

#### **Employment Projections to 2021**

#### Florida Workforce Estimating Conference

**Bureau of Labor Market Statistics** 

September 6, 2013 Tallahassee, FL

## Employment Projections -- Background

- Employment forecast covers the period 2013-2021
- Independent variables included national and Florida industry employment, population, personal income, unemployment rates, and housing starts
- Staffing patterns derived from the 2012 annual occupational survey, with over 56,000 employer responses representing more than 4.1 million workers, were used to produce the occupational projections



## Employment Projections -Assumptions

- Florida population growth will be slower and is not forecast to return to pre-recession rates in the forecast period
- Long-term job growth is expected to be moderate due to:
  - A modest recovery at the state and national levels
  - Continuing global financial and economic uncertainties
- The unemployment rate is forecast to decline to 5.03 percent by 2021



## Industry Employment Demand to 2021 Highlights

- Florida is projected to gain more than one million new jobs between 2013 and 2021 (1.55% annual growth)
- The projected employment in 2021 is 9.3 million jobs
- Nearly 53 percent in this forecast will be the regaining of jobs lost during the recent economic downturn
- All major industry sectors will see employment gains, except information and natural resources and mining; however, only 6 of the 12 major industry sectors are projected to exceed their pre-recession employment peak
- Some industries hardest hit by job losses between 2007 and 2013 will experience more job gains over the long term and they will have above average growth rates as they regain some jobs from their lowest employment levels in a decade



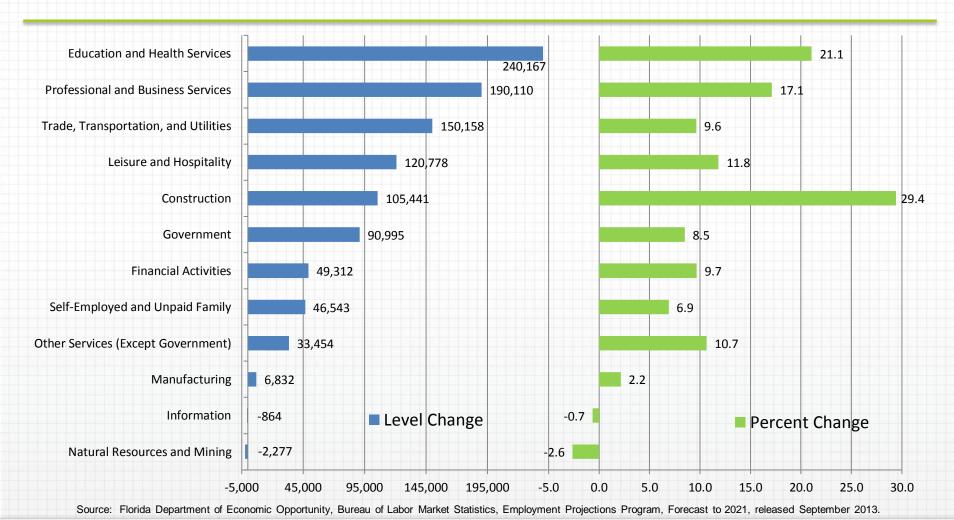
## **Employment Forecast by Major Industry Sector Florida 2013-2021**

Ranked by Annual Employment Level Change

Industry	Employ	ment	<b>Annual Change</b>		
maasti y	2013	2021	Level	Percent	
Total, All Industries	8,297,915	9,328,564	128,831	1.6	
Education and Health Services	1,140,223	1,380,390	30,021	2.6	
Professional and Business Services	1,110,201	1,300,311	23,764	2.1	
Trade, Transportation, and Utilities	1,559,799	1,709,957	18,770	1.2	
Leisure and Hospitality	1,020,777	1,141,555	15,097	1.5	
Construction	358,262	463,703	13,180	3.7	
Government	1,071,982	1,162,977	11,374	1.1	
Financial Activities	509,815	559,127	6,164	1.2	
Self-Employed and Unpaid Family Workers	675,684	722,227	5,818	0.9	
Other Services (Except Government)	314,044	347,498	4,182	1.3	
Manufacturing	317,811	324,643	854	0.3	
Information	132,735	131,871	-108	-0.1	
Natural Resources and Mining	86,582	84,305	-285	-0.3	



