70		53	1 <i>7</i>	1.14	20%	◀ Insf. Data
1 <i>7</i> -2011	Aerospace Engineers	101		52	20	1.22	20%	Insf. Data
1 <i>7</i> -2111	Health & Safety Eng., Except Mine Safety	74		40	14	1.02	20%	◀ Insf. Data
1 <i>7</i> -2131	Materials Engineers	41		20	5	0.98	Insf. Do	atcInsf. Data

Source: Emsi 2019.1—QCEW Employees, Non-QCEW Employees, and Self-Employed.

Note: Highlights represent the following in each column. Wage premium = 10% or higher than US wages; %55-64 > 20%; %65+ >10%.

SUPPLY OF WORKERS

The Montgomery County labor force is more than 275,000. Over the past 5 years, the labor force has grown, on average, 2 percent per year while annual job growth has grown almost 4 percent per year.

The county's unemployment rate was consistently below the unemployment rate of the state and the Houston MSA from 2007 to 2015. From 2016 to 2018, the county's unemployment rate closely tracked the state's rate. In August 2019, **the unemployment rate was 3.5 percent** after a brief dip below 3 percent in April and May of 2019. With unemployment below 4 percent, the Montgomery County economy is considered to be at full employment.

Just over 10,000 residents in Montgomery County are unemployed. The occupational categories with the largest number of unemployed are construction & extraction; office & administrative support, management; sales & related; and production.

The top occupational categories that employed Montgomery County residents work in are office & administrative support, sales & related, food preparation, construction & extraction, and transportation & material moving. In most occupational categories, the number of employed residents who work in those occupations is greater than the number of jobs in that occupation in the county. This indicates a likely outflow of resident workers to jobs in another county. The occupational categories with the largest potential surplus of resident workers are transportation & material moving; office & administrative support; production; construction & extraction; and installation, maintenance, & repair. The specific occupations with the largest potential surplus of resident workers are tractor trailer truck drivers; laborers & material movers; office clerks; registered nurses; and customer service representatives.

The rate of youth disconnection, which is the percent of 16 to 24-year-olds not working and not in school, is nearly 15 percent in Montgomery County. This is 27 percent higher than the US average.

In Montgomery County, **4.4** percent of the workers worked full-time in the last **12** months and earned below the poverty level. This rate is 22 percent higher than the US average.

The number of **graduates from Lone Star College-Montgomery (LSC-M) grew by 44 percent** between 2014 and 2017, largely due to an increase in the number of graduates earning associate's degrees. The largest number of students are earning an associate's degree in liberal arts and sciences, which is a common transfer degree. Aside from liberal arts, the next most popular fields of study are registered nursing; industrial technology; welding technology; heating, ventilation, and air conditioning (HVAC) maintenance; and general business. The most popular career clusters are health science, manufacturing, business, law and public safety, and architecture and construction.

A comparison of **middle skill openings and completions by career cluster shows that the two are fairly well-aligned.** The gaps that do exist in areas such as construction, manufacturing, marketing, and hospitality, are primarily because the occupations do not require for-credit training; instead, they might require on-the-job training or apprenticeships or non-credit training. However, in areas such as health science, business, information technology, there are a similar number of completions and openings.

Between Conroe and Willis ISDs, there are **more than 4,000 high school graduates**. Many of these graduates are staying in the area to attend LSC-M. Texas A&M University and Sam Houston State University are

also top destinations for high school graduates. **About 1,600 graduates are going into the workforce;** top industries they are working in are retail and hospitality.

A wide range of career and technical education programs are offered at the Conroe and Willis ISD high schools. **About one in four students are enrolled in CTE.**

Lone Star College also offers a wide range of non-credit programs that support workforce training. Energy, manufacturing, and construction programs are offered at the Conroe and Montgomery campuses. At LSC-M, arts, humanities, communication & design; business & professional services; computer/digital technology; health sciences; and public safety & human/consumer services are also offered.

