

Workforce Estimating Conference January 9th, 2012

ACTION MINUTES

The Workforce Estimating Conference met on January 9, 2012. The agenda included an update from the Florida Department of Economic Opportunity on Florida's labor market conditions and the demand for bachelor's degrees, as well as a review of the proposed list of targeted occupations for occupations requiring a bachelor's degree. The Board of Governors also provided an update of the state university system strategic planning efforts relating to specific degree production.

Handouts from the meeting are posted at:

<http://edr.state.fl.us/Content/conferences/workforce/index.cfm>.

The proposed list of targeted occupations was based on revised bachelor's degree occupation criteria. Both the list and the criteria were approved by the conference, including criteria used to define STEM occupations (Science, Technology, Engineering and Math). The list, "2012-13 High Demand Occupations Requiring a Bachelor's Degree", included 40 occupations. Approximately 40% of the occupations were identified as STEM occupations. The approved criteria are shown below.

Bachelor's Degree Occupation List Selection Criteria:

1. Training Level:	Bachelor's Degree
2. Annual Openings & Growth Rate:	50 annual openings with average growth rate of 1.62% OR 150 annual openings with any positive growth
3. Mean Wage & Entry Wage:	Mean wage \$50,000/year; Entry wage \$35,000/year

To support its designation of STEM occupations, the conference requested additional information on the STEM classification process.

The conference also requested department staff to develop an additional occupations list for master's degrees and above. The recommended criteria are shown below:

Master's Degree and Above Occupation List Selection Criteria:

1. Training Level:	Master's Degree and Above
2. Annual Openings & Growth Rate:	50 annual openings with average growth rate of 1.62% OR 150 annual openings with any positive growth
3. Mean Wage & Entry Wage:	Mean wage \$60,000/year; Entry wage \$42,000/year

The next meeting of the Workforce Conference will be scheduled in February of 2012 and will include a presentation of the Master's Degree or Higher occupations list for potential adoption and a presentation on demographic implications for the labor market through 2030 for information.

2012-13 High Demand Occupations Requiring a Bachelor's Degree

Sorted by Occupational Title

Workforce Estimating Conference Selection Criteria:

- 1 FLDOE Training Code 5 (Bachelor's Degree)
- 2 50 annual openings and average growth rate of 1.62 percent or higher or 150 annual openings with any positive growth
- 3 Mean Wage of \$24.04/hour (\$50,000/year) and Entry Wage of \$16.83/hour (\$35,000/year)

SOC Code†	Occupational Title†	Annual		2011 Hourly Wage		FLDOE Training Code	STEM Occupation?
		Percent Growth	Annual Openings	Mean	Entry		
132011	Accountants and Auditors	2.42	3,296	31.06	18.93	5	Yes
271011	Art Directors**	1.97	89	34.49	22.87	5	No
132031	Budget Analysts	1.82	107	30.41	20.78	5	No
111011	Chief Executives**	0.64	736	89.58	47.76	5	No
172051	Civil Engineers	3.36	697	39.54	25.24	5	Yes
113021	Computer and Information Systems Managers**	1.78	248	59.46	39.77	5	Yes
251021	Computer Science Teachers, Postsecondary	1.71	75	51.02	23.13	5	Yes
151032	Computer Software Engineers, Systems Software	2.54	385	42.63	28.69	5	Yes
273041	Editors	1.17	189	33.26	17.97	5	No
119032	Education Administrators, Elementary and Secondary**	1.35	192	54.70	41.17	5	No
172071	Electrical Engineers	1.06	225	39.08	25.32	5	Yes
252021	Elementary School Teachers, Except Special Education	2.11	3,057	30.78	22.05	5	No
119041	Engineering Managers**	1.78	156	57.24	39.86	5	Yes
172081	Environmental Engineers	2.14	124	32.87	19.52	5	Yes
192041	Environmental Scientists & Specialists, Including Health	1.20	261	27.03	17.36	5	Yes
132051	Financial Analysts	2.42	305	32.99	21.32	5	Yes
113031	Financial Managers**	1.36	561	56.41	32.28	5	Yes
172112	Industrial Engineers	2.49	467	33.27	20.64	5	Yes
252012	Kindergarten Teachers, Except Special Education	2.03	451	30.41	21.64	5	No
171012	Landscape Architects	3.36	83	33.23	20.66	5	No
131081	Logisticians	2.31	149	31.85	20.63	5	Yes
131111	Management Analysts**	1.67	1,649	36.22	19.13	5	No
112021	Marketing Managers	2.12	237	51.93	26.79	5	No
172141	Mechanical Engineers	1.65	236	37.07	24.06	5	Yes
119111	Medical and Health Services Managers**	1.99	344	48.74	31.04	5	No
252022	Middle School Teachers, Exc. Special & Voc. Education	2.07	1,294	31.37	23.34	5	No
291071	Physician Assistants	4.11	237	43.03	31.55	5	Yes
112031	Public Relations Managers**	1.81	60	51.97	31.03	5	No
273031	Public Relations Specialists	2.82	822	28.00	16.97	5	No
291111	Registered Nurses*	2.36	6,294	30.83	22.99	4/5	Yes
112022	Sales Managers	2.50	692	61.64	29.81	5	No
252031	Secondary School Teachers, Exc. Special and Voc. Ed.	1.40	1,672	32.53	23.92	5	No
413031	Securities and Financial Services Sales Agents	0.84	739	42.91	18.84	5	No
252042	Special Education Teachers, Middle School	2.35	203	32.42	24.14	5	No
252041	Special Education Teachers, Preschool - Elementary	2.38	495	32.71	24.04	5	No
252043	Special Education Teachers, Secondary School	1.81	193	32.77	23.54	5	No
171022	Surveyors	2.55	117	28.72	17.44	5	Yes
273042	Technical Writers	1.92	57	27.23	18.16	5	No
193051	Urban and Regional Planners	2.45	104	31.07	22.10	5	No
252032	Vocational Education Teachers, Secondary School**	1.25	195	35.40	23.54	5	No

Occupations in **bold** are found in industries that have experienced job declines in the economic downturn that began in 2007. These occupations may currently have an oversupply of trained workers, but are projected to have strong demand over the long term.

†SOC Code and Occupational Title refer to Standard Occupational Classification codes and titles.

* Entrance into the occupation can be obtained with either an associate's degree or a bachelor's degree. Due to the strong labor market demand for registered nurses, this occupation is being recommended for targeting by both the workforce system (2 years or less programs) and by the four year degree institutions as well.

** Entrance into the occupation is typically obtained with a bachelor's degree accompanied by relevant work experience.

Source: Florida Department of Economic Opportunity, Labor Market Statistics Center, January 2012.

Occupations Added to 2012-13 High Demand Occupations Requiring a Bachelor's Degree

Workforce Estimating Conference Selection Criteria:

- 1 FLDOE Training Code 5 (Bachelor's Degree)
- 2 50 annual openings and average growth rate of 1.62 percent or higher or 150 annual openings with any positive growth
- 3 Mean Wage of \$24.04/hour (\$50,000/year) and Entry Wage of \$16.83/hour (\$35,000/year)

SOC Code†	Occupational Title†	Annual	Annual	2011 Hourly Wage		FLDOE	STEM	Reason
		Percent		Openings	Mean	Entry		
		Growth		Mean	Entry	Code	Occupation?	Added*
Occupations in bold are found in industries that have experienced job declines in the economic downturn that began in 2007. These occupations may currently have an oversupply of trained workers, but are projected to have strong demand over the long term.								
132031	Budget Analysts	1.82	107	30.41	20.78	5	No	G
273041	Editors	1.17	189	33.26	17.97	5	No	EW
273031	Public Relations Specialists	2.82	822	28.00	16.97	5	No	EW

†SOC Code and Occupational Title refer to Standard Occupational Classification codes and titles.

*EW = Entry Wage, G = Annual Percent Growth.

2012-13 Final Florida Statewide Demand Occupations List

Sorted by Occupational Title

Workforce Estimating Conference Selection Criteria:

- 1 FLDOE Training Codes 3 (PSAV Certificate) and 4 (Community College Credit/Degree)
- 2 150 annual openings and average growth rate of 1.62% or 360 annual openings with any positive growth
- 3 Mean Wage of \$13.07/hour and Entry Wage of \$10.62/hour
- 4 High Skill/High Wage (HSHW) Occupations: Mean Wage of \$20.48/hour and Entry Wage of \$13.07/hour

SOC Code†	HSHW††	Occupational Title‡	Annual	Annual	2011 Hourly Wage		FLDOE	In EFI	New to List?
			Percent Growth	Openings	Mean	Entry	Training Code	Targeted Industry?	
Occupations with titles in bold type and followed by an asterisk (*) are found in declining industries and are not projected to return to their historical peak during the forecast period. They may have an oversupply of trained workers.									
113011	HSHW	Administrative Services Managers	1.71	325	47.99	29.25	4	Yes	
413011		Advertising Sales Agents*	2.25	377	22.81	12.83	3	Yes	
173011	HSHW	Architectural and Civil Drafters	2.42	346	22.66	15.44	3	Yes	Yes
274011		Audio and Video Equipment Technicians	2.38	206	19.12	12.20	4	Yes	
493023		Automotive Service Technicians and Mechanics*	1.54	1,482	18.34	11.54	3	Yes	
433031		Bookkeeping, Accounting, and Auditing Clerks*	1.67	3,261	16.18	11.44	4	Yes	
472021		Brickmasons and Blockmasons*	3.28	263	18.40	13.44	3	No	
131199	HSHW	Business Operations Specialists, All Other	1.69	2,921	30.20	17.04	4	Yes	
535021		Captains, Mates, and Pilots of Water Vessels	2.33	230	27.36	10.94	3	No	
292031		Cardiovascular Technologists and Technicians	2.25	186	20.51	11.93	3	Yes	
472031		Carpenters*	2.87	1,864	17.38	11.41	3	Yes	
472051		Cement Masons and Concrete Finishers*	3.76	464	15.49	11.16	3	No	
173022	HSHW	Civil Engineering Technicians	2.21	168	24.34	16.45	4	Yes	Yes
131031	HSHW	Claims Adjusters, Examiners, and Investigators*	1.35	620	27.12	17.53	3	Yes	
532012	HSHW	Commercial Pilots	1.91	182	44.77	20.44	3	Yes	
131072	HSHW	Compensation, Benefits, and Job Analysis Specialists*	2.71	219	25.73	17.25	4	Yes	
131041	HSHW	Compliance Officers, Exc. Safety, Agri, Constr & Transp.	2.76	742	27.12	16.72	3	Yes	
151031	HSHW	Computer Software Engineers, Applications	3.09	737	40.80	25.54	4	Yes	
151041		Computer Support Specialists	1.61	1,494	19.91	13.84	3	Yes	
151051	HSHW	Computer Systems Analysts*	2.12	945	34.90	23.24	4	Yes	
474011	HSHW	Construction and Building Inspectors	2.43	283	25.96	18.13	3	Yes	
119021	HSHW	Construction Managers*	2.66	943	48.01	28.20	4	Yes	
333012		Correctional Officers and Jailers*	0.08	781	19.34	15.33	3	No	
131051	HSHW	Cost Estimators*	4.47	684	27.88	17.75	4	Yes	
151061	HSHW	Database Administrators*	1.96	185	34.38	22.70	4	Yes	
319091		Dental Assistants	3.72	844	16.17	12.11	3	Yes	
292021	HSHW	Dental Hygienists	3.86	525	28.55	20.50	4	Yes	
292032	HSHW	Diagnostic Medical Sonographers	1.82	154	27.88	21.77	3	Yes	
472081		Drywall and Ceiling Tile Installers*	3.97	271	15.79	12.06	3	No	
492094	HSHW	Electrical and Electronics Repairers, Coml. and Ind. Equipment	1.70	174	22.42	14.19	3	Yes	Yes
472111		Electricians*	2.23	1,370	19.65	14.34	3	Yes	
292041		Emergency Medical Technicians and Paramedics	1.64	326	15.50	10.98	4	Yes	Yes
131071	HSHW	Employment, Recruitment, and Placement Specialists	3.46	944	22.60	15.02	4	Yes	
436011		Executive Secretaries and Administrative Assistants*	1.81	2,900	20.04	14.34	3	Yes	
332011	HSHW	Fire Fighters	2.25	1,166	24.36	14.83	3	No	
471011	HSHW	First-Line Superv. of Construction and Extraction Workers*	3.07	2,071	28.42	18.62	4	Yes	
351012		First-Line Superv. of Food Preparation & Serving Workers	1.14	900	16.48	11.16	3	Yes	
371012	HSHW	First-Line Superv. of Landscaping and Groundskeeping	2.18	454	21.01	14.46	3	No	
491011	HSHW	First-Line Superv. of Mechanics, Installers, and Repairers*	1.45	851	28.85	19.02	3	Yes	
431011	HSHW	First-Line Superv. of Office and Admin. Support Workers	1.85	3,181	23.14	14.95	4	Yes	
511011	HSHW	First-Line Superv. of Production and Operating Workers*	0.59	363	26.93	17.59	3	Yes	
411012	HSHW	First-Line Supervisors of Non-Retail Sales Workers*	1.29	988	44.80	24.69	4	Yes	
391021		First-Line Supervisors of Personal Service Workers*	1.72	623	19.34	12.10	3	Yes	
411011		First-Line Supervisors of Retail Sales Workers	1.22	3,277	20.86	12.98	3	Yes	
119051	HSHW	Food Service Managers	1.08	528	27.13	18.63	4	Yes	

