JOBS**eQ**

Industry Spotlight

Information Technology

Polk County, Florida

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Spotlight Summary

Information Technology
Polk County, Florida – 2022Q4

EMPLOYMENT

2002   2022
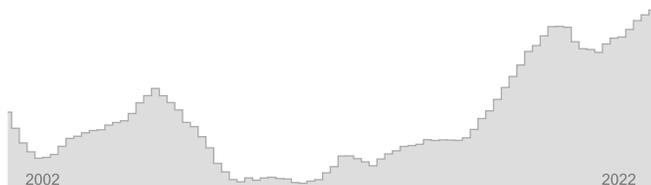
2,922

Regional employment / **6,468,723** in the nation

2.6% ⬆

Avg Ann % Change Last 10 Years / **+2.7%** in the U.S.

Region	
Nation	

1.1%

% of Total Employment / **4.0%** in the U.S.

Region	
Nation	

WAGES

2002   2022
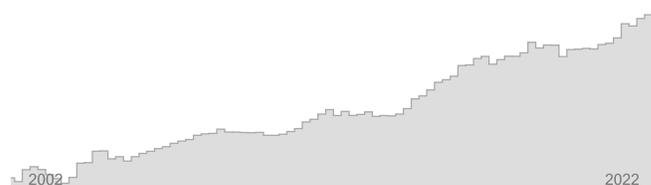
$59,001

Avg Wages per Worker / **$139,738** in the nation

2.7% ⬆

Avg Ann % Change Last 10 Years / **+4.8%** in the U.S.

