DEO
FLORIDA DEPARTMENT of ECONOMIC OPPORTUNITY

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Labor Market Industry Profile

Florida Information Technology Industry

Prepared by the Florida Department of Economic Opportunity, Bureau of Workforce Statistics and Economic Research

Florida
Information Technology Industry Cluster

Exploring Florida's Targeted Industries

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

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

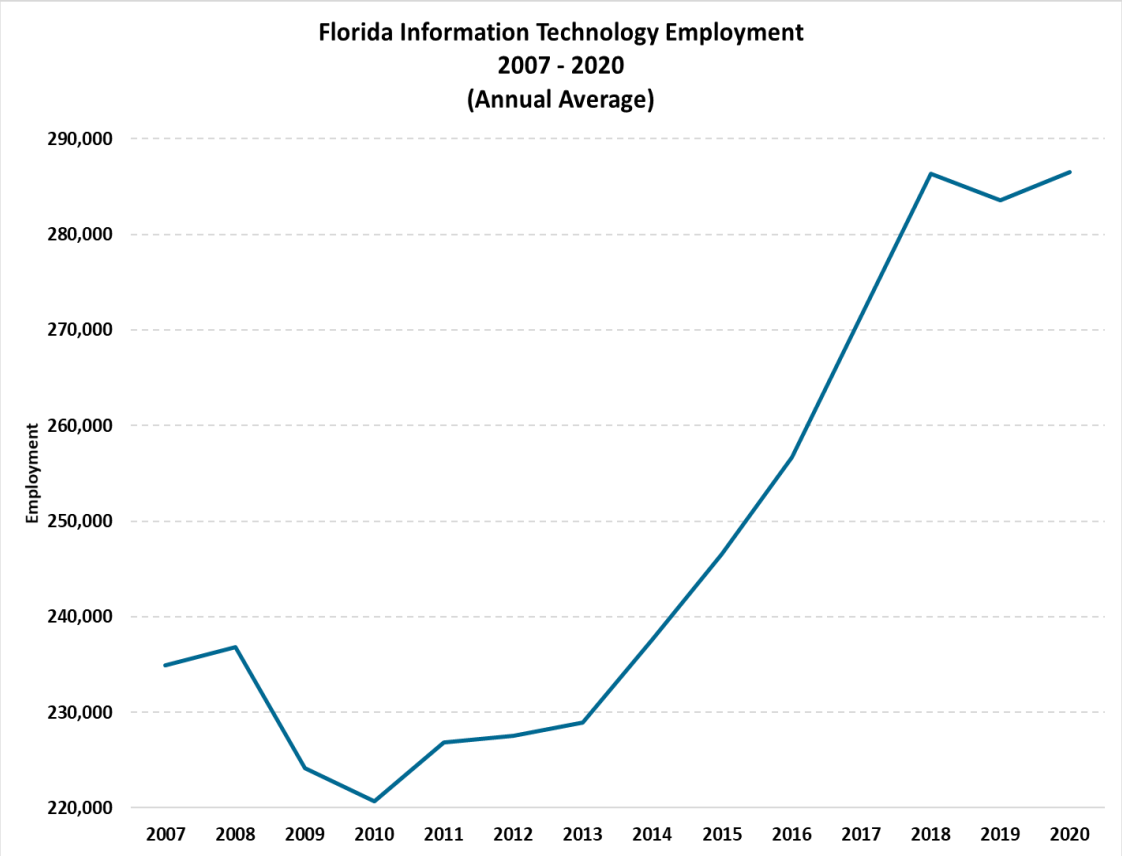
Overview

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 50 different industries from both manufacturing (28 industries) and nonmanufacturing (22 industries), as defined by Enterprise Florida, Inc.