2012-13 Final Florida Statewide Demand Occupations List

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			Percent Growth	Openings	Mean	Entry	Training Code	Targeted Industry?	
Occupations with titles in bold type and followed by an asterisk (*) are found in declining industries and are not projected to return to their historical peak during the forecast period. They may have an oversupply of trained workers.									
111021	HSHW	General and Operations Managers*	0.72	1,956	49.96	24.91	4	Yes	
472121		Glaziers*	3.23	204	17.24	11.48	3	Yes	
271024	HSHW	Graphic Designers	1.84	746	20.89	13.73	4	Yes	
292099		Health Technologists and Technicians, All Other	1.82	184	18.98	12.87	3	Yes	
499021		Heating, A.C., and Refrigeration Mechanics and Installers	3.95	1,227	19.20	13.19	3	Yes	
499041	HSHW	Industrial Machinery Mechanics	2.44	404	21.97	15.27	3	Yes	
413021	HSHW	Insurance Sales Agents	1.41	1,828	29.98	14.96	3	Yes	
271025	HSHW	Interior Designers*	2.86	219	23.85	13.30	4	Yes	
436012		Legal Secretaries*	1.54	458	19.68	13.68	3	Yes	
292061		Licensed Practical and Licensed Vocational Nurses	2.33	2,481	19.68	16.16	3	Yes	
434131		Loan Interviewers and Clerks*	1.25	527	16.99	12.52	3	Yes	
132072	HSHW	Loan Officers*	1.39	610	28.22	16.52	4	Yes	
499042		Maintenance and Repair Workers, General	1.74	2,486	15.74	10.72	3	Yes	
292012		Medical and Clinical Laboratory Technicians	2.07	292	17.39	11.21	4	Yes	
319092		Medical Assistants	3.16	1,524	14.12	11.05	3	Yes	
499062		Medical Equipment Repairers	3.77	198	18.50	11.72	3	Yes	
292071		Medical Records and Health Information Technicians	2.13	439	16.57	10.81	4	Yes	Yes
436013		Medical Secretaries*	2.37	711	13.90	10.98	3	Yes	
319094		Medical Transcriptionists	1.73	150	14.89	11.25	3	Yes	Yes
131121	HSHW	Meeting and Convention Planners	2.90	187	22.13	14.03	4	Yes	
493042	HSHW	Mobile Heavy Equipment Mechanics, Except Engines*	2.36	168	20.54	14.51	3	No	
151071	HSHW	Network and Computer Systems Administrators	2.16	546	34.32	22.45	4	Yes	
151081	HSHW	Network Systems and Data Communications Analysts	5.07	1,409	34.54	21.46	3	Yes	
472073		Operating Engineers/Construction Equipment Operators*	2.18	588	17.48	12.88	3	Yes	
292081		Opticians, Dispensing	1.63	159	17.79	11.79	4	Yes	Yes
232011	HSHW	Paralegals and Legal Assistants	2.70	812	22.59	15.16	3	Yes	
312021	HSHW	Physical Therapist Assistants	3.09	167	26.93	20.22	4	Yes	
472151		Pipelayers*	2.10	155	16.24	12.24	3	No	
472152		Plumbers, Pipefitters, and Steamfitters*	2.34	966	19.17	13.17	3	Yes	
333051	HSHW	Police and Sheriff's Patrol Officers*	1.13	1,256	27.20	18.71	3	No	
435031		Police, Fire, and Ambulance Dispatchers	2.27	262	18.66	13.15	3	Yes	
339021	HSHW	Private Detectives and Investigators	2.83	193	23.43	15.44	4	Yes	
119141	HSHW	Property, Real Estate & Community Association Managers	1.33	596	29.61	16.54	4	Yes	
131023	HSHW	Purchasing Agents, Except Farm Products & Trade	2.20	630	26.87	17.52	4	Yes	
292034	HSHW	Radiologic Technologists and Technicians	1.66	427	25.27	19.19	3	Yes	
419021	HSHW	Real Estate Brokers	2.00	521	30.61	13.81	3	Yes	
419022		Real Estate Sales Agents*	2.47	1,627	19.81	10.80	3	Yes	
291111	HSHW	Registered Nurses	2.36	6,294	30.83	22.99	4	Yes	
291126	HSHW	Respiratory Therapists	2.20	257	24.97	20.62	4	Yes	
472181		Roofers*	2.84	447	15.58	11.68	3	No	
535011		Sailors and Marine Oilers*	1.81	182	16.83	11.12	3	No	
414011	HSHW	Sales Representatives, Wholesale & Mfg, Tech. & Sci. Products	1.78	1,246	41.77	22.70	3	Yes	
414012	HSHW	Sales Representatives, Wholesale and Manufacturing, Other*	1.82	3,260	28.34	14.52	3	Yes	
492098		Security and Fire Alarm Systems Installers	3.74	404	17.83	13.32	3	No	
472211		Sheet Metal Workers*	2.49	259	17.89	12.60	3	Yes	

2012-13 Final Florida Statewide Demand Occupations List

Sorted by Occupational Title

Workforce Estimating Conference Selection Criteria:

- 1 FLDOE Training Codes 3 (PSAV Certificate) and 4 (Community College Credit/Degree)
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- 3 Mean Wage of \$13.07/hour and Entry Wage of \$10.62/hour
- 4 High Skill/High Wage (HSHW) Occupations:
Mean Wage of \$20.48/hour and Entry Wage of \$13.07/hour

SOC Code†	HSHW††	Occupational Title†	Annual	Annual	2011 Hourly Wage		FLDOE	In EFI	New
			Percent		Openings	Mean			
Occupations with titles in bold type and followed by an asterisk (*) are found in declining industries and are not projected to return to their historical peak during the forecast period. They may have an oversupply of trained workers.									
211093		Social and Human Service Assistants	1.28	360	14.37	11.02	3	Yes	Yes
292055		Surgical Technologists	2.56	304	18.12	14.55	3	Yes	
173031		Surveying and Mapping Technicians*	3.31	359	18.40	12.32	3	Yes	
533032		Truck Drivers, Heavy and Tractor-Trailer	2.19	2,763	17.65	12.29	3	Yes	
292056		Veterinary Technologists and Technicians	4.08	397	14.50	10.88	4	Yes	Yes
518031	HSHW	Water and Liquid Waste Treatment Plant Operators	2.31	243	21.74	14.96	3	Yes	
514121		Welders, Cutters, Solderers, and Brazers*	1.49	470	17.55	12.40	3	Yes	

†SOC Code and Occupational Title refer to Standard Occupational Classification codes and titles.

††HSHW = High Skill/High Wage.

EFI - Enterprise Florida, Inc.

Occupations Added To The 2012-13 Final Florida Statewide Demand Occupations List

Workforce Estimating Conference Selection Criteria:

- 1 FLDOE Training Codes 3 (PSAV Certificate) and 4 (Community College Credit/Degree)
- 2 150 annual openings and average growth rate of 1.62% or 360 annual openings with any positive growth
- 3 Mean Wage of \$13.07/hour and Entry Wage of \$10.62/hour
- 4 High Skill/High Wage (HSHW) Occupations:
Mean Wage of \$20.48/hour and Entry Wage of \$13.07/hour

SOC Code†	HSHW††	Occupational Title†	Annual	Annual	2011 Hourly Wage		FLDOE	Reason
			Percent		Openings	Mean		
			Growth				Code	
173011	HSHW	Architectural and Civil Drafters	2.42	346	22.66	15.44	3	G
173022	HSHW	Civil Engineering Technicians	2.21	168	24.34	16.45	4	G
492094	HSHW	Electrical and Electronics Repairers, Coml. and Ind. Equipment	1.70	174	22.42	14.19	3	G
292041		Emergency Medical Technicians and Paramedics	1.64	326	15.50	10.98	4	G
292071		Medical Records and Health Information Technicians	2.13	439	16.57	10.81	4	EW
319094		Medical Transcriptionists	1.73	150	14.89	11.25	3	O
292081		Opticians, Dispensing	1.63	159	17.79	11.79	4	G
211093		Social and Human Service Assistants	1.28	360	14.37	11.02	3	EW
292056		Veterinary Technologists and Technicians	4.08	397	14.50	10.88	4	EW

†SOC Code and Occupational Title refer to Standard Occupational Classification codes and titles.

††HSHW = High Skill/High Wage.

*EW = Entry Wage, G = Annual Percent Growth, O = Annual Openings.

Occupations Dropped From The 2011-12 Final Florida Statewide Demand Occupations List

Workforce Estimating Conference Selection Criteria:

- 1 FLDOE Training Codes 3 (PSAV Certificate) and 4 (Community College Credit/Degree)
- 2 150 annual openings and average growth rate of 1.62% or 360 annual openings with any positive growth
- 3 Mean Wage of \$13.07/hour and Entry Wage of \$10.62/hour
- 4 High Skill/High Wage (HSHW) Occupations: Mean Wage of \$20.48/hour and Entry Wage of \$13.07/hour

SOC Code†	HSHW††	Occupational Title†	Annual Percent Growth	Annual Openings	2011 Hourly Wage		FLDOE Training Code	Reason Dropped*
					Mean	Entry		
434161		Human Resources Assistants, Exc. Payroll	0.23	349	16.62	12.50	3	G, O
472141		Painters, Construction and Maintenance*	2.28	889	14.83	9.80	3	EW
253021		Self-Enrichment Education Teachers*	2.04	414	18.34	10.57	3	EW

†SOC Code and Occupational Title refer to Standard Occupational Classification codes and titles.

††HSHW = High Skill/High Wage.