## **Employment Growth by Major Industry Sector Florida 2013-2021**

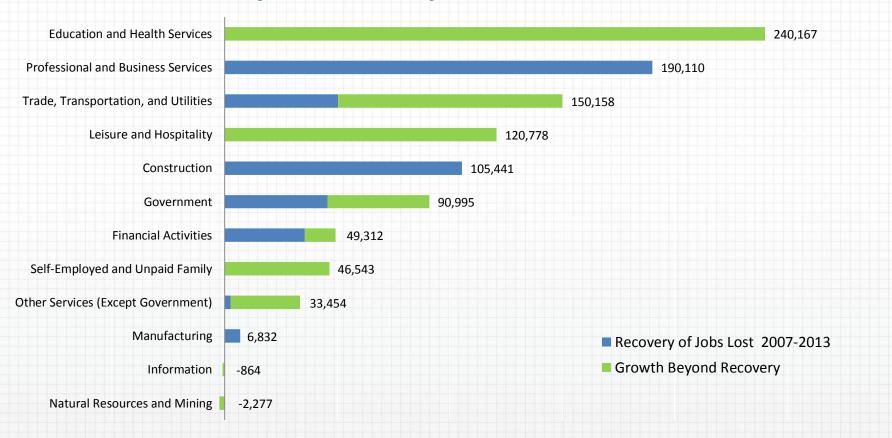




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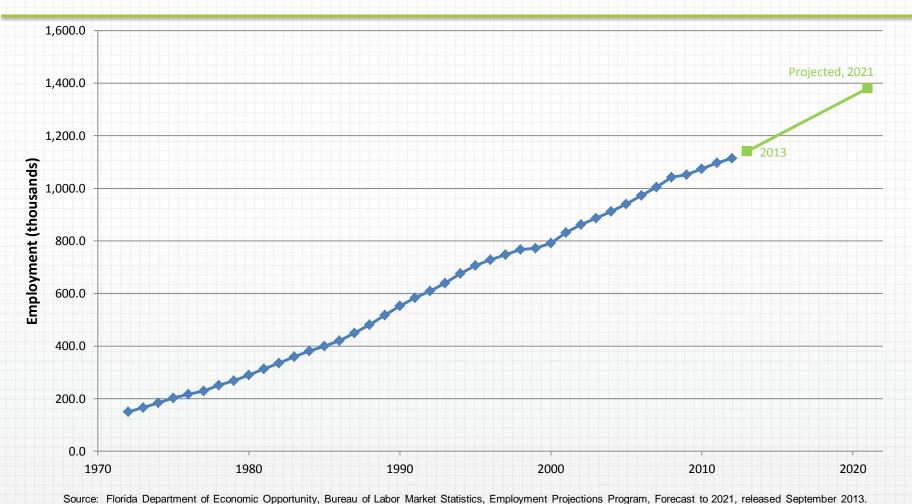
## Employment Change by Major Industry Sector Florida 2013-2021

#### **Projected Recovery and Growth 2013-2021**





## Education and Health Services Is Projected to Gain the Most Jobs





#### **Construction Is Projected to Grow Fastest**

**Employment is not Projected to Reach Its Pre-Recession Peak** 





## Detailed Industries Gaining the Most New Jobs Florida 2013-2021

Ranked by Annual Employment Level Change

Industry	Employ	ment	Annual Change	
,	2013	2021	Level	Percent
Ambulatory Health Care Services	419,731	533,213	14,185	3.4
Professional, Scientific, and Technical Services	465,524	564,799	12,409	2.7
Local Government, Including Education and Hospitals	731,231	816,423	10,649	1.5
Food Services and Drinking Places	656,465	739,269	10,351	1.6
Administrative and Support Services	541,448	622,667	10,152	1.9
Specialty Trade Contractors	238,367	309,250	8,860	3.7
Self-Employed and Unpaid Family Workers	675,684	722,227	5,818	0.9
Nursing and Residential Care Facilities	182,910	224,116	5,151	2.8
Hospitals (Private)	269,297	302,574	4,160	1.5
Educational Services (Private)	153,869	183,526	3,707	2.4



## Fastest-Growing Detailed Industries\* Florida 2013-2021

Ranked by Average Annual Employment Growth Rate

Industry	Employ	ment	Annual Change		
madon y	2013	2021	Level	Percent	
Specialty Trade Contractors	238,367	309,250	8,860	3.7	
Construction of Buildings	73,835	95,518	2,710	3.7	
Heavy and Civil Engineering Construction	46,060	58,935	1,609	3.5	
Ambulatory Health Care Services	419,731	533,213	14,185	3.4	
Nursing and Residential Care Facilities	182,910	224,116	5,151	2.8	
Professional, Scientific, and Technical Services	465,524	564,799	12,409	2.7	
Social Assistance	114,416	136,961	2,818	2.5	
Educational Services (Private)	153,869	183,526	3,707	2.4	
Nonmetallic Mineral Product Manufacturing	15,840	18,716	360	2.3	
Wood Product Manufacturing	9,167	10,817	206	2.2	

<sup>\*</sup>includes industries with a minimum of 3,500 jobs in 2013



## Projections by Occupational Group Florida 2013-2021

- All occupational groups are projected to gain jobs between 2013 and 2021, except farming, fishing, and forestry
- Five occupational groups (clerical, sales, healthcare professional, foodservice, and construction) will account for 50 percent of new jobs
- Clerical, sales, and healthcare professional occupations will gain the most new jobs
- Healthcare support, construction, and healthcare professional occupations will grow the fastest



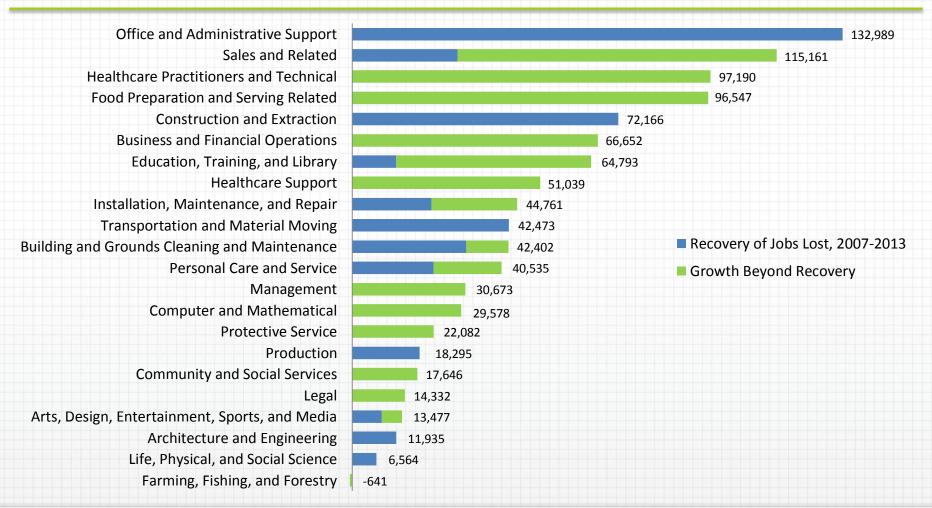
### Employment Forecast by Major Occupational Group Florida 2013-2021