Employment Trends in the IT Industry Cluster

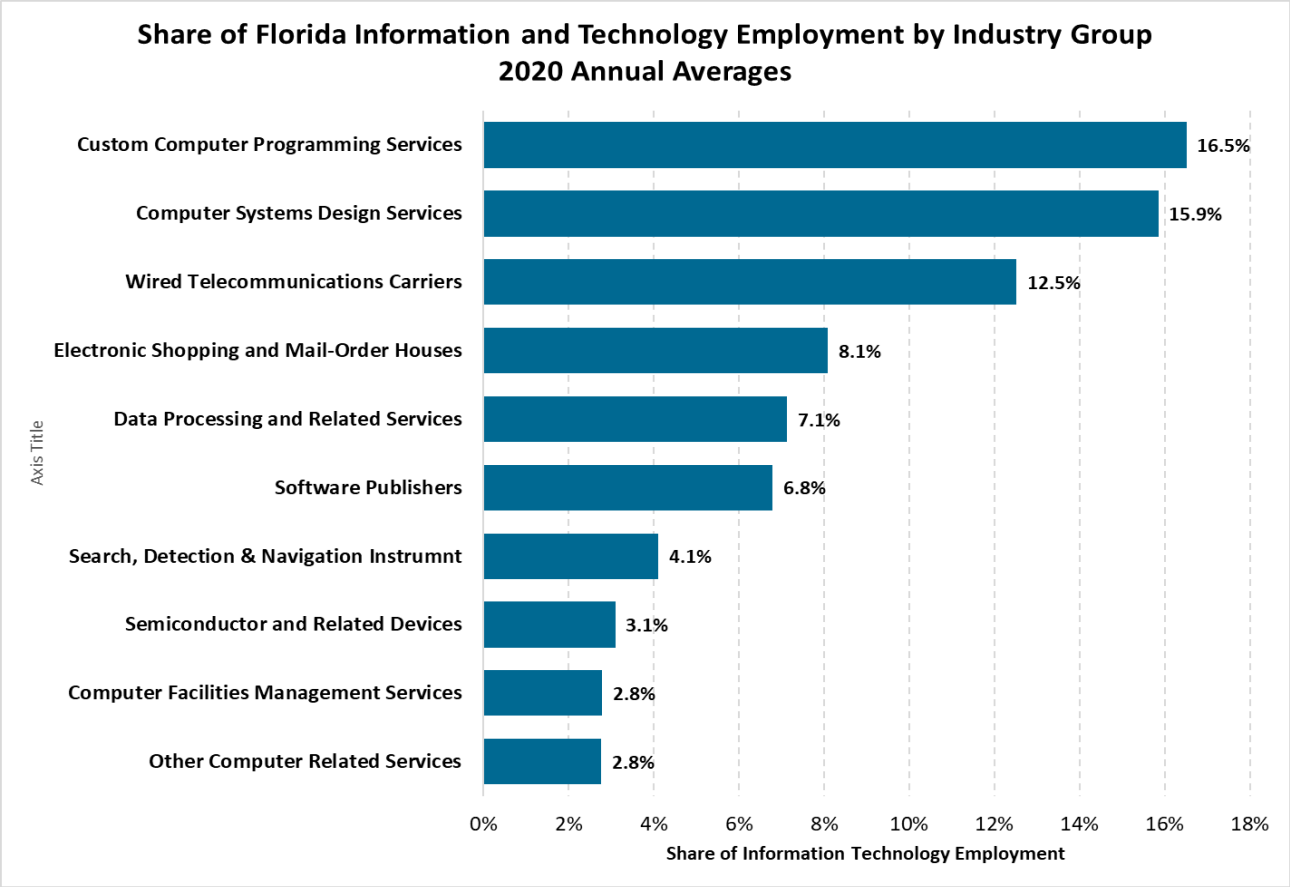
The Information Technology industry cluster had 36,479 establishments and employment of 286,501 in 2020. Employment increased by 2,888 jobs (+1.0 percent) over the year.