*EW = Entry Wage, G = Annual Percent Growth, O = Annual Openings.

Workforce Estimating Conference

**Knott Building
Room 117
January 9, 2012
10:00 am
1-888-808-6959
Pass Code 6724792 #**

Agenda

Welcome and Opening Remarks	Amy Baker, Economic and Demographic Research (EDR)
Florida Labor Market Update	Rebecca Rust, Department of Economic Opportunity (DEO)
Labor Market Demand for Bachelor's Degrees	Bill Dobson, DEO
Targeted Occupations Lists for Bachelor's Degrees	Bill Dobson, DEO
Other Items, Closing Remarks	Amy Baker, EDR

Principals of the Workforce Estimating Conference:

Conference Chair: Amy Baker, Economic and Demographic Research

Kurt Hamon, Florida Senate, Education Appropriations Committees

Phillip Miller, Executive Officer of the Governor, Transportation and Economic Development Unit, OPB

Allyce Heflin, Florida House, Education Appropriations Committees



**FLORIDA
DEPARTMENT *of*
ECONOMIC
OPPORTUNITY**

Florida Labor Market and Economic Update

Workforce Estimating Conference

**Labor Market Statistics Center
January 9, 2012**




Labor Force Conditions

Seasonally Adjusted

November 2011

 Florida's unemployment rate has declined from the all time high of 12.0 percent in December 2010, and over the year for nine consecutive months

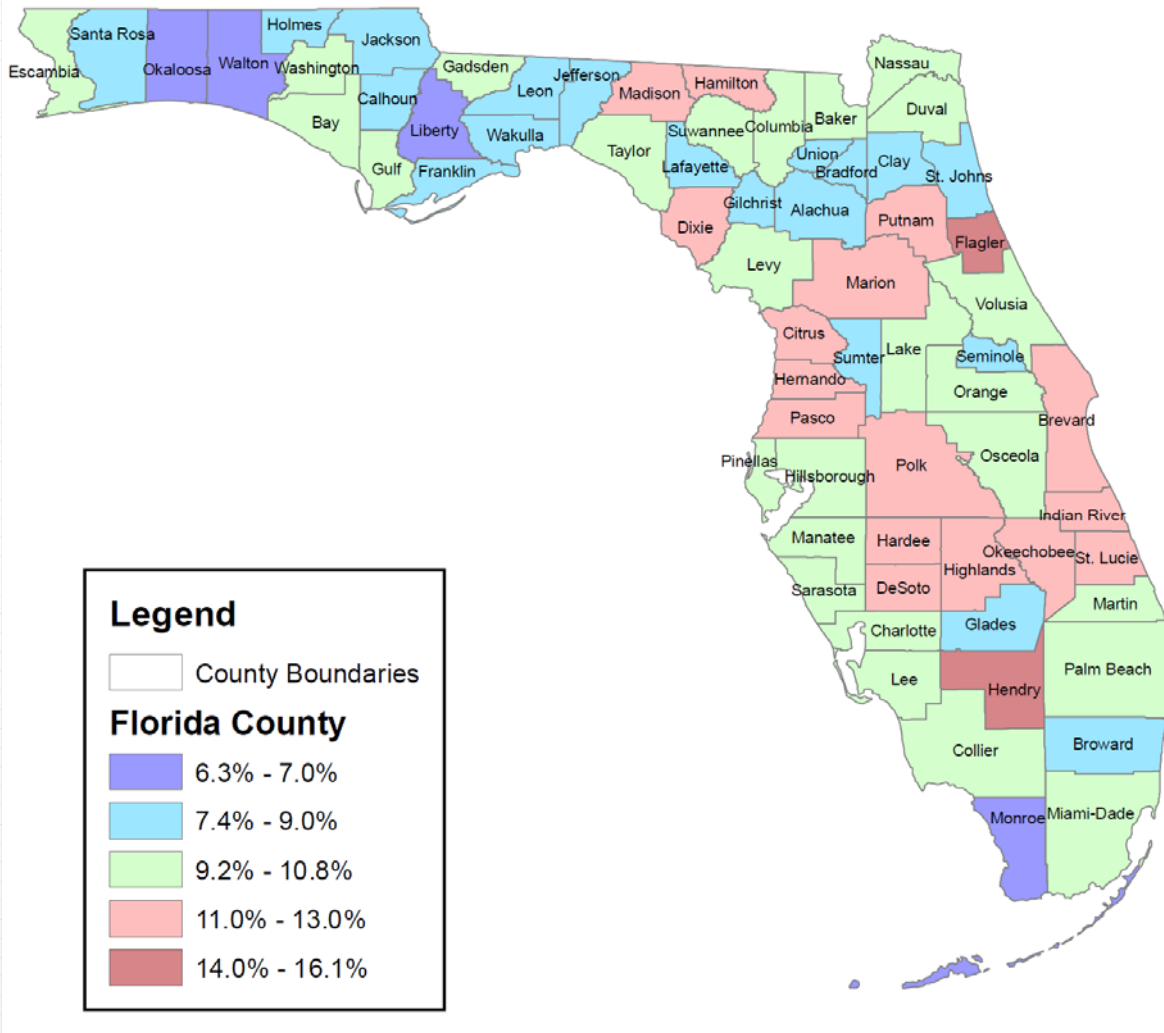
 Florida's November 2011 unemployment rate was the lowest since May 2009

Area	Labor Force	Employment	Unemployment	Unemployment Rate	Year Ago Unemployment Rate
Florida	9,228,000	8,303,000	926,000	10.0	11.9
United States	153,883,000	140,580,000	13,303,000	8.6	9.8

Source: Florida Department of Economic Opportunity, Labor Market Statistics Center, Local Area Unemployment Statistics Program, in cooperation with the U.S. Department of Labor, Bureau of Labor Statistics, released December 16, 2011.

Florida Unemployment Rates by County

November 2011, Not Seasonally Adjusted



Source: Florida Department of Economic Opportunity, Labor Market Statistics Center, Local Area Unemployment Statistics Program, in cooperation with the U.S. Department of Labor, Bureau of Labor Statistics, released December 16, 2011.



Unemployment Rates in the Ten Most Populous States

Seasonally Adjusted

State	November 2011(P) Unemployment Rate (%)	November 2010 Unemployment Rate (%)	Change
California	11.3	12.5	-1.2
Florida	10.0	11.9	-1.9
Illinois	10.0	9.4	0.6
North Carolina	10.0	9.8	0.2
Georgia	9.9	10.4	-0.5
Michigan	9.8	11.4	-1.6
Ohio	8.5	9.6	-1.1
Texas	8.1	8.3	-0.2
New York	8.0	8.3	-0.3
Pennsylvania	7.9	8.5	-0.6

P = Preliminary

Source: Florida Department of Economic Opportunity, Labor Market Statistics Center and the U.S. Department of Labor, Bureau of Labor Statistics, Local Area Unemployment Statistics Program, released December 20, 2011.

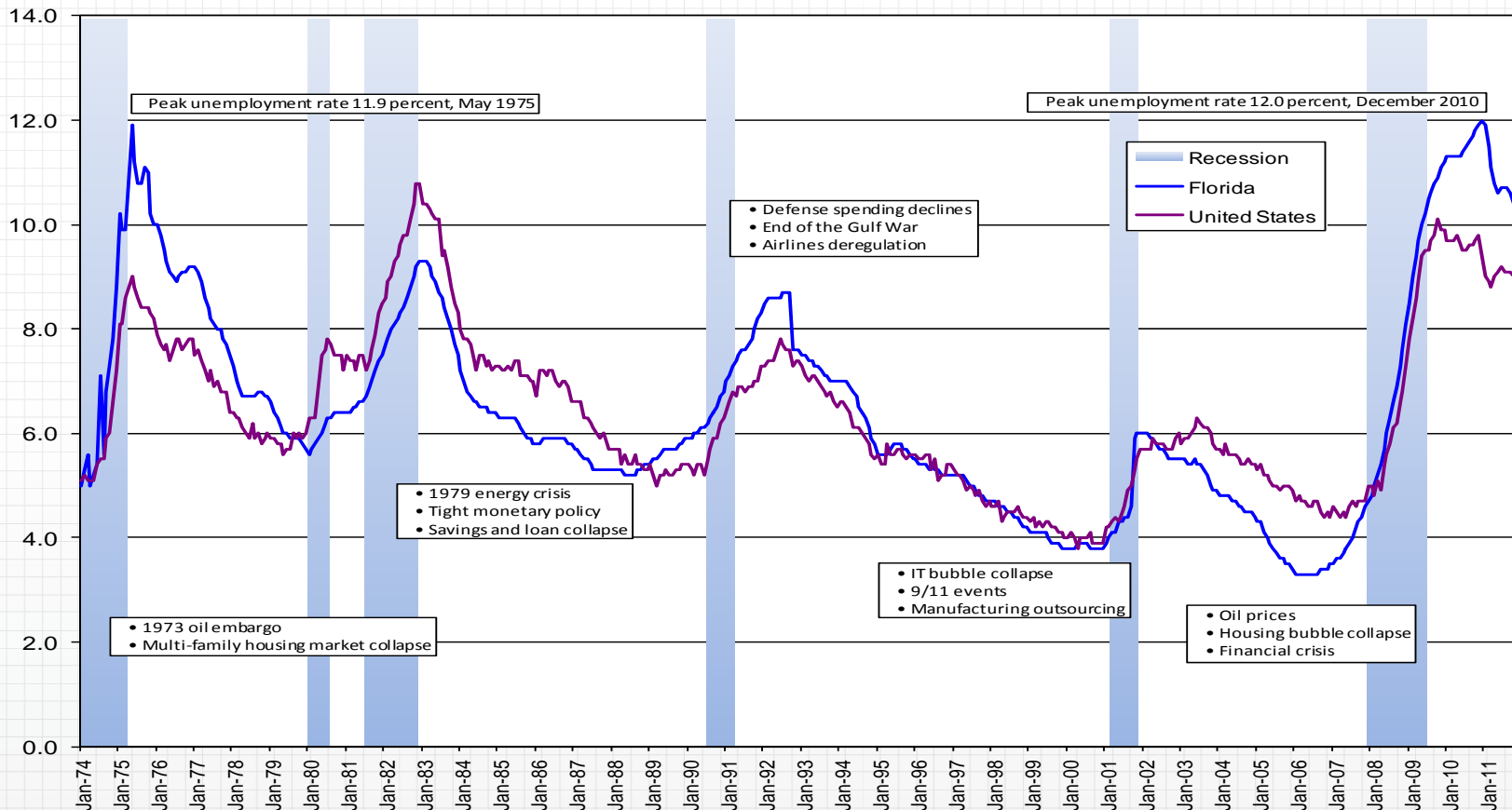


Unemployment Rates

Florida and the United States

January 1974 – November 2011

Seasonally Adjusted



Source: Florida Department of Economic Opportunity, Labor Market Statistics Center, Local Area Unemployment Statistics Program, in cooperation with the U.S. Department of Labor, Bureau of Labor Statistics, released December 16, 2011.



Nonagricultural Employment

Seasonally Adjusted

-  Florida's jobs grew in November on an annual basis for the 14th consecutive month
-  Florida has lost 789,500 jobs during the current downturn (March 2007 to November 2011)

Seasonally Adjusted	November 2011	November 2010	Change	Percent Change
Florida	7,281,700	7,183,600	98,100	1.4%
United States	131,708,000	130,108,000	1,600,000	1.2%

Source: U.S. Department of Labor, Bureau of Labor Statistics, Current Employment Statistics Program, released December 16, 2011.
Prepared by: Florida Department of Economic Opportunity, Labor Market Statistics Center.