Region	
Nation	

TOP OCCUPATION GROUPS

Computer and Mathematical
26.3%

Office and Administrative Support
9.4%

Business and Financial Operations
8.5%

All Others
20.5%
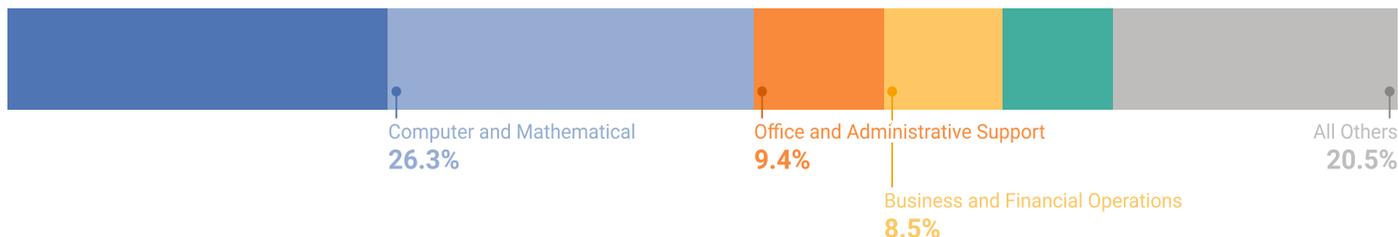
TOP INDUSTRIES

Avg Ann % Change in Employment, Last 10 Years

3.9 % ⬆

Region	
Nation	

Independent Artists, Writers, and Performers

5.7 % ⬆

Region	
Nation	

Custom Computer Programming Services

5.7 % ⬆

Region	
Nation	

Electronic and Precision Equipment Repair and Maintenance

JOBS EQ

Industry Snapshot

EMPLOYMENT

2002   2022

WAGES

2002   2022
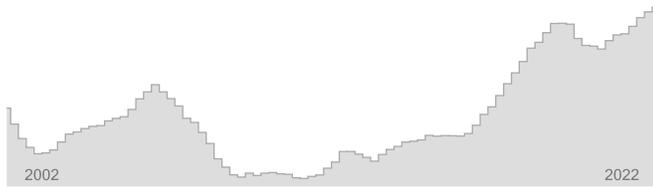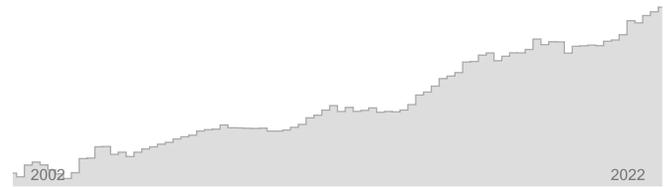
6-Digit Industry	Empl	Avg Ann Wages	LQ	5yr History	Annual Demand	Forecast Ann Growth
Independent Artists, Writers, and Performers	576	$30,640	0.90		75	2.7%
Custom Computer Programming Services	469	$89,945	0.24		52	3.1%
Electronic and Precision Equipment Repair and Maintenance	269	$54,524	1.34		33	1.9%
Software Publishers	229	$101,078	0.21		24	2.3%
Computer Systems Design Services	218	$80,459	0.11		24	2.9%
Graphic Design Services	217	$43,723	1.29		25	1.9%
Newspaper Publishers	215	$29,197	1.17		22	-0.5%
Computing Infrastructure Providers, Data Processing, Web Hosting, and Related Services	140	$57,636	0.17		16	2.8%
Commercial and Service Industry Machinery Manufacturing	58	$60,833	0.37		7	1.3%
Motion Picture and Video Production	58	$44,850	0.11		8	3.0%
Remaining Component Industries	476	$46,759	0.26		50	1.7%
Information Technology	**2,922**	**$59,001**	**0.26**		**342**	**2.3%**

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

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

Staffing Pattern

Computer and Mathematical
26.3%

Office and Administrative Support
9.4%

All Others
20.5%

Business and Financial Operations
8.5%
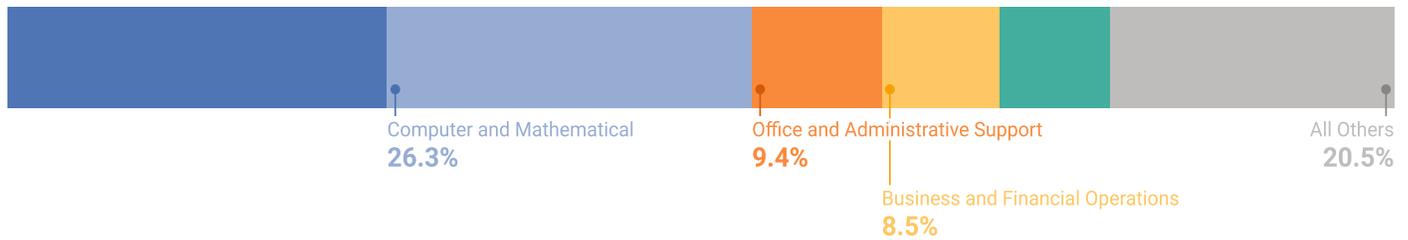
| 6-digit Occupation	Empl	Avg Ann Wages	Annual Demand
Software Developers	374	$101,900	39
Writers and Authors	160	$61,900	21
Sales Representatives of Services, Except Advertising, Insurance, Financial Services, and Travel	84	$70,100	12
Computer User Support Specialists	83	$49,000	9
General and Operations Managers	76	$112,700	9
Customer Service Representatives	67	$38,200	11
Graphic Designers	62	$51,400	7
Producers and Directors	61	$73,700	9
Special Effects Artists and Animators	57	$51,900	8
Office Clerks, General	55	$35,000	8
Remaining Component Occupations	1,810	$61,600	224
Total	**2,888**		

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

Employment Distribution by Type

The table below shows the employment mix by ownership type for Information Technology for Polk County, Florida. Four of these ownership types — federal, state, and local government and the private sector — together constitute "Covered Employment" (employment covered by the Unemployment Insurance programs of the United States and reported via the Quarterly Census of Employment and Wages).