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

The largest *manufacturing* industries in the Information Technology industry cluster in 2020 were: Search, Detection, and Navigation Instruments (11,769 jobs); Semiconductors and Related Device Manufacturing (Confidential); Broadcast and Wireless Communications Equipment (3,916 jobs); and Other Electronic Component Manufacturing (2,643 jobs). The largest *nonmanufacturing* industries in the Information Technology industry cluster were: Custom Computer Programming Services (47,312 jobs); Computer Systems Design Services (45,412 jobs); Wired Telecommunications Carriers (35,875 jobs); and Electronic Shopping and Mail-Order Houses (23,171 jobs).

Within the Information Technology industry cluster, Computer Systems Design Services gained the most jobs over the year in 2020 (+2,590 jobs, +6.0 percent). The industry losing the most jobs over the year was Wired Telecommunications Carriers (-1,562 jobs, -4.2 percent).

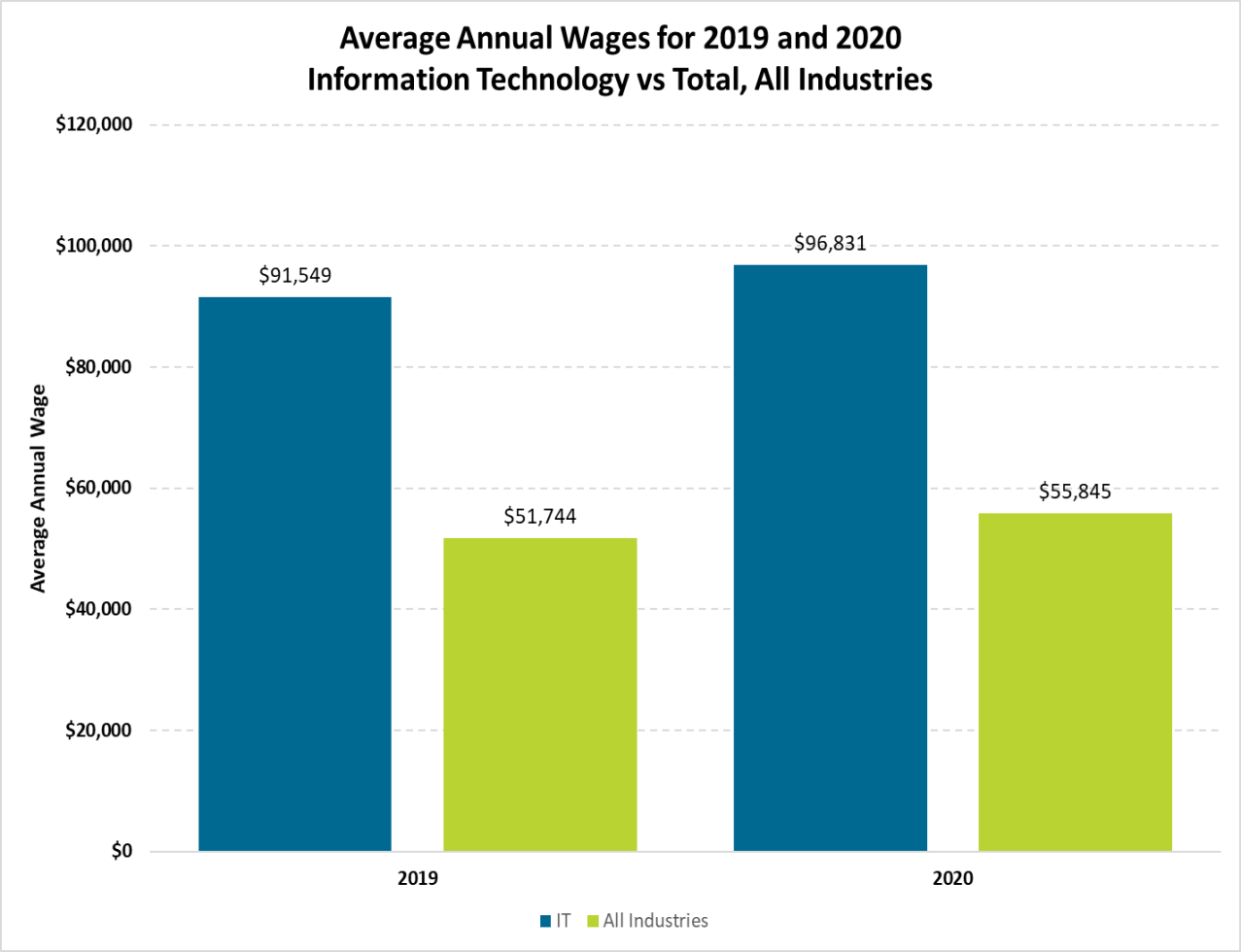


Source: Florida Department of Economic Opportunity, Bureau of Workforce Statistics & Economic Research, Quarterly Census of Employment and Wages Program (QCEW).

The 2020 average annual wage for workers in the Information Technology industry cluster was $96,831, exceeding the total average annual wage for all industries ($55,845) by 73.4 percent. This gap has narrowed since 2019, when the Information Technology industry cluster average annual wage exceeded the average annual wage for all industries by 76.9 percent.

The average annual wage in the Information Technology industry cluster increased more than the average annual wage for all industries. However, it grew at a slower rate. The average annual wage increased by $5,282 (+5.8 percent), while for all industries it grew by $4,101 (+7.9 percent).

Software Publishers had an average annual wage of $133,073 in 2020, the highest in the Information Technology industry cluster, which is 138.3 percent higher than the average wage for all industries. Magnetic Media Manufacture and Reproducing had the lowest average annual wage in 2020 ($29,733). Forty-two information technology industries had average annual wages that exceeded the wage for all industries ($55,845). Fifteen industries had annual wages greater than $100,000. Compared to the average annual wage for all industries in 2020, most information technology industries had relatively high average annual wages.



