

L a b o r M a r k e t I n d u s t r y P r o f i l e

# *Florida* **Information Technology Industry**

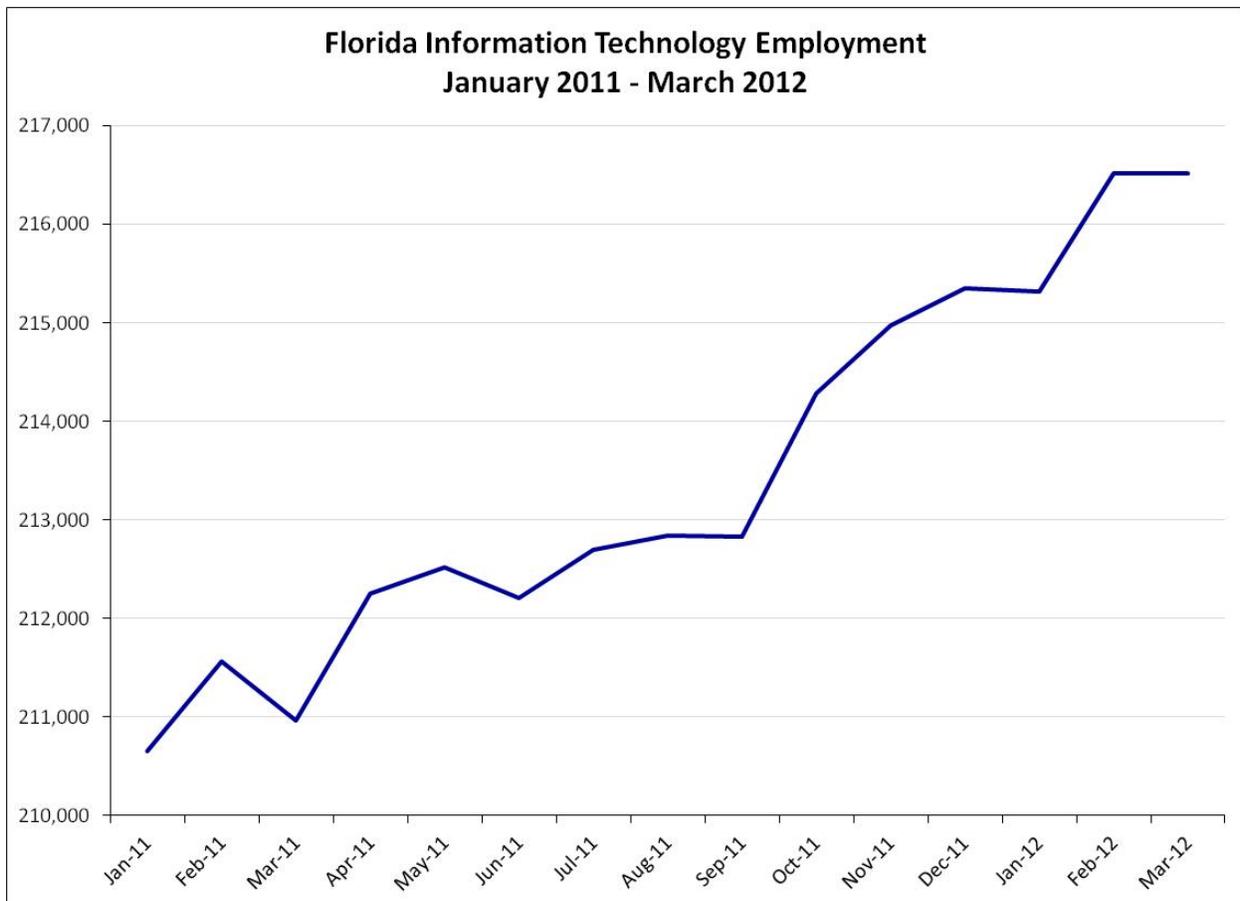


Source: Florida Department of Economic Opportunity, Bureau of Labor Market Statistics.