There were **20 different registered apprenticeship programs** identified. Most of the apprenticeship programs support occupations in construction and manufacturing. However, there are two information technology–related programs. Of the 20 programs, however, **more than half have no apprentices.**

FIGURE 14. LABOR MARKET OVERVIEW, 2018

IN THOUSANDS

GEOGRAPHY	CIVILIAN LABOR FORCE	EMPLOYMENT	UNEMPLOYMENT	UNEMPLOYMENT RATE
Montgomery County	275.2	264.8	10.3	3.8%
Houston MSA	3,391	3,245	146	4.3%
Texas	13,848	13,314	534	3.9%
US	162,075	155,761	6,314	3.9%

FIGURE 15. MONTGOMERY COUNTY CIVILIAN LABOR FORCE

FIGURE 16. MONTGOMERY COUNTY UNEMPLOYMENT

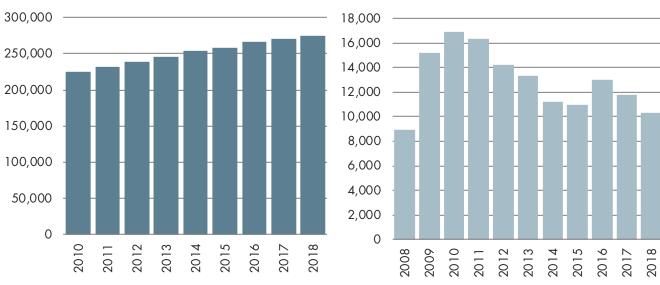
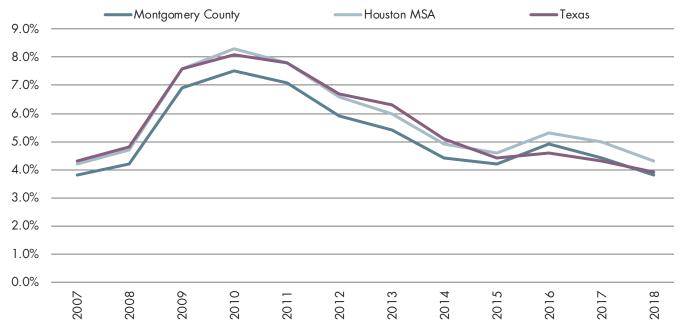


FIGURE 17. UNEMPLOYMENT RATES



Sources: (figures this page) US Bureau of Labor Statistics, Current Population Survey (national figures), and Local Area Unemployment Statistics (state and local).

FIGURE 18. UNEMPLOYMENT BY OCCUPATIONAL CATEGORY, 2019

MONTGOMERY COUNTY

SOC	DESCRIPTION	2019 UNEMPLOYMENT
47-0000	Construction & Extraction Occupations	1,504
43-0000	Office & Administrative Support Occupations	1,094
11-0000	Management Occupations	1,040
41-0000	Sales & Related Occupations	914
51-0000	Production Occupations	683
13-0000	Business & Financial Operations Occupations	600
53-0000	Transportation & Material Moving Occupations	527
49-0000	Installation, Maintenance, & Repair Occupations	504
35-0000	Food Preparation & Serving Related Occupations	424
31-0000	Healthcare Support Occupations	335
15-0000	Computer & Mathematical Occupations	213
37-0000	Building & Grounds Cleaning & Maintenance Occupations	198
25-0000	Education, Training, & Library Occupations	174
29-0000	Healthcare Practitioners & Technical Occupations	156
17-0000	Architecture & Engineering Occupations	137
39-0000	Personal Care & Service Occupations	123
33-0000	Protective Service Occupations	85
27-0000	Arts, Design, Entertainment, Sports, & Media Occupations	83
21-0000	Community & Social Service Occupations	73
23-0000	Legal Occupations	49
19-0000	Life, Physical, & Social Science Occupations	20
45-0000	Farming, Fishing, & Forestry Occupations	17

Source: Emsi 2019.3—QCEW Employees, Non-QCEW Employees, and Self-Employed.