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

All Education and Training Levels

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

Occupation Title	Employment 2020	Employment 2028	2020 - 2028 Change Total	2020 - 2028 Change Percent	% of Industry Total	2020 Median Hourly Wage	Training Requirement
Total, All Information Technology Industry Occupations	282,800	319,680	36,880	13.04			
Software Developers, Applications	23,580	28,018	4,438	18.82	8.34	46.26	Bachelor's Degree
Computer User Support Specialist	13,368	16,173	2,805	20.98	4.73	22.55	Some college, no degree
Computer Systems Analyst	11,094	13,464	2,370	21.36	3.92	39.07	Bachelor's Degree
Software Developers, Systems Software	10,539	12,350	1,811	17.18	3.73	46.26	Bachelor's Degree
Computer and Information Systems Managers	7,155	8,578	1,423	19.89	2.53	65.61	Bachelor's Degree
Computer Programmers	6,993	8,568	1,575	22.52	2.47	35.45	Bachelor's Degree
Network and Computer Systems Administrators	4,616	5,533	917	19.87	1.63	37.36	Bachelor's Degree
Management Analysts	4,577	5,511	934	20.41	1.62	34.39	Bachelor's Degree
Computer Network Architects	3,654	4,370	716	19.59	1.29	52.29	Bachelor's Degree
Graphic Designers	3,336	3,853	517	15.50	1.18	23.11	Bachelor's Degree
Computer Applications, All other	3,094	3,720	626	20.23	1.09	37.41	Bachelor's Degree
Web Developers	2,785	3,313	528	18.96	0.98	31.43	Associate Degree
Information Security Analyst	2,735	3,273	538	19.67	0.97	44.86	Bachelor's Degree
Computer Network Support Specialist	2,631	3,007	376	14.29	0.93	28.80	Associate Degree
Industrial Engineers	2,627	2,809	182	6.93	0.93	39.21	Bachelor's Degree

* 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 2020 were: Customer Service Representatives (11,303 jobs); General and Operations Managers (9,054 jobs); Office Clerks, General (5,476 jobs); Secretaries, Except Legal, Medical and Executive (4,053 jobs); Accountants and Auditors (3,902 jobs); Bookkeeping, Accounting and Auditing Clerks (3,404 jobs); First-Line Supervisors of Office and Admin. Support Workers (3,368 jobs); Order Clerks (3,335); Business Operations Specialists, All Other (3,107 jobs); and Sales Managers (2,742 jobs).