Employment in the Ten Most Populous States

November 2011, Ranked by Level Change

Seasonally Adjusted

November 2010 - November 2011P

State	November 2011p	Percent Change	Level Change
California	14,170,100	1.7%	233,100
Texas	10,629,300	2.2%	226,000
Florida	7,281,700	1.4%	98,100
New York	8,663,900	1.0%	83,600
Ohio	5,113,500	1.5%	75,600
Michigan	3,930,200	1.5%	59,400
Illinois	5,686,100	1.0%	57,100
Pennsylvania	5,695,800	0.9%	51,000
North Carolina	3,876,800	0.5%	19,600
Georgia	3,810,600	-0.5%	-20,300

P = Preliminary

Source: U.S. Department of Labor, Bureau of Labor Statistics, Current Employment Statistics Program, released December 20, 2011.

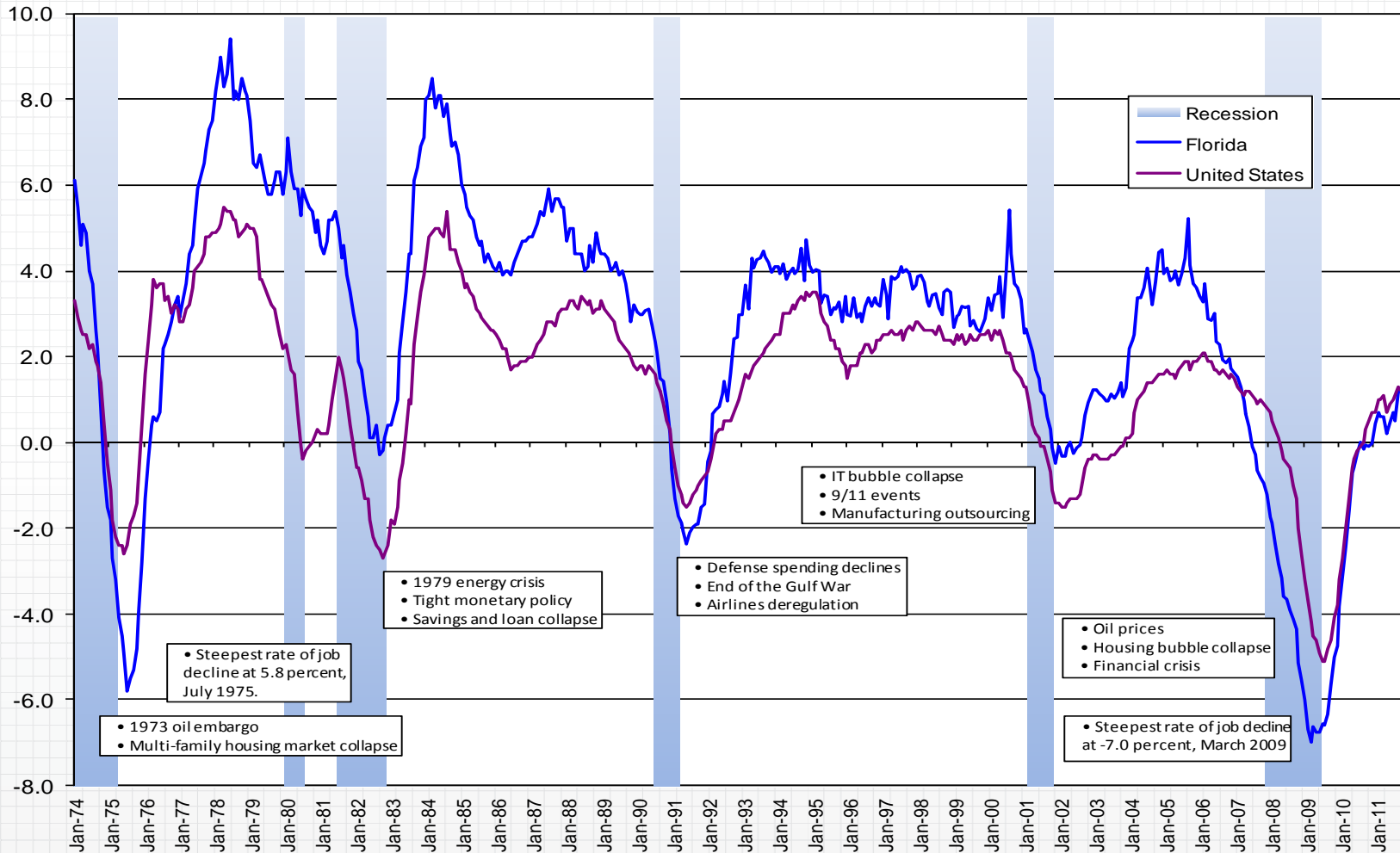
Prepared by: Florida Department of Economic Opportunity, Labor Market Statistics Center.



Nonagricultural Employment Growth Rates

Florida and the United States

January 1974 – November 2011, Not Seasonally Adjusted



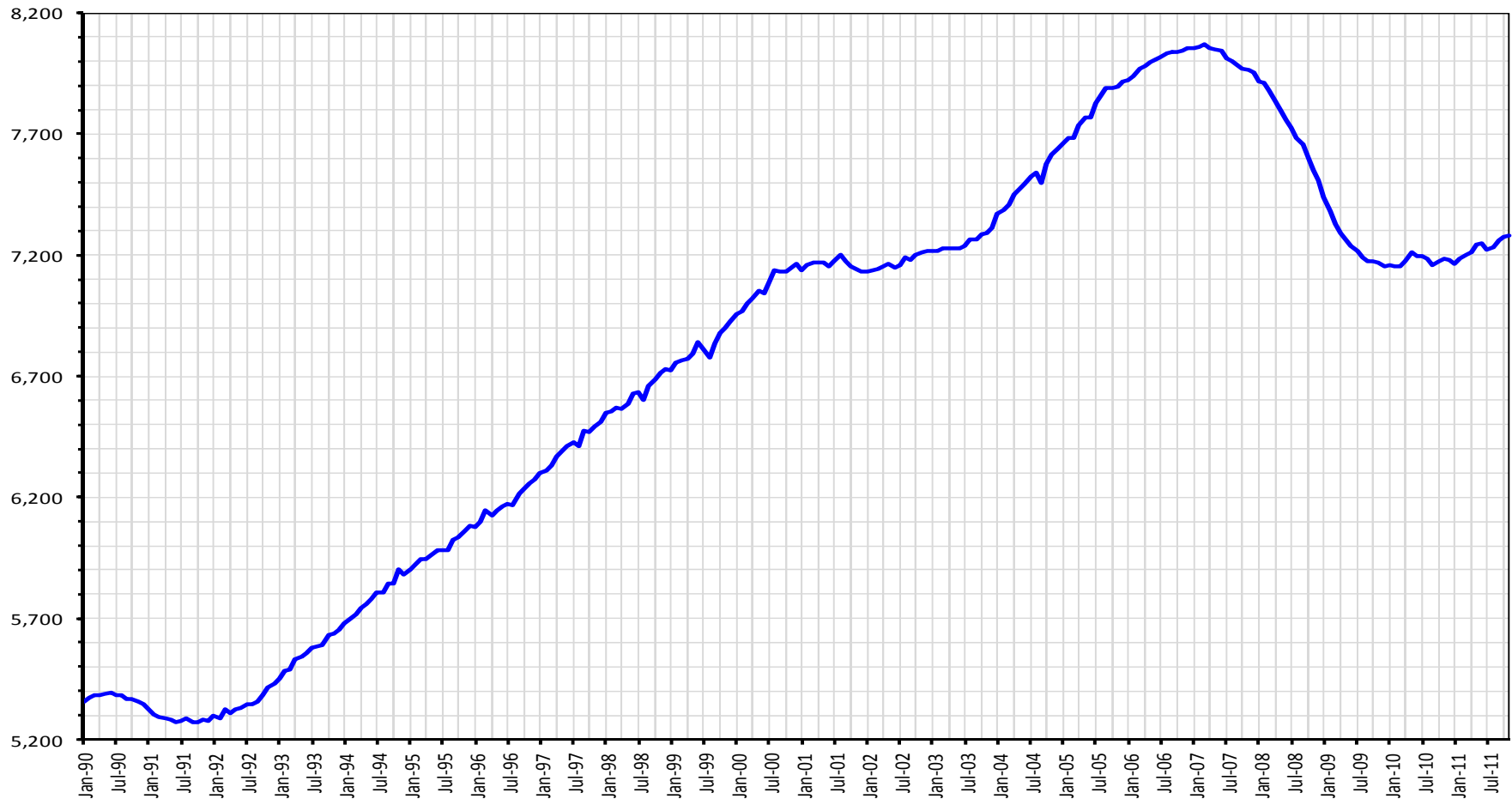
Source: U.S. Department of Labor, Bureau of Labor Statistics, Current Employment Statistics Program, released December 16, 2011.

Prepared by: Florida Department of Economic Opportunity, Labor Market Statistics Center.



Florida Nonagricultural Employment

January 1990 – November 2011, Seasonally Adjusted



Source: U.S. Department of Labor, Bureau of Labor Statistics, Current Employment Statistics Program, released December 16, 2011.

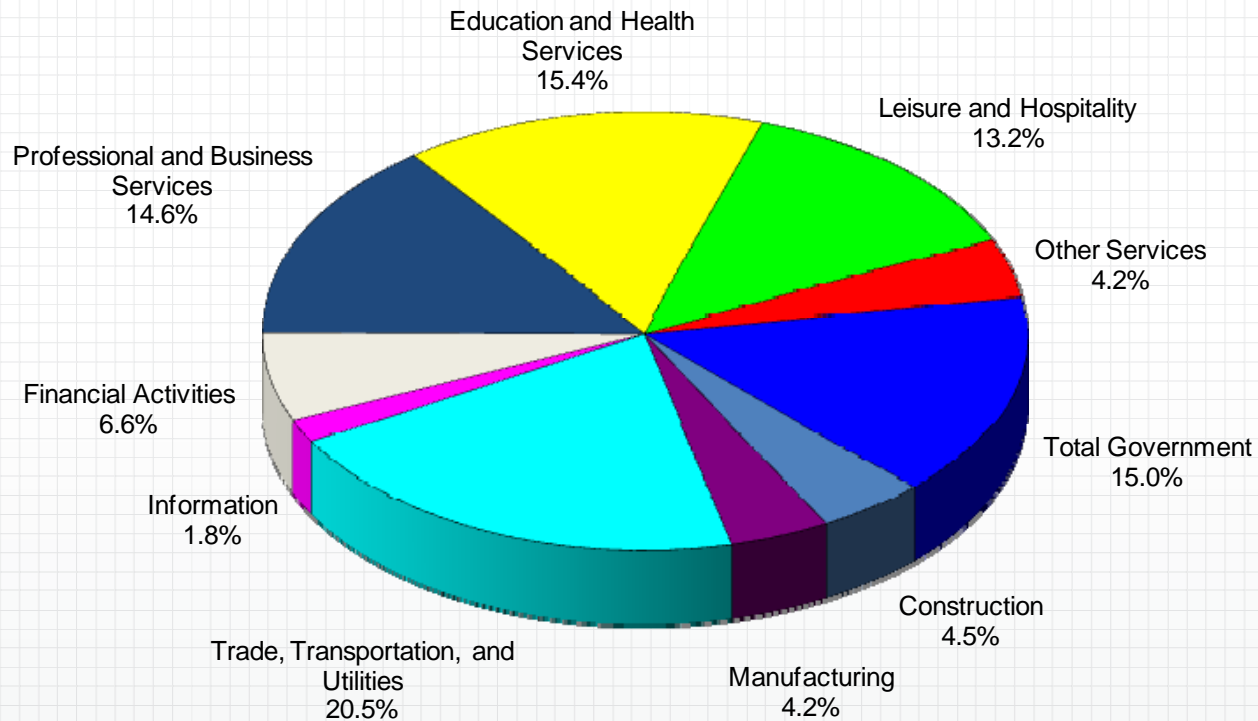
Prepared by: Florida Department of Economic Opportunity, Labor Market Statistics Center.