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

	72.3%	27.7%

|	Empl	%
Private	2,113	72.3%
Self-Employment	810	27.7%
Other Non-Covered	0	0.0%

Source: JobsEQ®

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

Establishments

In 2021, there were 423 Information Technology establishments in Polk County, Florida (per covered employment establishment counts), an increase from 250 establishments ten years earlier in 2011.

| Year	Establishments
2011	250
2012	257
2013	258
2014	256
2015	246
2016	247
2017	266
2018	284
2019	312
2020	346
2021	423

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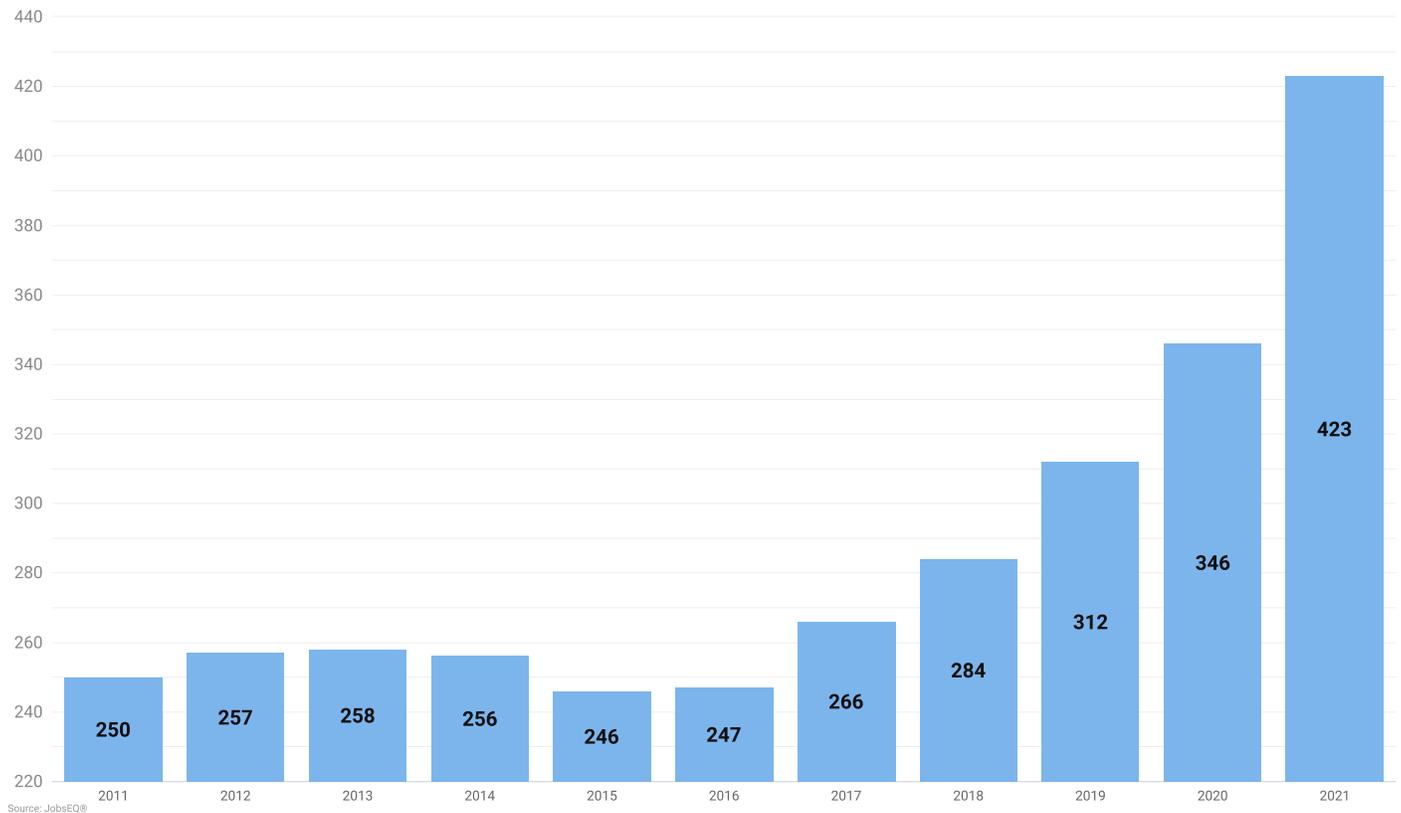
New business formations are an important source of job creation in a regional economy, spurring innovation and competition, and driving productivity growth. Establishment data can provide an indicator of growth in businesses by counting each single location (such as a factory or a store) where business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

GDP & Productivity

In 2021, Information Technology produced $0.3 billion in GDP for Polk County, Florida.

