

# The CTE Equation in Florida

A Research Study

October 2015





# The CTE Equation in Florida

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October 2015



This report is published by CNA, but the opinions expressed are those of the authors and do not necessarily reflect the views of CNA.

**Approved by:**

**October 2015**

A handwritten signature in black ink, appearing to read 'Stacey Jordan'.

Stacey Jordan, Vice President  
CNA Education  
Institute for Public Research

## Executive Summary

This report uses data from the Florida Department of Economic Opportunity and the U.S. Department of Labor’s Bureau of Labor Statistics to identify high-growth and high-wage occupations in the state of Florida, and the associated CTE Career Clusters. This information can be used to assist educational and private industry CTE stakeholders in identifying whether the CTE Programs of Study that schools and colleges offer are well aligned with current and future local labor market needs.

The report finds that:

- Across the state of Florida, employment is projected to increase by 12.4 percent between 2014 and 2022, with an average increase of 338,397 job openings per year.
- The average annual wage in 2014 for Florida was \$43,651, and a “high-wage” occupation in the state is one paying 20 percent above that (approximately \$52,300). About one-quarter (25.2 percent) of projected new openings will be in occupations that are classified as high-wage.
- Health Science; Business Management & Administration; Education & Training; Finance; Information Technology; and Marketing, Sales & Service are the five CTE Career Clusters associated with the greatest number of projected annual high-growth, high-wage job openings statewide between 2014 and 2022.
- There is considerable variation by Workforce Region in the projected growth in employment, average wages, and CTE Career Clusters most associated with high-growth, high-wage occupations. Thus, the need for education/training in various industries will differ significantly around the state.

The extent to which CTE programs correspond to labor market demands has important implications both for students and for employers. Students want to be prepared for good careers, while employers seek skilled workers to fill jobs in high-demand areas. Recent high school and college graduates make an important contribution to the state’s ability to respond to economic growth needs.



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## Introduction

Career and technical education (CTE) programs play a vital role in preparing high school students for life after graduation. The Carl D. Perkins Act of 2006 (Perkins) requires states that receive federal CTE funding to align secondary and postsecondary programs, so that students can transition seamlessly from a high school CTE program to a certificate, associate's degree, or bachelor's degree program in their chosen field of study. How well career and technical education programs correspond to labor market needs is important for both students and employers. Students want good careers, and employers want skilled workers who can fill jobs in high-demand areas.

Research shows that many states struggle to align education and training with workforce trends (Dougherty, 2003; Grubb et al., 1999; Leigh & Gill, 2007; Mokher, 2011). Many states have a history of local control over CTE programs, and increasing alignment requires a cultural shift. Strong leadership is needed to promote change, and states may have difficulties sustaining efforts if there is turnover of key staff involved in alignment efforts. Different departments and agencies typically oversee K-12 education, postsecondary education, and workforce development, which makes collaboration challenging. In addition, there are often insufficient fiscal and human resources to implement new CTE programs. Even if resources are available, there may be a lack of technical assistance from state agencies to local providers to support implementation.

Florida offers some 360 secondary and postsecondary CTE programs statewide (Florida State Board of Education, 2008). This report aims to provide a resource for the state of Florida in planning for these programs. School, district, and college staff, as well as state policymakers and local Workforce Investment Boards, can use the report in conjunction with other resources to inform the development and expansion of CTE programs as well as decisions to modify or eliminate programs no longer aligned with labor market needs.

## Career Clusters, Career Pathways, and Programs of Study

The National Career Clusters® Framework developed by the National Association of State Directors of Career Technical Education Consortium (NASDCTEc) organizes CTE educational programs into 16 broad career areas.<sup>1</sup> The Career Clusters originated in recognition of a national need to raise the content standards of CTE instructional programs and to better align CTE with the needs of employers (Ruffing, 2006). The Career Clusters organize 79 different “Career Pathways,” defined as more specific groups of occupations.

Florida has adopted the 16 National Career Clusters®, as well as a 17<sup>th</sup> cluster focused on careers in energy (Florida Department of Education, 2015), as follows:

- Agriculture, Food & Natural Resources
- Architecture & Construction
- Arts, A/V Technology & Communication
- Business Management & Administration
- Education & Training
- Energy
- Engineering and Technology Education
- Finance
- Government & Public Administration
- Health Science
- Hospitality & Tourism
- Human Services
- Information Technology
- Law, Public Safety & Security
- Manufacturing
- Marketing, Sales & Service
- Transportation, Distribution & Logistics

The Florida Department of Education (FLDOE) used its Career Clusters and Career Pathways as a basis for developing statewide “Programs of Study”—the aligned

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<sup>1</sup> The NASDCTEc represents state heads of secondary, postsecondary, and adult career and technical education programs across the nation.

secondary and postsecondary CTE programs required under Perkins. These Programs of Study within each Career Cluster for high school students then are implemented at the local level. The requirement is that each local Program of Study include a Career Pathway leading to a postsecondary credential and aligning with local industry and economic development needs (Florida State Board of Education, 2008).

## Reporting on Florida

This is not the first analysis of Florida job projections organized by Career Cluster. In 2011, researchers at the Georgetown University Center on Education and the Workforce, National Research Center for Career and Technical Education, and NASDCTEc used national data to project job growth by Career Cluster in each of the 50 states. Their study projected that in 2018, the largest number of jobs in Florida would be within the cluster Marketing, while Information Technology would experience the largest percentage growth (Carnevale et al., 2011). However, the Georgetown report was somewhat limited, in that it did not disaggregate data by region and its data extend only to 2018.

By contrast, this report maps Florida's Career Clusters with projections from the Florida Department of Economic Opportunity for high-growth, high-wage jobs between 2014 and 2022 statewide and for each of Florida's 24 Workforce Regions.<sup>2</sup> School, district, and college staff, as well as state policymakers and local Workforce Investment Boards<sup>3</sup>, can use the report to inform the development and expansion of CTE programs as well as decisions to modify or eliminate programs no longer aligned with labor market needs.

## Method

The Florida Department of Economic Opportunity projects job growth/reduction<sup>4</sup> for all occupations listed in the U.S. Department of Labor's Standard Occupational

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<sup>2</sup> Workforce Regions are clusters of neighboring counties with similar economic development and labor market characteristics.

<sup>3</sup> Local Workforce Investment Boards (WIBs) plan and oversee workforce development activities in each of Florida's 24 Workforce Regions.

<sup>4</sup> *Growth* includes the total number of annual openings due to both new jobs and replacements for retirement.

Classification (SOC) system.<sup>5</sup> SOCs are standardized job descriptions and cover practically every occupation.

At the time of this report, projections are available for the period 2014 (the most recent actuals available) through 2022, with the caveat that occupational projections are always subject to uncertainty. (It always is difficult to predict the introduction of new industries into a region or account exactly for every factor affecting the economic environment.)

The Florida Department of Economic Opportunity provides its occupational projections for the state as a whole and by Workforce Region. Table 1 identifies the counties and school districts located within each of the 24 Workforce Regions.

Table 1. Counties and school districts in each of the 24 Florida Workforce Regions.

Florida Workforce Region	Counties	School Districts
1	<ul style="list-style-type: none"> <li>• Escambia</li> <li>• Santa Rosa</li> </ul>	<ul style="list-style-type: none"> <li>• Escambia County School District</li> <li>• Santa Rosa County School District</li> </ul>
2	<ul style="list-style-type: none"> <li>• Okaloosa</li> <li>• Walton</li> </ul>	<ul style="list-style-type: none"> <li>• Okaloosa County School District</li> <li>• Walton County School District</li> </ul>
3	<ul style="list-style-type: none"> <li>• Calhoun</li> <li>• Holmes</li> <li>• Jackson</li> <li>• Liberty</li> <li>• Washington</li> </ul>	<ul style="list-style-type: none"> <li>• Calhoun County School District</li> <li>• Holmes County School District</li> <li>• Jackson County School District</li> <li>• Liberty County School District</li> <li>• Washington County School District</li> </ul>
4	<ul style="list-style-type: none"> <li>• Bay</li> <li>• Franklin</li> <li>• Gulf</li> </ul>	<ul style="list-style-type: none"> <li>• Bay District Schools</li> <li>• Franklin County Schools</li> <li>• Gulf County Schools</li> </ul>
5	<ul style="list-style-type: none"> <li>• Gadsden</li> <li>• Leon</li> <li>• Wakulla</li> </ul>	<ul style="list-style-type: none"> <li>• Gadsden County School District</li> <li>• Leon County Schools</li> <li>• Wakulla County School Board</li> </ul>

<sup>5</sup> Standard Occupational Classification (SOC) system developed by the U.S. Bureau of Labor Statistics groups occupations with similar skills or work activities to ease comparisons. The 2000 SOC system classifies occupations using a four-level hierarchy: *major group*, *minor group*, *broad occupation*, and *detailed occupation*. Each occupation has a six-digit code: digits 1 and 2 are the major group, digit 3 is the minor group, digits 4 and 5 are the broad occupation, and digit 6 is the detailed occupation. More information about SOCs can be found at <http://data.bls.gov/cgi-bin/print.pl/soc/socguide.htm>.

Florida Workforce Region	Counties	School Districts
6	<ul style="list-style-type: none"> <li>Hamilton</li> <li>Jefferson</li> <li>Lafayette</li> <li>Madison</li> <li>Suwannee</li> <li>Taylor</li> </ul>	<ul style="list-style-type: none"> <li>Hamilton County School District</li> <li>Jefferson County School District</li> <li>Lafayette County School District</li> <li>Madison County Schools</li> <li>Suwannee County School District</li> <li>Taylor County School District</li> </ul>
7	<ul style="list-style-type: none"> <li>Columbia</li> <li>Dixie</li> <li>Gilchrist</li> <li>Union</li> </ul>	<ul style="list-style-type: none"> <li>Columbia County School District</li> <li>Dixie County School District</li> <li>Gilchrist County School District</li> <li>Union County School Board</li> </ul>
8	<ul style="list-style-type: none"> <li>Baker</li> <li>Clay</li> <li>Duval</li> <li>Nassau</li> <li>Putnam</li> <li>St. Johns</li> </ul>	<ul style="list-style-type: none"> <li>Baker County School District</li> <li>Clay County Schools</li> <li>Duval County Public Schools</li> <li>Nassau County School District</li> <li>Putnam County School District</li> <li>St. Johns County School District</li> </ul>
9	<ul style="list-style-type: none"> <li>Alachua</li> <li>Bradford</li> </ul>	<ul style="list-style-type: none"> <li>Alachua County Public Schools</li> <li>Bradford County School District</li> </ul>
10	<ul style="list-style-type: none"> <li>Citrus</li> <li>Levy</li> <li>Marion</li> </ul>	<ul style="list-style-type: none"> <li>Citrus County School District</li> <li>Levy County School Board</li> <li>Marion County Public Schools</li> </ul>
11	<ul style="list-style-type: none"> <li>Flagler</li> <li>Volusia</li> </ul>	<ul style="list-style-type: none"> <li>Flagler County Public Schools</li> <li>Volusia County Schools</li> </ul>
12	<ul style="list-style-type: none"> <li>Lake</li> <li>Orange</li> <li>Osceola</li> <li>Seminole</li> <li>Sumter</li> </ul>	<ul style="list-style-type: none"> <li>Lake County Schools</li> <li>Orange County Public Schools</li> <li>Osceola County School District</li> <li>Seminole County Public Schools</li> <li>Sumter District Schools</li> </ul>
13	<ul style="list-style-type: none"> <li>Brevard</li> </ul>	<ul style="list-style-type: none"> <li>Brevard County Public Schools</li> </ul>
14	<ul style="list-style-type: none"> <li>Pinellas</li> </ul>	<ul style="list-style-type: none"> <li>Pinellas County Schools</li> </ul>
15	<ul style="list-style-type: none"> <li>Hillsborough</li> </ul>	<ul style="list-style-type: none"> <li>Hillsborough County Public Schools</li> </ul>
16	<ul style="list-style-type: none"> <li>Pasco</li> <li>Hernando</li> </ul>	<ul style="list-style-type: none"> <li>Pasco County Schools</li> <li>Hernando County School Board</li> </ul>
17	<ul style="list-style-type: none"> <li>Polk</li> </ul>	<ul style="list-style-type: none"> <li>Polk County Public Schools</li> </ul>
18	<ul style="list-style-type: none"> <li>Manatee</li> <li>Sarasota</li> </ul>	<ul style="list-style-type: none"> <li>Manatee County School District</li> <li>Sarasota County Public Schools</li> </ul>
19	<ul style="list-style-type: none"> <li>DeSoto</li> <li>Hardee</li> <li>Highlands</li> </ul>	<ul style="list-style-type: none"> <li>DeSoto School District</li> <li>Hardee County School District</li> <li>Highlands County Schools</li> </ul>
20	<ul style="list-style-type: none"> <li>Indian River</li> <li>Martin</li> <li>Okeechobee</li> <li>St. Lucie</li> </ul>	<ul style="list-style-type: none"> <li>Indian River County School District</li> <li>Martin County School District</li> <li>Okeechobee County School Board</li> <li>St. Lucie County School Board</li> </ul>
21	<ul style="list-style-type: none"> <li>Palm Beach</li> </ul>	<ul style="list-style-type: none"> <li>Palm Beach County School District</li> </ul>
22	<ul style="list-style-type: none"> <li>Broward</li> </ul>	<ul style="list-style-type: none"> <li>Broward County Public Schools</li> </ul>

Florida Workforce Region	Counties	School Districts
23	<ul style="list-style-type: none"> <li>• Miami-Dade</li> <li>• Monroe</li> </ul>	<ul style="list-style-type: none"> <li>• Miami-Dade County Public Schools</li> <li>• Monroe County School District</li> </ul>
24	<ul style="list-style-type: none"> <li>• Charlotte</li> <li>• Collier</li> <li>• Glades</li> <li>• Hendry</li> <li>• Lee</li> </ul>	<ul style="list-style-type: none"> <li>• Charlotte County Public Schools</li> <li>• Collier County District School Board</li> <li>• Glades County School District</li> <li>• Hendry County Schools</li> <li>• Lee County School District</li> </ul>

## “High-growth/high-wage” defined

We used the employment projections and 2014 average hourly wages from the Florida Department of Economic Opportunity’s Bureau of Labor Market Statistics (2015) to identify high-growth, high-wage jobs. Data were provided and analyzed separately for each Workforce Region and for the state as a whole.

**High-growth occupations.** For this analysis, we classified an occupation as “high-growth” if it met the following requirements in the Florida employment projection data:

- Is in demand (i.e., more job openings than workers to fill them) between 2014 and 2022
- Is projected to continue to have positive growth through 2022
- For a specific Workforce Region, is projected to have at least 40 total openings between 2014 and 2022 or an average of 5 or more per year

For each occupation, we looked separately at data statewide (all regions added together) and at data for each Workforce Region individually. This means that an occupation might be classified as high-growth in one region of the state but not in another, or in one or more regions but not statewide or vice versa.

**High-growth *and* high-wage occupations.** Among these high-growth occupations, we then classified an occupation as “high-wage” if it also met the following requirement in the Florida wage data:

- Pays 20 percent or more above the average hourly wage (2014 actuals)

Again, for each occupation, we looked at data statewide (compared with the statewide 2014 average wage) and at data for each Workforce Region alone (compared with each region’s 2014 average wage). And similarly, the same high-growth occupation might be classified as high-wage in one region of the state but not in another, or in one or more regions but not statewide or vice versa.

This method of identifying high-wage occupations was used in a report by CNA for the Regional Educational Laboratory (REL) Appalachia to identify and link high-wage jobs in Tennessee with CTE Career Clusters (Mokher, 2011). In addition, for the discussion that follows, we converted the average *hourly* wages provided by the Florida Department of Economic Opportunity to average *annual* wages (full-time equivalent over the course of a year = 2,080 hours).

There is a limitation to our approach. Single criterion for whether an occupation is high-wage is that it masks variability within a Cluster. That is, an occupation might not get an overall classification of high-wage because most of its jobs pay salaries below the 20 percent cutoff, while within that occupation there still could be opportunities for high-wage jobs, particularly for students with higher levels of education. For example, most occupations in the Cluster Agriculture, Food, & Natural Resources are not high-wage; however, the occupation *Veterinarian* is.

To highlight this, we report for each SOC occupational code the minimum level of training/education most commonly needed to enter that high-growth, high-wage occupation, as observed by the Florida Department of Education. We use the following classifications:

- Less than a high school diploma
- High school diploma
- Postsecondary vocational training
- Associate's degree
- Bachelor's degree
- Master's degree or higher

## CTE Career Clusters mapping

Finally, we mapped the occupations that we had identified as being high-growth, high-wage, both statewide and individually by Workforce Region, to the 16 nationally recognized Career Clusters. To do this, we used the crosswalk between the SOC system and the National Career Clusters® developed for the U.S. Department of Education (DTI Associates, 2007). This allows for any SOC occupation to be linked to a Career Cluster. Each SOC code can only be matched to a single Career Cluster to avoid double-counting. However, this may underestimate the actual number of high-wage and high-growth occupations within each Career Cluster if some occupations are related to multiple Career Clusters. For example, the SOC code for “Accountants and Auditors” is matched with the “Business Management & Administration” Career Cluster, yet this occupation may also be relevant for concentrators in the “Finance” Career Cluster

Florida has an additional 17<sup>th</sup> Career Cluster available to its students called Energy (Florida Department of Education, 2015). However, a mapping of this Career Cluster to SOC occupations was not available at the time of analysis. As a result, we included each energy-related occupation in one of the other 16 Career Clusters that seemed relevant, instead of reporting those separately.

## Findings

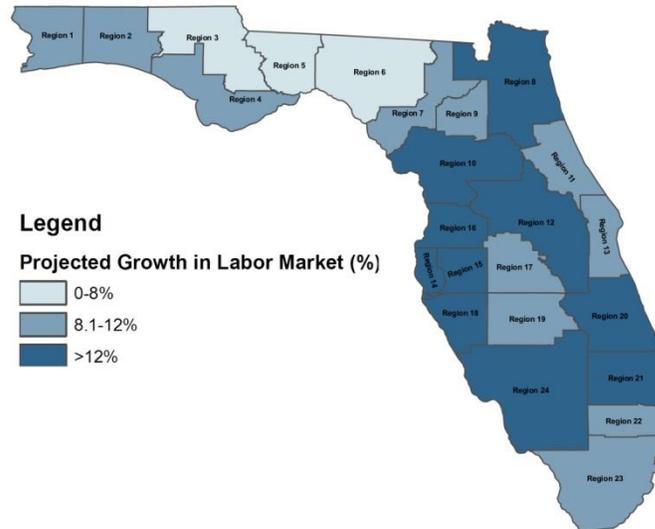
The first part of this section presents statewide information on occupational projections and average wages, and describes variation by Workforce Region. Next, we provide the total number of annual projected high-growth, high-wage job openings in Florida for 2014–2022, and the corresponding CTE Career Clusters.