## Florida Information Technology Industry Cluster

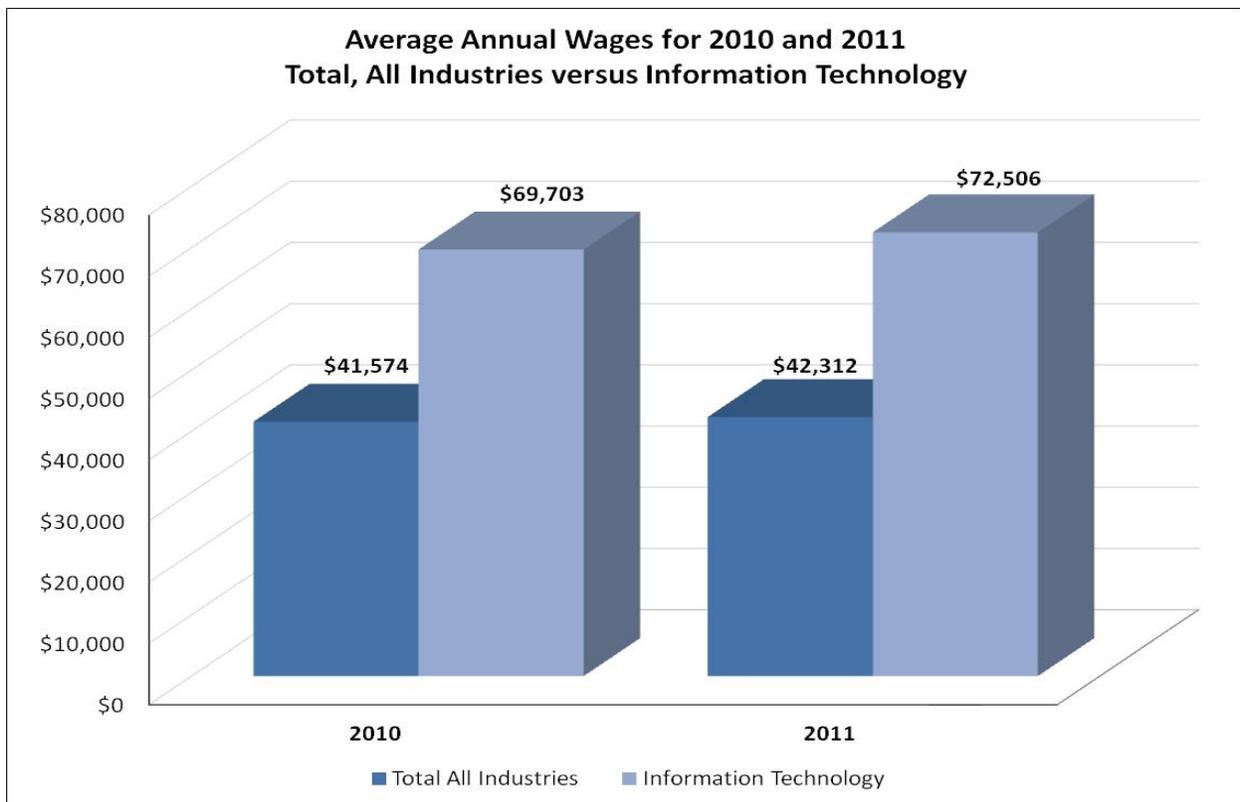
Florida's Information Technology industry cluster began to develop in support of the nation's space program and was further enhanced with the introduction of the IBM Personal Computer in Boca Raton in 1981. From these early efforts, Florida's information technology industry cluster has matured into such diverse areas as digital media; modeling, simulation and training; photonics/optics; and mobile technologies.