**Ranked by Employment Level Change** 

	Employ	yment	2013-21 C	Change	
Occupational Group	2013	2021	Level	Percent	
Total, All Occupations	8,297,915	9,328,564	1,030,649	12.42	
Office and Administrative Support	1,407,319	1,540,308	132,989	9.45	
Sales and Related	1,121,934	1,237,095	115,161	10.26	
Healthcare Practitioners and Technical	492,044	589,234	97,190	19.75	
Food Preparation and Serving Related	800,868	897,415	96,547	12.06	
Construction and Extraction	340,462	412,628	72,166	21.20	
Business and Financial Operations	424,489	491,141	66,652	15.70	
Education, Training, and Library	428,680	493,473	64,793	15.11	
Healthcare Support	230,511	281,550	51,039	22.14	
Installation, Maintenance, and Repair	343,163	387,924	44,761	13.04	
Transportation and Material Moving	455,212	497,685	42,473	9.33	
Building and Grounds Cleaning and Maintenance	350,963	393,365	42,402	12.08	
Personal Care and Service	266,811	307,346	40,535	15.19	
Management	373,251	403,924	30,673	8.22	
Computer and Mathematical	177,555	207,133	29,578	16.66	
Protective Service	222,884	244,966	22,082	9.91	
Production	296,939	315,234	18,295	6.16	
Community and Social Services	113,554	131,200	17,646	15.54	
Legal	94,323	108,655	14,332	15.19	
Arts, Design, Entertainment, Sports, and Media	141,360	154,837	13,477	9.53	
Architecture and Engineering	104,225	116,160	11,935	11.45	
Life, Physical, and Social Science	43,620	50,184	6,564	15.05	
Farming, Fishing, and Forestry	67,748	67,107	(641)	-0.95	



## Employment Change by Major Occupational Group Florida 2013-2021



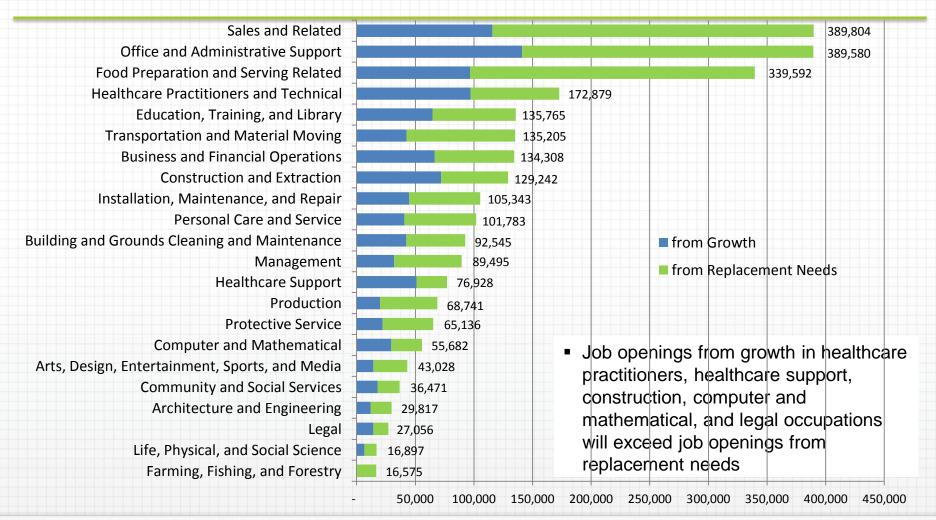


#### Florida Job Openings to 2021

- Openings include:
  - Newly created jobs due to industry growth
  - Vacancies due to workers changing occupations, retiring, or leaving the workforce
- Openings do not include moving from one employer to another within the same occupation
- There are 2,651,872 projected total job openings, cumulative for the period 2013-2021:
  - 1,607,420 openings due to replacement needs (Baby Boomers retiring)
  - 1,044,452 openings due to industry growth
- Of the 2,651,872 projected total job openings:
  - 2,294,339 (86 percent) will require an Associate degree or less
  - 252,983 (10 percent) will require a Bachelor's degree
  - 104,550 (4 percent) will require a Master's degree or higher



### Projected Job Openings by Major Occupational Group Florida 2013-2021





## Occupational Employment Projections to 2021

- Of the top 10 occupations expected to gain the most new jobs, most are among the largest occupations in the state; have widespread demand within numerous industries; involve considerable part-time work; and have minimal requirements for entry
- All 10 occupations expected to gain the most jobs are in service industries
- Workers in the postal service, publishing, and farming are among the top 10 declining occupations