The appendix includes supplemental tables that replicate the statewide results for each of the 24 Workforce Regions.

### Workforce projections

Across the state of Florida, the total number of people employed in all occupations is projected to increase by 12.4 percent between 2014 and 2022 (Florida Bureau of Labor Market Statistics, 2015). This is equivalent to an average increase of 338,397 new job openings per year. However, the amount of growth projected varies in different regions of the state (Figure 1 below). The projected change in employment ranges from a low of 4.1 percent in Workforce Region 6, located in northern Florida and encompassing part of the Tallahassee metropolitan area, to a high of 17.2 percent in Workforce Region 24, which includes Fort Myers and Naples.

Figure 1. Projected growth in employment between 2014 and 2022, by Florida Workforce Region.



Source: Florida Department of Economic Opportunity, Bureau of Labor Market Statistics, Quarterly Census of Employment and Wages Program (QCEW), in cooperation with the U.S. Department of Labor, Bureau of Labor Statistics. Released September 2014.

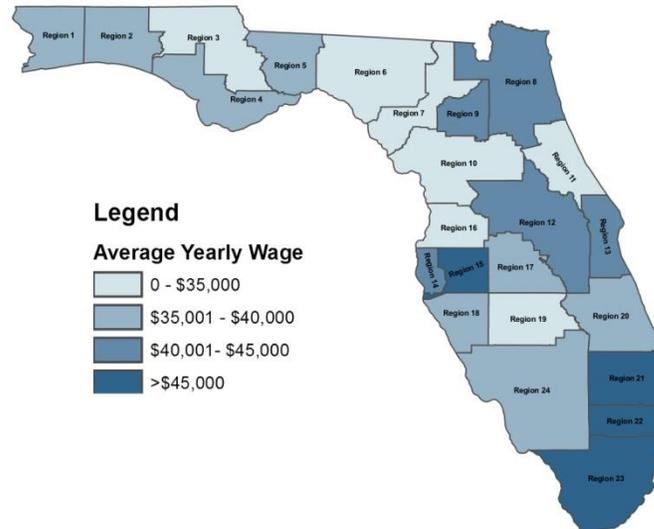
## High-wage occupations

For this report, we classified occupations as high-wage if they pay 20 percent or more above the average wage. One important consideration when examining the results for specific occupations is not only whether an occupation is classified as high-wage, but whether further education in the field can contribute to a lifetime career pathway that leads to higher wages.

According to the most recent available actuals (2014), the average annual wage in Florida was \$43,651 statewide (Florida Bureau of Labor Market Statistics, 2015). This means that statewide a high-wage occupation in Florida pays at least \$52,300 annually.

Looking at the average 2014 annual wage by individual Workforce Region, however, the dollar amount that defines an occupation as high-wage varies: from less than \$35,000 annually in seven regions to more than \$45,000 in four regions (Figure 2 below).

Figure 2. Average yearly wages for all occupations (2014), by Florida Workforce Region.



Source: Florida Department of Economic Opportunity, Bureau of Labor Market Statistics, Quarterly Census of Employment and Wages Program (QCEW), in cooperation with the U.S. Department of Labor, Bureau of Labor Statistics. Released September 2014.

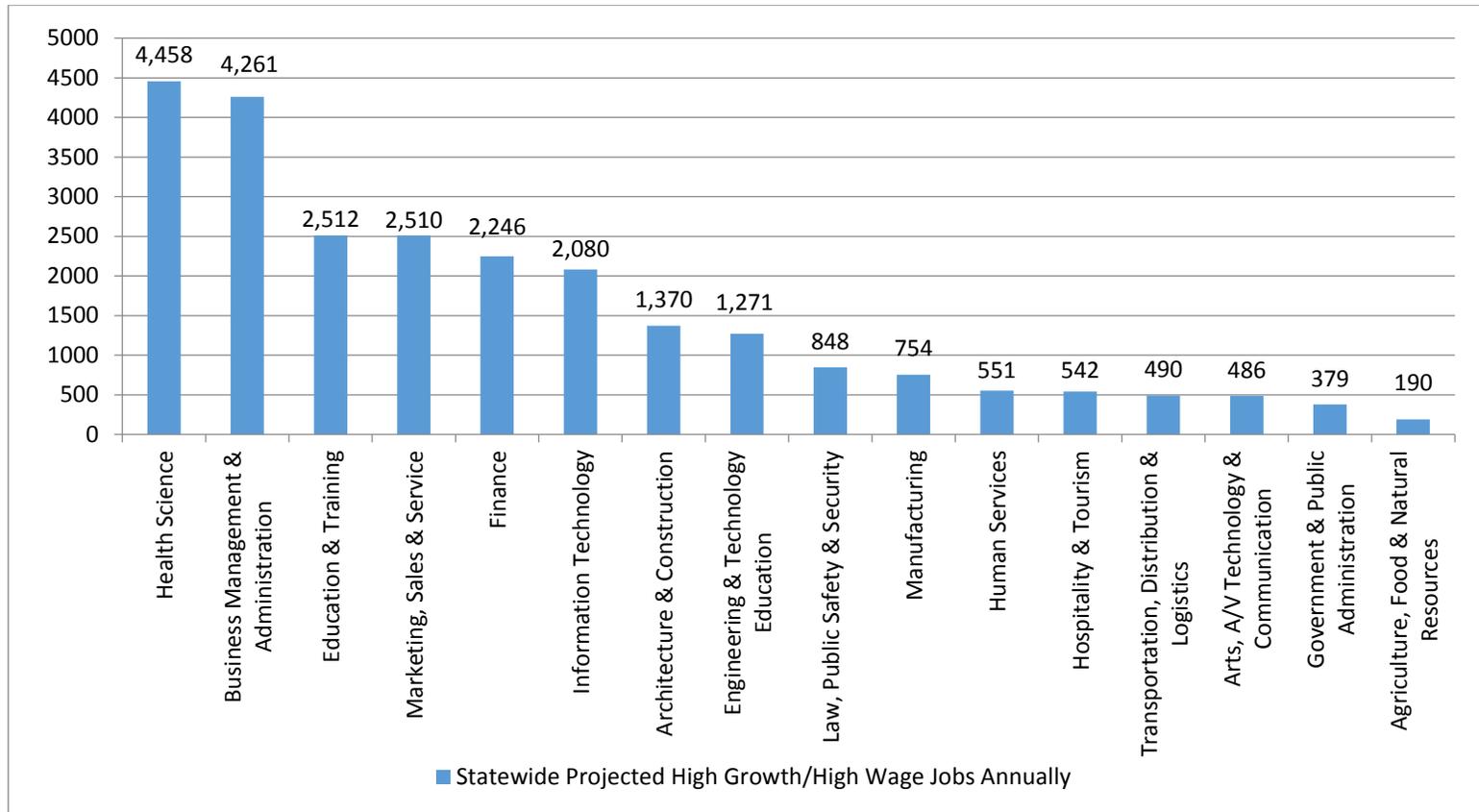
About one-quarter (25.2 percent) of projected new openings will be in occupations that are classified as high-wage. The distribution of projected openings in high-wage occupations is fairly consistent across the state, ranging from 20 percent in Workforce Region 4 to 31 percent in Workforce Region 16.

## CTE Career Clusters associated with high-growth, high-wage occupations

As shown in Figure 3 (below), Health Science is the Florida CTE Career Cluster associated with the greatest number of projected annual high-growth, high-wage job openings statewide between 2014 and 2022 (4,458 projected openings annually). This is followed closely by the Business Management & Administration cluster, which has a projected 4,261 annual job openings.

Other Florida CTE Career Clusters with relatively large numbers of projected high-growth, high-wage job openings are Education & Training; Finance; Information Technology; and Marketing, Sales & Service. Each of these clusters is projected to see an increase in high-growth, high-wage job openings of more than 2,000 annually.

Figure 3. Total number of annual projected high growth/high wage job openings in Florida (2014–2022), by CTE Career Cluster

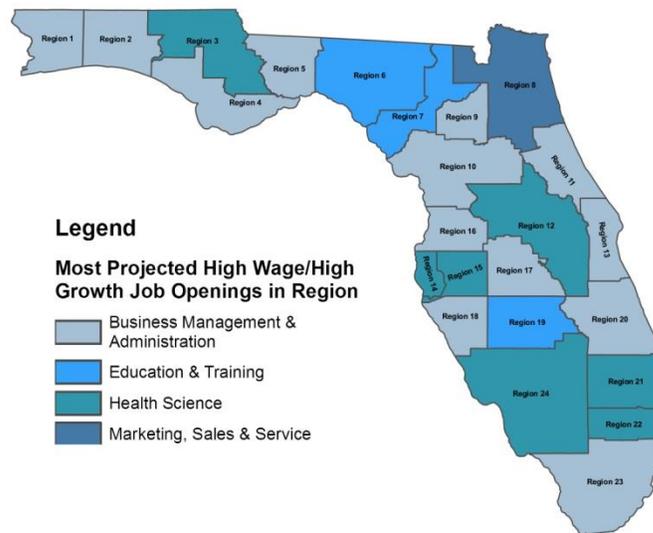


Source: Florida Department of Economic Opportunity, Bureau of Labor Market Statistics, Quarterly Census of Employment and Wages Program (QCEW), in cooperation with the U.S. Department of Labor, Bureau of Labor Statistics. Released September 2014.

Which CTE Career Cluster is associated with the most high-growth, high-wage job openings varies by Workforce Region. As Figure 4 indicates, in more than half of the regions (N=13), Business Management & Administration is the Career Cluster most commonly associated with new high-growth, high-wage jobs. The next most common cluster is Health Science (N=7 regions). In the remaining Workforce Regions, the Career Cluster that has the most projected high-growth and high-wage openings is Education & Training (N=3 regions) or Marketing, Sales & Service (N=1 region).

The appendix provides more detailed information on which occupations are high-growth and high-wage in each region, along with the projected average annual openings, 2014 average wage, minimum education or preparation needed, and associated CTE Career Cluster. Additionally, Table A1 summarizes the information included in all of the preceding maps (Figures 1, 2, and 4).

Figure 4. CTE Career Clusters with the most projected high-growth/high-wage job openings, by Florida Workforce Region.



Source: Florida Department of Economic Opportunity, Bureau of Labor Market Statistics, Quarterly Census of Employment and Wages Program (QCEW), in cooperation with the U.S. Department of Labor, Bureau of Labor Statistics. Released September 2014.

## Conclusions

The findings from this report identify what occupations are projected to be high-growth and high-wage in each of Florida's 24 Workforce Regions, along with the

corresponding CTE Career Cluster for each occupation. The findings from this report should be used in conjunction with resources provided by local agencies such as the Florida Department of Economic Opportunity and the Florida Department of Education, as well as national resources from the U.S. Bureau of Labor Statistics. This information can be used by educators to identify which Career Clusters they should be offering, expanding, or otherwise modifying in order to ensure that students are prepared for opportunities in high-wage, high-growth careers. This is important because one of the primary purposes of career and technical education according to the Perkins Act is to prepare students for “high wage, or high demand occupations in current or emerging professions” (Perkins, Sec. 2-1). The results also may be of interest to K-12 and postsecondary administrators as they prioritize CTE Career Clusters to add or expand in their CTE programs.

## Appendix

The appendix includes tables for each of Florida's 24 Workforce Regions on the occupations that are classified as high-growth and high-wage. For each occupation, the tables list the average annual openings projected, 2014 average wage, minimum level of education generally needed to enter this occupation, and the associated Florida CTE Career Cluster.

Table A 1. High-growth/high-wage jobs in Workforce Region 1 by number of projected annual job openings: 2014–2022.

<b>Workforce Region 1</b>					
<b>SOC</b>	<b>Occupational Title</b>	<b>Projected Annual Openings (ave.)</b>	<b>Average Wage (2014)</b>	<b>Minimum Education</b>	<b>Associated Florida CTE Career Cluster</b>
291141	Registered Nurses	172	\$ 54,766	Associate's	Health Science
431011	First-Line Superv. of Office and Admin. Support Workers	75	\$ 48,006	Associate's	Business Mgt. & Admin.
252021	Elementary School Teachers, Except Special Education	70	\$ 63,606	Bachelor's	Education & Training
413099	Sales Representatives, Services, All Other	64	\$ 50,565	High School	Marketing, Sales & Service
414012	Sales Representatives, Wholesale and Manufacturing, Other	55	\$ 50,357	Vocational	Marketing, Sales & Service
131199	Business Operations Specialists, All Other	52	\$ 60,029	Associate's	Business Mgt. & Admin.
132011	Accountants and Auditors	51	\$ 67,954	Bachelor's	Business Mgt. & Admin.
253099	Teachers and Instructors, All Other	40	\$ 71,053	Bachelor's	Education & Training
252031	Secondary School Teachers, Exc. Special and Voc. Ed.	39	\$ 65,333	Bachelor's	Education & Training
111021	General and Operations Managers	36	\$ 103,043	Associate's	Business Mgt. & Admin.
231011	Lawyers	36	\$ 111,654	Master's (+)	Law, Public Safety & Security
413021	Insurance Sales Agents	34	\$ 74,069	Vocational	Finance
252022	Middle School Teachers, Exc. Special & Voc. Education	32	\$ 63,170	Bachelor's	Education & Training

## Workforce Region 1

SOC	Occupational Title	Projected Annual Openings (ave.)	Average Wage (2014)	Minimum Education	Associated Florida CTE Career Cluster
471011	First-Line Superv. of Construction and Extraction Workers	32	\$ 53,789	Associate's	Architecture & Construction
132072	Loan Officers	31	\$ 73,798	Associate's	Finance
131111	Management Analysts	30	\$ 83,574	Bachelor's	Business Mgt. & Admin.
499051	Electrical Power-Line Installers and Repairers	24	\$ 50,939	Vocational	Architecture & Construction
119021	Construction Managers	23	\$ 82,784	Associate's	Architecture & Construction
491011	First-Line Superv. of Mechanics, Installers, and Repairers	20	\$ 62,254	Vocational	Manufacturing
493011	Aircraft Mechanics and Service Technicians	20	\$ 54,330	Vocational	Transportation, Distribution & Logistics
131051	Cost Estimators	18	\$ 53,872	Associate's	Architecture & Construction
151132	Software Developers, Applications	18	\$ 70,450	Associate's	Information Technology
291051	Pharmacists	17	\$ 120,182	Master's (+)	Health Science
413031	Securities and Financial Services Sales Agents	17	\$ 77,792	Bachelor's	Finance
259031	Instructional Coordinators	16	\$ 54,933	Master's (+)	Education & Training
131071	Human Resources Specialists	15	\$ 49,525	Bachelor's	Business Mgt. & Admin.
252012	Kindergarten Teachers, Except Special Education	15	\$ 60,674	Bachelor's	Education & Training
499041	Industrial Machinery Mechanics	15	\$ 49,005	Vocational	Manufacturing
292021	Dental Hygienists	14	\$ 52,478	Associate's	Health Science

## Workforce Region 1

SOC	Occupational Title	Projected Annual Openings (ave.)	Average Wage (2014)	Minimum Education	Associated Florida CTE Career Cluster
532012	Commercial Pilots	14	\$ 121,410	Vocational	Finance
131161	Market Research Analysts and Marketing Specialists	13	\$ 66,227	Bachelor's	Business Mgt. & Admin.
291069	Physicians and Surgeons, All Other	13	\$ 236,205	Master's (+)	Health Science
291123	Physical Therapists	12	\$ 82,846	Master's (+)	Health Science
291062	Family and General Practitioners	11	\$ 154,544	Master's (+)	Health Science
292034	Radiologic Technologists	11	\$ 50,419	Vocational	Health Science
131081	Logisticians	10	\$ 72,675	Bachelor's	Transportation, Distribution & Logistics
131151	Training and Development Specialists	10	\$ 50,170	Bachelor's	Business Mgt. & Admin.
151143	Computer Network Architects	9	\$ 75,920	Vocational	Information Technology
291171	Nurse Practitioners	9	\$ 87,069	Master's (+)	Health Science
151134	Web Developers	8	\$ 44,658	Vocational	Information Technology
151142	Network and Computer Systems Architects and Admins.	8	\$ 65,021	Associate's	Information Technology
211091	Health Educators	8	\$ 44,637	Bachelor's	Health Science
291126	Respiratory Therapists	8	\$ 51,334	Associate's	Health Science

Table A 2. High-growth/high-wage jobs in Workforce Region 2 by number of projected annual job openings: 2014–2022.

<b>Workforce Region 2</b>					
<b>SOC</b>	<b>Occupational Title</b>	<b>Projected Annual Openings (ave.)</b>	<b>Average Wage (2014)</b>	<b>Minimum Education</b>	<b>Associated Florida CTE Career Cluster</b>
291141	Registered Nurses	57	\$ 56,285	Associate's	Health Science
131199	Business Operations Specialists, All Other	50	\$ 67,579	Associate's	Business Mgt. & Admin.
431011	First-Line Superv. of Office and Admin. Support Workers	36	\$ 47,112	Associate's	Business Mgt. & Admin.
132011	Accountants and Auditors	27	\$ 72,218	Bachelor's	Business Mgt. & Admin.
252031	Secondary School Teachers, Exc. Special and Voc. Ed.	24	\$ 63,357	Bachelor's	Education & Training
119141	Property, Real Estate & Community Association Managers	21	\$ 53,061	Associate's	Business Mgt. & Admin.
472111	Electricians	20	\$ 47,154	Vocational	Architecture & Construction
173023	Electrical and Electronic Engineering Technicians	18	\$ 59,925	Associate's	Engineering & Technology Education
252022	Middle School Teachers, Exc. Special & Voc. Education	18	\$ 61,880	Bachelor's	Education & Training
471011	First-Line Superv. of Construction and Extraction Workers	17	\$ 50,149	Associate's	Architecture & Construction
151132	Software Developers, Applications	16	\$ 85,488	Associate's	Information Technology
172071	Electrical Engineers	15	\$ 94,661	Bachelor's	Engineering & Technology Education

## Workforce Region 2

SOC	Occupational Title	Projected Annual Openings (ave.)	Average Wage (2014)	Minimum Education	Associated Florida CTE Career Cluster
119021	Construction Managers	14	\$ 79,061	Associate's	Architecture & Construction
231011	Lawyers	14	\$ 91,936	Master's (+)	Law, Public Safety & Security
413021	Insurance Sales Agents	14	\$ 62,982	Vocational	Finance
132072	Loan Officers	13	\$ 61,090	Associate's	Finance
151133	Software Developers, Systems Engineering & Technology Software	13	\$ 99,570	Bachelor's	Information Technology
291069	Physicians and Surgeons, All Other	12	\$ 182,645	Master's (+)	Health Science
119041	Engineering Managers	11	\$ 117,707	Bachelor's	Business Mgt. & Admin.
172112	Industrial Engineers	11	\$ 78,874	Bachelor's	Engineering & Technology Education
291062	Family and General Practitioners	11	\$ 189,155	Master's (+)	Health Science
131081	Logisticians	10	\$ 76,024	Bachelor's	Transportation, Distribution & Logistics
113021	Computer and Information Systems Engineering & Technology Managers	9	\$ 96,200	Bachelor's	Information Technology
151121	Computer Systems Engineering & Technology Analysts	9	\$ 92,040	Associate's	Information Technology
172051	Civil Engineers	9	\$ 88,254	Bachelor's	Engineering & Technology Education
413031	Securities and Financial Services Sales Agents	9	\$ 78,978	Bachelor's	Finance

## Workforce Region 2

<b>SOC</b>	<b>Occupational Title</b>	<b>Projected Annual Openings (ave.)</b>	<b>Average Wage (2014)</b>	<b>Minimum Education</b>	<b>Associated Florida CTE Career Cluster</b>
131051	Cost Estimators	8	\$ 53,747	Associate's	Architecture & Construction
131151	Training and Development Specialists	7	\$ 76,710	Bachelor's	Business Mgt. & Admin.