FIGURE 19. RESIDENT WORKERS VS. JOBS, 2018

BY MAJOR OCCUPATIONAL CATEGORY, MONTGOMERY COUNTY

SOC	DESCRIPTION	2018 JOBS	2018 RESIDENT WORKERS	DIFFERENCE*	
53-0000	Transportation & Material Moving Occupations	11,764	18,152	-6,388	
43-0000	Office & Administrative Support Occupations	31,452	37,802	-6,350	
51-0000	Production Occupations	9,983	14,772	-4,789	
47-0000	Construction & Extraction Occupations	15,786	19,208	-3,422	
49-0000	Installation, Maintenance, & Repair Occupations	8,371	11,674	-3,303	
41-0000	Sales & Related Occupations	24,550	27,093	-2,543	
11-0000	Management Occupations	11,095	13,460	-2,365	
13-0000	Business & Financial Operations Occupations	10,599	12,778	-2,179	
17-0000	Architecture & Engineering Occupations	3,806	5,944	-2,138	
29-0000	Healthcare Practitioners & Technical Occupations	10,929	12,968	-2,039	
15-0000	Computer & Mathematical Occupations	4,444	5,977	-1,533	
35-0000	Food Preparation & Serving Related Occupations	21,475	22,989	-1,514	
33-0000	Protective Service Occupations	4,111	5,370	-1,259	
39-0000	Personal Care & Service Occupations	7,521	8,496	-975	
19-0000	Life, Physical, & Social Science Occupations	1,372	2,138	-766	
37-0000	Building & Grounds Cleaning & Maint. Occupations	8,183	8,939	-756	
31-0000	Healthcare Support Occupations	4,304	4,955	-651	
25-0000	Education, Training, & Library Occupations	16,054	16,675	-621	
23-0000	Legal Occupations	1,253	1,849	-596	
27-0000	Arts, Design, Entertain., Sports, & Media Occupations	3,280	3,816	-536	
21-0000	Community & Social Service Occupations	2,882	3,074	-192	
45-0000	Farming, Fishing, & Forestry Occupations	395	444	-49	

^{*}Difference = Resident Workers – Jobs.

Source: Emsi 2019.3-QCEW Employees, Non-QCEW Employees, and Self-Employed.

FIGURE 20. TOP 25 OCCUPATIONS, 2018

GREATEST DIFFERENCE BETWEEN RESIDENT WORKERS AND JOBS, MONTGOMERY COUNTY

soc	DESCRIPTION	2018 JOBS	2018 RESIDENT WORKERS	DIFFERENCE*
53-3032	Heavy & Tractor-Trailer Truck Drivers	2,238	3,658	-1,420
53-7062	Laborers & Freight, Stock, & Material Movers, Hand	2,485	3,808	-1,323
43-9061	Office Clerks, General	5,144	6,253	-1,109
29-1141	Registered Nurses	2,755	3,700	-945
43-4051	Customer Service Representatives	3,459	4,380	-921
41-4012	Sales Reps., Wholesale & Mfg., Except Tech. & Scientific Products	1,731	2,556	-825
11-1021	General & Operations Managers	3,260	4,064	-804
35-3021	Combined Food Preparation & Serving Workers, Including Fast Food	6,892	7,497	-605
39-9021	Personal Care Aides	1,827	2,402	-575
33-9032	Security Guards	1,015	1,575	-560
43-6014	Secretaries & Admin. Assistants, Except Legal, Medical, & Executive	3,327	3,878	-551
41-3099	Sales Representatives, Services, All Other	1,794	2,340	-546
53-7051	Industrial Truck & Tractor Operators	828	1,319	-491
43-4181	Reservation & Transportation Ticket Agents & Travel Clerks	72	546	-474
49-9071	Maintenance & Repair Workers, General	1,810	2,279	-469
51-2098	Assemblers & Fabricators, All Other, Including Team Assemblers	787	1,217	-430
37-2011	Janitors & Cleaners, Except Maids & Housekeeping Cleaners	3,103	3,520	-417
51-4121	Welders, Cutters, Solderers, & Brazers	1,206	1,623	-417
13-1199	Business Operations Specialists, All Other	1,216	1,625	-409
51-9061	Inspectors, Testers, Sorters, Samplers, & Weighers	856	1,250	-394
43-3031	Bookkeeping, Accounting, & Auditing Clerks	2,488	2,879	-391
47-2111	Electricians	1,251	1,641	-390
53-3033	Light Truck or Delivery Services Drivers	948	1,334	-386
43-1011	First-Line Supervisors of Office & Administrative Support Workers	1,901	2,259	-358
43-5071	Shipping, Receiving, & Traffic Clerks	818	1,173	-355