## Occupations Gaining the Most New Jobs Florida 2013-2021

		EMPLO	YMENT _	ANNUAL	CHANGE	AVERAGE HOURLY	FL DOE TRAINING
RANK	OCCUPATIONAL TITLE	2013	2021	LEVEL	PERCENT	WAGE	CODE
1	Retail Salespersons	331,438	375,910	5,559	1.68	11.81	High School
2	Registered Nurses	169,380	202,635	4,157	2.45	30.28	Associate
3	Customer Service Representatives	190,248	213,917	2,959	1.56	14.21	PSAV
4	Food Prep. & Serving Workers, incl. Fast Food	183,508	206,555	2,881	1.57	8.87	Less than H.S.
5	Waiters and Waitresses	193,583	215,839	2,782	1.44	10.03	Less than H.S.
6	Office Clerks, General	147,743	169,007	2,658	1.80	13.22	High School
7	Nursing Assistants	88,258	106,266	2,251	2.55	11.72	PSAV
8	Landscaping and Groundskeeping Workers	96,958	114,575	2,202	2.27	11.26	Less than H.S.
9	Cashiers	210,410	225,838	1,928	0.92	9.34	High School
10	Receptionists and Information Clerks	77,264	92,500	1,904	2.47	12.72	High School

H.S.– High School PSAV – Postsecondary Adult Vocational Certificate



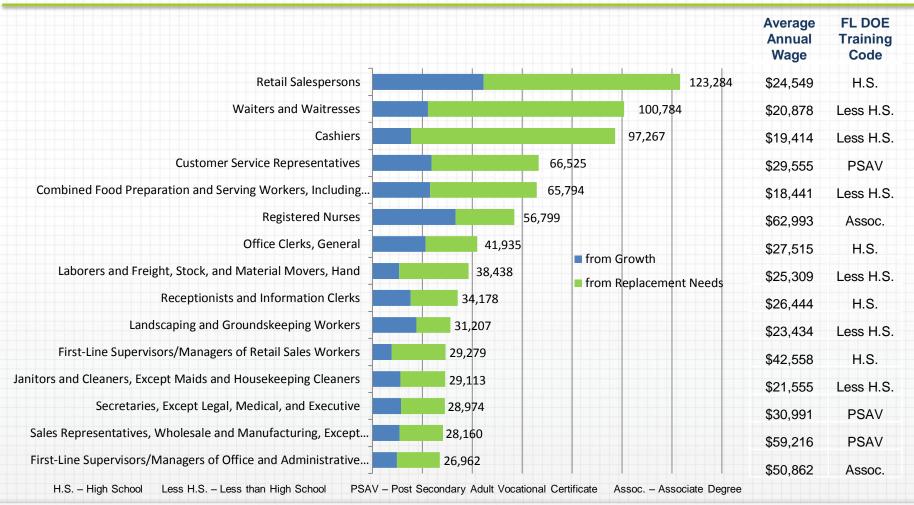
#### Occupations with the Largest Projected Employment Declines Florida 2013-2021

ANK 1 F	OCCUPATIONAL TITLE  Postal Service Mail Sorters and Processors	2013	2021	LEVEL	PERCENT	WAGE	TRAINING
		2010	2021		1 LIXOLIVI	IIAOL	
4 6	Postal Sarvice Mail Serters and Bressers						
I F	Postal Service Mail Softers and Processors	6,721	4,140	-2,581	-38.40	24.78	High School
2 F	Postal Service Clerks	3,642	2,243	-1,399	-38.41	25.06	High School
3 5	Switchboard Operators, incl. Answering Svc	7,055	5,780	-1,275	-18.07	12.08	High School
4 F	Farmers, Ranchers, and Other Ag. Managers	47,806	46,651	-1,155	-2.42	33.34	Associate
5 F	Postal Service Mail Carriers	16,808	15,794	-1,014	-6.03	25.84	High School
6 [	Data Entry Keyers	19,861	19,134	-727	-3.66	13.30	High School
7 F	Farmworkers & Laborers, Crop and Nursery	49,085	48,429	-656	-1.34	9.46	Less than H.S
8 E	Editors	4,315	3,912	-403	-9.34	33.24	Bachelor's
9 F	Reporters and Correspondents	2,756	2,378	-378	-13.72	22.22	Bachelor's
10 F	Prepress Technicians and Workers	1,955	1,578	-377	-19.28	15.78	PSAV

H.S.– High School
PSAV – Postsecondary Adult Vocational Certificate



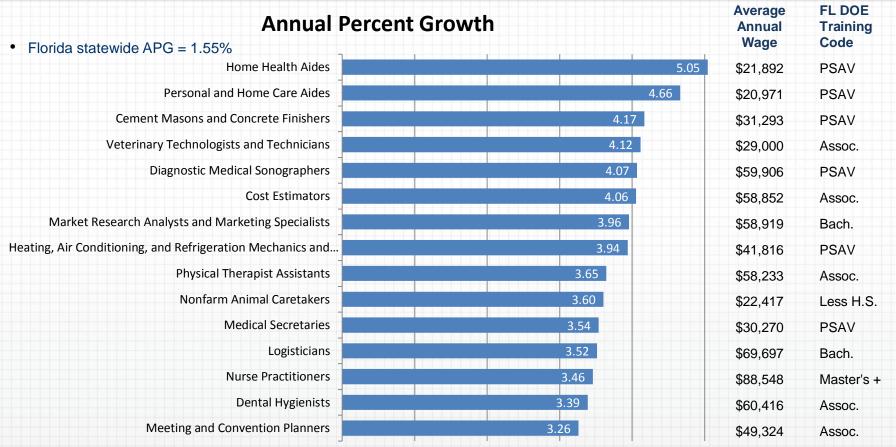
# Occupations with the Most Projected Openings All Training Levels Florida 2013-2021