Table A 3. High-growth/high-wage jobs in Workforce Region 3 by number of projected annual job openings: 2014–2022.

Workforce Region 3					
SOC	Occupational Title	Projected Annual Openings (ave.)	Average Wage (2014)	Minimum Education	Associated Florida CTE Career Cluster
291141	Registered Nurses	21	\$ 54,746	Associate's	Health Science
252021	Elementary School Teachers, Except Special Education	15	\$ 60,216	Bachelor's	Education & Training

Table A 4. High-growth/high-wage jobs in Workforce Region 4 by number of projected annual job openings: 2014–2022.

<b>Workforce Region 4</b>					
<b>SOC</b>	<b>Occupational Title</b>	<b>Projected Annual Openings (ave.)</b>	<b>Average Wage (2014)</b>	<b>Minimum Education</b>	<b>Associated Florida CTE Career Cluster</b>
431011	First-Line Superv. of Office and Admin. Support Workers	36	\$ 44,616	Associate's	Business Mgt. & Admin.
252021	Elementary School Teachers, Except Special Education	30	\$ 53,123	Bachelor's	Education & Training
413099	Sales Representatives, Services, All Other	29	\$ 48,173	High School	Marketing, Sales & Service
131199	Business Operations Specialists, All Other	21	\$ 64,896	Associate's	Business Mgt. & Admin.
471011	First-Line Superv. of Construction and Extraction Workers	21	\$ 52,582	Associate's	Architecture & Construction
491011	First-Line Superv. of Mechanics, Installers, and Repairers	21	\$ 45,989	Vocational	Manufacturing
132011	Accountants and Auditors	19	\$ 78,478	Bachelor's	Business Mgt. & Admin.
172051	Civil Engineers	16	\$ 96,408	Bachelor's	Technology & Engineering
252022	Middle School Teachers, Exc. Special & Voc. Education	14	\$ 53,082	Bachelor's	Education & Training
493011	Aircraft Mechanics and Service Technicians	13	\$ 53,227	Vocational	Transportation, Distribution & Logistics
131111	Management Analysts	12	\$ 68,661	Bachelor's	Business Mgt. & Admin.
119021	Construction Managers	10	\$ 73,986	Associate's	Architecture & Construction
231011	Lawyers	10	\$ 122,990	Master's (+)	Law, Public Safety & Security

### Workforce Region 4

SOC	Occupational Title	Projected Annual Openings (ave.)	Average Wage (2014)	Minimum Education	Associated Florida CTE Career Cluster
413021	Insurance Sales Agents	10	\$ 62,067	Vocational	Finance
291069	Physicians and Surgeons, All Other	9	\$ 224,162	Master's (+)	Health Science
131051	Cost Estimators	7	\$ 51,667	Associate's	Architecture & Construction

Table A 5. High-growth/high-wage jobs in Workforce Region 5 by number of projected annual job openings: 2014–2022.

<b>Workforce Region 5</b>					
<b>SOC</b>	<b>Occupational Title</b>	<b>Projected Annual Openings (ave.)</b>	<b>Average Wage (2014)</b>	<b>Minimum Education</b>	<b>Associated Florida CTE Career Cluster</b>
131199	Business Operations Specialists, All Other	77	\$ 63,523	Associate's	Business Mgt. & Admin.
413099	Sales Representatives, Services, All Other	55	\$ 55,203	High School	Marketing, Sales & Service
252021	Elementary School Teachers, Except Special Education	33	\$ 58,843	Bachelor's	Education & Training
151143	Computer Network Architects	29	\$ 62,421	Vocational	Information Technology
151121	Computer Systems Analysts	28	\$ 84,760	Associate's	Information Technology
251199	Postsecondary Teachers, All Other	28	\$ 54,538	Associate's	Education & Training
273031	Public Relations Specialists	26	\$ 57,304	Bachelor's	Business Mgt. & Admin.
471011	First-Line Superv. of Construction and Extraction Workers	22	\$ 51,542	Associate's	Architecture & Construction
253099	Teachers and Instructors, All Other	21	\$ 47,258	Bachelor's	Education & Training
131071	Human Resources Specialists	20	\$ 52,166	Bachelor's	Business Mgt. & Admin.
151132	Software Developers, Applications	20	\$ 72,259	Associate's	Information Technology
151142	Network and Computer Systems Architects and Admins.	20	\$ 66,227	Associate's	Information Technology
252022	Middle School Teachers, Exc. Special & Voc. Education	20	\$ 58,074	Bachelor's	Education & Training

## Workforce Region 5

SOC	Occupational Title	Projected Annual Openings (ave.)	Average Wage (2014)	Minimum Education	Associated Florida CTE Career Cluster
251071	Health Specialties Teachers, Postsecondary	18	\$ 91,458	Master's (+)	Health Science
131161	Market Research Analysts and Marketing Specialists	17	\$ 54,891	Bachelor's	Business Mgt. & Admin.
251011	Business Teachers, Postsecondary	17	\$ 161,179	Bachelor's	Finance
259031	Instructional Coordinators	17	\$ 54,621	Master's (+)	Education & Training
291051	Pharmacists	17	\$ 108,472	Master's (+)	Health Science
272022	Coaches and Scouts	15	\$ 92,310	High School	Hospitality & Tourism
119021	Construction Managers	14	\$ 75,899	Associate's	Architecture & Construction
211012	Educational, Vocational, and School Counselors	14	\$ 49,691	Master's (+)	Human Services
132072	Loan Officers	13	\$ 71,635	Associate's	Finance
131151	Training and Development Specialists	12	\$ 49,858	Bachelor's	Business Mgt. & Admin.
291069	Physicians and Surgeons, All Other	11	\$ 248,539	Master's (+)	Health Science
292021	Dental Hygienists	10	\$ 56,472	Associate's	Health Science
292034	Radiologic Technologists	10	\$ 49,650	Vocational	Health Science
151141	Database Administrators	9	\$ 64,126	Associate's	Information Technology
131051	Cost Estimators	8	\$ 60,757	Associate's	Architecture & Construction
132052	Personal Financial Advisors	8	\$ 51,792	Bachelor's	Finance
291123	Physical Therapists	8	\$ 84,906	Master's (+)	Health Science

Table A 6. High-growth/high-wage jobs in Workforce Region 6 by number of projected annual job openings: 2014–2022.

<b>Workforce Region 6</b>					
<b>SOC</b>	<b>Occupational Title</b>	<b>Projected Annual Openings (ave.)</b>	<b>Average Wage (2014)</b>	<b>Minimum Education</b>	<b>Associated Florida CTE Career Cluster</b>
252021	Elementary School Teachers, Except Special Education	16	\$ 64,875	Bachelor's	Education & Training
291141	Registered Nurses	14	\$ 60,757	Associate's	Health Science

Table A 7. High-growth/high-wage jobs in Workforce Region 7 by number of projected annual job openings: 2014–2022.

<b>Workforce Region 7</b>					
<b>SOC</b>	<b>Occupational Title</b>	<b>Projected Annual Openings (ave.)</b>	<b>Average Wage (2014)</b>	<b>Minimum Education</b>	<b>Associated Florida CTE Career Cluster</b>
252021	Elementary School Teachers, Except Special Education	21	\$ 64,875	Bachelor's	Education & Training
291141	Registered Nurses	20	\$ 60,757	Associate's	Health Science
431011	First-Line Superv. of Office and Admin. Support Workers	13	\$ 45,011	Associate's	Business Mgt. & Admin.

Table A 8. High-growth/high-wage jobs in Workforce Region 8 by number of projected annual job openings: 2014–2022.

<b>Workforce Region 8</b>					
<b>SOC</b>	<b>Occupational Title</b>	<b>Projected Annual Openings (ave.)</b>	<b>Average Wage (2014)</b>	<b>Minimum Education</b>	<b>Associated Florida CTE Career Cluster</b>
413099	Sales Representatives, Services, All Other	268	\$ 53,706	High School	Marketing, Sales & Service
111021	General and Operations Managers	148	\$ 117,957	Associate's	Business Mgt. & Admin.
252031	Secondary School Teachers, Exc. Special and Voc. Ed.	96	\$ 66,602	Bachelor's	Education & Training
411012	First-Line Supervisors of Non-Retail Sales Workers	72	\$ 85,114	Associate's	Marketing, Sales & Service
119141	Property, Real Estate & Community Association Managers	56	\$ 57,970	Associate's	Business Mgt. & Admin.
252012	Kindergarten Teachers, Except Special Education	52	\$ 64,272	Bachelor's	Education & Training
151131	Computer Programmers	51	\$ 71,302	Vocational	Information Technology
112022	Sales Managers	50	\$ 136,448	Bachelor's	Marketing, Sales & Service
113031	Financial Managers	46	\$ 128,315	Bachelor's	Finance
151152	Computer Network Support Specialists	45	\$ 65,978	Vocational	Information Technology
172051	Civil Engineers	44	\$ 84,552	Bachelor's	Technology & Engineering
131023	Purchasing Agents, Except Farm Products & Trade	40	\$ 59,738	Associate's	Manufacturing
132041	Credit Analysts	40	\$ 69,243	Vocational	Finance
152031	Operations Research Analysts	39	\$ 56,888	Master's (+)	Business Mgt. & Admin.

## Workforce Region 8

SOC	Occupational Title	Projected Annual Openings (ave.)	Average Wage (2014)	Minimum Education	Associated Florida CTE Career Cluster
172112	Industrial Engineers	39	\$ 82,347	Bachelor's	Technology & Engineering
499051	Electrical Power-Line Installers and Repairers	35	\$ 55,578	Vocational	Architecture & Construction
273031	Public Relations Specialists	34	\$ 55,245	Bachelor's	Business Mgt. & Admin.
119111	Medical and Health Services Managers	33	\$ 102,981	Bachelor's	Business Mgt. & Admin.
173023	Electrical and Electronic Engineering Technicians	32	\$ 59,571	Associate's	Technology & Engineering
211012	Educational, Vocational, and School Counselors	32	\$ 61,027	Master's (+)	Human Services
113011	Administrative Services Managers	30	\$ 100,818	Associate's	Business Mgt. & Admin.
151141	Database Administrators	30	\$ 83,304	Associate's	Information Technology
291126	Respiratory Therapists	29	\$ 53,706	Associate's	Health Science
291071	Physician Assistants	27	\$ 96,262	Bachelor's	Health Science
119051	Food Service Managers	25	\$ 57,096	Associate's	Hospitality & Tourism
193031	Clinical, Counseling, and School Psychologists	25	\$ 81,952	Master's (+)	Human Services
132099	Financial Specialists, All Other	24	\$ 64,792	Vocational	Finance
259031	Instructional Coordinators	23	\$ 54,870	Master's (+)	Education & Training
474011	Construction and Building Inspectors	23	\$ 55,016	Vocational	Architecture & Construction
119041	Engineering Managers	22	\$ 123,594	Bachelor's	Business Mgt. & Admin.
131041	Compliance Officers, Exc. Safety, Agri, Constr & Transp.	22	\$ 63,357	Vocational	Government & Public Administration

## Workforce Region 8

SOC	Occupational Title	Projected Annual Openings (ave.)	Average Wage (2014)	Minimum Education	Associated Florida CTE Career Cluster
172071	Electrical Engineers	22	\$ 87,776	Bachelor's	Technology & Engineering
292011	Medical and Clinical Laboratory Technologists	22	\$ 58,822	Associate's	Health Science
112021	Marketing Managers	20	\$ 127,005	Bachelor's	Marketing, Sales & Service
291127	Speech and Language Pathologists	20	\$ 87,006	Master's (+)	Health Science
312021	Physical Therapist Assistants	19	\$ 65,978	Associate's	Health Science
254021	Librarians	18	\$ 61,360	Master's (+)	Education & Training
292032	Diagnostic Medical Sonographers	17	\$ 62,858	Vocational	Health Science
171011	Architects, Except Landscape and Naval	16	\$ 73,466	Master's (+)	Architecture & Construction
251199	Postsecondary Teachers, All Other	16	\$ 68,848	Associate's	Education & Training
251011	Business Teachers, Postsecondary	15	\$ 115,648	Bachelor's	Finance
252053	Special Education Teachers, Middle School	15	\$ 63,877	Bachelor's	Education & Training
291199	Health Diagnosing and Treating Practitioners, All Other	15	\$ 68,078	Master's (+)	Health Science
272012	Producers and Directors	14	\$ 55,411	Bachelor's	Arts, A/V Technology & Communication
291131	Veterinarians	14	\$ 93,558	Master's (+)	Agriculture, Food & Natural Resources
113051	Industrial Production Managers	13	\$ 106,246	Associate's	Business Mgt. & Admin.
151199	Computer Occupations, All Other	13	\$ 72,821	Vocational	Information Technology

## Workforce Region 8

SOC	Occupational Title	Projected Annual Openings (ave.)	Average Wage (2014)	Minimum Education	Associated Florida CTE Career Cluster
291067	Surgeons	13	\$ 250,494	Master's (+)	Health Science
292035	Magnetic Resonance Imaging Technologists	12	\$ 62,525	Vocational	Health Science
191042	Medical Scientists, Except Epidemiologists	11	\$ 72,883	Master's (+)	Health Science
251121	Art, Drama, and Music Teachers, Postsecondary	11	\$ 81,099	Master's (+)	Arts, A/V Technology & Communication
291063	Internists, General	11	\$ 213,886	Master's (+)	Health Science
251022	Mathematical Science Teachers, Postsecondary	10	\$ 79,123	Master's (+)	Technology & Engineering
251069	Social Sciences Teachers, Postsecondary, All Other	10	\$ 59,550	Master's (+)	Human Services
251072	Nursing Instructors and Teachers, Postsecondary	10	\$ 89,586	Master's (+)	Health Science
172061	Computer Hardware Engineers	9	\$ 92,144	Bachelor's	Technology & Engineering
251081	Education Teachers, Postsecondary	9	\$ 101,774	Master's (+)	Education & Training
251123	English Language & Literature Teachers, Postsecondary	9	\$ 78,478	Master's (+)	Education & Training

Table A 9. High-growth/high-wage jobs in Workforce Region 9 by number of projected annual job openings: 2014–2022.

<b>Workforce Region 9</b>					
<b>SOC</b>	<b>Occupational Title</b>	<b>Projected Annual Openings (ave.)</b>	<b>Average Wage (2014)</b>	<b>Minimum Education</b>	<b>Associated Florida CTE Career Cluster</b>
132011	Accountants and Auditors	48	\$ 59,405	Bachelor's	Business Mgt. & Admin.
252021	Elementary School Teachers, Except Special Education	40	\$ 58,198	Bachelor's	Education & Training
431011	First-Line Superv. of Office and Admin. Support Workers	40	\$ 49,462	Associate's	Business Mgt. & Admin.
273031	Public Relations Specialists	28	\$ 53,622	Bachelor's	Business Mgt. & Admin.
151143	Computer Network Architects	27	\$ 58,427	Vocational	Information Technology
131161	Market Research Analysts and Marketing Specialists	26	\$ 58,906	Bachelor's	Business Mgt. & Admin.
231011	Lawyers	25	\$ 109,762	Master's (+)	Law, Public Safety & Security
413099	Sales Representatives, Services, All Other	25	\$ 58,344	High School	Marketing, Sales & Service
111021	General and Operations Managers	24	\$ 106,766	Associate's	Business Mgt. & Admin.
471011	First-Line Superv. of Construction and Extraction Workers	21	\$ 57,408	Associate's	Architecture & Construction
291051	Pharmacists	20	\$ 104,208	Master's (+)	Health Science
413021	Insurance Sales Agents	20	\$ 61,651	Vocational	Finance
252022	Middle School Teachers, Exc. Special & Voc. Education	19	\$ 56,326	Bachelor's	Education & Training

## Workforce Region 9

SOC	Occupational Title	Projected Annual Openings (ave.)	Average Wage (2014)	Minimum Education	Associated Florida CTE Career Cluster
131111	Management Analysts	18	\$ 86,154	Bachelor's	Business Mgt. & Admin.
151132	Software Developers, Applications	17	\$ 58,344	Associate's	Information Technology
132053	Insurance Underwriters	14	\$ 62,774	Vocational	Finance
151121	Computer Systems Analysts	14	\$ 80,184	Associate's	Information Technology
259031	Instructional Coordinators	14	\$ 51,979	Master's (+)	Education & Training
119021	Construction Managers	13	\$ 70,346	Associate's	Architecture & Construction
292021	Dental Hygienists	13	\$ 55,702	Associate's	Health Science
131051	Cost Estimators	12	\$ 51,501	Associate's	Architecture & Construction
131071	Human Resources Specialists	12	\$ 51,834	Bachelor's	Business Mgt. & Admin.
291122	Occupational Therapists	12	\$ 62,504	Master's (+)	Health Science
291123	Physical Therapists	12	\$ 77,189	Master's (+)	Health Science
414011	Sales Representatives, Wholesale & Mfg, Tech. & Sci. Prod.	11	\$ 71,198	Vocational	Marketing, Sales & Service
291062	Family and General Practitioners	9	\$ 132,787	Master's (+)	Health Science
291171	Nurse Practitioners	9	\$ 66,352	Master's (+)	Health Science
131041	Compliance Officers, Exc. Safety, Agri, Constr & Transp.	7	\$ 52,499	Vocational	Government & Public Administration

Table A 10. High-growth/high-wage jobs in Workforce Region 10 by number of projected annual job openings: 2014–2022.