^{*}Difference = Resident Workers – Jobs.

Source: Emsi 2019.3—QCEW Employees, Non-QCEW Employees, and Self-Employed.

FIGURE 21. YOUTH DISCONNECTION, 2017
PERCENT OF YOUTH AGES 16 TO 24 NOT IN
SCHOOL AND NOT WORKING

FIGURE 22. WORKING POOR

PERCENT WORKING FULL-TIME AND EARNING BELOW THE POVERTY LEVEL

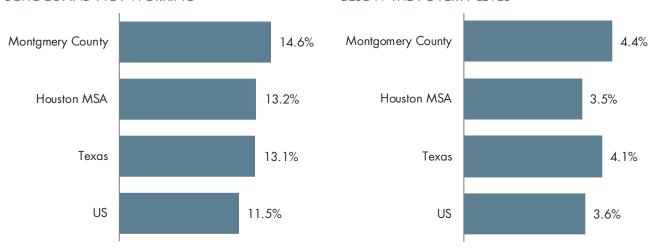
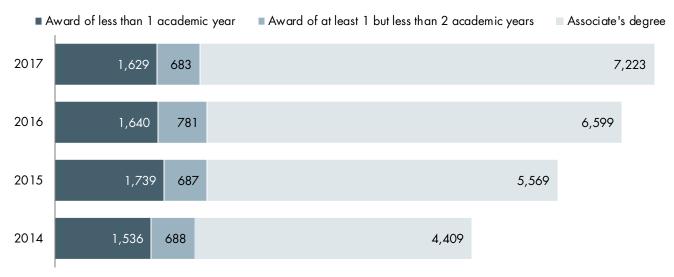