# Fastest-Growing Occupations\* All Training Levels Florida 2013-2021



\*This table includes occupations with a minimum of 4,000 jobs in 2013

H.S. – High School Less H.S. – Less than High School Assoc. – Associate Degree Bach. – Bacheld

an High School PSAV – Post Secondary Adult Vocational Certificate
Bach. – Bachelor's Degree Master's + – Master's Degree or Higher

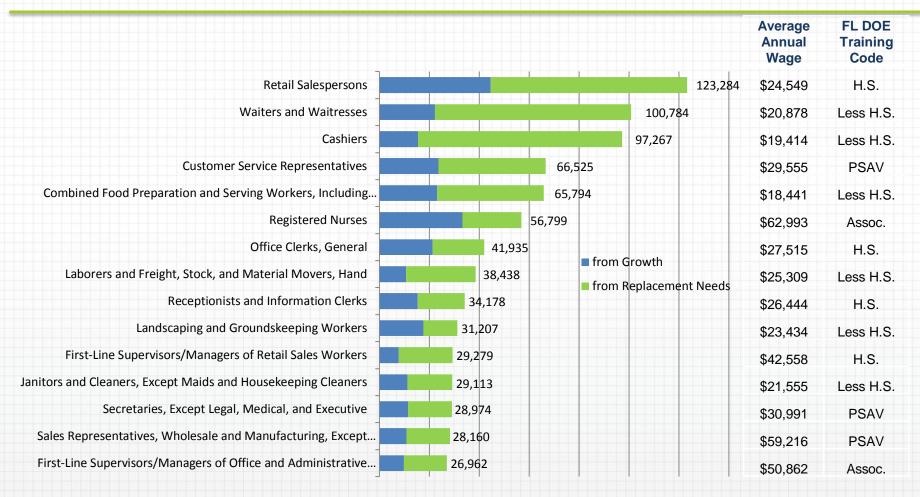


## Wages by Training Level Florida 2013

	Average Annual	Entry Annual
Training Level	Wage	Wage
Total All Education Lavala	¢42.044	¢27.020
Total, All Education Levels	\$42,041	\$27,939
Master's or Higher	\$100,465	\$58,461
Bachelor's	\$69,453	\$43,117
Associate	\$63,329	\$40,567
Post Sec. Adult Voc. Certificate	\$38,009	\$25,380
High School	\$28,315	\$20,035
Less Than High School	\$21,914	\$17,474



## Occupations with the Most Projected Openings Associate, PSAV, High School, and Lower Education Level Florida 2013-2021



H.S. - High School

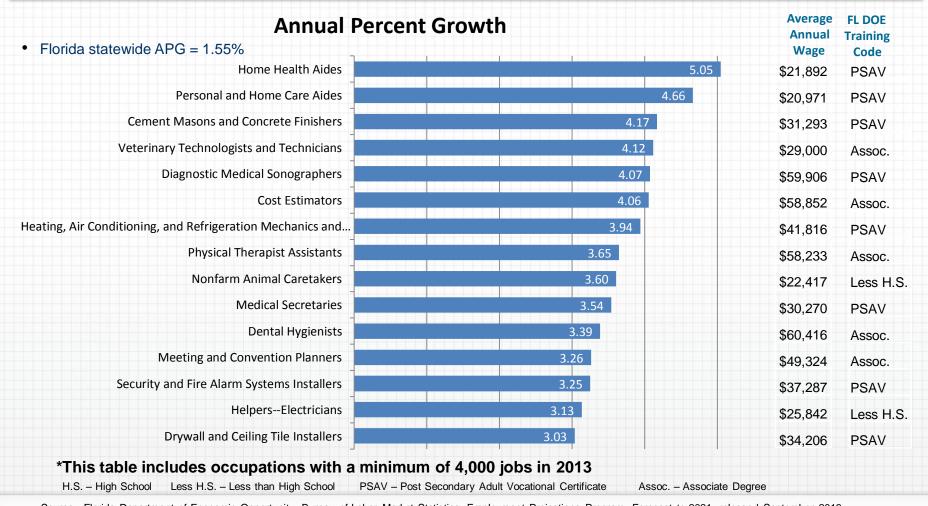
Less H.S. - Less than High School

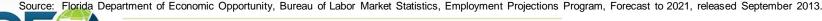
PSAV - Post Secondary Adult Vocational Certificate