Nonagricultural Employment by Industry

Florida

November 2011 (Seasonally Adjusted)



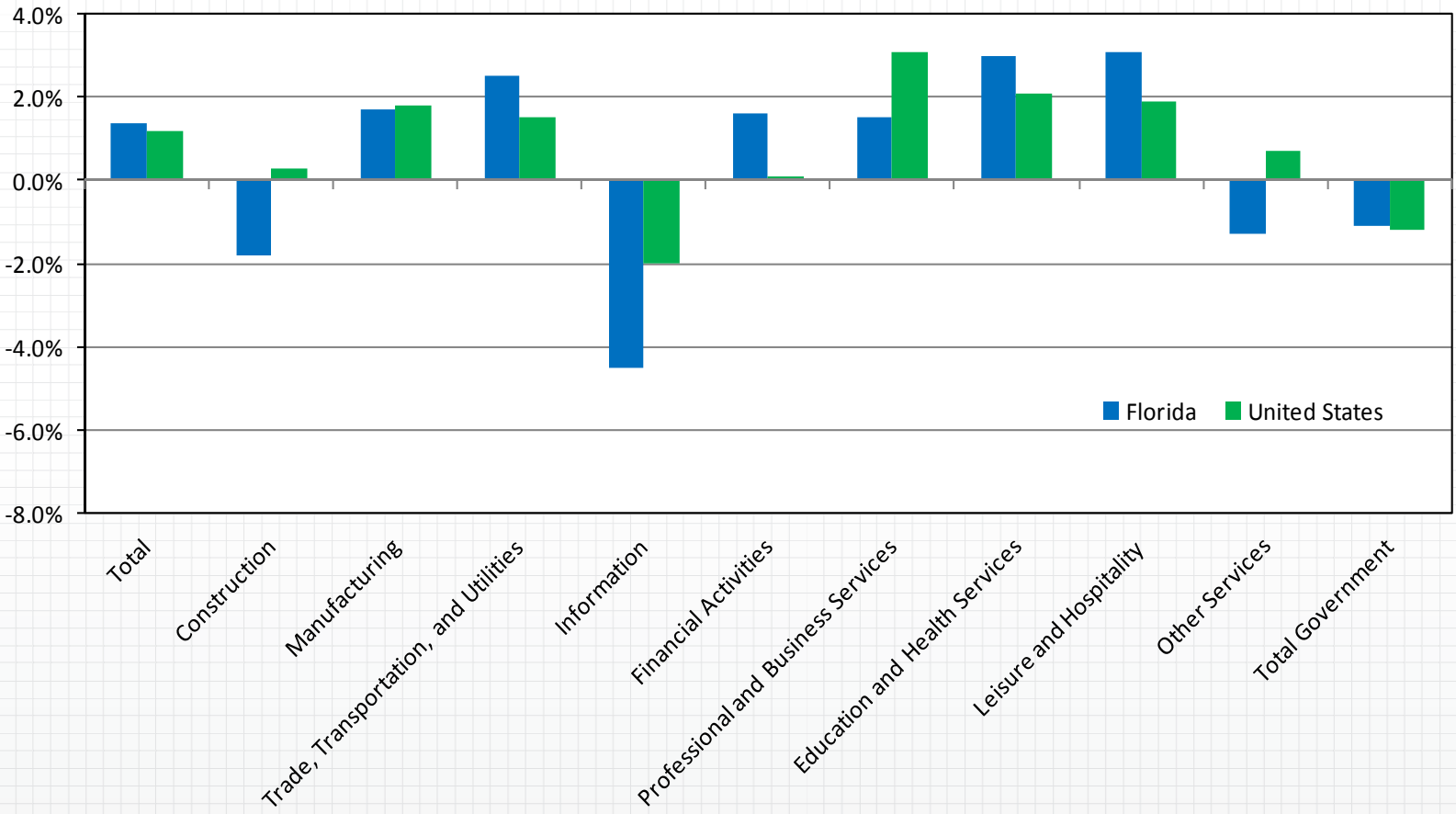
Note: Percents may not add to 100.0 due to rounding

Source: U.S. Department of Labor, Bureau of Labor Statistics, Current Employment Statistics Program, released December 16, 2011.

Prepared by: Florida Department of Economic Opportunity, Labor Market Statistics Center.

Nonagricultural Employment by Industry

November 2011, Seasonally Adjusted, Over-the-Year Percent Change

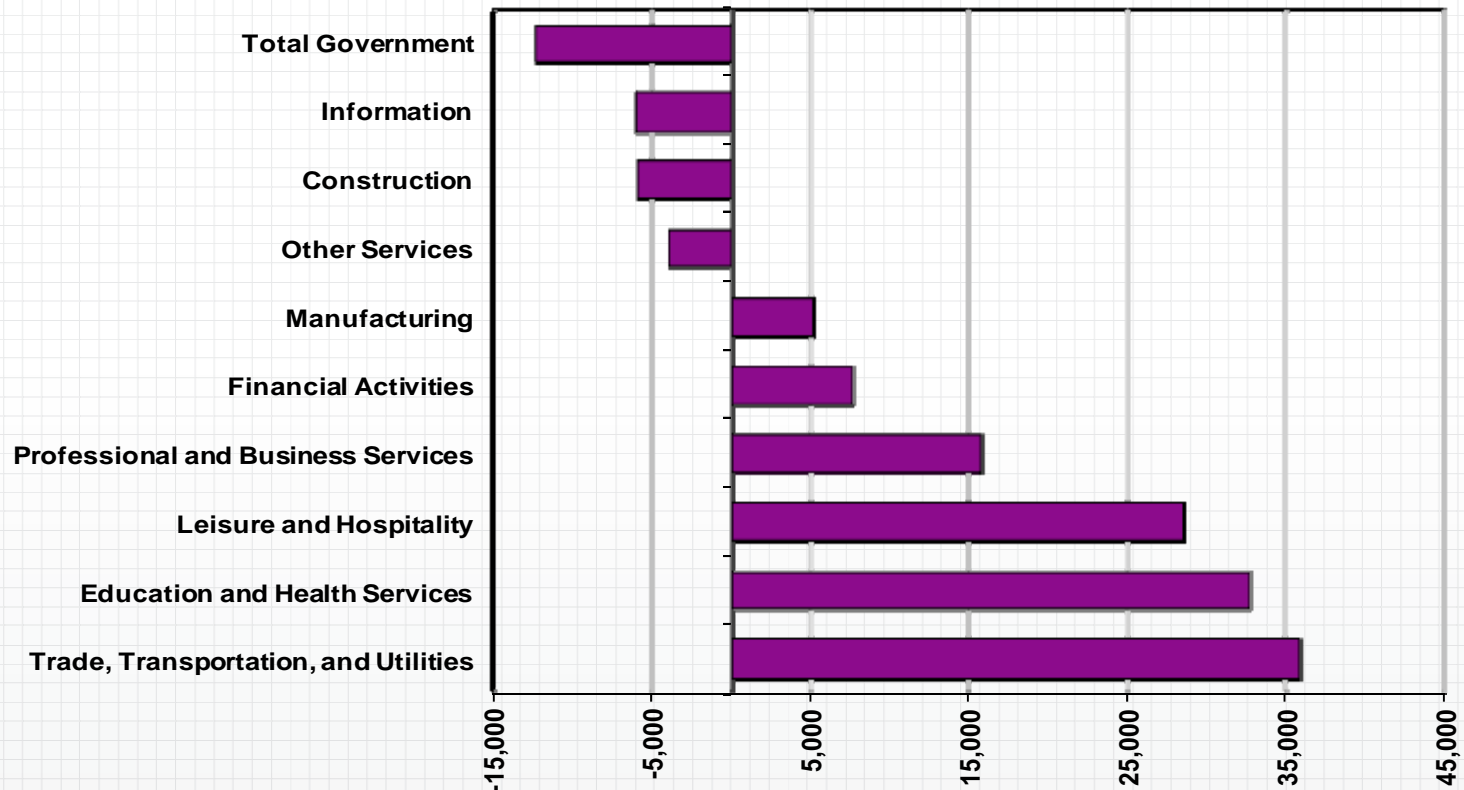


Source: U.S. Department of Labor, Bureau of Labor Statistics, Current Employment Statistics Program, released December 16, 2011.
 Prepared by: Florida Department of Economic Opportunity, Labor Market Statistics Center.



Trade, Transportation, and Utilities Gained the Most Jobs Over the Year in Florida

November 2010 – November 2011 (Seasonally Adjusted)

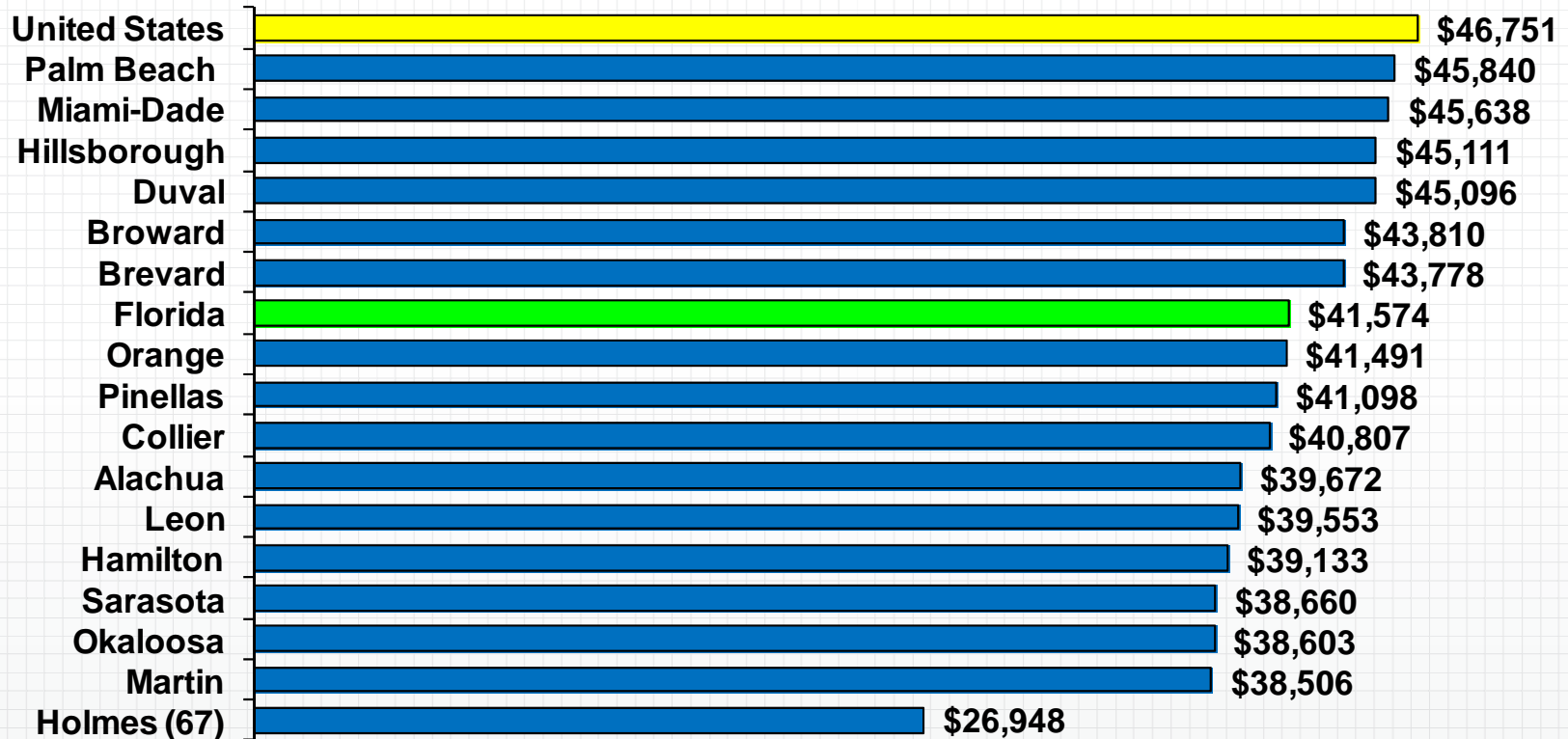


Source: U.S. Department of Labor, Bureau of Labor Statistics, Current Employment Statistics Program, released December 16, 2011.
Prepared by: Florida Department of Economic Opportunity, Labor Market Statistics Center.



