Labor Market Industry Profile

2023
EDITION

Florida Information Technology Industry

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Florida Industry Profiles:
Information Technology Industry Cluster

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Exploring Florida's Targeted Industries

Florida's geographic location ideally positions the state as a global hub for commerce. Florida's competitive costs, comprehensive infrastructure and a large, diverse talent pool have supported the expansion of a dynamic economy throughout the following six key areas: aviation and aerospace, life sciences, manufacturing, information technology, financial and professional services, and logistics and distribution—the subjects of this series of reports titled *Florida Industry Profiles*.

These Industry Profiles detail the benefits of targeted industries to Florida's employment, wage-earning levels within the industry, and how each industry is forecast to perform moving forward. In an increasingly competitive global market, Florida continues to position itself for future growth in key areas as evidenced in the following profile.
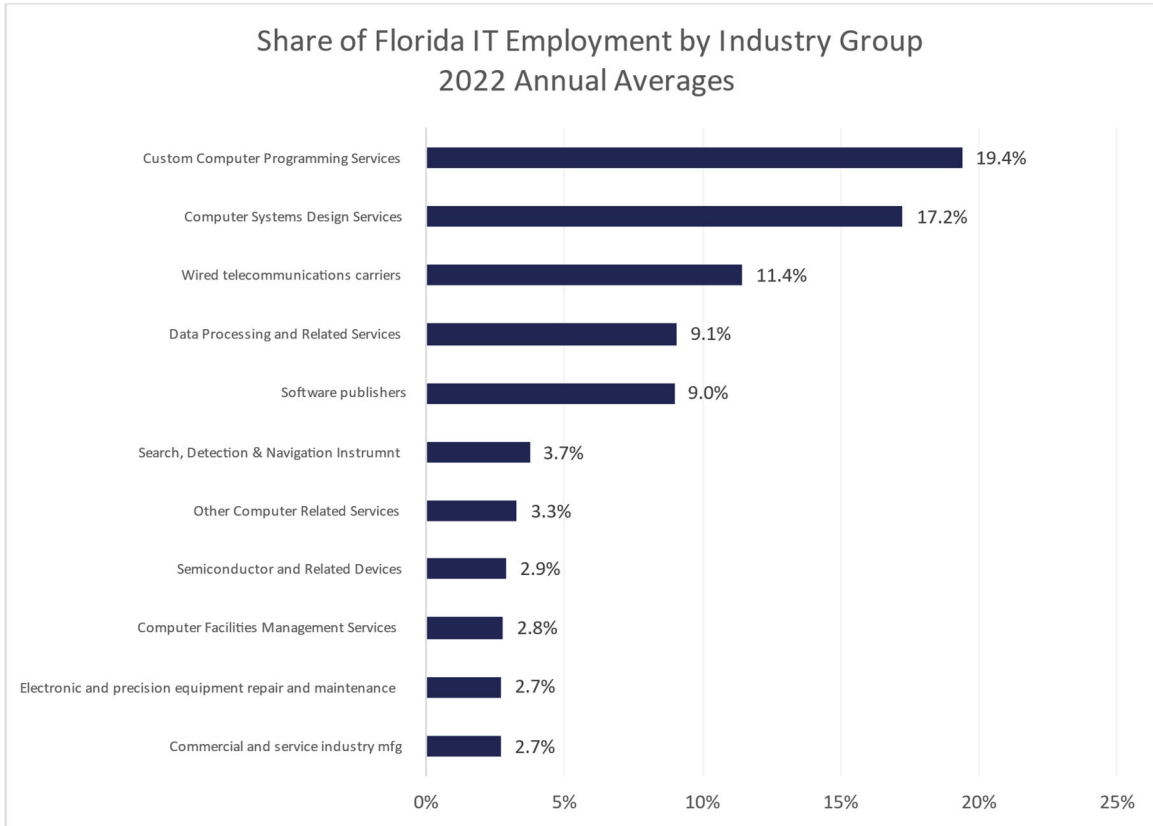
Overview

Florida's Information Technology industry cluster evolved in support of the nation's space program and was further advanced in 1981 with the introduction of the IBM Personal Computer in Boca Raton. From these early achievements, Florida's Information Technology industry cluster has matured into such diverse areas as digital media, modeling, simulation and training, photonics/optics, mobile technologies, and electronic shopping.