- The information technology industry cluster is defined as a combination of 51 different industries from both manufacturing (28) and nonmanufacturing (23). Industries within the cluster underwent a redefinition with the introduction of the 2012 North American Industry Classification System (NAICS). As a result, a consistent time series for the cluster can only be constructed from 2011 through the first quarter of 2012 with the new industry definitions as defined by NAICS. The industries included in the IT cluster are defined by Enterprise Florida, Inc.
- The information technology industry had 25,167 establishments and average monthly employment of 216,523 in March 2012. Employment was up 5,561 jobs (+2.6 percent) over the year.



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

- The largest subsectors in information technology in March 2012 were search, detection, and navigation instruments (8,846 jobs); semiconductors and related device manufacturing (confidential); and broadcast and wireless communications equipment (5,165 jobs). The largest nonmanufacturing industries were wired telecommunications carriers (42,146 jobs); custom computer programming services (30,360 jobs); computer systems design services (26,930 jobs); and data processing and related services (17,070 jobs). These seven industries made up 63.6 percent of information technology employment in March 2012.
- Within the information technology industry cluster, the computer systems design services industry gained the most jobs over the year in March 2012 (+2,665 jobs, +11.0 percent). The industry losing the most jobs over the year in the cluster was wired telecommunications carriers (-1,104 jobs, -2.6 percent).



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

- The 2011 average annual wage for workers in the information technology industry was \$72,506, exceeding the state's total average annual wage of \$42,312 by 71.4 percent.
- Software publishers had an average annual wage of \$109,991 in 2011, the highest in information technology and 160 percent higher than the state wage.

## All Education and Training Levels

<b>Top Occupations in the Information Technology Industry Cluster For All Training Levels</b>							
Occupation Title	Employment		Annual Change		% of Industry Total	2012	Training Requirement
	2012	2020	Total	Percent		Average Hourly Wage	
<b>Total, All Information Technology Occupations</b>	<b>279,360</b>	<b>292,065</b>	<b>1,588</b>	<b>0.57</b>			
Customer Service Representatives	14,971	15,414	55	0.37	5.36	14.51	Postsecondary Vocational
Telecommunications Equipment Installers and Repairers	14,077	14,929	107	0.76	5.04	23.65	Postsecondary Vocational
Computer Support Specialists	12,139	13,684	193	1.59	4.35	21.75	Postsecondary Vocational
Software Developers, Applications	11,564	13,623	257	2.23	4.14	38.79	Associate Degree
Computer Systems Analysts	10,137	11,582	181	1.78	3.63	39.81	Associate Degree
Computer Programmers	9,519	10,007	61	0.64	3.41	34.31	Postsecondary Vocational
Software Developers, Systems Software	9,449	11,308	232	2.46	3.38	43.61	Bachelor's Degree
Electrical and Electronic Equipment Assemblers	7,247	6,736	-64	-0.88	2.59	14.26	Postsecondary Vocational
Office Clerks, General	5,926	6,158	29	0.49	2.12	12.91	High School
Data Entry Keyers	5,416	5,270	-18	-0.34	1.94	13.15	High School
Printing Press Operators and Job Printers	4,835	4,127	-89	-1.83	1.73	15.88	High School
General and Operations Managers	4,644	4,657	2	0.03	1.66	51.17	Associate Degree
Telecommunications Line Installers and Repairers	4,497	4,479	-2	-0.05	1.61	21.94	Postsecondary Vocational
Team Assemblers	3,761	3,590	-21	-0.57	1.35	13.19	High School
Sales Representatives, Wholesale & Mfg, Tech. & Sci. Pro	3,681	3,898	27	0.74	1.32	42.53	Postsecondary Vocational

Source: Florida Department of Economic Opportunity, Bureau of Labor Market Statistics, Long Term Projections Program, forecast to 2020. Forecasts to the year 2020 assume continued economic recovery.