<b>Workforce Region 10</b>					
<b>SOC</b>	<b>Occupational Title</b>	<b>Projected Annual Openings (ave.)</b>	<b>Average Wage (2014)</b>	<b>Minimum Education</b>	<b>Associated Florida CTE Career Cluster</b>
414012	Sales Representatives, Wholesale and Manufacturing, Other	57	\$ 52,770	Vocational	Marketing, Sales & Service
431011	First-Line Superv. of Office and Admin. Support Workers	56	\$ 44,595	Associate's	Business Mgt. & Admin.
472111	Electricians	45	\$ 41,704	Vocational	Architecture & Construction
132011	Accountants and Auditors	40	\$ 69,035	Bachelor's	Business Mgt. & Admin.
413099	Sales Representatives, Services, All Other	37	\$ 49,982	High School	Marketing, Sales & Service
471011	First-Line Superv. of Construction and Extraction Workers	37	\$ 49,317	Associate's	Architecture & Construction
131199	Business Operations Specialists, All Other	31	\$ 54,912	Associate's	Business Mgt. & Admin.
252022	Middle School Teachers, Exc. Special & Voc. Education	27	\$ 64,958	Bachelor's	Education & Training
413021	Insurance Sales Agents	26	\$ 72,717	Vocational	Finance
333051	Police and Sheriff's Patrol Officers	25	\$ 42,640	Vocational	Law, Public Safety & Security
111021	General and Operations Managers	24	\$ 105,123	Associate's	Business Mgt. & Admin.
291051	Pharmacists	21	\$ 106,038	Master's (+)	Health Science
491011	First-Line Superv. of Mechanics, Installers, and Repairers	21	\$ 57,429	Vocational	Manufacturing

## Workforce Region 10

SOC	Occupational Title	Projected Annual Openings (ave.)	Average Wage (2014)	Minimum Education	Associated Florida CTE Career Cluster
514121	Welders, Cutters, Solderers, and Brazers	19	\$ 42,120	Vocational	Architecture & Construction
131051	Cost Estimators	18	\$ 46,134	Associate's	Architecture & Construction
119021	Construction Managers	16	\$ 79,435	Associate's	Architecture & Construction
131071	Human Resources Specialists	15	\$ 48,776	Bachelor's	Business Mgt. & Admin.
231011	Lawyers	15	\$ 94,682	Master's (+)	Law, Public Safety & Security
291123	Physical Therapists	15	\$ 91,104	Master's (+)	Health Science
312021	Physical Therapist Assistants	14	\$ 63,835	Associate's	Health Science
291127	Speech and Language Pathologists	13	\$ 92,456	Master's (+)	Health Science
292021	Dental Hygienists	13	\$ 61,069	Associate's	Health Science
499041	Industrial Machinery Mechanics	13	\$ 45,490	Vocational	Manufacturing
291171	Nurse Practitioners	12	\$ 87,942	Master's (+)	Health Science
252012	Kindergarten Teachers, Except Special Education	11	\$ 72,176	Bachelor's	Education & Training
291122	Occupational Therapists	11	\$ 84,760	Master's (+)	Health Science
292034	Radiologic Technologists	11	\$ 46,571	Vocational	Health Science
131161	Market Research Analysts and Marketing Specialists	10	\$ 46,883	Bachelor's	Business Mgt. & Admin.
291062	Family and General Practitioners	10	\$ 151,528	Master's (+)	Health Science
292031	Cardiovascular Technologists and Technicians	9	\$ 49,109	Vocational	Health Science

**Workforce Region 10**

<b>SOC</b>	<b>Occupational Title</b>	<b>Projected Annual Openings (ave.)</b>	<b>Average Wage (2014)</b>	<b>Minimum Education</b>	<b>Associated Florida CTE Career Cluster</b>
291071	Physician Assistants	8	\$ 111,176	Bachelor's	Health Science
312011	Occupational Therapist Assistants	8	\$ 65,229	Associate's	Health Science

Table A 11. High-growth/high-wage jobs in Workforce Region 11 by number of projected annual job openings: 2014–2022.

<b>Workforce Region 11</b>					
<b>SOC</b>	<b>Occupational Title</b>	<b>Projected Annual Openings (ave.)</b>	<b>Average Wage (2014)</b>	<b>Minimum Education</b>	<b>Associated Florida CTE Career Cluster</b>
414012	Sales Representatives, Wholesale and Manufacturing, Other	61	\$ 47,570	Vocational	Marketing, Sales & Service
413099	Sales Representatives, Services, All Other	58	\$ 57,408	High School	Marketing, Sales & Service
132011	Accountants and Auditors	50	\$ 65,104	Bachelor's	Business Mgt. & Admin.
131199	Business Operations Specialists, All Other	44	\$ 55,910	Associate's	Business Mgt. & Admin.
333051	Police and Sheriff's Patrol Officers	41	\$ 41,600	Vocational	Law, Public Safety & Security
252022	Middle School Teachers, Exc. Special & Voc. Education	32	\$ 61,027	Bachelor's	Education & Training
252031	Secondary School Teachers, Exc. Special and Voc. Ed.	31	\$ 63,586	Bachelor's	Education & Training
111021	General and Operations Managers	28	\$ 104,624	Associate's	Business Mgt. & Admin.
291051	Pharmacists	26	\$ 110,178	Master's (+)	Health Science
231011	Lawyers	25	\$ 75,483	Master's (+)	Law, Public Safety & Security
131111	Management Analysts	24	\$ 74,214	Bachelor's	Business Mgt. & Admin.
119021	Construction Managers	23	\$ 82,202	Associate's	Architecture & Construction

## Workforce Region 11

SOC	Occupational Title	Projected Annual Openings (ave.)	Average Wage (2014)	Minimum Education	Associated Florida CTE Career Cluster
119141	Property, Real Estate & Community Association Managers	21	\$ 52,478	Associate's	Business Mgt. & Admin.
131051	Cost Estimators	21	\$ 54,371	Associate's	Architecture & Construction
131071	Human Resources Specialists	20	\$ 47,736	Bachelor's	Business Mgt. & Admin.
252052	Special Education Teachers, Kindergarten and Elementary	20	\$ 64,106	Bachelor's	Education & Training
491011	First-Line Superv. of Mechanics, Installers, and Repairers	20	\$ 55,245	Vocational	Manufacturing
371012	First-Line Superv. Landscaping & Groundskeeping Workers	19	\$ 42,827	Vocational	Agriculture, Food & Natural Resources
413031	Securities and Financial Services Sales Agents	18	\$ 68,224	Bachelor's	Finance
131161	Market Research Analysts and Marketing Specialists	17	\$ 56,826	Bachelor's	Business Mgt. & Admin.
291069	Physicians and Surgeons, All Other	17	\$ 212,950	Master's (+)	Health Science
291123	Physical Therapists	17	\$ 94,224	Master's (+)	Health Science
292021	Dental Hygienists	17	\$ 60,923	Associate's	Health Science
253099	Teachers and Instructors, All Other	15	\$ 72,592	Bachelor's	Education & Training
414011	Sales Representatives, Wholesale & Mfg, Tech. & Sci. Prod.	14	\$ 60,403	Vocational	Marketing, Sales & Service
492022	Telecommunications Equipment Installers and Repairers	14	\$ 43,909	Vocational	Manufacturing
211012	Educational, Vocational, and School Counselors	13	\$ 56,930	Master's (+)	Human Services

## Workforce Region 11

SOC	Occupational Title	Projected Annual Openings (ave.)	Average Wage (2014)	Minimum Education	Associated Florida CTE Career Cluster
291071	Physician Assistants	12	\$ 94,536	Bachelor's	Health Science
292034	Radiologic Technologists	12	\$ 49,920	Vocational	Health Science
119111	Medical and Health Services Managers	11	\$ 98,384	Bachelor's	Business Mgt. & Admin.
272022	Coaches and Scouts	11	\$ 56,742	High School	Hospitality & Tourism
291122	Occupational Therapists	11	\$ 71,718	Master's (+)	Health Science
291126	Respiratory Therapists	11	\$ 50,482	Associate's	Health Science
474011	Construction and Building Inspectors	11	\$ 46,155	Vocational	Architecture & Construction
291127	Speech and Language Pathologists	10	\$ 84,240	Master's (+)	Health Science
131151	Training and Development Specialists	9	\$ 48,859	Bachelor's	Business Mgt. & Admin.
151142	Network and Computer Systems Architects and Admins.	9	\$ 66,206	Associate's	Information Technology
292032	Diagnostic Medical Sonographers	9	\$ 65,770	Vocational	Health Science
312021	Physical Therapist Assistants	8	\$ 70,200	Associate's	Health Science

Table A 12. High-growth/high-wage jobs in Workforce Region 12 by number of projected annual job openings: 2014–2022.

<b>Workforce Region 12</b>						
<b>SOC</b>	<b>Occupational Title</b>	<b>Projected Annual Openings (ave.)</b>	<b>Average Wage (2014)</b>	<b>Minimum Education</b>	<b>Associated Florida CTE Career Cluster</b>	
151131	Computer Programmers	101	\$ 78,458	Vocational	Information Technology	
413031	Securities and Financial Services Sales Agents	87	\$ 63,586	Bachelor's	Finance	
273043	Writers and Authors	67	\$ 55,162	Bachelor's	Arts, A/V Technology & Communication	
131023	Purchasing Agents, Except Farm Products & Trade	66	\$ 60,258	Associate's	Manufacturing	
112021	Marketing Managers	59	\$ 118,248	Bachelor's	Marketing, Sales & Service	
511011	First-Line Superv. of Production and Operating Workers	59	\$ 56,202	Vocational	Manufacturing	
132051	Financial Analysts	58	\$ 75,795	Bachelor's	Finance	
419021	Real Estate Brokers	58	\$ 101,005	Vocational	Marketing, Sales & Service	
113021	Computer and Information Systems Managers	56	\$ 127,275	Bachelor's	Information Technology	
132099	Financial Specialists, All Other	53	\$ 62,442	Vocational	Finance	
272012	Producers and Directors	53	\$ 79,518	Bachelor's	Arts, A/V Technology & Communication	
531031	First-Line Superv. of Material-Moving Vehicle Operators	46	\$ 55,037	Vocational	Transportation, Distribution & Logistics	
152031	Operations Research Analysts	44	\$ 59,779	Master's (+)	Business Mgt. & Admin.	

## Workforce Region 12

SOC	Occupational Title	Projected Annual Openings (ave.)	Average Wage (2014)	Minimum Education	Associated Florida CTE Career Cluster
291021	Dentists, General	43	\$ 191,069	Master's (+)	Health Science
172071	Electrical Engineers	42	\$ 75,130	Bachelor's	Technology & Engineering
172112	Industrial Engineers	41	\$ 63,627	Bachelor's	Technology & Engineering
173023	Electrical and Electronic Engineering Technicians	38	\$ 52,666	Associate's	Technology & Engineering
131041	Compliance Officers, Exc. Safety, Agri, Constr & Transp.	36	\$ 60,674	Vocational	Government & Public Administration
492094	Electronics Repairers, Commercial and Industrial Equip.	36	\$ 53,019	Vocational	Manufacturing
351011	Chefs and Head Cooks	34	\$ 53,477	Vocational	Hospitality & Tourism
172141	Mechanical Engineers	33	\$ 71,219	Bachelor's	Technology & Engineering
251071	Health Specialties Teachers, Postsecondary	33	\$ 90,334	Master's (+)	Health Science
272022	Coaches and Scouts	33	\$ 54,142	High School	Hospitality & Tourism
291127	Speech and Language Pathologists	31	\$ 71,282	Master's (+)	Health Science
172072	Electronics Engineers, Except Computer	30	\$ 92,102	Bachelor's	Technology & Engineering
254021	Librarians	30	\$ 61,339	Master's (+)	Education & Training
132053	Insurance Underwriters	28	\$ 60,466	Vocational	Finance
172199	Engineers, All Other	28	\$ 87,568	Bachelor's	Technology & Engineering
291199	Health Diagnosing and Treating Practitioners, All Other	28	\$ 65,395	Master's (+)	Health Science
119032	Education Administrators, Elementary and Secondary	27	\$ 90,085	Bachelor's	Education & Training

## Workforce Region 12

SOC	Occupational Title	Projected Annual Openings (ave.)	Average Wage (2014)	Minimum Education	Associated Florida CTE Career Cluster
131131	Fundraisers	27	\$ 52,894	High School	Business Mgt. & Admin.
151122	Information Security Analysts	26	\$ 78,998	Vocational	Information Technology
273091	Interpreters and Translators	26	\$ 51,854	Associate's	Education & Training
291063	Internists, General	26	\$ 159,245	Master's (+)	Health Science
333021	Detectives and Criminal Investigators	26	\$ 63,086	Vocational	Law, Public Safety & Security
113121	Human Resources Managers	24	\$ 111,218	Bachelor's	Business Mgt. & Admin.
151199	Computer Occupations, All Other	24	\$ 76,253	Vocational	Information Technology
251022	Mathematical Science Teachers, Postsecondary	24	\$ 91,645	Master's (+)	Technology & Engineering
292031	Cardiovascular Technologists and Technicians	24	\$ 52,250	Vocational	Health Science
252054	Special Education Teachers, Secondary School	23	\$ 63,773	Bachelor's	Education & Training
271014	Multi-Media Artists and Animators	23	\$ 50,398	Associate's	Arts, A/V Technology & Communication
119081	Lodging Managers	22	\$ 62,338	Associate's	Hospitality & Tourism
273011	Radio and Television Announcers	22	\$ 57,221	Vocational	Arts, A/V Technology & Communication
291122	Occupational Therapists	22	\$ 83,845	Master's (+)	Health Science
211091	Health Educators	21	\$ 49,650	Bachelor's	Health Science
292035	Magnetic Resonance Imaging Technologists	21	\$ 63,710	Vocational	Health Science

## Workforce Region 12

SOC	Occupational Title	Projected Annual Openings (ave.)	Average Wage (2014)	Minimum Education	Associated Florida CTE Career Cluster
119151	Social and Community Service Managers	19	\$ 76,211	Associate's	Government & Public Administration
251081	Education Teachers, Postsecondary	19	\$ 92,123	Master's (+)	Education & Training
112031	Public Relations Managers	18	\$ 117,250	Bachelor's	Business Mgt. & Admin.
171022	Surveyors	18	\$ 61,714	Bachelor's	Technology & Engineering
291031	Dietitians and Nutritionists	18	\$ 51,875	Bachelor's	Health Science
291067	Surgeons	18	\$ 254,072	Master's (+)	Health Science
291131	Veterinarians	18	\$ 88,566	Master's (+)	Agriculture, Food & Natural Resources
172061	Computer Hardware Engineers	17	\$ 104,312	Bachelor's	Technology & Engineering
193039	Psychologists, All Other	17	\$ 112,382	Master's (+)	Human Services
251066	Psychology Teachers, Postsecondary	17	\$ 107,765	Master's (+)	Human Services
113051	Industrial Production Managers	16	\$ 98,426	Associate's	Business Mgt. & Admin.
211029	Social Workers, All Other	16	\$ 59,966	Bachelor's	Human Services
273042	Technical Writers	16	\$ 63,211	Bachelor's	Arts, A/V Technology & Communication
193051	Urban and Regional Planners	15	\$ 71,302	Bachelor's	Government & Public Administration
132041	Credit Analysts	14	\$ 63,565	Vocational	Finance

## Workforce Region 12

SOC	Occupational Title	Projected Annual Openings (ave.)	Average Wage (2014)	Minimum Education	Associated Florida CTE Career Cluster
251032	Engineering Teachers, Postsecondary	12	\$ 149,926	Master's (+)	Technology & Engineering
251072	Nursing Instructors and Teachers, Postsecondary	12	\$ 78,603	Master's (+)	Health Science
251122	Communications Teachers, Postsecondary	12	\$ 95,597	Master's (+)	Arts, A/V Technology & Communication
292033	Nuclear Medicine Technologists	12	\$ 71,885	Associate's	Health Science
492095	Electrical Repairers, Powerhouse, Substation, and Relay	12	\$ 50,606	Vocational	Architecture & Construction
252059	Special Education Teachers, All Other	11	\$ 63,502	Bachelor's	Education & Training
492021	Radio Mechanics	11	\$ 59,550	Vocational	Manufacturing
119033	Education Administrators, Postsecondary	10	\$ 98,301	Bachelor's	Education & Training
132031	Budget Analysts	10	\$ 65,125	Bachelor's	Business Mgt. & Admin.
251042	Biological Science Teachers, Postsecondary	10	\$ 97,677	Master's (+)	Health Science
291129	Therapists, All Other	10	\$ 66,706	Master's (+)	Health Science
172111	Health and Safety Engineers, Except Mining	9	\$ 65,998	Bachelor's	Technology & Engineering
251069	Social Sciences Teachers, Postsecondary, All Other	9	\$ 121,555	Master's (+)	Human Services

Table A 13. High-growth/high-wage jobs in Workforce Region 13 by number of projected annual job openings: 2014–2022.

<b>Workforce Region 13</b>					
<b>SOC</b>	<b>Occupational Title</b>	<b>Projected Annual Openings (ave.)</b>	<b>Average Wage (2014)</b>	<b>Minimum Education</b>	<b>Associated Florida CTE Career Cluster</b>
131199	Business Operations Specialists, All Other	81	\$ 69,389	Associate's	Business Mgt. & Admin.
471011	First-Line Superv. of Construction and Extraction Workers	54	\$ 55,890	Associate's	Architecture & Construction
252031	Secondary School Teachers, Exc. Special and Voc. Ed.	47	\$ 56,722	Bachelor's	Education & Training
111021	General and Operations Managers	41	\$ 117,666	Associate's	Business Mgt. & Admin.
151142	Network and Computer Systems Architects and Admins.	39	\$ 97,760	Associate's	Information Technology
413021	Insurance Sales Agents	35	\$ 66,352	Vocational	Finance
252022	Middle School Teachers, Exc. Special & Voc. Education	31	\$ 54,974	Bachelor's	Education & Training
172011	Aerospace Engineers	30	\$ 105,310	Bachelor's	Technology & Engineering
151121	Computer Systems Analysts	29	\$ 81,162	Associate's	Information Technology
172071	Electrical Engineers	28	\$ 85,758	Bachelor's	Technology & Engineering
491011	First-Line Superv. of Mechanics, Installers, and Repairers	28	\$ 61,506	Vocational	Manufacturing
151131	Computer Programmers	26	\$ 88,192	Vocational	Information Technology
151132	Software Developers, Applications	26	\$ 84,094	Associate's	Information Technology

### Workforce Region 13

SOC	Occupational Title	Projected Annual Openings (ave.)	Average Wage (2014)	Minimum Education	Associated Florida CTE Career Cluster
172112	Industrial Engineers	26	\$ 88,234	Bachelor's	Technology & Engineering
131051	Cost Estimators	24	\$ 58,344	Associate's	Architecture & Construction
119021	Construction Managers	23	\$ 84,094	Associate's	Architecture & Construction
231011	Lawyers	23	\$ 104,936	Master's (+)	Law, Public Safety & Security
414011	Sales Representatives, Wholesale & Mfg, Tech. & Sci. Prod.	23	\$ 86,528	Vocational	Marketing, Sales & Service
132072	Loan Officers	22	\$ 65,478	Associate's	Finance
291051	Pharmacists	22	\$ 115,523	Master's (+)	Health Science
291062	Family and General Practitioners	21	\$ 189,925	Master's (+)	Health Science
291123	Physical Therapists	20	\$ 82,410	Master's (+)	Health Science
511011	First-Line Superv. of Production and Operating Workers	18	\$ 59,051	Vocational	Manufacturing
151143	Computer Network Architects	16	\$ 64,938	Vocational	Information Technology
252052	Special Education Teachers, Kindergarten and Elementary	16	\$ 56,950	Bachelor's	Education & Training
253099	Teachers and Instructors, All Other	16	\$ 63,357	Bachelor's	Education & Training
119111	Medical and Health Services Managers	15	\$ 107,266	Bachelor's	Business Mgt. & Admin.
131081	Logisticians	15	\$ 77,314	Bachelor's	Transportation, Distribution & Logistics

### Workforce Region 13

SOC	Occupational Title	Projected Annual Openings (ave.)	Average Wage (2014)	Minimum Education	Associated Florida CTE Career Cluster
532012	Commercial Pilots	15	\$ 90,334	Vocational	Transportation, Distribution & Logistics
291171	Nurse Practitioners	14	\$ 82,930	Master's (+)	Health Science
211012	Educational, Vocational, and School Counselors	13	\$ 59,758	Master's (+)	Human Services
291063	Internists, General	11	\$ 219,752	Master's (+)	Health Science
291122	Occupational Therapists	11	\$ 76,606	Master's (+)	Health Science
291127	Speech and Language Pathologists	11	\$ 71,510	Master's (+)	Health Science
131151	Training and Development Specialists	10	\$ 60,362	Bachelor's	Business Mgt. & Admin.
151141	Database Administrators	10	\$ 75,462	Associate's	Information Technology
172051	Civil Engineers	10	\$ 77,418	Bachelor's	Technology & Engineering
312021	Physical Therapist Assistants	9	\$ 62,026	Associate's	Health Science
131041	Compliance Officers, Exc. Safety, Agri, Constr & Transp.	8	\$ 64,584	Vocational	Government & Public Administration
132052	Personal Financial Advisors	7	\$ 108,306	Bachelor's	Finance
292032	Diagnostic Medical Sonographers	7	\$ 65,936	Vocational	Health Science

Table A 14. High-growth/high-wage jobs in Workforce Region 14 by number of projected annual job openings: 2014–2022.