- The top 15 occupations (by employment) in the Information Technology industry cluster made up 36.35 percent of the total employment within the industry cluster.
- The largest occupation in 2020 is Software Developers, Applications, which has a median hourly wage of $46.26.
- Among the top 15 occupations, median hourly wages range from a high of $65.61 for Computer and Information Systems Managers to a low of $22.55 for Computer User Support Specialist.
- Thirteen of the top 15 occupations have a median wage greater than $25.00 per hour.
- All of the top 15 occupations are projected to gain employment through 2028.
- Software Developers, Applications is projected to gain the most jobs (+4,438 jobs) and Computer Programmers are projected to grow the fastest (+22.52 percent) of the top 15 occupations from 2020 to 2028.
- All of the top 15 occupations require training beyond high school, with eleven requiring a bachelor's degree. Higher wages are found in occupations with greater training requirements.

Bachelor's Degree or Higher

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

Occupation Title	Employment 2020	Employment 2028	2020 - 2028 Change Total	2020 - 2028 Change Percent	% of Industry Total	2020 Median Hourly Wage	Training Requirement
Total, All Information Technology Industry Occupations	153,408	180,163	26,755	17.44			
Software Developers, Applications	23,580	28,018	4,438	18.82	15.37	46.26	Bachelor's Degree
Computer Systems Analyst	11,094	13,464	2,370	21.36	7.23	39.07	Bachelor's Degree
Software Developers, Systems Software	10,539	12,350	1,811	17.18	6.87	46.26	Bachelor's Degree
Computer and Information Systems Managers	7,155	8,578	1,423	19.89	4.66	65.61	Bachelor's Degree
Computer Programmers	6,993	8,568	1,575	22.52	4.56	35.45	Bachelor's Degree
Network and Computer Systems Administrators	4,616	5,533	917	19.87	3.01	37.36	Bachelor's Degree
Management Analysts	4,577	5,511	934	20.41	2.98	34.39	Bachelor's Degree
Sales Representatives, Wholesale and Manufacturing	4,080	4,815	735	18.01	2.66	34.59	Bachelor's Degree
Market Research Analysts and Marketing Specialists	3,810	4,899	1,089	28.58	2.48	26.82	Bachelor's Degree
Computer Network Architects	3,654	4,370	716	19.59	2.38	52.29	Bachelor's Degree
Graphic Designers	3,336	3,853	517	15.50	2.17	23.11	Bachelor's Degree
Computer Applications, All other	3,094	3,720	626	20.23	2.02	37.41	Bachelor's Degree
Information Security Analyst	2,735	3,273	538	19.67	1.78	44.86	Bachelor's Degree
Industrial Engineers	2,627	2,809	182	6.93	1.71	39.21	Bachelor's Degree
Training and Development Specialists	2,342	2,846	504	21.52	1.53	26.79	Bachelor's Degree

** 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 2020 were: General and Operations Managers (9,054 jobs); Accountants and Auditors (3,902 jobs); Business Operations Specialists, All Other (3,107 jobs); and Interior Designers (2,482 jobs).

- Approximately 36.28 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 $65.61 for Computer and Information Systems Managers to a low of $23.11 for Graphic Designers.
- All of the top 15 occupations that require at least a bachelor's degree have a median wage greater than $20.00 per hour.
- All of the top 15 occupations that require at least a bachelor's degree are projected to gain jobs between 2020 to 2028.
- Of the top 15 occupations that require at least a bachelor's degree from 2020 to 2028, Software Developers, Applications are projected to gain the most jobs (+4,438 jobs), followed by Computer Systems Analyst (+2,370 jobs) and Software Developers, Systems Software (+1,811 jobs). Business Operations Specialists, All Other are projected to gain the least amount of jobs (+507 jobs, +16.32 percent).
- 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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