Assoc. – Associate Degree



## Fastest-Growing Occupations\* Associate, PSAV, High School, and Lower Education Level Florida 2013-2021



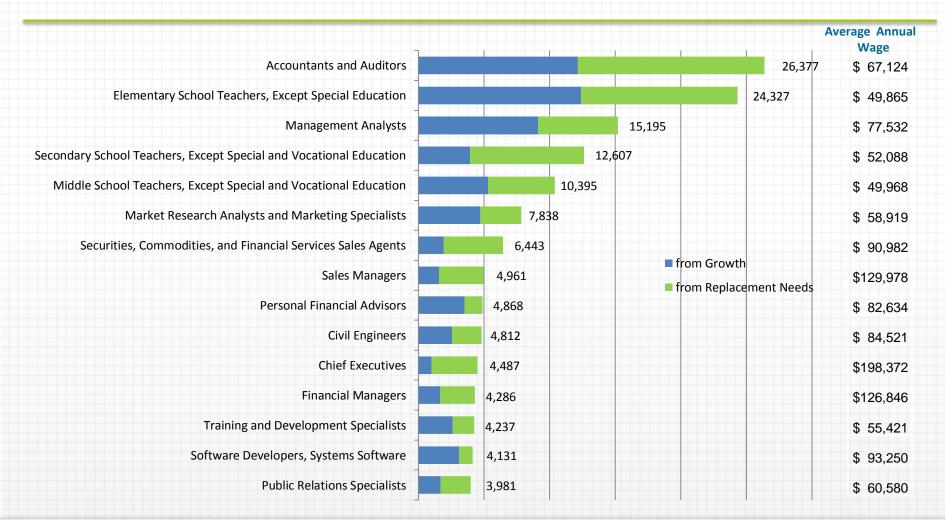


## Highest-Paying Occupations Associate, PSAV, High School, and Lower Education Level Florida 2013

	Average
	Annual
Occupational Title	Wage
1. Airline Pilots, Copilots, and Flight Engineers	\$131,336
2. Air Traffic Controllers	\$120,771
3. Compensation and Benefits Managers	\$114,045
4. General and Operations Managers	\$113,583
5. Purchasing Managers	\$111,713
6. Training and Development Managers	\$103,828
7. Industrial Production Managers	\$103,488
8. Administrative Services Managers	\$101,903
9. Transportation, Storage, and Distribution Managers	\$93,982
10. Transportation Inspectors	\$92,288

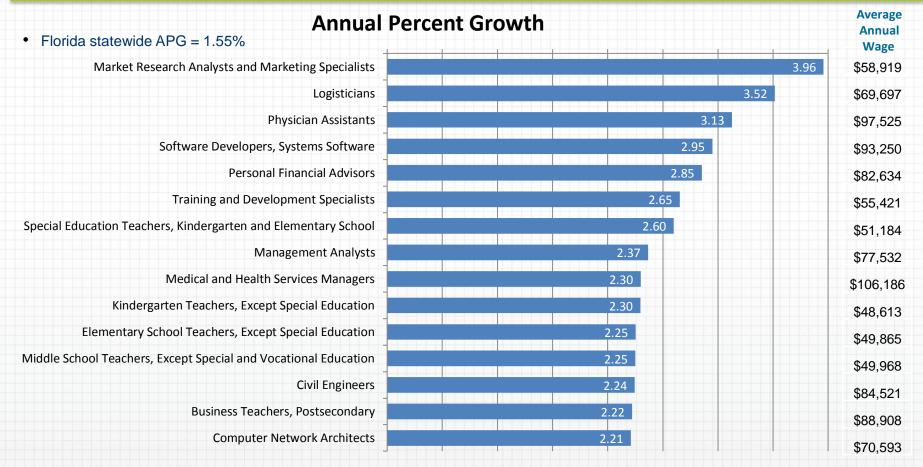


# Occupations with the Most Projected Openings Bachelor's Degree Level Florida 2013-2021





# Fastest-Growing Occupations\* Bachelor's Degree Level Florida 2013-2021



\*This table includes occupations with a minimum of 4,000 jobs in 2013



# Highest-Paying Occupations Bachelor's Degree Level Florida 2013

	Average
	Annual
Occupational Title	Wage
1. Chief Executives	\$198,372
2. Computer and Information Systems Managers	\$132,983
3. Sales Managers	\$129,978
4. Financial Managers	\$126,846
5. Engineering Managers	\$119,423
6. Marketing Managers	\$116,658
7. Sales Engineers	\$116,650
8. Broadcast News Analysts	\$114,552
9. Natural Sciences Managers	\$110,588
10. Public Relations Managers	\$110,207