<b>Workforce Region 14</b>					
<b>SOC</b>	<b>Occupational Title</b>	<b>Projected Annual Openings (ave.)</b>	<b>Average Wage (2014)</b>	<b>Minimum Education</b>	<b>Associated Florida CTE Career Cluster</b>
131031	Claims Adjusters, Examiners, and Investigators	64	\$ 57,283	Vocational	Finance
333051	Police and Sheriff's Patrol Officers	64	\$ 57,741	Vocational	Law, Public Safety & Security
131071	Human Resources Specialists	57	\$ 55,037	Bachelor's	Business Mgt. & Admin.
411012	First-Line Supervisors of Non-Retail Sales Workers	56	\$ 87,277	Associate's	Marketing, Sales & Service
491011	First-Line Superv. of Mechanics, Installers, and Repairers	56	\$ 57,075	Vocational	Manufacturing
413031	Securities and Financial Services Sales Agents	52	\$ 73,320	Bachelor's	Finance
151131	Computer Programmers	50	\$ 76,066	Vocational	Information Technology
291051	Pharmacists	49	\$ 115,003	Master's (+)	Health Science
414011	Sales Representatives, Wholesale & Mfg, Tech. & Sci. Prod.	45	\$ 70,346	Vocational	Marketing, Sales & Service
112022	Sales Managers	42	\$ 131,227	Bachelor's	Marketing, Sales & Service
119021	Construction Managers	42	\$ 84,656	Associate's	Architecture & Construction
131151	Training and Development Specialists	41	\$ 58,406	Bachelor's	Business Mgt. & Admin.
113031	Financial Managers	38	\$ 123,011	Bachelor's	Finance

## Workforce Region 14

SOC	Occupational Title	Projected Annual Openings (ave.)	Average Wage (2014)	Minimum Education	Associated Florida CTE Career Cluster
119111	Medical and Health Services Managers	36	\$ 106,642	Bachelor's	Business Mgt. & Admin.
111011	Chief Executives	34	\$ 204,963	Bachelor's	Business Mgt. & Admin.
291069	Physicians and Surgeons, All Other	34	\$ 204,485	Master's (+)	Health Science
273031	Public Relations Specialists	32	\$ 60,486	Bachelor's	Business Mgt. & Admin.
511011	First-Line Superv. of Production and Operating Workers	30	\$ 54,995	Vocational	Manufacturing
131023	Purchasing Agents, Except Farm Products & Trade	28	\$ 61,838	Associate's	Manufacturing
151133	Software Developers, Systems Software	28	\$ 91,499	Bachelor's	Information Technology
272022	Coaches and Scouts	27	\$ 58,573	High School	Hospitality & Tourism
112021	Marketing Managers	26	\$ 109,470	Bachelor's	Marketing, Sales & Service
211012	Educational, Vocational, and School Counselors	26	\$ 56,534	Master's (+)	Human Services
292021	Dental Hygienists	26	\$ 64,563	Associate's	Health Science
251199	Postsecondary Teachers, All Other	25	\$ 62,192	Associate's	Education & Training
113011	Administrative Services Managers	24	\$ 101,234	Associate's	Business Mgt. & Admin.
119051	Food Service Managers	24	\$ 59,446	Associate's	Hospitality & Tourism
291151	Nurse Anesthetists	24	\$ 145,330	Master's (+)	Health Science
131041	Compliance Officers, Exc. Safety, Agri, Constr & Transp.	23	\$ 59,925	Vocational	Government & Public Administration
151141	Database Administrators	23	\$ 84,718	Associate's	Information Technology

## Workforce Region 14

SOC	Occupational Title	Projected Annual Openings (ave.)	Average Wage (2014)	Minimum Education	Associated Florida CTE Career Cluster
152031	Operations Research Analysts	23	\$ 57,678	Master's (+)	Business Mgt. & Admin.
252052	Special Education Teachers, Kindergarten and Elementary	23	\$ 56,139	Bachelor's	Education & Training
291122	Occupational Therapists	23	\$ 90,480	Master's (+)	Health Science
113021	Computer and Information Systems Managers	22	\$ 147,930	Bachelor's	Information Technology
151152	Computer Network Support Specialists	22	\$ 59,571	Vocational	Information Technology
291171	Nurse Practitioners	22	\$ 87,048	Master's (+)	Health Science
292011	Medical and Clinical Laboratory Technologists	22	\$ 60,736	Associate's	Health Science
292034	Radiologic Technologists	22	\$ 55,494	Vocational	Health Science
132099	Financial Specialists, All Other	20	\$ 66,602	Vocational	Finance
172141	Mechanical Engineers	20	\$ 86,278	Bachelor's	Technology & Engineering
272042	Musicians and Singers	20	\$ 62,608	< High School	Arts, A/V Technology & Communication
291021	Dentists, General	20	\$ 149,677	Master's (+)	Health Science
291127	Speech and Language Pathologists	20	\$ 73,944	Master's (+)	Health Science
292032	Diagnostic Medical Sonographers	20	\$ 56,451	Vocational	Health Science
132041	Credit Analysts	19	\$ 63,835	Vocational	Finance
151122	Information Security Analysts	19	\$ 92,560	Vocational	Information Technology

## Workforce Region 14

SOC	Occupational Title	Projected Annual Openings (ave.)	Average Wage (2014)	Minimum Education	Associated Florida CTE Career Cluster
151134	Web Developers	19	\$ 61,547	Vocational	Information Technology
251071	Health Specialties Teachers, Postsecondary	19	\$ 95,846	Master's (+)	Health Science
252012	Kindergarten Teachers, Except Special Education	19	\$ 55,619	Bachelor's	Education & Training
259099	Education, Training, and Library Workers, All Other	19	\$ 60,674	Bachelor's	Education & Training
291063	Internists, General	19	\$ 221,229	Master's (+)	Health Science
132021	Appraisers and Assessors of Real Estate	18	\$ 59,322	Vocational	Marketing, Sales & Service
172051	Civil Engineers	17	\$ 82,742	Bachelor's	Technology & Engineering
291071	Physician Assistants	17	\$ 93,850	Bachelor's	Health Science
291126	Respiratory Therapists	17	\$ 54,413	Associate's	Health Science
312021	Physical Therapist Assistants	16	\$ 58,781	Associate's	Health Science
531031	First-Line Superv. of Material-Moving Vehicle Operators	15	\$ 60,112	Vocational	Transportation, Distribution & Logistics
119041	Engineering Managers	14	\$ 120,786	Bachelor's	Business Mgt. & Admin.
291067	Surgeons	14	\$ 218,733	Master's (+)	Health Science
113121	Human Resources Managers	13	\$ 108,763	Bachelor's	Business Mgt. & Admin.
291131	Veterinarians	13	\$ 118,747	Master's (+)	Agriculture, Food & Natural Resources
291199	Health Diagnosing and Treating Practitioners, All Other	13	\$ 74,880	Master's (+)	Health Science

## Workforce Region 14

SOC	Occupational Title	Projected Annual Openings (ave.)	Average Wage (2014)	Minimum Education	Associated Florida CTE Career Cluster
131081	Logisticians	12	\$ 72,987	Bachelor's	Transportation, Distribution & Logistics
291011	Chiropractors	12	\$ 80,600	Master's (+)	Health Science
531021	First-Line Superv Helpers, Laborers & Material-Movers, Hand	12	\$ 58,157	High School	Transportation, Distribution & Logistics
119151	Social and Community Service Managers	11	\$ 79,997	Associate's	Government & Public Administration
131121	Meeting and Convention Planners	11	\$ 55,474	Associate's	Hospitality & Tourism
193039	Psychologists, All Other	11	\$ 88,899	Master's (+)	Human Services
291061	Anesthesiologists	11	\$ 268,341	Master's (+)	Health Science
251011	Business Teachers, Postsecondary	8	\$ 117,562	Bachelor's	Finance
191042	Medical Scientists, Except Epidemiologists	6	\$ 81,453	Master's (+)	Health Science

Table A 15. High-growth/high-wage jobs in Workforce Region 15 by number of projected annual job openings: 2014–2022.

<b>Workforce Region 15</b>					
<b>SOC</b>	<b>Occupational Title</b>	<b>Projected Annual Openings (ave.)</b>	<b>Average Wage (2014)</b>	<b>Minimum Education</b>	<b>Associated Florida CTE Career Cluster</b>
413031	Securities and Financial Services Sales Agents	77	\$ 73,320	Bachelor's	Finance
112022	Sales Managers	70	\$ 131,227	Bachelor's	Marketing, Sales & Service
113031	Financial Managers	66	\$ 123,011	Bachelor's	Finance
111011	Chief Executives	53	\$ 204,963	Bachelor's	Business Mgt. & Admin.
172051	Civil Engineers	47	\$ 82,742	Bachelor's	Technology & Engineering
132099	Financial Specialists, All Other	46	\$ 66,602	Vocational	Finance
291069	Physicians and Surgeons, All Other	42	\$ 204,485	Master's (+)	Health Science
113021	Computer and Information Systems Managers	41	\$ 147,930	Bachelor's	Information Technology
131023	Purchasing Agents, Except Farm Products & Trade	41	\$ 61,838	Associate's	Manufacturing
132053	Insurance Underwriters	41	\$ 60,736	Vocational	Finance
151141	Database Administrators	41	\$ 84,718	Associate's	Information Technology
151152	Computer Network Support Specialists	40	\$ 59,571	Vocational	Information Technology
292011	Medical and Clinical Laboratory Technologists	40	\$ 60,736	Associate's	Health Science
113011	Administrative Services Managers	37	\$ 101,234	Associate's	Business Mgt. & Admin.

## Workforce Region 15

SOC	Occupational Title	Projected Annual Openings (ave.)	Average Wage (2014)	Minimum Education	Associated Florida CTE Career Cluster
152031	Operations Research Analysts	37	\$ 57,678	Master's (+)	Business Mgt. & Admin.
172071	Electrical Engineers	35	\$ 90,730	Bachelor's	Technology & Engineering
172141	Mechanical Engineers	35	\$ 86,278	Bachelor's	Technology & Engineering
292021	Dental Hygienists	33	\$ 64,563	Associate's	Health Science
119051	Food Service Managers	32	\$ 59,446	Associate's	Hospitality & Tourism
531031	First-Line Superv. of Material-Moving Vehicle Operators	29	\$ 60,112	Vocational	Transportation, Distribution & Logistics
291021	Dentists, General	27	\$ 149,677	Master's (+)	Health Science
272042	Musicians and Singers	25	\$ 62,608	< High School	Arts, A/V Technology & Communication
291127	Speech and Language Pathologists	25	\$ 73,944	Master's (+)	Health Science
291171	Nurse Practitioners	25	\$ 87,048	Master's (+)	Health Science
531021	First-Line Superv Helpers, Laborers & Material-Movers, Hand	25	\$ 58,157	High School	Transportation, Distribution & Logistics
251011	Business Teachers, Postsecondary	24	\$ 117,562	Bachelor's	Finance
291151	Nurse Anesthetists	24	\$ 145,330	Master's (+)	Health Science
172112	Industrial Engineers	23	\$ 72,571	Bachelor's	Technology & Engineering
172081	Environmental Engineers	21	\$ 71,157	Bachelor's	Technology & Engineering

## Workforce Region 15

SOC	Occupational Title	Projected Annual Openings (ave.)	Average Wage (2014)	Minimum Education	Associated Florida CTE Career Cluster
251121	Art, Drama, and Music Teachers, Postsecondary	21	\$ 84,885	Master's (+)	Arts, A/V Technology & Communication
291063	Internists, General	21	\$ 221,229	Master's (+)	Health Science
132021	Appraisers and Assessors of Real Estate	20	\$ 59,322	Vocational	Marketing, Sales & Service
171011	Architects, Except Landscape and Naval	20	\$ 77,501	Master's (+)	Architecture & Construction
291199	Health Diagnosing and Treating Practitioners, All Other	20	\$ 74,880	Master's (+)	Health Science
113121	Human Resources Managers	19	\$ 108,763	Bachelor's	Business Mgt. & Admin.
193031	Clinical, Counseling, and School Psychologists	19	\$ 70,782	Master's (+)	Human Services
273043	Writers and Authors	19	\$ 57,949	Bachelor's	Arts, A/V Technology & Communication
291071	Physician Assistants	19	\$ 93,850	Bachelor's	Health Science
131081	Logisticians	18	\$ 72,987	Bachelor's	Transportation, Distribution & Logistics
193039	Psychologists, All Other	16	\$ 88,899	Master's (+)	Human Services
312021	Physical Therapist Assistants	16	\$ 58,781	Associate's	Health Science
119032	Education Administrators, Elementary and Secondary	15	\$ 88,546	Bachelor's	Education & Training
291031	Dietitians and Nutritionists	15	\$ 57,699	Bachelor's	Health Science
291067	Surgeons	14	\$ 218,733	Master's (+)	Health Science
113051	Industrial Production Managers	13	\$ 101,546	Associate's	Business Mgt. & Admin.

## Workforce Region 15

SOC	Occupational Title	Projected Annual Openings (ave.)	Average Wage (2014)	Minimum Education	Associated Florida CTE Career Cluster
171022	Surveyors	13	\$ 67,163	Bachelor's	Technology & Engineering
191042	Medical Scientists, Except Epidemiologists	13	\$ 81,453	Master's (+)	Health Science
251066	Psychology Teachers, Postsecondary	13	\$ 115,274	Master's (+)	Human Services
251072	Nursing Instructors and Teachers, Postsecondary	13	\$ 94,765	Master's (+)	Health Science
291011	Chiropractors	13	\$ 80,600	Master's (+)	Health Science
291061	Anesthesiologists	13	\$ 268,341	Master's (+)	Health Science
419031	Sales Engineers	12	\$ 117,624	Bachelor's	Marketing, Sales & Service
119151	Social and Community Service Managers	11	\$ 79,997	Associate's	Government & Public Administration
172199	Engineers, All Other	11	\$ 81,744	Bachelor's	Technology & Engineering
251081	Education Teachers, Postsecondary	11	\$ 109,928	Master's (+)	Education & Training
119033	Education Administrators, Postsecondary	10	\$ 98,675	Bachelor's	Education & Training
251032	Engineering Teachers, Postsecondary	10	\$ 164,466	Master's (+)	Technology & Engineering
273042	Technical Writers	10	\$ 58,094	Bachelor's	Arts, A/V Technology & Communication
132061	Financial Examiners	9	\$ 88,296	Bachelor's	Government & Public Administration
172011	Aerospace Engineers	9	\$ 60,070	Bachelor's	Technology & Engineering
251022	Mathematical Science Teachers, Postsecondary	9	\$ 84,427	Master's (+)	Technology & Engineering

### Workforce Region 15

SOC	Occupational Title	Projected Annual Openings (ave.)	Average Wage (2014)	Minimum Education	Associated Florida CTE Career Cluster
251122	Communications Teachers, Postsecondary	9	\$ 105,394	Master's (+)	Arts, A/V Technology & Communication
251123	English Language & Literature Teachers, Postsecondary	9	\$ 91,749	Master's (+)	Education & Training
291131	Veterinarians	9	\$ 118,747	Master's (+)	Agriculture, Food & Natural Resources
292035	Magnetic Resonance Imaging Technologists	9	\$ 64,646	Vocational	Health Science

Table A 16. High-growth/high-wage jobs in Workforce Region 16 by number of projected annual job openings: 2014–2022.