- The 15 largest information technology occupations comprise about 43.6 percent of the total employment in the industry cluster. Three of the fifteen largest occupations are production-related.
- The largest occupation in the information technology industry cluster in 2012 is customer service representatives, which has an average wage of \$30,180 annually or \$14.51 per hour.
- Among the fifteen largest occupations, hourly wages range from a high of \$51.17 for general and operations managers to a low of \$12.91 for office clerks, general.
- Nine of the fifteen largest occupations have an average wage greater than \$20.00 per hour.
- Ten the fifteen largest occupations are projected to increase in employment through 2020.
- Software developers, applications will have the highest annual net gain (+257 jobs) and the second highest annual growth rate (+2.23 percent) through 2020, while software developers, systems software will have the highest annual growth rate (+2.46 percent) and second highest annual net gain (+232 jobs).
- Higher wages are found in occupations with greater training requirements.

## Bachelor's Degree

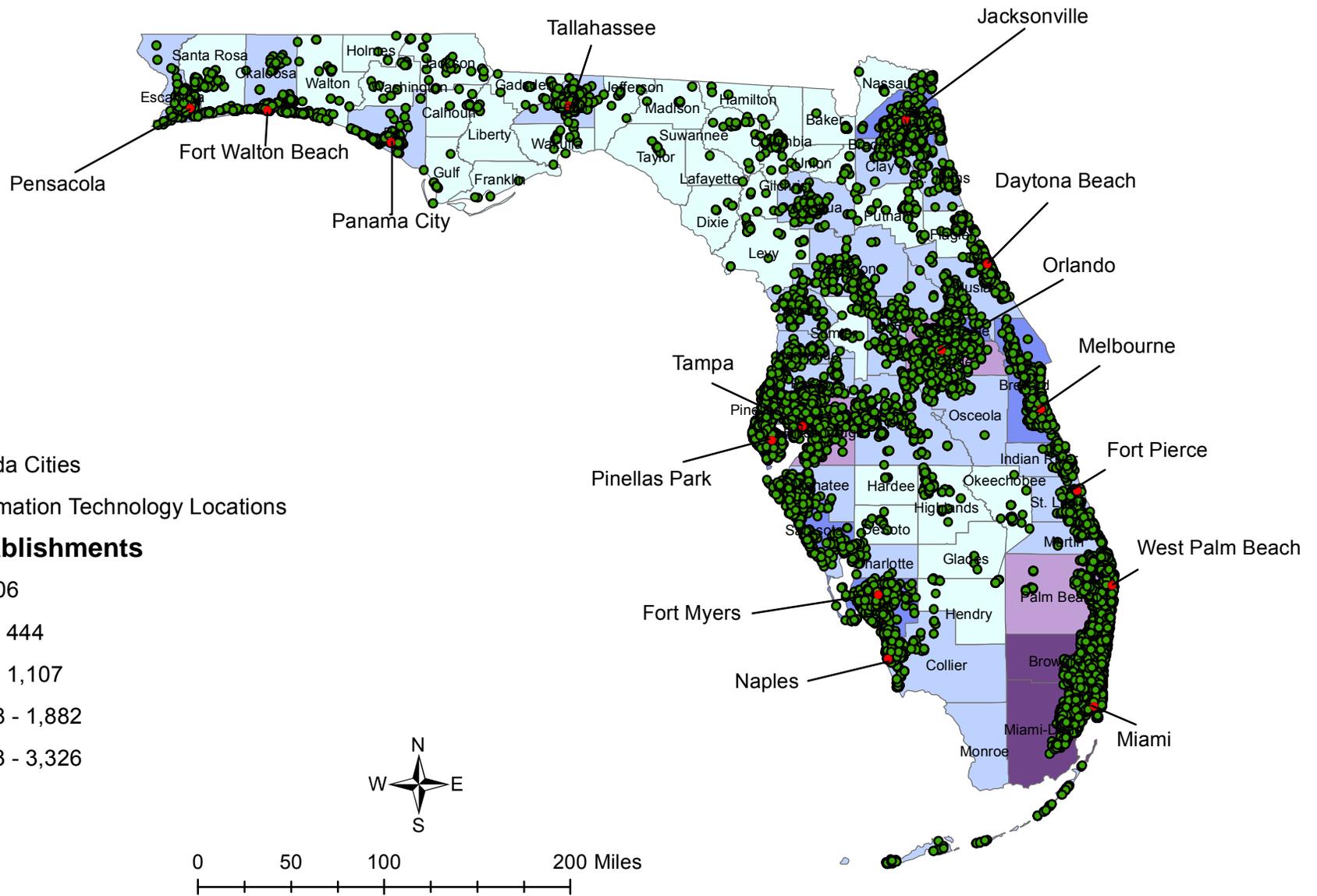
<b>Top Occupations in the Information Technology Industry Cluster That Require 4-Year Degree or Higher</b>							
Occupation Title	Employment		Annual Change		% of Industry Total	2012 Average Wage	Training Requirement
	2012	2020	Total	Percent			
<b>Total, All Information Technology Occupations</b>	<b>279,360</b>	<b>292,065</b>	<b>1,588</b>	<b>0.57</b>			
Chief Executives	947	941	-1	-0.08	0.34	92.19	Bachelor's Degree
Sales Managers	1,008	1,039	4	0.38	0.36	62.26	Bachelor's Degree
Computer and Information Systems Managers	2,494	2,767	34	1.37	0.89	60.86	Bachelor's Degree
Engineering Managers	1,294	1,187	-13	-1.03	0.46	57.06	Bachelor's Degree
Sales Engineers	1,303	1,360	7	0.55	0.47	50.93	Bachelor's Degree
Aerospace Engineers	1,083	918	-21	-1.90	0.39	44.42	Bachelor's Degree
Software Developers, Systems Software	9,449	11,308	232	2.46	3.38	43.61	Bachelor's Degree