FIGURE 23. COMPLETIONS BY AWARD LEVEL, 2014-2017

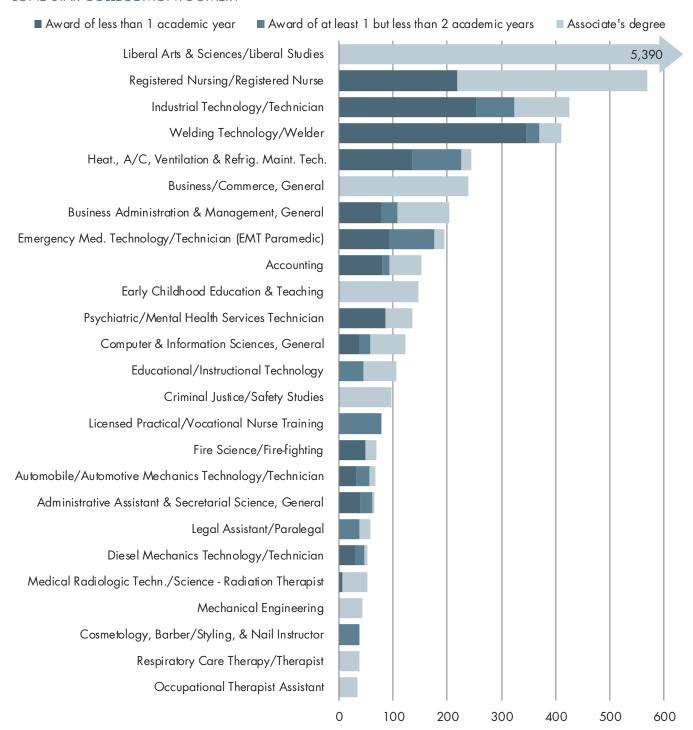
LONE STAR COLLEGE-MONTGOMERY



Sources: (Figure 21) Measure of America, Social Science Research Council; (Figure 22) 5-Year American Community Survey, 2017; (Figure 23) NCES, IPEDS.

FIGURE 24. TOP 25 FIELDS OF STUDY, 2017

LONE STAR COLLEGE-MONTGOMERY



Source: NCES, IPEDS.

FIGURE 25. COMPLETIONS BY AWARD LEVEL, 2017

LONE STAR COLLEGE-MONTGOMERY

CAREER CLUSTER	TOTAL APLETIONS	AWARD OF	AWARD OF AT LEAST 1 BUT <2 YRS.	ASSOCIATE'S DEGREE
Health Science	1,115	346	140	629
Manufacturing	838	599	94	145
Business Management & Administration	508	118	52	338
Law, Public Safety, Corrections & Security	419	141	120	158
Architecture & Construction	278	146	99	33
Education & Training*	270	8	46	216
Finance	152	80	14	58
Transportation, Distribution & Logistics	149	<i>7</i> 9	40	30
Information Technology	144	39	21	84
Human Services	92	47	38	7
Science, Technology, Engineering & Mathematics	82	17	3	62
Agriculture, Food & Natural Resources	50	5	11	34
Arts, Audio/Video Technology & Communications	48	4	5	39

FIGURE 26. DEMAND-SUPPLY COMPARISON

CAREER CLUSTER	MIDDLE SKILL ANNUAL OPENINGS	201 <i>7</i> COMPLETIONS
Architecture & Construction	1,853	278
Manufacturing	1,661	838
Health Science	1,177	1,115
Marketing	1,148	-
Hospitality & Tourism	887	-
Transportation, Distribution & Logistics	853	149
Business Management & Administration	809	508
Finance	441	152
Education & Training*	440	270
Law, Public Safety, Corrections & Security	318	419
Human Services	253	92
Arts, Audio/Video Technology & Communications	196	48
Agriculture, Food & Natural Resources	139	50
Information Technology	138	144
Government & Public Administration	50	0
Science, Technology, Engineering & Mathematics	14	82

^{*}Excludes liberal arts. Source: NCES, IPEDS.

FIGURE 27. SCHOOL DISTRICT SUMMARY

	CONROE ISD	WILLIS ISD
High School Graduates	3,791	425
CTE Participants	24.70%	30.10%
Enrolled in a Texas Public College	42.60%	40.00%
Top Public Colleges	•Lone Star College-Montgomery	•Lone Star College-Montgomery
	●Texas A&M University	•Sam Houston State University
	•Sam Houston State University	●Texas A&M University
	•The University of Texas at Austin	•Texas State University
	•University of Houston	Blinn College
High School Graduates Earning a Degree	5.4% Public 2 Yr.	5.4% Public 2 Yr.
within 6 Years	23.2% Public 4 Yr.	14.9% Public 4 Yr.
Employed Only after Graduation	19.40%	29.90%
Employed and Enrolled	17.80%	23.10%
Top Industries of Employment	•Retail	•Retail
	•Accommodations & Food Svcs.	•Accommodations & Food Svcs.
	Arts, Entertainment, Recreation	•Arts, Entertainment, Recreation
	•Admin, & Support	•Construction
	Healthcare	Healthcare

Source: TPEIR.