<b>Workforce Region 16</b>					
<b>SOC</b>	<b>Occupational Title</b>	<b>Projected Annual Openings (ave.)</b>	<b>Average Wage (2014)</b>	<b>Minimum Education</b>	<b>Associated Florida CTE Career Cluster</b>
411011	First-Line Supervisors of Retail Sales Workers	88	\$ 43,659	Vocational	Marketing, Sales & Service
252031	Secondary School Teachers, Exc. Special and Voc. Ed.	48	\$ 56,285	Bachelor's	Education & Training
471011	First-Line Superv. of Construction and Extraction Workers	44	\$ 57,054	Associate's	Architecture & Construction
132011	Accountants and Auditors	42	\$ 67,288	Bachelor's	Business Mgt. & Admin.
131199	Business Operations Specialists, All Other	38	\$ 65,749	Associate's	Business Mgt. & Admin.
111021	General and Operations Managers	30	\$ 124,488	Associate's	Business Mgt. & Admin.
333051	Police and Sheriff's Patrol Officers	27	\$ 57,741	Vocational	Law, Public Safety & Security
291051	Pharmacists	23	\$ 115,003	Master's (+)	Health Science
119021	Construction Managers	21	\$ 84,656	Associate's	Architecture & Construction
131111	Management Analysts	21	\$ 83,637	Bachelor's	Business Mgt. & Admin.
491011	First-Line Superv. of Mechanics, Installers, and Repairers	21	\$ 57,075	Vocational	Manufacturing
131051	Cost Estimators	19	\$ 58,490	Associate's	Architecture & Construction
231011	Lawyers	19	\$ 115,419	Master's (+)	Law, Public Safety & Security

## Workforce Region 16

SOC	Occupational Title	Projected Annual Openings (ave.)	Average Wage (2014)	Minimum Education	Associated Florida CTE Career Cluster
252059	Special Education Teachers, All Other	19	\$ 41,974	Bachelor's	Education & Training
436011	Executive Secretaries and Administrative Assistants	19	\$ 45,864	Vocational	Business Mgt. & Admin.
252052	Special Education Teachers, Kindergarten and Elementary	17	\$ 56,139	Bachelor's	Education & Training
332011	Fire Fighters	17	\$ 46,925	Vocational	Law, Public Safety & Security
131071	Human Resources Specialists	16	\$ 55,037	Bachelor's	Business Mgt. & Admin.
151151	Computer User Support Specialists	16	\$ 46,654	Vocational	Information Technology
252012	Kindergarten Teachers, Except Special Education	15	\$ 55,619	Bachelor's	Education & Training
131161	Market Research Analysts and Marketing Specialists	14	\$ 57,970	Bachelor's	Business Mgt. & Admin.
291069	Physicians and Surgeons, All Other	13	\$ 204,485	Master's (+)	Health Science
291123	Physical Therapists	13	\$ 80,350	Master's (+)	Health Science
119111	Medical and Health Services Managers	12	\$ 106,642	Bachelor's	Business Mgt. & Admin.
211012	Educational, Vocational, and School Counselors	12	\$ 56,534	Master's (+)	Human Services
232011	Paralegals and Legal Assistants	12	\$ 45,302	Vocational	Law, Public Safety & Security
292021	Dental Hygienists	12	\$ 64,563	Associate's	Health Science
499051	Electrical Power-Line Installers and Repairers	12	\$ 46,218	Vocational	Architecture & Construction
291151	Nurse Anesthetists	11	\$ 145,330	Master's (+)	Health Science

## Workforce Region 16

SOC	Occupational Title	Projected Annual Openings (ave.)	Average Wage (2014)	Minimum Education	Associated Florida CTE Career Cluster
132072	Loan Officers	10	\$ 68,411	Associate's	Finance
253099	Teachers and Instructors, All Other	10	\$ 44,824	Bachelor's	Education & Training
291127	Speech and Language Pathologists	10	\$ 73,944	Master's (+)	Health Science
151121	Computer Systems Analysts	9	\$ 85,800	Associate's	Information Technology
291122	Occupational Therapists	9	\$ 90,480	Master's (+)	Health Science
291171	Nurse Practitioners	9	\$ 87,048	Master's (+)	Health Science
292034	Radiologic Technologists	9	\$ 55,494	Vocational	Health Science
131151	Training and Development Specialists	8	\$ 58,406	Bachelor's	Business Mgt. & Admin.
132052	Personal Financial Advisors	8	\$ 94,037	Bachelor's	Finance
151143	Computer Network Architects	8	\$ 78,416	Vocational	Information Technology
211022	Medical and Public Health Social Workers	8	\$ 45,302	Master's (+)	Human Services
291063	Internists, General	8	\$ 221,229	Master's (+)	Health Science
291071	Physician Assistants	8	\$ 93,850	Bachelor's	Health Science
292032	Diagnostic Medical Sonographers	8	\$ 56,451	Vocational	Health Science
151132	Software Developers, Applications	7	\$ 86,570	Associate's	Information Technology
151142	Network and Computer Systems Architects and Admins.	7	\$ 82,160	Associate's	Information Technology
312021	Physical Therapist Assistants	7	\$ 58,781	Associate's	Health Science

Table A 17. High-growth/high-wage jobs in Workforce Region 17 by number of projected annual job openings: 2014–2022.

<b>Workforce Region 17</b>					
<b>SOC</b>	<b>Occupational Title</b>	<b>Projected Annual Openings (ave.)</b>	<b>Average Wage (2014)</b>	<b>Minimum Education</b>	<b>Associated Florida CTE Career Cluster</b>
413099	Sales Representatives, Services, All Other	77	\$ 52,936	High School	Marketing, Sales & Service
252031	Secondary School Teachers, Exc. Special and Voc. Ed.	49	\$ 54,621	Bachelor's	Education & Training
111021	General and Operations Managers	40	\$ 116,147	Associate's	Business Mgt. & Admin.
333051	Police and Sheriff's Patrol Officers	38	\$ 47,382	Vocational	Law, Public Safety & Security
491011	First-Line Superv. of Mechanics, Installers, and Repairers	33	\$ 61,381	Vocational	Manufacturing
231011	Lawyers	30	\$ 86,528	Master's (+)	Law, Public Safety & Security
131111	Management Analysts	26	\$ 67,538	Bachelor's	Business Mgt. & Admin.
252059	Special Education Teachers, All Other	26	\$ 56,181	Bachelor's	Education & Training
119141	Property, Real Estate & Community Association Managers	24	\$ 52,229	Associate's	Business Mgt. & Admin.
291051	Pharmacists	24	\$ 117,208	Master's (+)	Health Science
131161	Market Research Analysts and Marketing Specialists	23	\$ 64,355	Bachelor's	Business Mgt. & Admin.
151121	Computer Systems Analysts	23	\$ 83,075	Associate's	Information Technology
252012	Kindergarten Teachers, Except Special Education	23	\$ 53,373	Bachelor's	Education & Training

## Workforce Region 17

SOC	Occupational Title	Projected Annual Openings (ave.)	Average Wage (2014)	Minimum Education	Associated Florida CTE Career Cluster
531021	First-Line Superv Helpers, Laborers & Material-Movers, Hand	23	\$ 45,698	High School	Transportation, Distribution & Logistics
131151	Training and Development Specialists	21	\$ 56,202	Bachelor's	Business Mgt. & Admin.
172051	Civil Engineers	21	\$ 74,006	Bachelor's	Technology & Engineering
292034	Radiologic Technologists	20	\$ 53,664	Vocational	Health Science
131051	Cost Estimators	18	\$ 51,168	Associate's	Architecture & Construction
151151	Computer User Support Specialists	18	\$ 45,573	Vocational	Information Technology
119021	Construction Managers	17	\$ 100,256	Associate's	Architecture & Construction
272042	Musicians and Singers	17	\$ 110,594	<High School	Arts, A/V Technology & Communication
292021	Dental Hygienists	17	\$ 63,107	Associate's	Health Science
131071	Human Resources Specialists	16	\$ 53,997	Bachelor's	Business Mgt. & Admin.
251199	Postsecondary Teachers, All Other	16	\$ 91,166	Associate's	Education & Training
413031	Securities and Financial Services Sales Agents	16	\$ 89,378	Bachelor's	Finance
414011	Sales Representatives, Wholesale & Mfg, Tech. & Sci. Prod.	16	\$ 85,322	Vocational	Marketing, Sales & Service
132072	Loan Officers	15	\$ 70,990	Associate's	Finance
211012	Educational, Vocational, and School Counselors	15	\$ 58,282	Master's (+)	Human Services
291069	Physicians and Surgeons, All Other	15	\$ 243,714	Master's (+)	Health Science

## Workforce Region 17

SOC	Occupational Title	Projected Annual Openings (ave.)	Average Wage (2014)	Minimum Education	Associated Florida CTE Career Cluster
493042	Mobile Heavy Equipment Mechanics, Except Engines	15	\$ 47,632	Vocational	Transportation, Distribution & Logistics
531031	First-Line Superv. of Material-Moving Vehicle Operators	14	\$ 53,934	Vocational	Transportation, Distribution & Logistics
291123	Physical Therapists	13	\$ 82,680	Master's (+)	Health Science
291171	Nurse Practitioners	12	\$ 105,040	Master's (+)	Health Science
151142	Network and Computer Systems Architects and Admins.	11	\$ 64,688	Associate's	Information Technology
151143	Computer Network Architects	11	\$ 56,285	Vocational	Information Technology
211022	Medical and Public Health Social Workers	11	\$ 51,314	Master's (+)	Human Services
119111	Medical and Health Services Managers	10	\$ 100,298	Bachelor's	Business Mgt. & Admin.
132052	Personal Financial Advisors	9	\$ 93,122	Bachelor's	Finance
291062	Family and General Practitioners	9	\$ 162,053	Master's (+)	Health Science
291126	Respiratory Therapists	9	\$ 50,814	Associate's	Health Science
292032	Diagnostic Medical Sonographers	9	\$ 56,826	Vocational	Health Science
151132	Software Developers, Applications	7	\$ 68,806	Associate's	Information Technology

Table A 18. High-growth/high-wage jobs in Workforce Region 18 by number of projected annual job openings: 2014–2022.

<b>Workforce Region 18</b>					
<b>SOC</b>	<b>Occupational Title</b>	<b>Projected Annual Openings (ave.)</b>	<b>Average Wage (2014)</b>	<b>Minimum Education</b>	<b>Associated Florida CTE Career Cluster</b>
111021	General and Operations Managers	78	\$ 111,426	Associate's	Business Mgt. & Admin.
252031	Secondary School Teachers, Exc. Special and Voc. Ed.	53	\$ 66,539	Bachelor's	Education & Training
252022	Middle School Teachers, Exc. Special & Voc. Education	50	\$ 63,253	Bachelor's	Education & Training
332011	Fire Fighters	49	\$ 59,509	Vocational	Law, Public Safety & Security
119141	Property, Real Estate & Community Association Managers	44	\$ 50,419	Associate's	Business Mgt. & Admin.
131161	Market Research Analysts and Marketing Specialists	37	\$ 50,170	Bachelor's	Business Mgt. & Admin.
291021	Dentists, General	35	\$ 142,043	Master's (+)	Health Science
333051	Police and Sheriff's Patrol Officers	34	\$ 56,784	Vocational	Law, Public Safety & Security
273031	Public Relations Specialists	31	\$ 53,726	Bachelor's	Business Mgt. & Admin.
291062	Family and General Practitioners	30	\$ 212,805	Master's (+)	Health Science
292034	Radiologic Technologists	29	\$ 51,584	Vocational	Health Science
131031	Claims Adjusters, Examiners, and Investigators	28	\$ 55,619	Vocational	Finance
151132	Software Developers, Applications	28	\$ 78,104	Associate's	Information Technology

## Workforce Region 18

SOC	Occupational Title	Projected Annual Openings (ave.)	Average Wage (2014)	Minimum Education	Associated Florida CTE Career Cluster
151143	Computer Network Architects	28	\$ 55,931	Vocational	Information Technology
411012	First-Line Supervisors of Non-Retail Sales Workers	27	\$ 80,746	Associate's	Marketing, Sales & Service
292021	Dental Hygienists	25	\$ 58,448	Associate's	Health Science
291069	Physicians and Surgeons, All Other	24	\$ 229,528	Master's (+)	Health Science
511011	First-Line Superv. of Production and Operating Workers	24	\$ 57,450	Vocational	Manufacturing
111011	Chief Executives	23	\$ 197,538	Bachelor's	Business Mgt. & Admin.
131071	Human Resources Specialists	23	\$ 50,648	Bachelor's	Business Mgt. & Admin.
291122	Occupational Therapists	21	\$ 80,038	Master's (+)	Health Science
252052	Special Education Teachers, Kindergarten and Elementary	20	\$ 63,024	Bachelor's	Education & Training
291123	Physical Therapists	20	\$ 85,342	Master's (+)	Health Science
291127	Speech and Language Pathologists	20	\$ 78,666	Master's (+)	Health Science
112022	Sales Managers	19	\$ 121,680	Bachelor's	Marketing, Sales & Service
119199	Managers, All Other	19	\$ 78,291	Associate's	Business Mgt. & Admin.
253099	Teachers and Instructors, All Other	19	\$ 50,773	Bachelor's	Education & Training
132072	Loan Officers	18	\$ 83,221	Associate's	Finance
211012	Educational, Vocational, and School Counselors	18	\$ 51,293	Master's (+)	Human Services
252012	Kindergarten Teachers, Except Special Education	18	\$ 64,979	Bachelor's	Education & Training

## Workforce Region 18

SOC	Occupational Title	Projected Annual Openings (ave.)	Average Wage (2014)	Minimum Education	Associated Florida CTE Career Cluster
113031	Financial Managers	17	\$ 149,822	Bachelor's	Finance
119051	Food Service Managers	16	\$ 58,448	Associate's	Hospitality & Tourism
119111	Medical and Health Services Managers	16	\$ 103,064	Bachelor's	Business Mgt. & Admin.
132052	Personal Financial Advisors	16	\$ 85,405	Bachelor's	Finance
251199	Postsecondary Teachers, All Other	16	\$ 65,042	Associate's	Education & Training
474011	Construction and Building Inspectors	15	\$ 50,502	Vocational	Architecture & Construction
531031	First-Line Superv. of Material-Moving Vehicle Operators	15	\$ 51,854	Vocational	Transportation, Distribution & Logistics
113011	Administrative Services Managers	14	\$ 96,034	Associate's	Business Mgt. & Admin.
119041	Engineering Managers	14	\$ 88,878	Bachelor's	Business Mgt. & Admin.
151121	Computer Systems Analysts	14	\$ 70,616	Associate's	Information Technology
251071	Health Specialties Teachers, Postsecondary	14	\$ 92,955	Master's (+)	Health Science
211022	Medical and Public Health Social Workers	13	\$ 57,803	Master's (+)	Human Services
291071	Physician Assistants	13	\$ 98,675	Bachelor's	Health Science
151142	Network and Computer Systems Architects and Admins.	12	\$ 71,053	Associate's	Information Technology
172051	Civil Engineers	12	\$ 79,643	Bachelor's	Technology & Engineering
291063	Internists, General	12	\$ 250,848	Master's (+)	Health Science

## Workforce Region 18

SOC	Occupational Title	Projected Annual Openings (ave.)	Average Wage (2014)	Minimum Education	Associated Florida CTE Career Cluster
351011	Chefs and Head Cooks	12	\$ 49,192	Vocational	Hospitality & Tourism
131041	Compliance Officers, Exc. Safety, Agri, Constr & Transp.	11	\$ 50,814	Vocational	Government & Public Administration
151133	Software Developers, Systems Software	11	\$ 121,659	Bachelor's	Information Technology
171011	Architects, Except Landscape and Naval	11	\$ 77,064	Master's (+)	Architecture & Construction
172071	Electrical Engineers	11	\$ 83,470	Bachelor's	Technology & Engineering
172141	Mechanical Engineers	11	\$ 94,432	Bachelor's	Technology & Engineering
192041	Environmental Scientists & Specialists, Including Health	11	\$ 52,541	Bachelor's	Agriculture, Food & Natural Resources
272041	Music Directors and Composers	11	\$ 78,458	Bachelor's	Arts, A/V Technology & Communication
291067	Surgeons	11	\$ 253,802	Master's (+)	Health Science
291126	Respiratory Therapists	11	\$ 56,555	Associate's	Health Science
151134	Web Developers	10	\$ 55,661	Vocational	Information Technology
252053	Special Education Teachers, Middle School	10	\$ 63,440	Bachelor's	Education & Training
291171	Nurse Practitioners	10	\$ 83,075	Master's (+)	Health Science
131151	Training and Development Specialists	9	\$ 53,997	Bachelor's	Business Mgt. & Admin.
132051	Financial Analysts	9	\$ 76,149	Bachelor's	Finance
191021	Biochemists and Biophysicists	9	\$ 70,741	Master's (+)	Health Science

### Workforce Region 18

SOC	Occupational Title	Projected Annual Openings (ave.)	Average Wage (2014)	Minimum Education	Associated Florida CTE Career Cluster
259031	Instructional Coordinators	9	\$ 59,467	Master's (+)	Education & Training
312021	Physical Therapist Assistants	9	\$ 61,547	Associate's	Health Science
119151	Social and Community Service Managers	8	\$ 80,725	Associate's	Government & Public Administration
151141	Database Administrators	8	\$ 75,026	Associate's	Information Technology
291131	Veterinarians	8	\$ 94,182	Master's (+)	Agriculture, Food & Natural Resources

Table A 19. High-growth/high-wage jobs in Workforce Region 19 by number of projected annual job openings: 2014–2022.

<b>Workforce Region 19</b>					
<b>SOC</b>	<b>Occupational Title</b>	<b>Projected Annual Openings (ave.)</b>	<b>Average Wage (2014)</b>	<b>Minimum Education</b>	<b>Associated Florida CTE Career Cluster</b>
252021	Elementary School Teachers, Except Special Education	27	\$ 54,413	Bachelor's	Education & Training
413021	Insurance Sales Agents	24	\$ 59,405	Vocational	Finance
411011	First-Line Supervisors of Retail Sales Workers	23	\$ 41,434	Vocational	Marketing, Sales & Service
292061	Licensed Practical and Licensed Vocational Nurses	19	\$ 40,227	Vocational	Health Science
252022	Middle School Teachers, Exc. Special & Voc. Education	12	\$ 57,034	Bachelor's	Education & Training

Table A 20. High-growth/high-wage jobs in Workforce Region 20 by number of projected annual job openings: 2014–2022.