Electronics Engineers, Except Computer	3,019	2,861	-20	-0.65	1.08	40.36	Bachelor's Degree
Electrical Engineers	2,265	2,128	-17	-0.76	0.81	40.05	Bachelor's Degree
Mechanical Engineers	1,415	1,276	-17	-1.23	0.51	37.01	Bachelor's Degree
Industrial Engineers	2,850	2,610	-30	-1.05	1.02	33.26	Bachelor's Degree
Accountants and Auditors	2,914	3,014	13	0.43	1.04	32.09	Bachelor's Degree
Producers and Directors	1,267	1,372	13	1.04	0.45	32.07	Bachelor's Degree
Market Research Analysts and Marketing Specialists	1,068	1,310	30	2.83	0.38	28.21	Bachelor's Degree
Training and Development Specialists	1,152	1,369	27	2.35	0.41	25.74	Bachelor's Degree

Source: Florida Department of Economic Opportunity, Bureau of Labor Market Statistics, Long Term Projections Program, forecast to 2020. Forecasts to the year 2020 assume continued economic recovery.

- Approximately 12.0 percent of the jobs in information technology are concentrated in the 15 largest high skill occupations in this industry.
- Average hourly wages for the top 15 high skill information technology occupations range from a high of \$92.19 for chief executives to a low of \$25.74 for training and development specialists.
- Market research analysts and marketing specialists have the highest expected growth rate (+2.83 percent), while software developers, systems software are expected to gain the most new jobs (+232) among the top fifteen high skill information technology occupations.
- Eight occupations in the top 15 high skill information technology occupations are projected to increase employment through 2020.
- Employment in the information technology industry cluster is concentrated in the southeast, central, and northeast parts of the state. These counties include: Broward, Miami-Dade, Palm Beach, Hillsborough, Pinellas, Orange, Brevard, Seminole, and Duval.



# Concentration of Information Technology Establishments by Location



Source: Infogroup, Employer Database 2013-1st Edition.

Prepared by: Florida Department of Economic Opportunity, Bureau of Labor Market Statistics, October 2012.