Florida Average Annual Wages

Range from \$45,840 to \$26,948



Source: Florida Department of Economic Opportunity, Labor Market Statistics Center, Quarterly Census of Employment and Wages Program, in cooperation with the U.S. Department of Labor, Bureau of Labor Statistics, 2010 Wage Data, released October 2011.

Wages by Industry

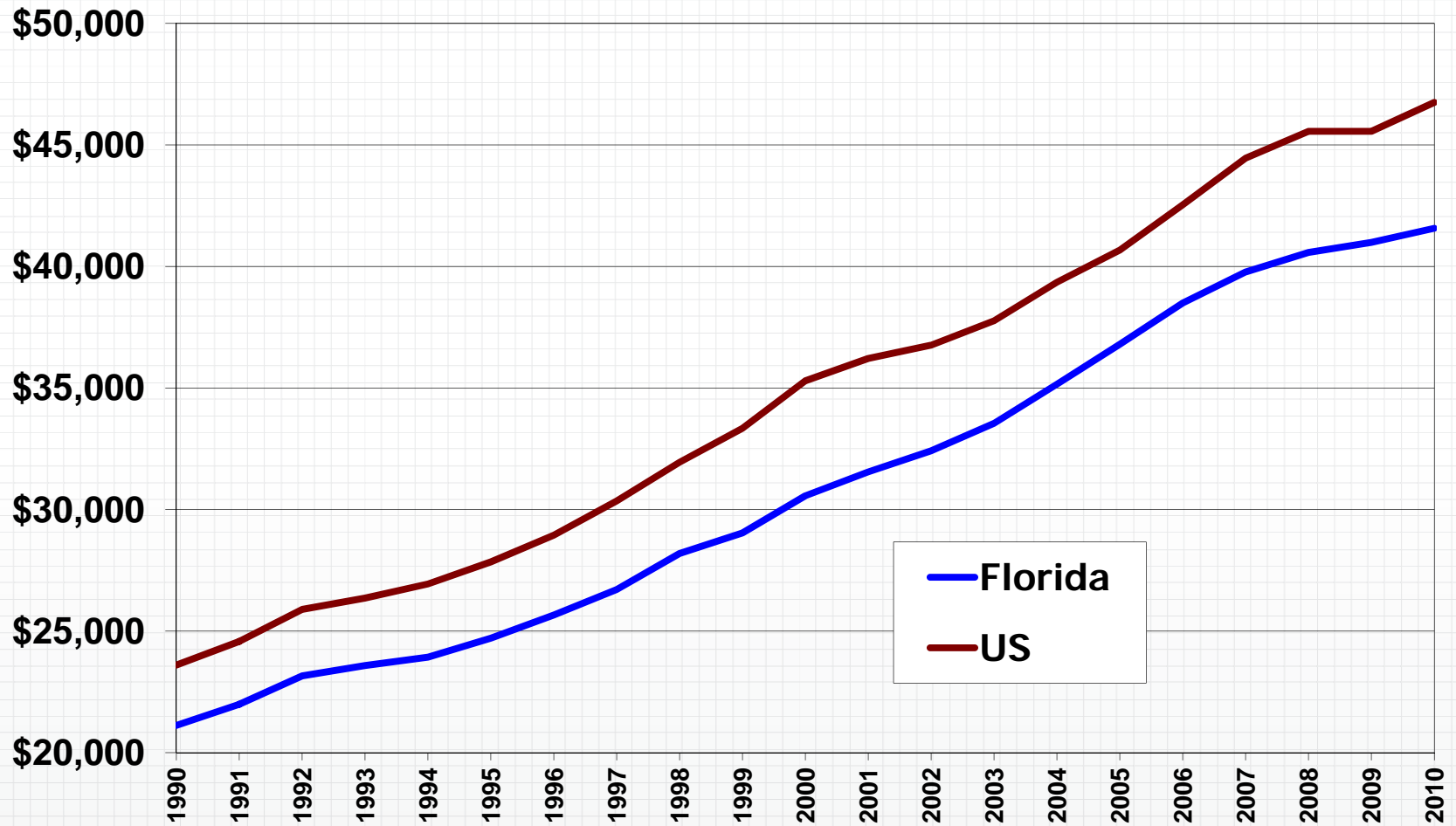
Florida
2010

Industry	Florida Average Annual Wages
Total, All Industries	\$41,574
Information	\$61,506
Financial Activities	\$57,042
Manufacturing	\$51,848
Professional and Business Services	\$49,185
Government	\$47,361
Education and Health Services	\$43,686
Construction	\$41,087
Trade, Transportation, and Utilities	\$37,109
Other Services	\$29,609
Natural Resources and Mining	\$24,286
Leisure and Hospitality	\$21,447

Source: Florida Department of Economic Opportunity, Labor Market Statistics Center, Quarterly Census of Employment and Wages Program, in cooperation with the U.S. Department of Labor, Bureau of Labor Statistics, released October 2011.



Average Annual Wage



Source: Florida Department of Economic Opportunity, Labor Market Statistics Center, Quarterly Census of Employment and Wages Program, in cooperation with the U.S. Department of Labor, Bureau of Labor Statistics, released October 2011.

Real-Time LMI

Help-Wanted OnLine

Occupations In Demand

Florida Top Advertised Occupations Requiring a Bachelor's Degree	Online Ads December 2011	Online Ads December 2010
Florida Total Ads	205,561	194,596
Occupational Therapists	3,923	4,599
Medical and Health Services Managers*	2,632	2,945
Accountants*	2,361	2,244
Sales Agents, Financial Services*	1,935	2,059
Sales Managers*	1,842	1,933
Marketing Managers*	1,631	1,596
Financial Managers, Branch or Department*	1,376	1,354
Industrial Engineers*	1,041	899
Management Analysts*	911	875
Physician Assistants*	711	541
Auditors*	698	592
Market Research Analysts	690	653
Public Relations Specialists*	649	527
Computer and Information Systems Managers*	635	641
Mechanical Engineers*	606	516
Financial Analysts*	590	517
Training and Development Specialists	492	569
Personal Financial Advisors	481	309
Electrical Engineers*	451	494
Education Administrators, Postsecondary	447	483

Note: * On the proposed 2012-2013 high demand occupations list for bachelor's degrees

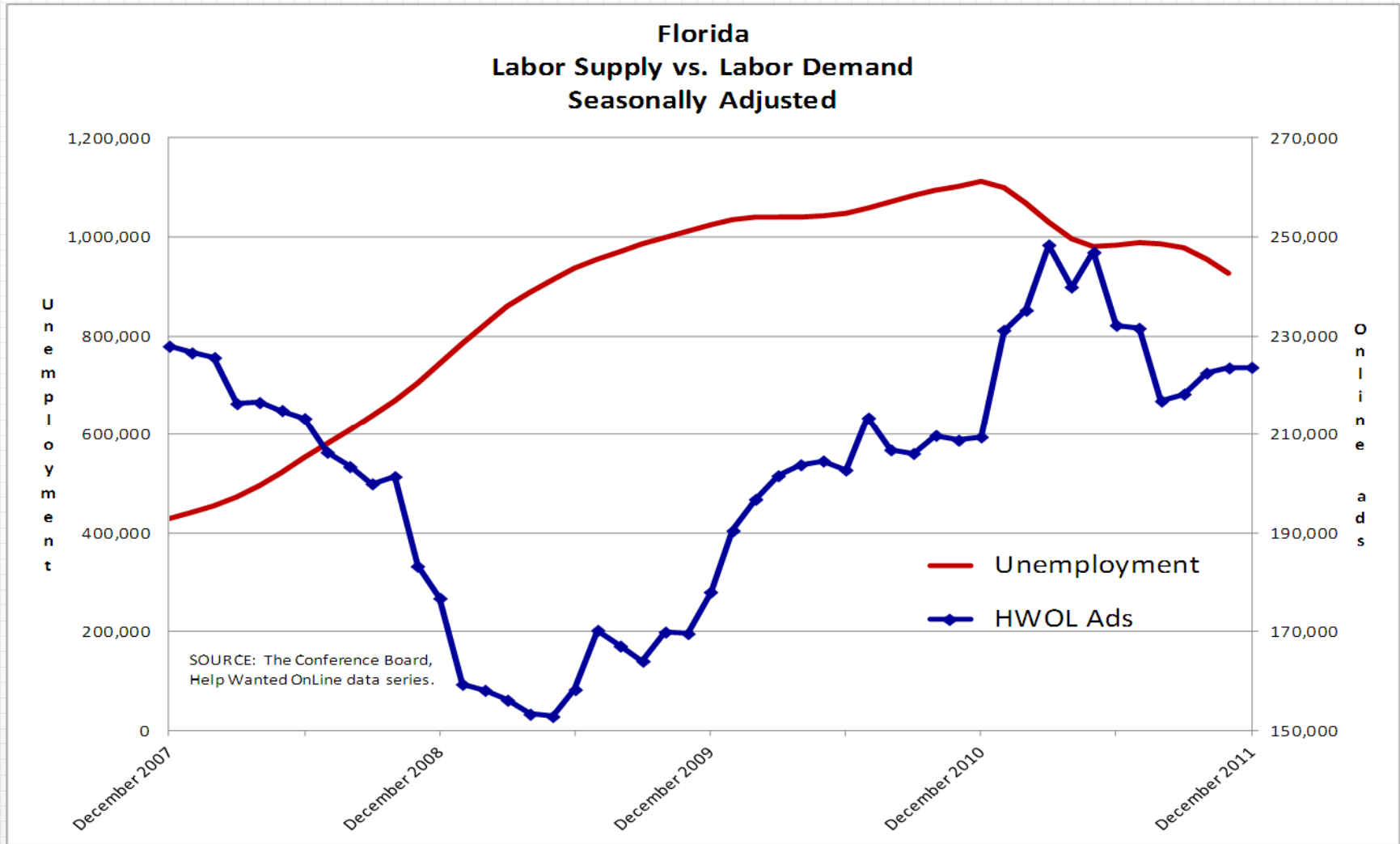
Source: The Conference Board, Help Wanted OnLine.