<b>Workforce Region 20</b>					
<b>SOC</b>	<b>Occupational Title</b>	<b>Projected Annual Openings (ave.)</b>	<b>Average Wage (2014)</b>	<b>Minimum Education</b>	<b>Associated Florida CTE Career Cluster</b>
431011	First-Line Superv. of Office and Admin. Support Workers	73	\$ 47,861	Associate's	Business Mgt. & Admin.
333051	Police and Sheriff's Patrol Officers	43	\$ 52,374	Vocational	Law, Public Safety & Security
111021	General and Operations Managers	41	\$ 118,706	Associate's	Business Mgt. & Admin.
413021	Insurance Sales Agents	35	\$ 55,786	Vocational	Finance
332011	Fire Fighters	32	\$ 56,243	Vocational	Law, Public Safety & Security
231011	Lawyers	29	\$ 96,200	Master's (+)	Law, Public Safety & Security
291069	Physicians and Surgeons, All Other	29	\$ 251,638	Master's (+)	Health Science
491011	First-Line Superv. of Mechanics, Installers, and Repairers	23	\$ 61,069	Vocational	Manufacturing
232011	Paralegals and Legal Assistants	22	\$ 48,610	Vocational	Law, Public Safety & Security
252012	Kindergarten Teachers, Except Special Education	22	\$ 58,157	Bachelor's	Education & Training
253099	Teachers and Instructors, All Other	22	\$ 47,403	Bachelor's	Education & Training
131051	Cost Estimators	21	\$ 52,021	Associate's	Architecture & Construction

## Workforce Region 20

SOC	Occupational Title	Projected Annual Openings (ave.)	Average Wage (2014)	Minimum Education	Associated Florida CTE Career Cluster
291051	Pharmacists	21	\$ 118,165	Master's (+)	Health Science
131111	Management Analysts	19	\$ 93,787	Bachelor's	Business Mgt. & Admin.
291123	Physical Therapists	19	\$ 82,888	Master's (+)	Health Science
292021	Dental Hygienists	19	\$ 63,814	Associate's	Health Science
319011	Massage Therapists	18	\$ 52,478	Vocational	Health Science
131071	Human Resources Specialists	17	\$ 52,146	Bachelor's	Business Mgt. & Admin.
291021	Dentists, General	15	\$ 176,717	Master's (+)	Health Science
131161	Market Research Analysts and Marketing Specialists	14	\$ 59,613	Bachelor's	Business Mgt. & Admin.
132052	Personal Financial Advisors	14	\$ 108,930	Bachelor's	Finance
312021	Physical Therapist Assistants	14	\$ 58,822	Associate's	Health Science
511011	First-Line Superv. of Production and Operating Workers	14	\$ 55,141	Vocational	Manufacturing
119111	Medical and Health Services Managers	13	\$ 91,354	Bachelor's	Business Mgt. & Admin.
252052	Special Education Teachers, Kindergarten and Elementary	13	\$ 54,766	Bachelor's	Education & Training
292034	Radiologic Technologists	13	\$ 50,669	Vocational	Health Science
474011	Construction and Building Inspectors	13	\$ 47,237	Vocational	Architecture & Construction
252059	Special Education Teachers, All Other	12	\$ 75,462	Bachelor's	Education & Training
273031	Public Relations Specialists	12	\$ 45,614	Bachelor's	Business Mgt. & Admin.

## Workforce Region 20

SOC	Occupational Title	Projected Annual Openings (ave.)	Average Wage (2014)	Minimum Education	Associated Florida CTE Career Cluster
211012	Educational, Vocational, and School Counselors	11	\$ 52,749	Master's (+)	Human Services
259031	Instructional Coordinators	11	\$ 47,237	Master's (+)	Education & Training
291122	Occupational Therapists	11	\$ 89,731	Master's (+)	Health Science
151142	Network and Computer Systems Architects and Admins.	10	\$ 75,192	Associate's	Information Technology
292035	Magnetic Resonance Imaging Technologists	10	\$ 65,021	Vocational	Health Science
172051	Civil Engineers	9	\$ 84,760	Bachelor's	Technology & Engineering
291127	Speech and Language Pathologists	9	\$ 67,870	Master's (+)	Health Science
131151	Training and Development Specialists	8	\$ 47,445	Bachelor's	Business Mgt. & Admin.
131041	Compliance Officers, Exc. Safety, Agri, Constr & Transp.	7	\$ 58,302	Vocational	Government & Public Administration
291171	Nurse Practitioners	7	\$ 92,248	Master's (+)	Health Science
292032	Diagnostic Medical Sonographers	7	\$ 64,397	Vocational	Health Science

Table A 21. High-growth/high-wage jobs in Workforce Region 21 by number of projected annual job openings: 2014–2022.

<b>Workforce Region 21</b>					
<b>SOC</b>	<b>Occupational Title</b>	<b>Projected Annual Openings (ave.)</b>	<b>Average Wage (2014)</b>	<b>Minimum Education</b>	<b>Associated Florida CTE Career Cluster</b>
471011	First-Line Superv. of Construction and Extraction Workers	164	\$ 63,045	Associate's	Architecture & Construction
119141	Property, Real Estate & Community Association Managers	102	\$ 62,254	Associate's	Business Mgt. & Admin.
413031	Securities and Financial Services Sales Agents	89	\$ 106,205	Bachelor's	Finance
411012	First-Line Supervisors of Non-Retail Sales Workers	71	\$ 82,430	Associate's	Marketing, Sales & Service
414011	Sales Representatives, Wholesale & Mfg, Tech. & Sci. Prod.	64	\$ 82,659	Vocational	Marketing, Sales & Service
132072	Loan Officers	58	\$ 93,246	Associate's	Finance
291051	Pharmacists	58	\$ 110,178	Master's (+)	Health Science
151121	Computer Systems Analysts	54	\$ 87,963	Associate's	Information Technology
151142	Network and Computer Systems Architects and Admins.	52	\$ 78,790	Associate's	Information Technology
112022	Sales Managers	45	\$ 141,086	Bachelor's	Marketing, Sales & Service
119199	Managers, All Other	45	\$ 99,757	Associate's	Business Mgt. & Admin.
111011	Chief Executives	40	\$ 204,069	Bachelor's	Business Mgt. & Admin.

## Workforce Region 21

SOC	Occupational Title	Projected Annual Openings (ave.)	Average Wage (2014)	Minimum Education	Associated Florida CTE Career Cluster
113031	Financial Managers	37	\$ 128,627	Bachelor's	Finance
151134	Web Developers	36	\$ 71,386	Vocational	Information Technology
113011	Administrative Services Managers	34	\$ 99,902	Associate's	Business Mgt. & Admin.
119051	Food Service Managers	34	\$ 59,946	Associate's	Hospitality & Tourism
132051	Financial Analysts	33	\$ 82,909	Bachelor's	Finance
151131	Computer Programmers	30	\$ 68,661	Vocational	Information Technology
474011	Construction and Building Inspectors	29	\$ 60,507	Vocational	Architecture & Construction
291127	Speech and Language Pathologists	28	\$ 77,459	Master's (+)	Health Science
112021	Marketing Managers	27	\$ 145,891	Bachelor's	Marketing, Sales & Service
151141	Database Administrators	26	\$ 80,517	Associate's	Information Technology
172112	Industrial Engineers	26	\$ 73,653	Bachelor's	Technology & Engineering
119041	Engineering Managers	25	\$ 122,075	Bachelor's	Business Mgt. & Admin.
131041	Compliance Officers, Exc. Safety, Agri, Constr & Transp.	25	\$ 59,696	Vocational	Government & Public Administration
254021	Librarians	24	\$ 62,296	Master's (+)	Education & Training
113021	Computer and Information Systems Managers	23	\$ 135,554	Bachelor's	Information Technology
172141	Mechanical Engineers	23	\$ 91,125	Bachelor's	Technology & Engineering
251199	Postsecondary Teachers, All Other	23	\$ 60,757	Associate's	Education & Training

## Workforce Region 21

SOC	Occupational Title	Projected Annual Openings (ave.)	Average Wage (2014)	Minimum Education	Associated Florida CTE Career Cluster
131081	Logisticians	21	\$ 64,813	Bachelor's	Transportation, Distribution & Logistics
151152	Computer Network Support Specialists	21	\$ 58,989	Vocational	Information Technology
193031	Clinical, Counseling, and School Psychologists	20	\$ 64,043	Master's (+)	Human Services
172071	Electrical Engineers	19	\$ 76,606	Bachelor's	Technology & Engineering
192041	Environmental Scientists & Specialists, Including Health	19	\$ 63,586	Bachelor's	Agriculture, Food & Natural Resources
252053	Special Education Teachers, Middle School	19	\$ 66,331	Bachelor's	Education & Training
291021	Dentists, General	19	\$ 126,090	Master's (+)	Health Science
291063	Internists, General	19	\$ 243,235	Master's (+)	Health Science
151133	Software Developers, Systems Software	18	\$ 86,798	Bachelor's	Information Technology
251011	Business Teachers, Postsecondary	18	\$ 122,970	Bachelor's	Finance
291011	Chiropractors	18	\$ 70,574	Master's (+)	Health Science
291071	Physician Assistants	18	\$ 109,658	Bachelor's	Health Science
292011	Medical and Clinical Laboratory Technologists	18	\$ 60,757	Associate's	Health Science
333021	Detectives and Criminal Investigators	18	\$ 76,419	Vocational	Law, Public Safety & Security
419021	Real Estate Brokers	18	\$ 147,451	Vocational	Marketing, Sales & Service
251121	Art, Drama, and Music Teachers, Postsecondary	17	\$ 79,997	Master's (+)	Arts, A/V Technology &

## Workforce Region 21

SOC	Occupational Title	Projected Annual Openings (ave.)	Average Wage (2014)	Minimum Education	Associated Florida CTE Career Cluster
					Communication
351011	Chefs and Head Cooks	16	\$ 61,443	Vocational	Hospitality & Tourism
493011	Aircraft Mechanics and Service Technicians	16	\$ 58,802	Vocational	Transportation, Distribution & Logistics
171011	Architects, Except Landscape and Naval	15	\$ 73,549	Master's (+)	Architecture & Construction
119032	Education Administrators, Elementary and Secondary	14	\$ 94,120	Bachelor's	Education & Training
291122	Occupational Therapists	14	\$ 79,789	Master's (+)	Health Science
292035	Magnetic Resonance Imaging Technologists	14	\$ 61,651	Vocational	Health Science
312021	Physical Therapist Assistants	14	\$ 61,235	Associate's	Health Science
113121	Human Resources Managers	13	\$ 116,563	Bachelor's	Business Mgt. & Admin.
251071	Health Specialties Teachers, Postsecondary	13	\$ 81,432	Master's (+)	Health Science
259099	Education, Training, and Library Workers, All Other	13	\$ 58,677	Bachelor's	Education & Training
119151	Social and Community Service Managers	12	\$ 72,342	Associate's	Government & Public Administration
191021	Biochemists and Biophysicists	12	\$ 123,094	Master's (+)	Health Science
291041	Optometrists	11	\$ 189,488	Master's (+)	Health Science
291067	Surgeons	11	\$ 248,789	Master's (+)	Health Science
291199	Health Diagnosing and Treating Practitioners, All Other	11	\$ 61,838	Master's (+)	Health Science

### Workforce Region 21

SOC	Occupational Title	Projected Annual Openings (ave.)	Average Wage (2014)	Minimum Education	Associated Florida CTE Career Cluster
151122	Information Security Analysts	10	\$ 74,547	Vocational	Information Technology
251123	English Language & Literature Teachers, Postsecondary	10	\$ 80,392	Master's (+)	Education & Training
291131	Veterinarians	10	\$ 77,730	Master's (+)	Agriculture, Food & Natural Resources
251022	Mathematical Science Teachers, Postsecondary	9	\$ 84,302	Master's (+)	Technology & Engineering
292033	Nuclear Medicine Technologists	8	\$ 67,350	Associate's	Health Science

Table A 22. High-growth/high-wage jobs in Workforce Region 22 by number of projected annual job openings: 2014–2022.

<b>Workforce Region 22</b>					
<b>SOC</b>	<b>Occupational Title</b>	<b>Projected Annual Openings (ave.)</b>	<b>Average Wage (2014)</b>	<b>Minimum Education</b>	<b>Associated Florida CTE Career Cluster</b>
411012	First-Line Supervisors of Non-Retail Sales Workers	134	\$ 88,504	Associate's	Marketing, Sales & Service
414011	Sales Representatives, Wholesale & Mfg, Tech. & Sci. Prod.	105	\$ 93,350	Vocational	Marketing, Sales & Service
131031	Claims Adjusters, Examiners, and Investigators	73	\$ 57,325	Vocational	Finance
291051	Pharmacists	72	\$ 116,605	Master's (+)	Health Science
151131	Computer Programmers	70	\$ 74,651	Vocational	Information Technology
413031	Securities and Financial Services Sales Agents	70	\$ 84,240	Bachelor's	Finance
112022	Sales Managers	69	\$ 134,971	Bachelor's	Marketing, Sales & Service
111011	Chief Executives	68	\$ 212,659	Bachelor's	Business Mgt. & Admin.
119199	Managers, All Other	65	\$ 107,806	Associate's	Business Mgt. & Admin.
252012	Kindergarten Teachers, Except Special Education	54	\$ 62,795	Bachelor's	Education & Training
113031	Financial Managers	49	\$ 140,462	Bachelor's	Finance
273031	Public Relations Specialists	49	\$ 64,626	Bachelor's	Business Mgt. & Admin.
292011	Medical and Clinical Laboratory Technologists	46	\$ 60,507	Associate's	Health Science
511011	First-Line Superv. of Production and Operating Workers	44	\$ 55,640	Vocational	Manufacturing

## Workforce Region 22

SOC	Occupational Title	Projected Annual Openings (ave.)	Average Wage (2014)	Minimum Education	Associated Florida CTE Career Cluster
119111	Medical and Health Services Managers	41	\$ 123,094	Bachelor's	Business Mgt. & Admin.
333012	Correctional Officers and Jailers	39	\$ 61,651	Vocational	Law, Public Safety & Security
131041	Compliance Officers, Exc. Safety, Agri, Constr & Transp.	35	\$ 67,184	Vocational	Government & Public Administration
119051	Food Service Managers	34	\$ 60,008	Associate's	Hospitality & Tourism
291123	Physical Therapists	34	\$ 89,003	Master's (+)	Health Science
113021	Computer and Information Systems Managers	33	\$ 131,851	Bachelor's	Information Technology
113011	Administrative Services Managers	32	\$ 106,558	Associate's	Business Mgt. & Admin.
259099	Education, Training, and Library Workers, All Other	32	\$ 70,533	Bachelor's	Education & Training
291122	Occupational Therapists	32	\$ 84,198	Master's (+)	Health Science
531031	First-Line Superv. of Material-Moving Vehicle Operators	32	\$ 60,174	Vocational	Transportation, Distribution & Logistics
151133	Software Developers, Systems Software	31	\$ 86,528	Bachelor's	Information Technology
435011	Cargo and Freight Agents	31	\$ 60,715	Vocational	Business Mgt. & Admin.
251194	Vocational Education Teachers, Postsecondary	30	\$ 61,880	Associate's	Education & Training
151141	Database Administrators	29	\$ 78,749	Associate's	Information Technology
474011	Construction and Building Inspectors	29	\$ 61,942	Vocational	Architecture & Construction
151134	Web Developers	27	\$ 58,864	Vocational	Information Technology

## Workforce Region 22

SOC	Occupational Title	Projected Annual Openings (ave.)	Average Wage (2014)	Minimum Education	Associated Florida CTE Career Cluster
271025	Interior Designers	27	\$ 56,077	Associate's	Architecture & Construction
291127	Speech and Language Pathologists	27	\$ 74,901	Master's (+)	Health Science
172112	Industrial Engineers	26	\$ 70,699	Bachelor's	Technology & Engineering
291171	Nurse Practitioners	26	\$ 89,378	Master's (+)	Health Science
312021	Physical Therapist Assistants	26	\$ 58,510	Associate's	Health Science
112021	Marketing Managers	24	\$ 125,944	Bachelor's	Marketing, Sales & Service
171011	Architects, Except Landscape and Naval	24	\$ 75,525	Master's (+)	Architecture & Construction
193039	Psychologists, All Other	24	\$ 73,715	Master's (+)	Human Services
131022	Wholesale and Retail Buyers, Except Farm Products	23	\$ 57,595	Associate's	Marketing, Sales & Service
254021	Librarians	23	\$ 57,304	Master's (+)	Education & Training
291011	Chiropractors	23	\$ 59,821	Master's (+)	Health Science
291199	Health Diagnosing and Treating Practitioners, All Other	23	\$ 95,160	Master's (+)	Health Science
272012	Producers and Directors	22	\$ 76,315	Bachelor's	Arts, A/V Technology & Communication
251011	Business Teachers, Postsecondary	20	\$ 105,019	Bachelor's	Finance
292032	Diagnostic Medical Sonographers	20	\$ 63,918	Vocational	Health Science
119032	Education Administrators, Elementary and Secondary	19	\$ 100,485	Bachelor's	Education & Training
172141	Mechanical Engineers	19	\$ 71,739	Bachelor's	Technology & Engineering

## Workforce Region 22

SOC	Occupational Title	Projected Annual Openings (ave.)	Average Wage (2014)	Minimum Education	Associated Florida CTE Career Cluster
193031	Clinical, Counseling, and School Psychologists	19	\$ 65,416	Master's (+)	Human Services
291063	Internists, General	19	\$ 171,309	Master's (+)	Health Science
119151	Social and Community Service Managers	18	\$ 85,717	Associate's	Government & Public Administration
172031	Biomedical Engineers	18	\$ 88,629	Bachelor's	Technology & Engineering
172081	Environmental Engineers	18	\$ 75,150	Bachelor's	Technology & Engineering
532012	Commercial Pilots	18	\$ 102,794	Vocational	Transportation, Distribution & Logistics
172071	Electrical Engineers	17	\$ 83,158	Bachelor's	Technology & Engineering
251199	Postsecondary Teachers, All Other	17	\$ 86,674	Associate's	Education & Training
113121	Human Resources Managers	16	\$ 113,090	Bachelor's	Business Mgt. & Admin.
252053	Special Education Teachers, Middle School	16	\$ 68,141	Bachelor's	Education & Training
291041	Optometrists	16	\$ 114,795	Master's (+)	Health Science
291071	Physician Assistants	16	\$ 98,613	Bachelor's	Health Science
113051	Industrial Production Managers	14	\$ 102,482	Associate's	Business Mgt. & Admin.
131081	Logisticians	14	\$ 68,578	Bachelor's	Transportation, Distribution & Logistics
132041	Credit Analysts	13	\$ 66,123	Vocational	Finance
151122	Information Security Analysts	12	\$ 69,077	Vocational	Information Technology

## Workforce Region 22

SOC	Occupational Title	Projected Annual Openings (ave.)	Average Wage (2014)	Minimum Education	Associated Florida CTE Career Cluster
172199	Engineers, All Other	12	\$ 83,803	Bachelor's	Technology & Engineering
474021	Elevator Installers and Repairers	12	\$ 78,000	Vocational	Architecture & Construction
251072	Nursing Instructors and Teachers, Postsecondary	11	\$ 100,526	Master's (+)	Health Science
251123	English Language & Literature Teachers, Postsecondary	11	\$ 105,851	Master's (+)	Education & Training
291131	Veterinarians	11	\$ 98,322	Master's (+)	Agriculture, Food & Natural Resources
172111	Health and Safety Engineers, Except Mining	10	\$ 69,202	Bachelor's	Technology & Engineering
131131	Fundraisers	9	\$ 55,474	High School	Business Mgt. & Admin.
251066	Psychology Teachers, Postsecondary	9	\$ 99,382	Master's (+)	Human Services
251081	Education Teachers, Postsecondary	9	\$ 102,877	Master's (+)	Education & Training
292035	Magnetic Resonance Imaging Technologists	9	\$ 69,118	Vocational	Health Science
171022	Surveyors	8	\$ 55,037	Bachelor's	Technology & Engineering
191042	Medical Scientists, Except Epidemiologists	8	\$ 94,848	Master's (+)	Health Science
251021	Computer Science Teachers, Postsecondary	8	\$ 109,242	Bachelor's	Information Technology
251042	Biological Science Teachers, Postsecondary	8	\$ 112,320	Master's (+)	Health Science
251121	Art, Drama, and Music Teachers, Postsecondary	8	\$ 91,541	Master's (+)	Arts, A/V Technology & Communication

Table A 23. High-growth/high-wage jobs in Workforce Region 23 by number of projected annual job openings: 2014–2022.