GDP: Indexed 2011 = 100

Legend: ■ Polk County, Florida GDP   ■ U.S. GDP
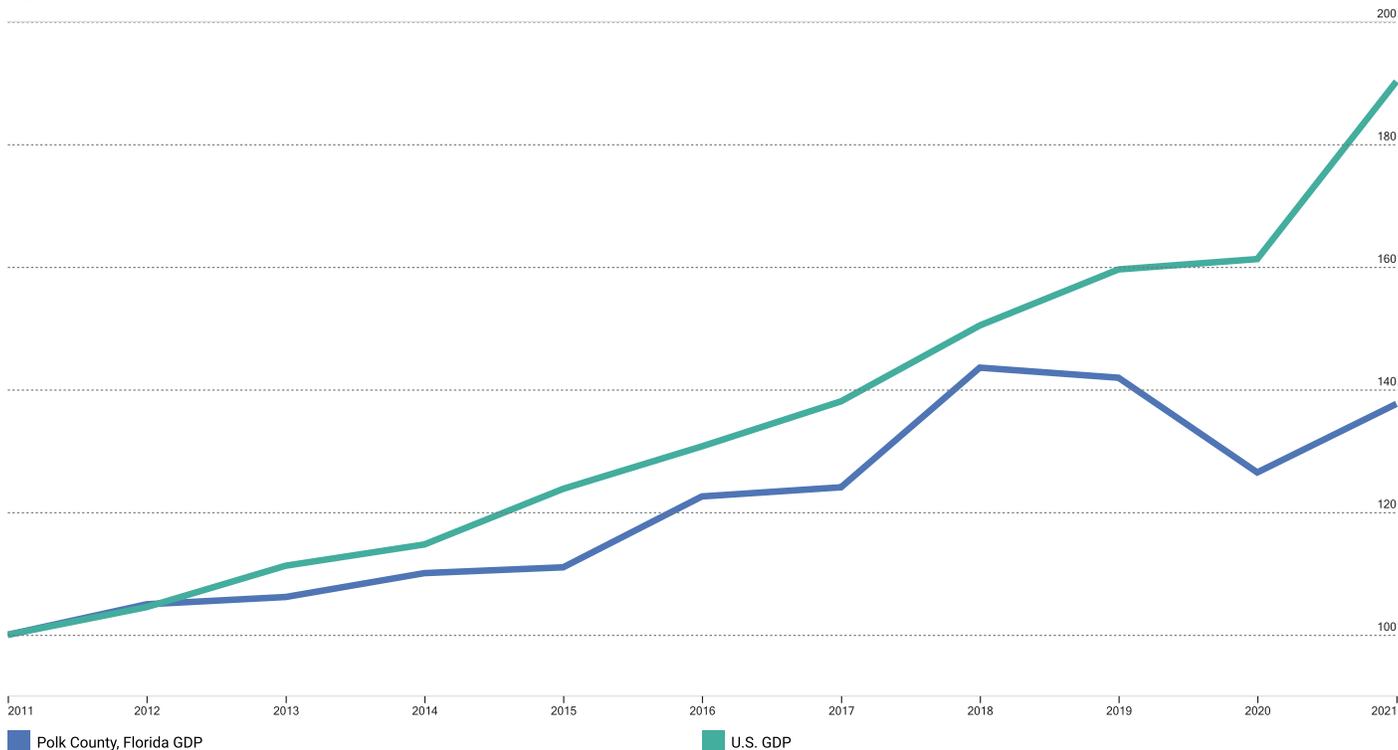
1.2 %

Industry Share of Total GDP /
8.0 % in the nation

Region	
Nation	

3.2 % ⬆

Avg Ann % Change Last 10 Yrs /
6.6 % in the nation

Region	
Nation	

$379k

Output per Worker /
$578k in the nation

Region	
Nation	

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

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

Supply Chain: Top Suppliers

As of 2022Q4, Information Technology in Polk County, Florida are estimated to make $338.6 million in annual purchases from suppliers in the United States with about 54% or $183.2 million of these purchases being made from businesses located in Polk County, Florida.