Prepared by: The Florida Department of Economic Opportunity, Labor Market Statistics Center.



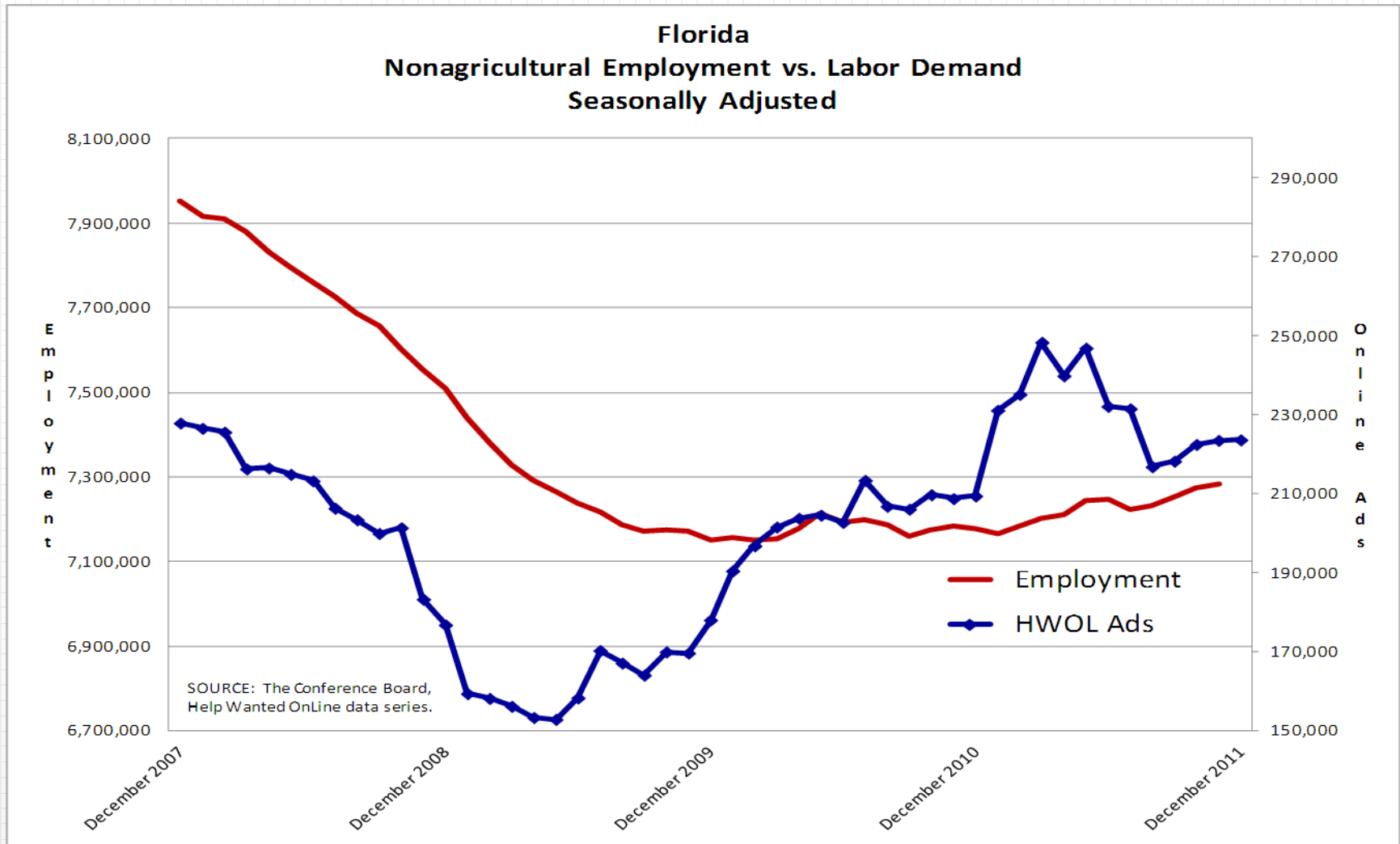
Real-Time LMI

Help Wanted OnLine™



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Help Wanted OnLine™



Targeted Industry Clusters

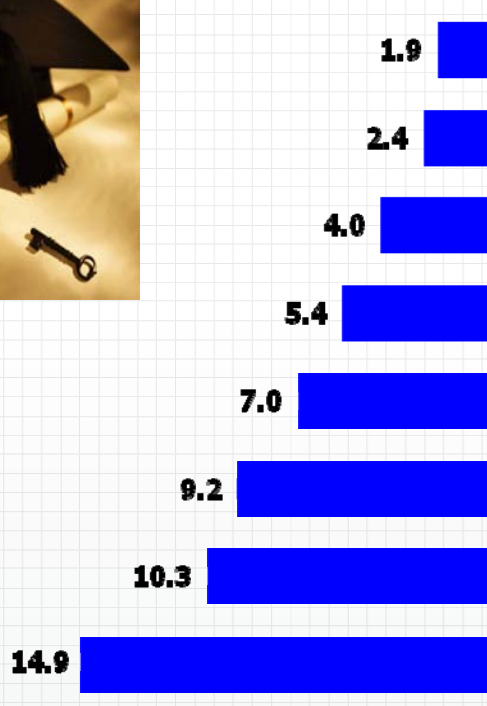
-  Cleantech
 -  Life Sciences
 -  Infotech
 -  Aviation and Aerospace
 -  Logistics and Distribution
 -  Homeland Security/Defense
 -  Financial/Professional Services
- Strategic Areas of Emphasis
- Manufacturing
 - Corporate Headquarters
 - Emerging Technologies



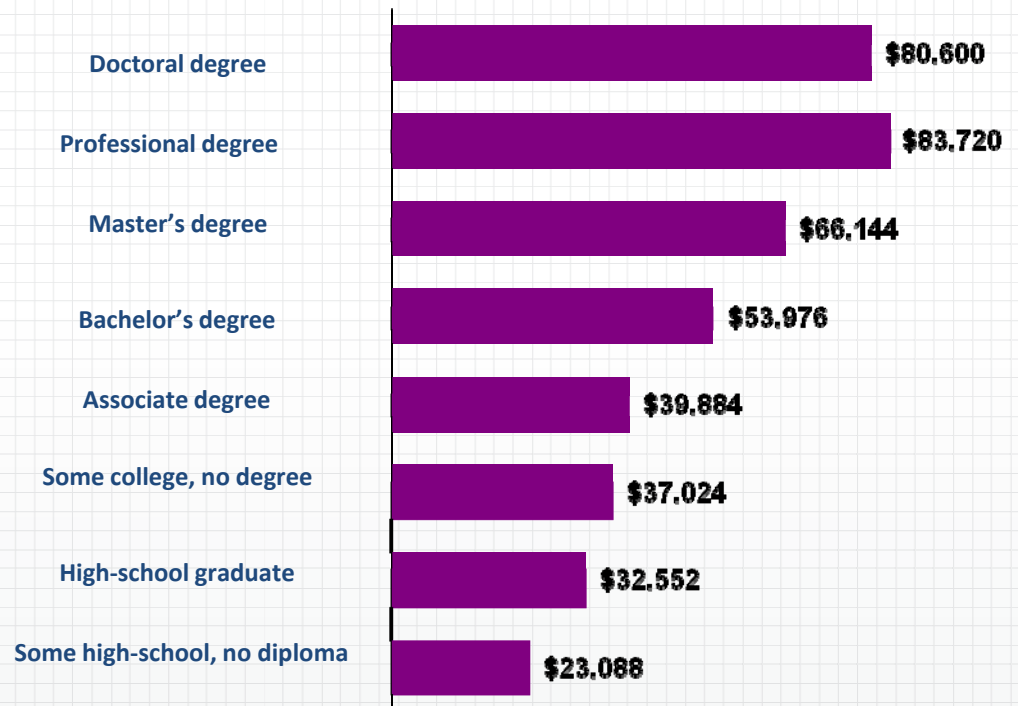
Education and Training pay ...

2010 Annual Average

Unemployment Rate
(Percent)



Median Earnings
(Dollars)



Notes: Unemployment and earnings for workers 25 and older, by educational attainment; earnings for full-time wage and salary workers. 2010 Weekly Median Earnings (multiplied by 52 weeks).

**Florida
Department of Economic Opportunity
Labor Market Statistics Center**

**Caldwell Building
MSC G-020
107 E. Madison Street
Tallahassee, Florida 32399-4111**

Phone (850) 245-7257

**Rebecca Rust
rebecca.rust@deo.myflorida.com**

**www.floridajobs.org
fred.labormarketinfo.com
www.floridawages.com
www.whatpeopleareasking.com**





FLORIDA
DEPARTMENT *of*
ECONOMIC
OPPORTUNITY

Labor Market Demand for Bachelor's Degrees

Workforce Estimating Conference

Labor Market Statistics Center
January 9, 2012



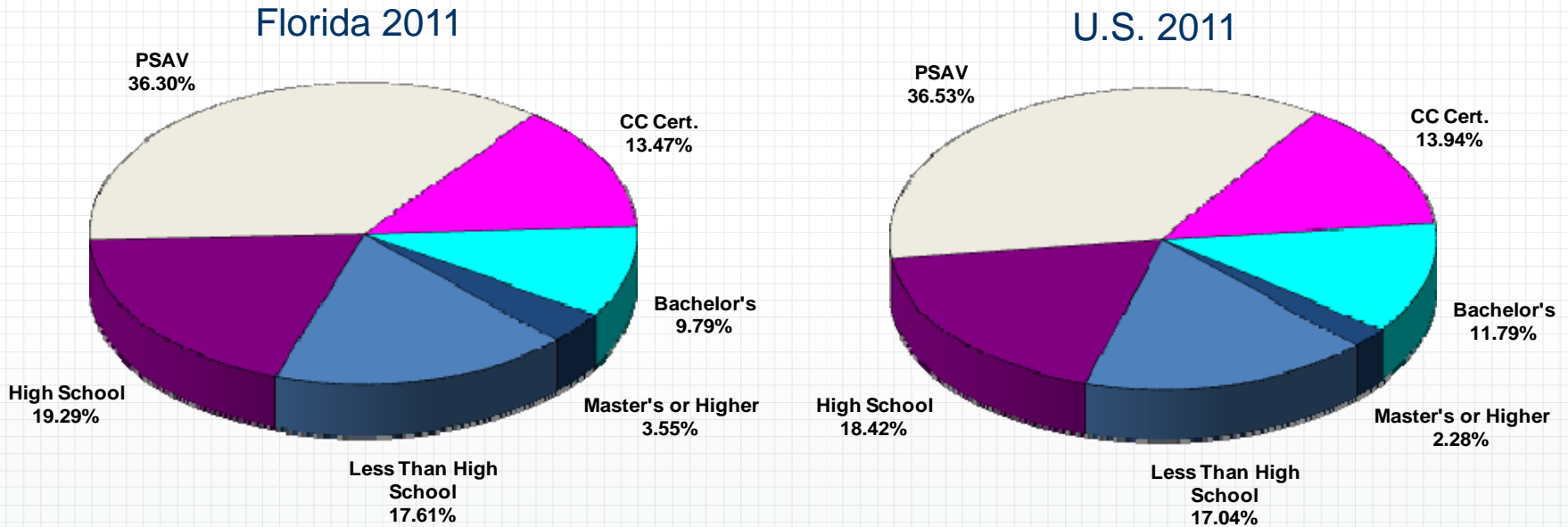
Employment by Education Level

General Information

- Employment counts by education level represent the number of jobs with a particular education requirement. This is not the education level obtained by employees working in the occupation.
- Education requirements for occupations are based on training codes assigned by the Florida Department of Education (DOE) to each Standard Occupational Classification (SOC) Code/Title.
- Florida DOE training codes were assigned to the national occupational employment projections for comparison purposes.
- For occupations where multiple training levels can be sufficient for employment in an occupation (i.e. registered nurse), the employment data are counted in the lowest level of training required.