<b>Workforce Region 23</b>					
<b>SOC</b>	<b>Occupational Title</b>	<b>Projected Annual Openings (ave.)</b>	<b>Average Wage (2014)</b>	<b>Minimum Education</b>	<b>Associated Florida CTE Career Cluster</b>
411012	First-Line Supervisors of Non-Retail Sales Workers	163	\$ 91,957	Associate's	Marketing, Sales & Service
413031	Securities and Financial Services Sales Agents	124	\$ 106,184	Bachelor's	Finance
119199	Managers, All Other	116	\$ 96,034	Associate's	Business Mgt. & Admin.
111011	Chief Executives	99	\$ 212,472	Bachelor's	Business Mgt. & Admin.
113031	Financial Managers	74	\$ 148,096	Bachelor's	Finance
272012	Producers and Directors	63	\$ 74,048	Bachelor's	Arts, A/V Technology & Communication
252012	Kindergarten Teachers, Except Special Education	56	\$ 57,949	Bachelor's	Education & Training
119051	Food Service Managers	50	\$ 74,402	Associate's	Hospitality & Tourism
113011	Administrative Services Managers	49	\$ 112,029	Associate's	Business Mgt. & Admin.
151143	Computer Network Architects	49	\$ 72,530	Vocational	Information Technology
131041	Compliance Officers, Exc. Safety, Agri, Constr & Transp.	48	\$ 71,115	Vocational	Government & Public Administration
131022	Wholesale and Retail Buyers, Except Farm Products	47	\$ 57,512	Associate's	Marketing, Sales & Service
151131	Computer Programmers	47	\$ 96,678	Vocational	Information Technology

## Workforce Region 23

SOC	Occupational Title	Projected Annual Openings (ave.)	Average Wage (2014)	Minimum Education	Associated Florida CTE Career Cluster
171011	Architects, Except Landscape and Naval	43	\$ 75,837	Master's (+)	Architecture & Construction
291171	Nurse Practitioners	41	\$ 85,738	Master's (+)	Health Science
291199	Health Diagnosing and Treating Practitioners, All Other	40	\$ 75,338	Master's (+)	Health Science
474011	Construction and Building Inspectors	39	\$ 62,774	Vocational	Architecture & Construction
112021	Marketing Managers	38	\$ 126,464	Bachelor's	Marketing, Sales & Service
251199	Postsecondary Teachers, All Other	38	\$ 94,661	Associate's	Education & Training
119081	Lodging Managers	35	\$ 97,968	Associate's	Hospitality & Tourism
193031	Clinical, Counseling, and School Psychologists	35	\$ 73,528	Master's (+)	Human Services
113021	Computer and Information Systems Managers	34	\$ 143,790	Bachelor's	Information Technology
252032	Vocational Education Teachers, Secondary School	33	\$ 70,158	Bachelor's	Education & Training
292032	Diagnostic Medical Sonographers	33	\$ 63,378	Vocational	Health Science
331021	First-Line Superv. of Fire Fighting and Prevention Workers	33	\$ 111,800	Vocational	Law, Public Safety & Security
151152	Computer Network Support Specialists	32	\$ 56,930	Vocational	Information Technology
532012	Commercial Pilots	32	\$ 120,474	Vocational	Transportation, Distribution & Logistics
291071	Physician Assistants	31	\$ 93,725	Bachelor's	Health Science
119032	Education Administrators, Elementary and Secondary	30	\$ 98,675	Bachelor's	Education & Training

### Workforce Region 23

SOC	Occupational Title	Projected Annual Openings (ave.)	Average Wage (2014)	Minimum Education	Associated Florida CTE Career Cluster
172141	Mechanical Engineers	29	\$ 62,587	Bachelor's	Technology & Engineering
151133	Software Developers, Systems Software	28	\$ 83,658	Bachelor's	Information Technology
132021	Appraisers and Assessors of Real Estate	27	\$ 73,029	Vocational	Marketing, Sales & Service
132053	Insurance Underwriters	27	\$ 64,792	Vocational	Finance
132099	Financial Specialists, All Other	27	\$ 60,694	Vocational	Finance
152031	Operations Research Analysts	27	\$ 57,782	Master's (+)	Business Mgt. & Admin.
254021	Librarians	26	\$ 61,651	Master's (+)	Education & Training
172071	Electrical Engineers	25	\$ 96,158	Bachelor's	Technology & Engineering
172112	Industrial Engineers	24	\$ 69,139	Bachelor's	Technology & Engineering
291122	Occupational Therapists	24	\$ 76,253	Master's (+)	Health Science
113121	Human Resources Managers	23	\$ 111,218	Bachelor's	Business Mgt. & Admin.
119151	Social and Community Service Managers	23	\$ 76,086	Associate's	Government & Public Administration
291067	Surgeons	23	\$ 255,590	Master's (+)	Health Science
291129	Therapists, All Other	23	\$ 64,189	Master's (+)	Health Science
535031	Ship Engineers	23	\$ 87,090	Associate's	Transportation, Distribution & Logistics
291131	Veterinarians	22	\$ 111,322	Master's (+)	Agriculture, Food & Natural Resources

## Workforce Region 23

SOC	Occupational Title	Projected Annual Openings (ave.)	Average Wage (2014)	Minimum Education	Associated Florida CTE Career Cluster
119033	Education Administrators, Postsecondary	20	\$ 113,880	Bachelor's	Education & Training
193039	Psychologists, All Other	20	\$ 96,158	Master's (+)	Human Services
291031	Dietitians and Nutritionists	20	\$ 60,341	Bachelor's	Health Science
291127	Speech and Language Pathologists	20	\$ 67,205	Master's (+)	Health Science
172031	Biomedical Engineers	19	\$ 68,411	Bachelor's	Technology & Engineering
251081	Education Teachers, Postsecondary	19	\$ 81,973	Master's (+)	Education & Training
131131	Fundraisers	17	\$ 66,456	High School	Business Mgt. & Admin.
132041	Credit Analysts	17	\$ 71,282	Vocational	Finance
292035	Magnetic Resonance Imaging Technologists	17	\$ 61,901	Vocational	Health Science
211029	Social Workers, All Other	16	\$ 61,547	Bachelor's	Human Services
113061	Purchasing Managers	14	\$ 125,528	Associate's	Business Mgt. & Admin.
251021	Computer Science Teachers, Postsecondary	14	\$ 122,970	Bachelor's	Information Technology
251121	Art, Drama, and Music Teachers, Postsecondary	14	\$ 111,051	Master's (+)	Arts, A/V Technology & Communication
291011	Chiropractors	14	\$ 75,712	Master's (+)	Health Science
251022	Mathematical Science Teachers, Postsecondary	13	\$ 107,224	Master's (+)	Technology & Engineering
251042	Biological Science Teachers, Postsecondary	12	\$ 106,579	Master's (+)	Health Science
251072	Nursing Instructors and Teachers, Postsecondary	12	\$ 109,616	Master's (+)	Health Science

### Workforce Region 23

SOC	Occupational Title	Projected Annual Openings (ave.)	Average Wage (2014)	Minimum Education	Associated Florida CTE Career Cluster
291041	Optometrists	12	\$ 139,984	Master's (+)	Health Science
251124	Foreign Language & Literature Teachers, Postsecondary	11	\$ 110,594	Master's (+)	Education & Training
193051	Urban and Regional Planners	10	\$ 65,187	Bachelor's	Government & Public Administration
251066	Psychology Teachers, Postsecondary	10	\$ 112,154	Master's (+)	Human Services
251112	Law Teachers, Postsecondary	10	\$ 152,381	Master's (+)	Law, Public Safety & Security
252051	Special Education Teachers, Preschool	10	\$ 63,128	Bachelor's	Education & Training
191042	Medical Scientists, Except Epidemiologists	9	\$ 59,051	Master's (+)	Health Science
291063	Internists, General	9	\$ 208,666	Master's (+)	Health Science

Table A 24. High-growth/high-wage jobs in Workforce Region 24 by number of projected annual job openings: 2014–2022.

Workforce Region 24					
SOC	Occupational Title	Projected Annual Openings (ave.)	Average Wage (2014)	Minimum Education	Associated Florida CTE Career Cluster
333051	Police and Sheriff's Patrol Officers	77	\$ 52,603	Vocational	Law, Public Safety & Security
291051	Pharmacists	48	\$ 120,890	Master's (+)	Health Science
119051	Food Service Managers	41	\$ 65,374	Associate's	Hospitality & Tourism
292034	Radiologic Technologists	39	\$ 60,840	Vocational	Health Science
411012	First-Line Supervisors of Non-Retail Sales Workers	39	\$ 79,165	Associate's	Marketing, Sales & Service
413031	Securities and Financial Services Sales Agents	39	\$ 93,080	Bachelor's	Finance
252059	Special Education Teachers, All Other	38	\$ 67,683	Bachelor's	Education & Training
111011	Chief Executives	36	\$ 198,411	Bachelor's	Business Mgt. & Admin.
291021	Dentists, General	36	\$ 144,934	Master's (+)	Health Science
499051	Electrical Power-Line Installers and Repairers	35	\$ 53,082	Vocational	Architecture & Construction
414011	Sales Representatives, Wholesale & Mfg, Tech. & Sci. Prod.	34	\$ 66,165	Vocational	Marketing, Sales & Service
113031	Financial Managers	33	\$ 117,582	Bachelor's	Finance
272022	Coaches and Scouts	31	\$ 53,810	High School	Hospitality & Tourism
291069	Physicians and Surgeons, All Other	30	\$ 194,854	Master's (+)	Health Science
132052	Personal Financial Advisors	28	\$ 92,789	Bachelor's	Finance

## Workforce Region 24

SOC	Occupational Title	Projected Annual Openings (ave.)	Average Wage (2014)	Minimum Education	Associated Florida CTE Career Cluster
151131	Computer Programmers	28	\$ 90,626	Vocational	Information Technology
112022	Sales Managers	27	\$ 131,747	Bachelor's	Marketing, Sales & Service
132072	Loan Officers	27	\$ 85,218	Associate's	Finance
211022	Medical and Public Health Social Workers	27	\$ 49,795	Master's (+)	Human Services
351011	Chefs and Head Cooks	27	\$ 52,104	Vocational	Hospitality & Tourism
511011	First-Line Superv. of Production and Operating Workers	27	\$ 52,603	Vocational	Manufacturing
192041	Environmental Scientists & Specialists, Including Health	24	\$ 52,894	Bachelor's	Agriculture, Food & Natural Resources
211012	Educational, Vocational, and School Counselors	22	\$ 62,421	Master's (+)	Human Services
259031	Instructional Coordinators	22	\$ 52,603	Master's (+)	Education & Training
273031	Public Relations Specialists	22	\$ 53,726	Bachelor's	Business Mgt. & Admin.
131041	Compliance Officers, Exc. Safety, Agri, Constr & Transp.	21	\$ 53,227	Vocational	Government & Public Administration
151132	Software Developers, Applications	21	\$ 68,078	Associate's	Information Technology
271025	Interior Designers	21	\$ 49,234	Associate's	Architecture & Construction
131023	Purchasing Agents, Except Farm Products & Trade	20	\$ 52,125	Associate's	Manufacturing
151121	Computer Systems Analysts	20	\$ 89,066	Associate's	Information Technology
113011	Administrative Services Managers	19	\$ 96,637	Associate's	Business Mgt. & Admin.

## Workforce Region 24

SOC	Occupational Title	Projected Annual Openings (ave.)	Average Wage (2014)	Minimum Education	Associated Florida CTE Career Cluster
291063	Internists, General	19	\$ 173,347	Master's (+)	Health Science
291126	Respiratory Therapists	19	\$ 54,995	Associate's	Health Science
171011	Architects, Except Landscape and Naval	18	\$ 90,085	Master's (+)	Architecture & Construction
252052	Special Education Teachers, Kindergarten and Elementary	18	\$ 67,371	Bachelor's	Education & Training
291071	Physician Assistants	18	\$ 100,235	Bachelor's	Health Science
151142	Network and Computer Systems Architects and Admins.	17	\$ 70,013	Associate's	Information Technology
259099	Education, Training, and Library Workers, All Other	17	\$ 69,638	Bachelor's	Education & Training
291127	Speech and Language Pathologists	17	\$ 80,954	Master's (+)	Health Science
292031	Cardiovascular Technologists and Technicians	17	\$ 48,194	Vocational	Health Science
132051	Financial Analysts	16	\$ 74,672	Bachelor's	Finance
151134	Web Developers	16	\$ 57,242	Vocational	Information Technology
292011	Medical and Clinical Laboratory Technologists	16	\$ 58,178	Associate's	Health Science
232093	Title Examiners, Abstractors, and Searchers	15	\$ 49,130	Vocational	Law, Public Safety & Security
531031	First-Line Superv. of Material-Moving Vehicle Operators	14	\$ 48,963	Vocational	Transportation, Distribution & Logistics
119032	Education Administrators, Elementary and Secondary	13	\$ 103,189	Bachelor's	Education & Training

## Workforce Region 24

SOC	Occupational Title	Projected Annual Openings (ave.)	Average Wage (2014)	Minimum Education	Associated Florida CTE Career Cluster
119041	Engineering Managers	13	\$ 114,733	Bachelor's	Business Mgt. & Admin.
131031	Claims Adjusters, Examiners, and Investigators	13	\$ 51,979	Vocational	Finance
173011	Architectural and Civil Drafters	13	\$ 48,152	Vocational	Technology & Engineering
292032	Diagnostic Medical Sonographers	13	\$ 69,243	Vocational	Health Science
493011	Aircraft Mechanics and Service Technicians	13	\$ 61,485	Vocational	Transportation, Distribution & Logistics
131121	Meeting and Convention Planners	12	\$ 55,806	Associate's	Hospitality & Tourism
272041	Music Directors and Composers	12	\$ 59,114	Bachelor's	Arts, A/V Technology & Communication
291131	Veterinarians	12	\$ 118,144	Master's (+)	Agriculture, Food & Natural Resources
151133	Software Developers, Systems Software	11	\$ 113,942	Bachelor's	Information Technology
191021	Biochemists and Biophysicists	11	\$ 55,349	Master's (+)	Health Science
254021	Librarians	11	\$ 61,048	Master's (+)	Education & Training
291151	Nurse Anesthetists	11	\$ 138,549	Master's (+)	Health Science
312021	Physical Therapist Assistants	11	\$ 59,779	Associate's	Health Science
492094	Electronics Repairers, Commercial and Industrial Equip.	11	\$ 54,954	Vocational	Manufacturing
172112	Industrial Engineers	10	\$ 68,598	Bachelor's	Technology & Engineering
211014	Mental Health Counselors	10	\$ 49,774	Master's (+)	Human Services

## Workforce Region 24

SOC	Occupational Title	Projected Annual Openings (ave.)	Average Wage (2014)	Minimum Education	Associated Florida CTE Career Cluster
291011	Chiropractors	10	\$ 99,216	Master's (+)	Health Science
291199	Health Diagnosing and Treating Practitioners, All Other	10	\$ 71,219	Master's (+)	Health Science
251194	Vocational Education Teachers, Postsecondary	9	\$ 55,141	Associate's	Education & Training
113021	Computer and Information Systems Managers	8	\$ 124,238	Bachelor's	Information Technology
151141	Database Administrators	8	\$ 71,115	Associate's	Information Technology
171022	Surveyors	8	\$ 53,664	Bachelor's	Technology & Engineering
292035	Magnetic Resonance Imaging Technologists	7	\$ 65,624	Vocational	Health Science
191042	Medical Scientists, Except Epidemiologists	5	\$ 73,840	Master's (+)	Health Science

## References

- Association for Career and Technical Education (ACTE). (2014). *CTE State Profiles-Florida, Career Clusters*. Alexandria, VA. Retrieved from <https://www.acteonline.org/stateprofiles.aspx>
- Carnevale, A. P., Smith, N., Stone III, J. R., Kotamraju, P., Steuernagel, B., & Green, K. A. (2011). *Career Clusters: Forecasting Demand for High School through College Jobs, 2008-2018*. Washington, DC: Georgetown University Center on Education and the Workforce. Retrieved from <https://cew.georgetown.edu/report/career-clusters/>
- Dougherty, K. J. (2003). The Uneven Distribution of Employee Training by Community Colleges: Description and Explanation. *Annals of the American Academy of Political and Social Science*, 586, 62-91.
- DTI Associates. (2007). *Occupations and Instructional Programs by Clusters/Pathways*, "Table 6: Cluster-Pathway-CIP-SOC-ONET." Available at <http://cte.ed.gov/accountability/crosswalks.cfm>
- Florida Bureau of Labor Market Statistics. (2015). *Average Annual Wages, Statewide & Counties*. Florida Department of Economic Opportunity, Quarterly Census of Employment and Wages Program (QCEW). Released September 2014. Retrieved from <http://www.floridajobs.org/labor-market-information/data-center/statistical-programs/quarterly-census-of-employment-and-wages>
- Florida Department of Education. (2015). *Career & Technical Education*. Retrieved from <http://www.fldoe.org/academics/career-adult-edu/career-tech-edu>
- Florida State Board of Education. (2008). *The Carl D. Perkins Career and Technical Education Act 5-Year Plan: Florida*. Retrieved from [cte.ed.gov/docs/stateplan/FL5YearStatePlan.pdf](http://cte.ed.gov/docs/stateplan/FL5YearStatePlan.pdf)
- Grubb, N. W., Badway, N., Bell, D., Chi, B., King, C., Herr, J., & Prince, H. (1999). *Toward Order from Chaos: State Efforts to Reform Workforce Development Systems*. (NCRVE Publication MDS-1249). Berkley, CA: National Center for Research in Vocational Education.
- Leigh, D. E., & Gill, A. M. (2007). *Do Community Colleges Respond to Local Needs? Evidence from California*. Kalamazoo, MI: W.E. Upjohn Institute for Employment Research.

Mokher, C. (2011). *Aligning Career and Technical Education with High-Wage and High-Demand Occupations in Tennessee* (Issues & Answers Report, REL 2011–No. 111). Washington, DC: U.S. Department of Education, Institute of Education Sciences, Regional Educational Laboratory Appalachia. Retrieved from [http://ies.ed.gov/ncee/edlabs/regions/appalachia/pdf/REL\\_2011111.pdf](http://ies.ed.gov/ncee/edlabs/regions/appalachia/pdf/REL_2011111.pdf)

National Association of State Directors of Career Technical Education Consortium (NASDCTEc). (2014). *CTE in Florida*. Retrieved from <http://www.careertech.org/Florida>

Ruffing, K. (2006). *The History of Career Clusters*. Champaign, IL: Office of Community College Research and Leadership, University of Illinois. Retrieved from <http://occr.illinois.edu/>.



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