The Information Technology industry cluster is composed of 49 different industries from both manufacturing (30 industries) and nonmanufacturing (19 industries), as defined by SelectFlorida. Industries within this cluster underwent a redefinition with the introduction of the 2022 North American Industry Classification System (NAICS). As a result, a consistent time series cannot be constructed for this cluster.
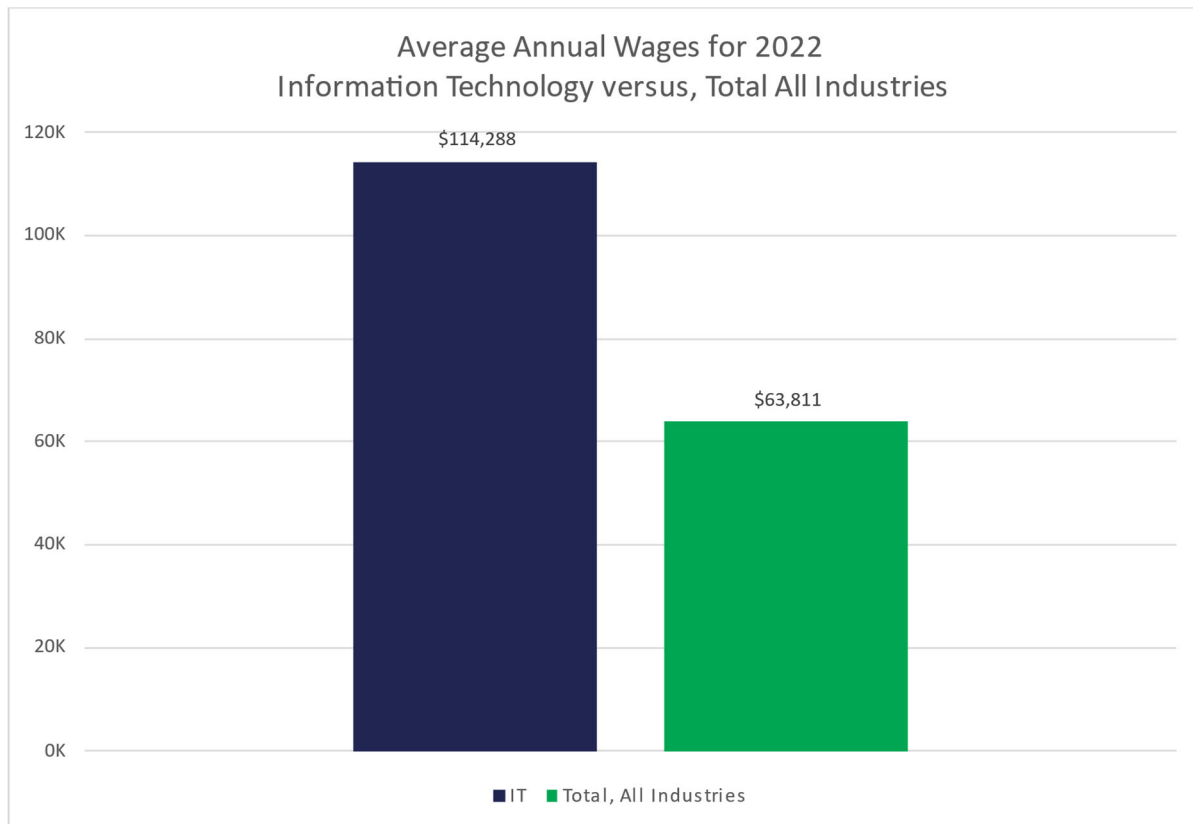
Employment Trends in the IT Industry Cluster

The Information Technology industry cluster had 43,463 establishments and employment of 313,192 in 2022.

The largest *manufacturing* industries in the Information Technology industry cluster in 2022 were: Search, Detection, and Navigation Instruments (11,688 jobs); Semiconductors and Related Device Manufacturing (Confidential); **Commercial and Service Industry Manufacturing** (8,458 jobs); and Broadcast & Wireless Communication Equip (4,002 jobs). The largest *nonmanufacturing* industries in the Information Technology industry cluster were: Custom Computer Programming Services (60,686 jobs); Computer Systems Design Services (54,006 jobs); Wired Telecommunications Carriers (35,820 jobs); and Data Processing and Related Services (28,384 jobs).