FIGURE 28. CAREER AND TECHNICAL EDUCATION SUMMARY

CAREER CLUSTER	CANEY CREEK HIGH SCHOOL	CONROE HIGH SCHOOL	GRAND OAKS HIGH SCHOOL	HAUKE ALT. HIGH SCHOOL	JUVENILE JUSTICE ALT. ED.	OAK RIDGE HIGH SCHOOL	THE WOODLANDS COLLEGE PARK HS	THE WOODLANDS HIGH SCHOOL	WILLIS HIGH SCHOOL
Agriculture, Food & Natural Resources	•	•	•			•	•	•	•
Architecture & Construction	•	•				•	•	•	•
Arts, A/V Technology & Comm.	•	•	•	•		•	•	•	•
Business, Management & Admin.	•	•	•	•		•	•	•	•
Education & Training	•	•	•			•	•	•	•
Finance									
Government & Public Administration									
Health Science	•	•	•	•		•	•	•	•
Hospitality & Tourism	•	•	•	•	•	•	•	•	•
Human Services	•	•	•	•		•	•	•	•
Information Technology								•	•
Law, Public Safety, Corrections & Sec.	•	•		•	•	•	•	•	•
Manufacturing	•	•		•		•		•	•
Marketing, Sales & Service								•	
STEM	•	•	•			•	•	•	•
Transportation, Distribution & Logistics	•	•		•		•	•	•	•

FIGURE 29. NON-DEGREE PROGRAM SUMMARY

CAREER CLUSTER	LSC - CONROE	LSC-M
Energy, Manufacturing & Construction	•	•
Arts, Humanities, Communication & Design		•
Business & Professional Services		•
Computer/Digital Technology		•
Health Sciences		•
Public Safety & Human/Consumer Services		•

Sources: (Figure 28) Conroe ISD, Willis ISD; (Figure 29) Lone Star College-Montgomery.

FIGURE 30. APPRENTICESHIP PROGRAMS

PROGRAM SPONSOR	OCCUPATION TITLE	TOTAL APPRENTICE COUNT
ICOTEX, Industrial Components of Texas LLC	Inspector, Precision	0
ICOTEX, Industrial Components of Texas LLC	Welder, Combination	0
ICOTEX, Industrial Components of Texas LLC	Numerical Control Machinist	2
Hughes Christensen	Machine Repairer, Maintenance	6
Hughes Christensen	Tool Maker	1
Hughes Christensen	Tool Grinder Operator	0
Epic Software Group, Inc.	IT Project Manager	1
Proficient Electric Apprenticeship Program	Electrician (Alternate Title: Interior Electrician)	0
Ivey Mechanical Company	Pipe Fitter (Construction)	0
Ivey Mechanical Company	Plumber	0
Ivey Mechanical Company	Sheet Metal Worker	0
Supra America Machined Parts, LLC	Quality Control Technician	1
Supra America Machined Parts, LLC	CNC Operator and Programmer	3
Lone Star College System	Oil Field Equip. Mechanic	0
Lone Star College System	Numerical Control Machinist	0
Lone Star College System	Mechatronics Technician	1
Lone Star College System	Cybersecurity Support Technician	0
Bay Institute of Science and Engineering	Machinist (Alternate Title: Precision Machinist)	0
Bay Institute of Science and Engineering	Mold Maker, Die-Cast & Plaster	0
Bay Institute of Science and Engineering	Tool and Die Maker	0

Source: US DOLETA.

GAPS AND OPPORTUNITIES

Through an examination of the available data related to the demand for and supply of labor and through input from committee members and employers, the following emerged as key gaps and/or opportunities.