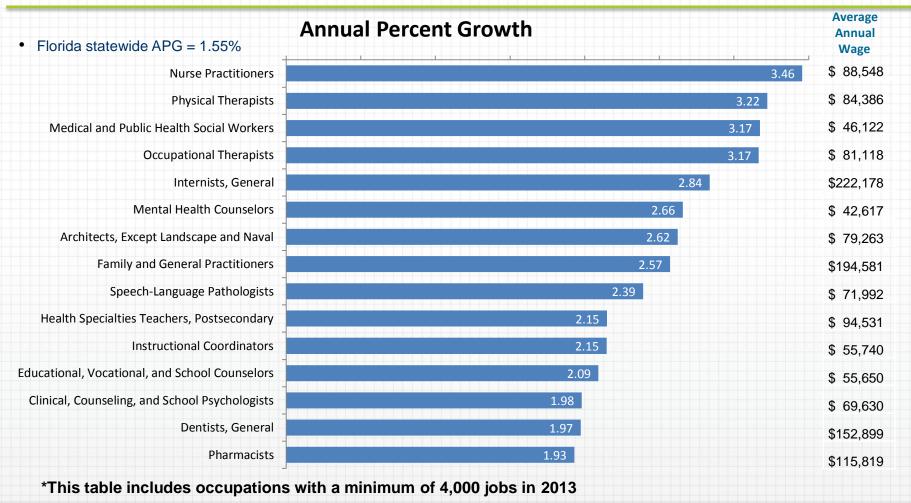


# Occupations with the Most Projected Openings Master's or Higher Degree Level Florida 2013-2021





# Fastest-Growing Occupations\* Master's or Higher Degree Level Florida 2013-2021



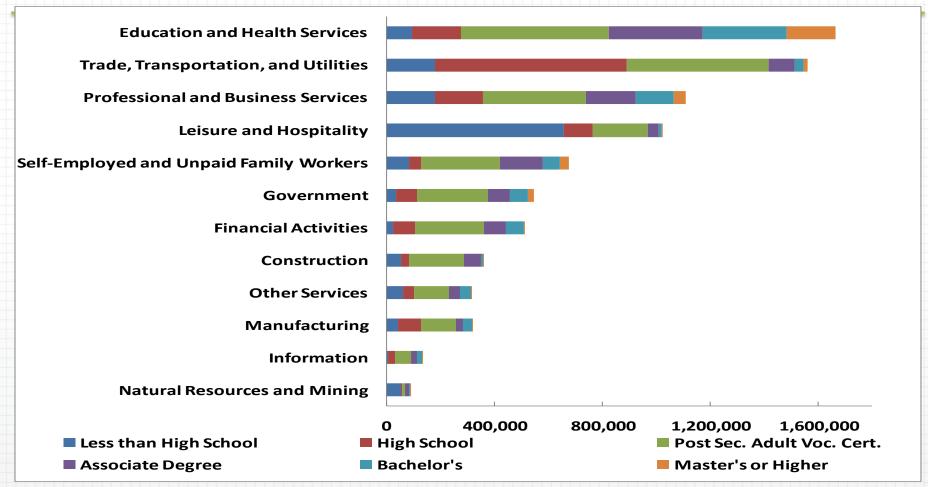


# Highest-Paying Occupations Master's or Higher Degree Level Florida 2013

	Average
	Annual
Occupational Title	Wage
1. Anesthesiologists	\$262,547
2. Surgeons	\$235,316
3. Obstetricians and Gynecologists	\$226,683
4. Internists, General	\$222,178
5. Oral and Maxillofacial Surgeons	\$201,690
6. Family and General Practitioners	\$194,581
7. Psychiatrists	\$186,408
8. Prosthodontists	\$175,239
9. Pediatricians, General	\$169,102
10. Orthodontists	\$166,044



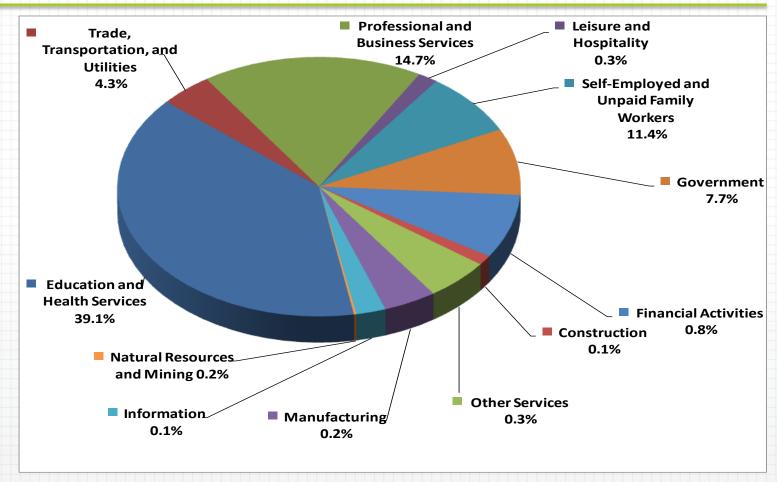
#### Number of Jobs by Educational Requirement by Industry Florida 2013





### Jobs Requiring a Bachelor's Degree by Industry Florida 2013

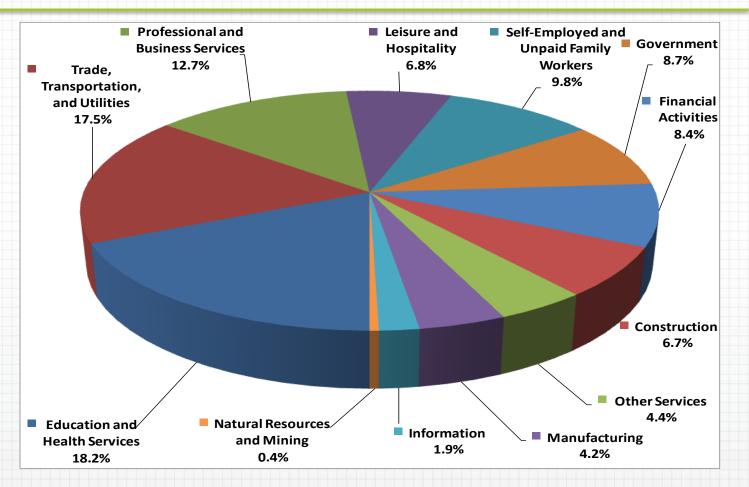
Close to 40
 percent of
 all jobs
 requiring a
 Bachelor's
 degree are
 in education
 and health
 services