Share of Florida IT Employment by Industry Group
2022 Annual Averages

Industry Group	Share
Custom Computer Programming Services	19.4%
Computer Systems Design Services	17.2%
Wired telecommunications carriers	11.4%
Data Processing and Related Services	9.1%
Software publishers	9.0%
Search, Detection & Navigation Instrumnt	3.7%
Other Computer Related Services	3.3%
Semiconductor and Related Devices	2.9%
Computer Facilities Management Services	2.8%
Electronic and precision equipment repair and maintenance	2.7%
Commercial and service industry mfg	2.7%

Source: FloridaCommerce, Bureau of Workforce Statistics & Economic Research, Quarterly Census of Employment and Wages Program (QCEW).

The 2022 average annual wage for workers in the Information Technology industry cluster ($114,288) exceeded the total average annual wage for all industries ($63,811) by $50,477 (+79.1 percent).

Average Annual Wages for 2022
Information Technology versus, Total All Industries

$114,288

$63,811

■ IT   ■ Total, All Industries

Source: FloridaCommerce, Bureau of Workforce Statistics and & Economic Research, Quarterly Census of Employment and Wages Program (QCEW).

Software Publishers had an average annual wage of $151,182 in 2022, the highest in the Information Technology industry cluster, which is 136.9 percent higher than the average wage for all industries. Graphic Design Services had the lowest average annual wage in 2022 ($55,502). Forty information technology industries had average annual wages that exceeded the wage for all industries ($63,811). Eighteen industries had annual wages greater than $100,000. Compared to the average annual wage for all industries in 2022, most information technology industries had relatively high average annual wages.

Top Occupations in the Information Technology Industry Cluster For All Training Levels*

Occupation Title	Employment 2022	2030	2022-2030 Change Total	Percent	% of Industry Total	2022 Median Hourly Wage	Training Requirement
Total, All Information Technology Industry Occupations	314,531	365,359	50,828	16.16			
Software Developers and Software Quality Assurance Analysts and Testers	37,725	48,127	10,402	27.57	11.99	NR	Bachelor's degree
Computer User Support Specialists	17,269	21,698	4,429	25.65	5.49	$24.11	Some college, no degree
Computer Systems Analysts	11,192	13,708	2,516	22.48	3.56	$45.58	Bachelor's degree
Electrical, Electronic, and Electromechanical Assemblers, Except Coil Winders, Tapers,	8,825	9,734	909	10.30	2.81	$17.45	High School Diploma or GED
Computer and Information Systems Managers	7,835	9,399	1,564	19.96	2.49	$69.71	Bachelor's degree
Management Analysts	5,853	7,087	1,234	21.08	1.86	$37.27	Bachelor's degree
Computer Programmers	5,547	5,768	221	3.98	1.76	$42.03	Bachelor's degree
Network and Computer Systems Administrators	5,039	6,223	1,184	23.50	1.60	$40.69	Bachelor's degree
Sales Representatives, Wholesale and Manufacturing, Technical and Scientific Products	3,868	4,545	677	17.50	1.23	$47.52	Bachelor's degree
Web Developers and Digital Interface Designers	3,543	4,170	627	17.70	1.13	NR	Associate Degree
Graphic Designers	3,222	3,631	409	12.69	1.02	$24.58	Bachelor's degree
Industrial Engineers	3,069	3,649	580	18.90	0.98	$46.71	Bachelor's degree
Information Security Analysts	2,988	4,381	1,393	46.62	0.95	$51.17	Bachelor's degree
Inspectors, Testers, Sorters, Samplers, and Weighers	2,930	2,828	-102	-3.48	0.93	$20.01	High School Diploma or GED
Laborers and Freight, Stock, and Material Movers, Hand	2,807	3,255	448	15.96	0.89	$15.45	No formal education credential required

* The Top 15 table reflects the occupations synonymous with the particular industry and best represents the required set of skills. Though still counted in the total employment of the Information Technology Industry, the occupations not included for 2022 were: Customer Service Representatives (22,378 jobs); General and Operations Managers (9,348 jobs); Sales Representatives of Services, Except Advertising, Insurance, Financial Services, and Travel (8,017 jobs); Project Management Specialists and Business Operations Specialists, All Other (7,835 jobs); Market Research Analysts and Marketing Specialists (5,290 jobs); Office Clerks, General (3,802 jobs); Accountants and Auditors (3,564 jobs); First-Line Supervisors of Office and Admin. Support Workers (3,477 jobs); Sales Managers (3,437 jobs); Secretaries and Administrative Assistants, Except Legal (3,338); and Bookkeeping, Accounting and Auditing Clerks (2,985 jobs); . NR- Not Releasable

- The largest 15 occupations (by employment) in the Information Technology industry cluster made up 38.7 percent of the total employment within the industry cluster.