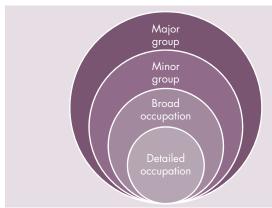
- An **experience gap** resulting from the recession exacerbates risk related to retirement exposure. How can the transfer of knowledge be formalized to capture the experience of retiring workers? How can young talent be developed more quickly to fill the void left by retirees? Creating programs to address this gap would be greatly beneficial to employers facing a high degree of retirement exposure and an experience gap.
- The competition from the oil & gas sector makes recruiting for some positions more difficult. Growing
 the supply of workers in these occupations and building in connection points between the new supply of
 workers and employers could help alleviate the competition.
- There are pockets of underutilized talent, including disconnected youth, underemployed, unemployed, and the working poor. These groups could be targeted with outreach and services to connect them with upskilling and reskilling opportunities to move them into better career pathways.
- A key element of demand-driven workforce strategy is industry engagement and involvement. Industry
 participants are willing partners and eager to get involved, but sometimes knowing who to contact and where is
 difficult. Facilitating these connections could greatly increase the participation of industry in the workforce
 system and programs.
- The curricula of workforce development programs (both LSC-M and CTE) could be refined and strengthened with active industry participation and input.
- Creating a connection point or platform between high school graduates and local industry
 could enable employers to tap into this source of talent and would allow high school graduates to stay in the
 local area to pursue a career.
- The **underutilization of apprenticeship programs** shows there is work to be done to raise awareness of this opportunity to learn and earn.
- The choice of career and technical education and postsecondary field of study is often driven by the students' interest or guidance from friends and family. Often the choices are not well-informed by labor market or career information. Designing programs to get more students into high-demand occupations and the related fields of study is another way to improve the alignment of the talent pipeline and industry needs.
- The area has many different programs and initiatives related to workforce development. Increasing the
 coordination of these programs and the collaboration among the different organizations
 involved can improve program outcomes.

DATA AND METHODOLOGY

CLASSIFICATION SYSTEMS

Much of the analysis presented in this report relies on three separate classification systems. An overview of each follows. The **Standard Occupational Classification (SOC)** system is used by federal statistical agencies to classify workers into categories for the purpose of collecting, calculating, or disseminating data. This system groups all occupations in which work is performed for pay or profit according to the type of work performed and, in some cases, on the skills, education, or training needed to perform the work at a competent level. Under the 2018 SOC system, which was finalized in late November 2017, workers are classified into one of 867 detailed occupations, which are combined to form 459 broad occupations, 98 minor groups, and 23 major groups. Federal agencies began implementing the newly updated SOC system in 2018.

STANDARD OCCUPATIONAL CLASSIFICATION (SOC) SYSTEM STRUCTURE AND EXAMPLE

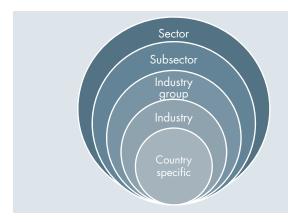


EXAMPLE: Major group 51-0000 Production Occupations

- Minor group 51-2000 Assemblers and Fabricators
 - Broad occupation 51-2090 Miscellaneous Assemblers and Fabricators
 - Detailed occupation 51-2092 Team Assemblers

The North American Industry Classification System (NAICS, pronounced nakes) was developed under the direction and guidance of the Office of Management and Budget (OMB) as the standard for use by federal statistical agencies in classifying business establishments for the collection, tabulation, presentation, and analysis of statistical data describing the US economy. The classification system was developed jointly with government agencies in Canada and Mexico to allow for a high level of comparability in business statistics among the North American countries. NAICS classifies industries into 20 sectors based on production processes. These sectors are broken into subsectors, industry groups, and individual industries, with an additional level of detail to accommodate industry codes specific to the three countries. The most recent version, 2017 NAICS, was finalized in 2016 and will continue to be implemented by agencies over the next several years.

NORTH AMERICAN INDUSTRY CLASSIFICATION SYSTEM (NAICS) STRUCTURE AND EXAMPLE



EXAMPLE: Sector 31-33 Manufacturing

- **Subsector 336** Transportation Equipment Manufacturing
 - Industry group 3361 Motor Vehicle Manufacturing
 - Industry 33611 Automobile and Light Duty Motor Vehicle Manufacturing
 - Country-specific 336111 Automobile Manufacturing

The **Classification of Instructional Programs (CIP)** is the accepted federal government statistical standard on instructional program classifications. Developed in 1980 by the National Center for Education Statistics (NCES), the CIP is used by state agencies, national associations, academic institutions, and employment counseling services for collecting, reporting, and analyzing instructional program data. The 2010 CIP is the current version of this classification system.