6-digit Supplier Industries	Purchases from In-Region ($M)	Purchases from Out-of-Region ($M)
Promoters of Performing Arts, Sports, and Similar Events with Facilities	$2.9	$16.0
Corporate, Subsidiary, and Regional Managing Offices	$15.3	<$0.1
Temporary Help Services	$11.5	$0.9
Offices of Lawyers	$6.8	$4.9
Wired Telecommunications Carriers	$7.4	$2.4
Remaining Supplier Industries	$139.4	$131.2
Total	$183.2	$155.3

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

Sector Strategy Pathways

First-Line Supervisors of Office and Administrative Support Workers

First-Line Supervisors of Transportation and Material Moving Workers, Except Aircraft Cargo Handling Supervisors

General and Operations Managers

First-Line Supervisors of Mechanics, Installers, and Repairers

Construction Managers

Food Service Managers

Computer, Automated Teller, and Office Machine Repairers

Audio and Video Technicians

Computer User Support Specialists

Audiovisual Equipment Installers and Repairers

Prepress Technicians and Workers

Desktop Publishers

Insurance Sales Agents

Public Relations Specialists

Writers and Authors

Meeting, Convention, and Event Planners

Advertising Sales Agents

Interpreters and Translators

The graphics on this page illustrate relationships and potential movement (from left to right) between occupations that share similar skill sets. Developing career pathways as a strategy promotes industry employment growth and workforce engagement.

Postsecondary Programs Linked to Information Technology

| Program	Awards
Florida Polytechnic University	
Computer Engineering, General	39
Computer Science	65
Florida Southern College	
Film/Cinema/Media Studies	12
Fine/Studio Arts, General	9
Musical Theatre	15
Technical Theatre/Theatre Design and Technology	7
Southeastern University	
Communication, General	25
Digital Communication and Media/Multimedia	31
Graphic Design	16
Mass Communication/Media Studies	12

Source: JobsEQ®

The number of graduates from postsecondary programs in the region identifies the pipeline of future workers as well as the training capacity to support industry demand.

Among postsecondary programs at schools located in Polk County, Florida, the sampling above identifies those most linked to occupations relevant to Information Technology. For a complete list see JobsEQ®, http://www.chmuraecon.com/jobseq

Polk County, Florida Regional Map
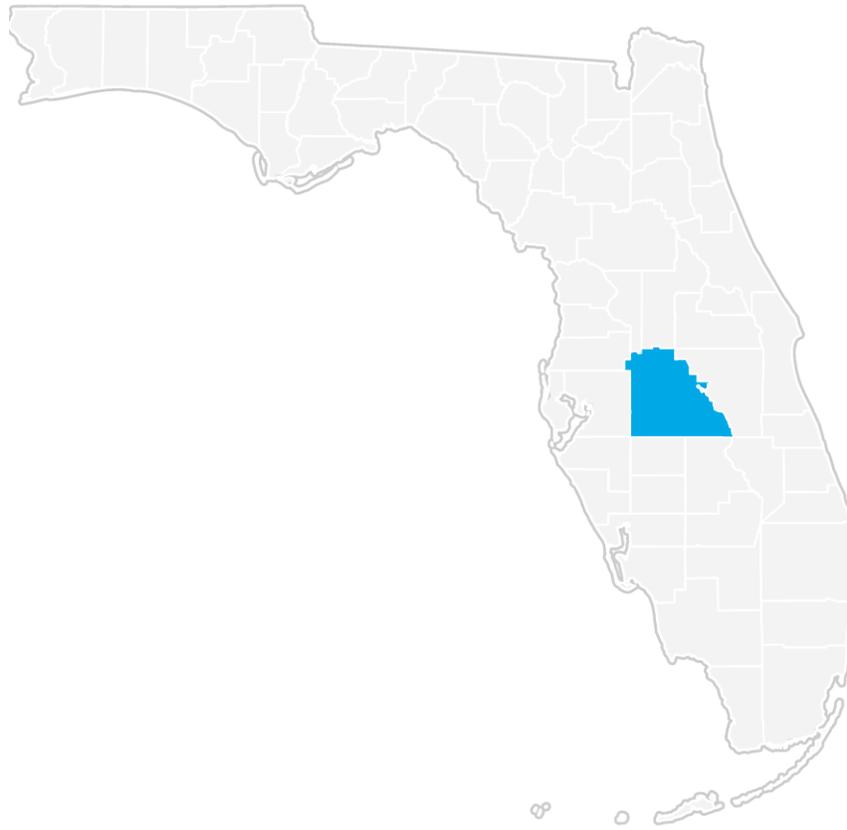
Data Notes