- The largest occupation in 2022 was Software Developers and Software Quality Assurance Analysts and Testers (37,725 jobs).

- Among the top 15 occupations, median hourly wages range from a high of $69.71 for Computer and Information Systems Managers to a low of $15.45 for Laborers and Freight, Stock, and Material Movers, Hand.

- Eight of the top 13 occupations (except Software Developers and Software Quality Assurance Analysts and Testers, and Web Developers and Digital Interface Designers) have a median wage greater than $25.00 per hour.

- Fourteen of the top 15 occupations are projected to gain employment through 2030.

- The Software Developers and Software Quality Assurance Analysts and Testers is projected to gain the most jobs (+10,402 jobs) among the top 15 occupations from 2022 to 2030, while Information Security Analysts is expected to grow the fastest (+46.62 percent).

- Twelve of the top 15 occupations require training beyond high school (11 require a bachelor's degree).

Occupation Title	Employment		2022-2030 Change		% of Industry Total	2022 Median Hourly Wage	Training Requirement
	2022	2030	Total	Percent			
Total, All Information Technology Industry Occupations	**174,518**	**210,023**	**35,505**	**20.34**			
Software Developers and Software Quality Assurance Analysts and Testers	37,725	48,127	10,402	27.57	11.99	NR	Bachelor's degree
Computer Systems Analysts	11,192	13,708	2,516	22.48	3.56	$45.58	Bachelor's degree
Computer and Information Systems Managers	7,835	9,399	1,564	19.96	2.49	$69.71	Bachelor's degree
Management Analysts	5,853	7,087	1,234	21.08	1.86	$37.27	Bachelor's degree
Computer Programmers	5,547	5,768	221	3.98	1.76	$42.03	Bachelor's degree
Network and Computer Systems Administrators	5,039	6,223	1,184	23.50	1.60	$40.69	Bachelor's degree
Sales Representatives, Wholesale and Manufacturing, Technical and Scientific Products	3,868	4,545	677	17.50	1.23	$47.52	Bachelor's degree
Graphic Designers	3,222	3,631	409	12.69	1.02	$24.58	Bachelor's degree
Industrial Engineers	3,069	3,649	580	18.90	0.98	$46.71	Bachelor's degree
Information Security Analysts	2,988	4,381	1,393	46.62	0.95	$51.17	Bachelor's degree
Computer Network Architects	2,707	3,317	610	22.53	0.86	$52.93	Bachelor's degree
Electrical Engineers	2,676	3,175	499	18.65	0.85	$47.01	Bachelor's degree
Training and Development Specialists	2,592	3,192	600	23.15	0.82	$29.84	Bachelor's degree
Database Administrators and Architects	2,520	3,069	549	21.79	0.80	NR	Bachelor's degree
Buyers and Purchasing Agents	2,194	2,295	101	4.60	0.70	$30.01	Bachelor's degree

Top Occupations in the Information Technology Industry Cluster That Require a Bachelor's Degree or Higher**

** The Top 15 table reflects the occupations synonymous with the particular industry and best represents the required set of skills. Though still counted in the total employment of the Information Technology Industry, the occupations not included for 2022 were: General and Operations Managers (9,348 jobs); Project Management Specialists and Business Operations Specialists, All Other (7,835 jobs); Market Research Analysts and Marketing Specialists (5,290 jobs); Accountants and Auditors (3,564 jobs); Sales managers (3,437 jobs); and Interior Designers (2,722 jobs). NR- Not Releasable

- Approximately 31.5 percent of employment in the Information Technology industry cluster is concentrated in the top 15 occupations that require at least a bachelor's degree.

- Median hourly wages for the top 15 occupations that require at least a bachelor's degree range from a high of $69.71 for Computer and Information Systems Managers to a low of $24.58 for Graphic Designers.

- All the top 15 occupations that require at least a bachelor's degree have median wages greater than $20.00 per hour.

- All the top 15 occupations that require at least a bachelor's degree are projected to gain jobs between 2022 to 2030.

- Of the top 15 occupations that require at least a bachelor's degree from 2022 to 2030, Software Developers and Software Quality Assurance Analysts and Testers are projected to gain the most jobs (+10,402 jobs), followed by Computer Systems Analyst (+2,516 jobs) and Computer and Information Systems Managers (+1,564 jobs).

- Employment in the Information Technology industry cluster is concentrated in the southeast, central, and northeast areas of the state. The largest counties by employment are Broward, Miami-Dade, Hillsborough, Pinellas, Orange, Brevard, Palm Beach, Duval, and Seminole.

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