#### Jobs Requiring a PSAV or an Associate Degree by Industry Florida 2013

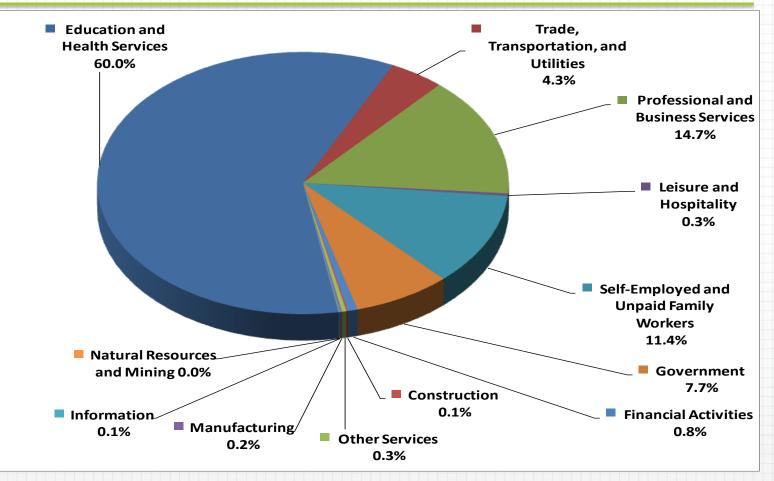
More than
 18 percent
 of all jobs
 requiring a
 PSAV or an
 Associate
 degree are
 in education
 and health
 services





#### Jobs Requiring a Master's or Higher Degree by Industry Florida 2013

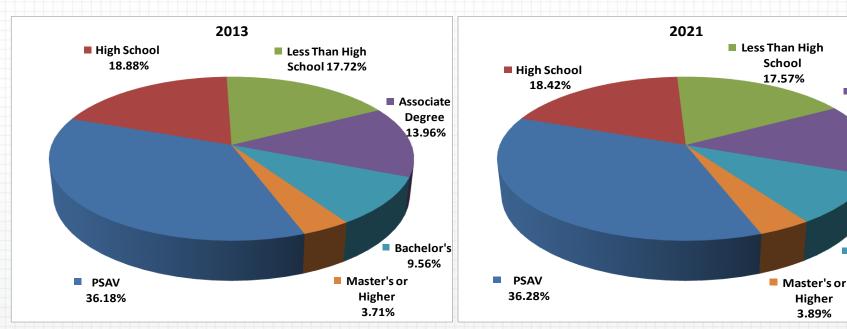
 60 percent of all jobs requiring a Master's degree or higher are in education and health services





## Employment by Training Level Florida 2013 vs. 2021

 The proportion of jobs requiring a high school diploma will decrease slightly, while the proportion of new jobs requiring a Bachelor's degree or higher will increase slightly between 2013 and 2021



PSAV = Postsecondary Adult Vocational Certificate

Source: Florida Department of Economic Opportunity, Bureau of Labor Market Statistics, Employment Projections Program, Forecast to 2021, released September 2013.



Associate

Degree

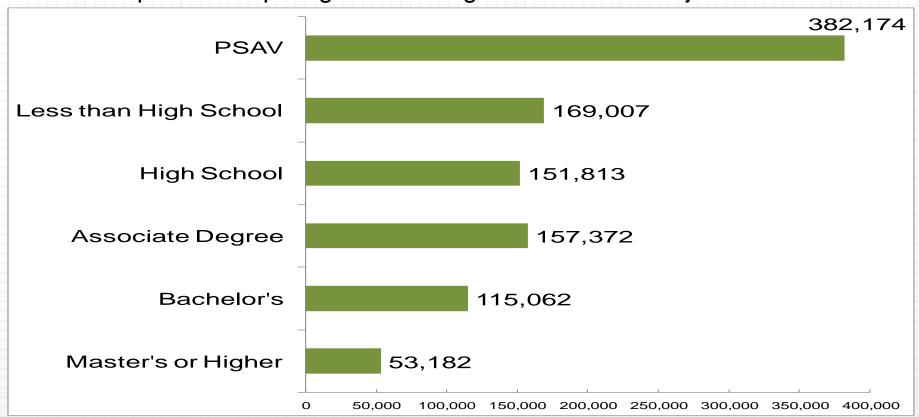
14.10%

Bachelor's

9.73%

#### New Jobs by Training Level Employment Level Change Florida 2013-2021

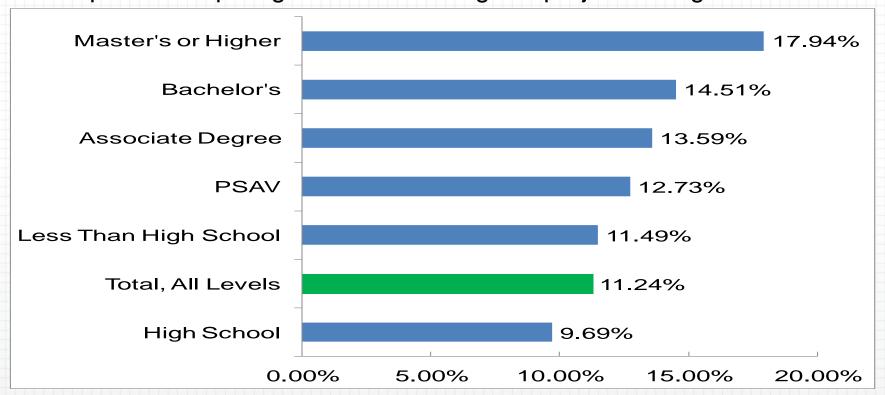
Occupations requiring PSAV will gain the most new jobs





# New Jobs by Training Level Percent Change Florida 2013-2021

Occupations requiring the most training are projected to grow the fastest



PSAV = Postsecondary Adult Vocational Certificate



#### **Contact Information**

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