- Industry employment and wages (including total regional employment and wages) are as of 2022Q4 and are based upon BLS QCEW data, imputed by Chmura where necessary, and supplemented by additional sources including Census ZBP data. Employment forecasts are modeled by Chmura and are consistent with BLS national-level 10-year forecasts.
- Occupation employment is as of 2022Q4 and is based on industry employment and local staffing patterns calculated by Chmura and utilizing BLS OEWS data. Wages by occupation are as of 2022, utilizing BLS OEWS data and imputed by Chmura.
- GDP is derived from BEA data and imputations by Chmura. Productivity (output per worker) is calculated by Chmura using industry employment and wages as well as GDP and BLS output data. Supply chain modeling including purchases by industry are developed by Chmura.
- Postsecondary awards are per the NCES and are for the 2020-2021 academic year.
- Establishment counts are per the BLS QCEW data.
- Figures may not sum due to rounding.

Industry Definition

Information Technology is defined as the following NAICS industries:

Code	Description
333242	Semiconductor Machinery Manufacturing
333310	Commercial and Service Industry Machinery Manufacturing
334210	Telephone Apparatus Manufacturing
334220	Radio and Television Broadcasting and Wireless Communications Equipment Manufacturing
334290	Other Communications Equipment Manufacturing
334310	Audio and Video Equipment Manufacturing
334412	Bare Printed Circuit Board Manufacturing
334413	Semiconductor and Related Device Manufacturing
334416	Capacitor, Resistor, Coil, Transformer, and Other Inductor Manufacturing
334417	Electronic Connector Manufacturing
334418	Printed Circuit Assembly (Electronic Assembly) Manufacturing
334419	Other Electronic Component Manufacturing
334511	Search, Detection, Navigation, Guidance, Aeronautical, and Nautical System and Instrument Manufacturing
334512	Automatic Environmental Control Manufacturing for Residential, Commercial, and Appliance Use
334513	Instruments and Related Products Manufacturing for Measuring, Displaying, and Controlling Industrial Process Variables
334514	Totalizing Fluid Meter and Counting Device Manufacturing
334515	Instrument Manufacturing for Measuring and Testing Electricity and Electrical Signals
334519	Other Measuring and Controlling Device Manufacturing
334610	Manufacturing and Reproducing Magnetic and Optical Media
335313	Switchgear and Switchboard Apparatus Manufacturing
335314	Relay and Industrial Control Manufacturing
335921	Fiber Optic Cable Manufacturing
335929	Other Communication and Energy Wire Manufacturing
512110	Motion Picture and Video Production
512191	Teleproduction and Other Postproduction Services
512199	Other Motion Picture and Video Industries
512240	Sound Recording Studios
513110	Newspaper Publishers
513120	Periodical Publishers
513130	Book Publishers
513140	Directory and Mailing List Publishers
513191	Greeting Card Publishers
513199	All Other Publishers
513210	Software Publishers
516210	Media Streaming Distribution Services, Social Networks, and Other Media Networks and Content Providers
517410	Satellite Telecommunications
517810	All Other Telecommunications
518210	Computing Infrastructure Providers, Data Processing, Web Hosting, and Related Services
519290	Web Search Portals and All Other Information Services
541430	Graphic Design Services
541511	Custom Computer Programming Services
541512	Computer Systems Design Services
541513	Computer Facilities Management Services
541519	Other Computer Related Services
611420	Computer Training
711510	Independent Artists, Writers, and Performers
811210	Electronic and Precision Equipment Repair and Maintenance

FAQ

What is (LQ) location quotient?

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

What is annual demand?

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

What is the difference between industry wages and occupation wages?

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