The CIP titles and program descriptions are intended to be generic categories into which program completion data can be placed and are not exact duplicates of specific majors or field of study titles used by individual institutions. The vast majority of CIP titles correspond to academic and occupational instructional programs offered for credit at the postsecondary level. These programs result in recognized completion points and awards, including degrees, certificates, and other formal awards. The CIP also includes other types of instructional programs, such as residency programs in various dental, medical, podiatry, and veterinary specialties that might lead to advanced professional certification, personal improvement and leisure programs, and instructional programs that lead to diplomas and certificates at the secondary level only.

DATA SOURCES

EMPLOYMENT

The industry and occupational data presented in this report were prepared using Emsi's foundational dataset, which integrates economic, labor market, demographic, and education data from over 90 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.

For a complete list of Emsi US data sources, see: www.economicmodeling.com/data-sources.

The company's core data consists of jobs (historical and projected) and earnings (current year) by industry and occupation for every ZIP Code, metropolitan statistical area, and county in the United States. Emsi data are annual averages of jobs (not workers); full-time and part-time jobs are counted equally. There are three classes of workers that are included in the core dataset.

- QCEW Employees: A form of the US Bureau of Labor Statistics Quarterly Census of Employment and Wages
 (BLS QCEW) dataset that has been modified slightly by Emsi. Suppressions have been removed, public sector
 employment has been reorganized, and county and NAICS changes have been modified in past years for
 consistency. This dataset is designed to match QCEW in almost all cases and should be used in analyses where
 it is important to match official sources.
- Non-QCEW Employees: Attempts to cover jobs that fall under an employer-employee relationship but are not
 covered by QCEW. The major types of employment covered in this set include military jobs, railroad jobs,
 many nonprofit and religious workers, certain salespersons, miscellaneous federal government, and some other
 government workers.
- Self-Employed: Covers people who, when responding to US Census Bureau surveys, consider self-employment
 to be a significant part of their income or time spent working. Most people normally considered "self-employed"
 would fall into this dataset.

With occupational data, beginning with its 2017.3 data run, Emsi uses the new BLS "occupational separations" methodology in its calculation of replacements and therefore openings. The BLS updated its methodology for

calculating replacements because the old methodology (known as the "replacements" methodology) significantly undercounted the number of workers leaving occupations. This resulted in an artificially low number of replacements and openings. The BLS new methodology corrects the problem and provides a better estimate of true replacement needs. See kb.economicmodeling.com/how-does-emsi-calculate-job-openings.

REAL-TIME LABOR MARKET INFORMATION/JOB POSTING ANALYTICS

Gartner's TalentNeuron is an online talent market intelligence portal with real-time labor market insights, including custom role analytics and executive-ready dashboards and presentations. Supply-and-demand data is gathered by location, occupation, skill set, which competitors are hiring, and what roles are being posted most often. This data aggregates more than three million weekly job ads collected by TalentNeuron from over 25,000 websites (excludes staffing agencies and anonymous employers).

EDUCATION AND TRAINING

Under the Higher Education Act of 1965, every college, university, and vocational or technical institution that participates in federal financial student aid programs, such as Pell Grants or federally backed student loans, is required to report annually to the US Department of Education on a range of indicators. Data are collected through a system of interrelated surveys and are made available through the Integrated Postsecondary Education Data System (IPEDS).

Each fall, institutions report on the number of awards conferred for credit by field of study, by award level, and by the gender and race or ethnicity of the recipient. These data are referred to as "completions." Data on completions for the most recent academic year available was downloaded from IPEDS for all schools in the region that participate in IPEDS surveys, except for schools in which training was limited to cosmetology.