2011 Employment by Training Level Florida vs. the Nation

- Florida's employment with bachelor's degrees is a smaller share than the nation



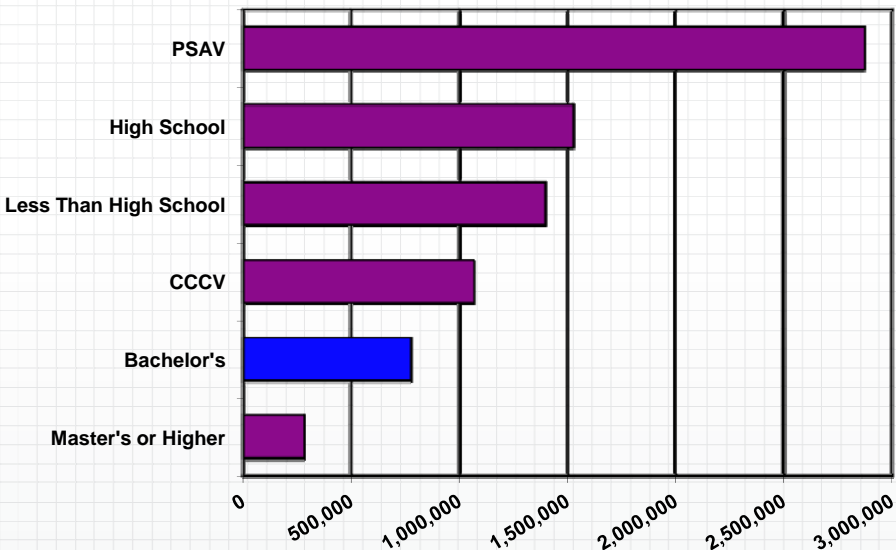
CC Cert. = Community College Certificate/Degree
PSAV = Postsecondary Adult Vocational Certificate

Source: Florida Department of Economic Opportunity, Labor Market Statistics Center, and U.S. Department of Labor, Bureau of Labor Statistics.

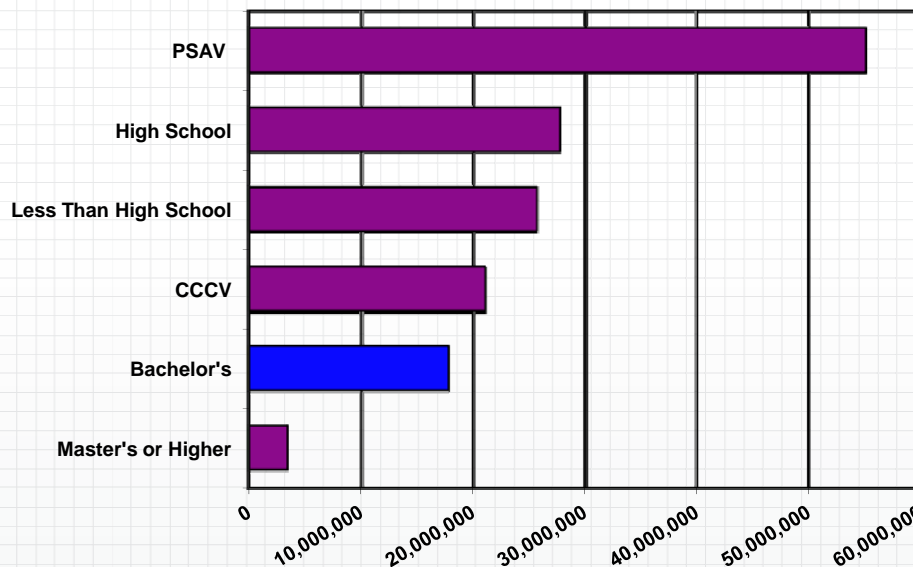
2011 Employment by Training Level

- The vast majority of Florida and U.S. jobs do not require a bachelor's degree

Florida



U.S.

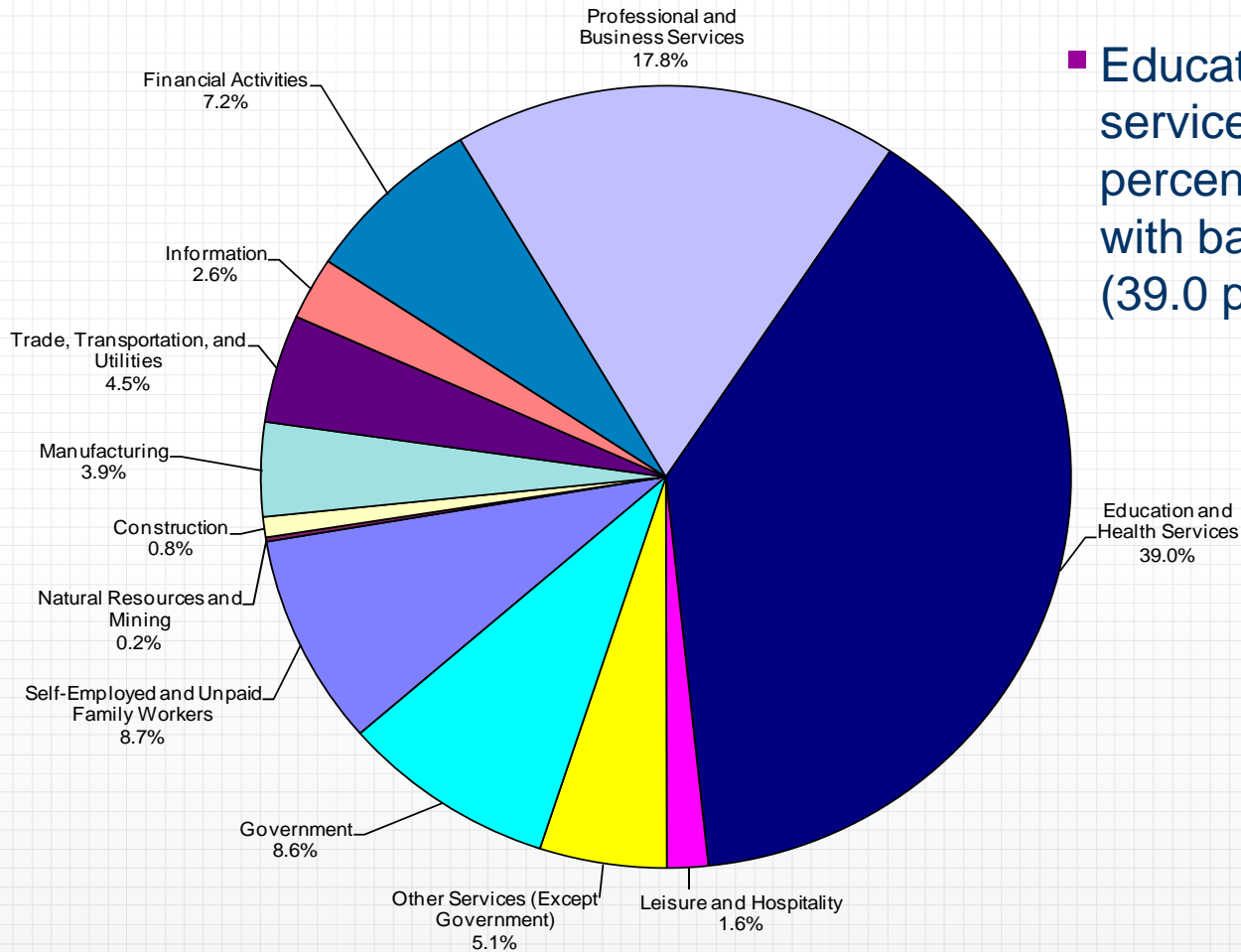


CCCV = Community College Credit/Vocational

PSAV = Postsecondary Adult Vocational Certificate

Source: Florida Department of Economic Opportunity, Labor Market Statistics Center, and U.S. Department of Labor, Bureau of Labor Statistics.

Percent of Jobs Requiring a Bachelor's Degree by Industry Florida 2011

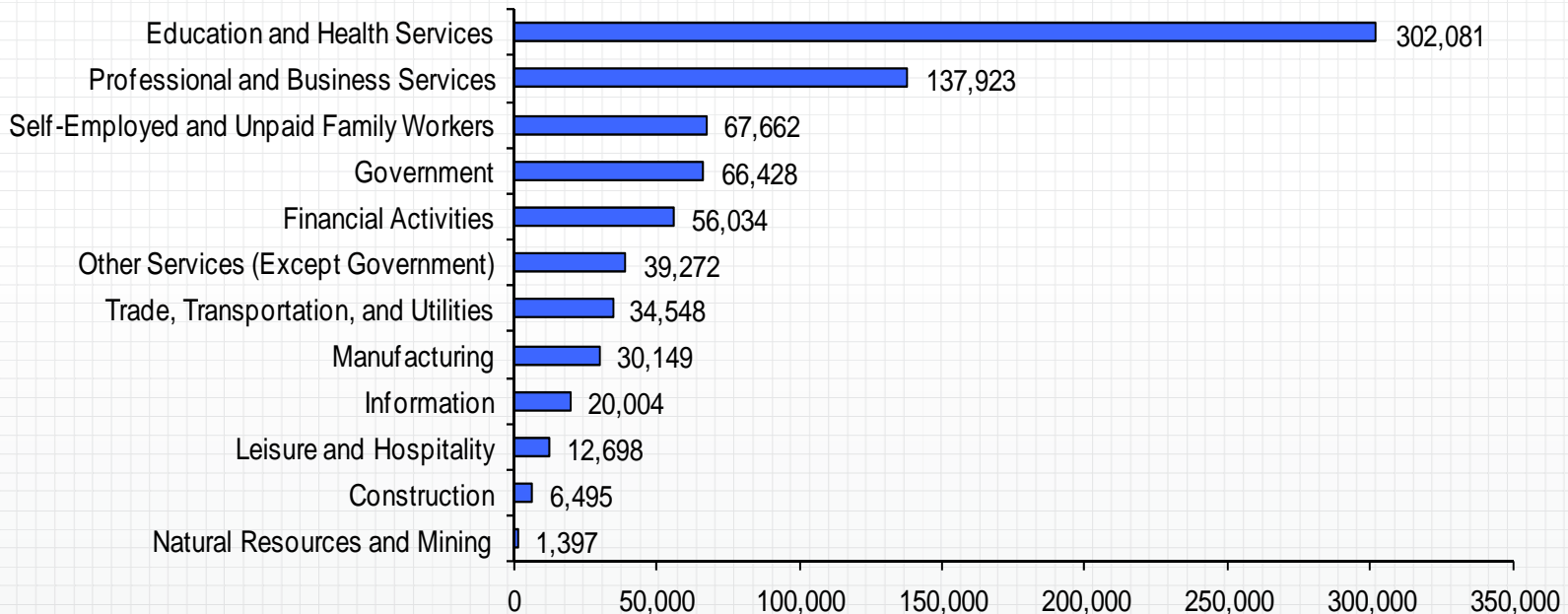


■ Education and health services has the highest percent of employment with bachelor's degrees (39.0 percent) in Florida

Source: Florida Department of Economic Opportunity, Labor Market Statistics Center, released October 2011.

Number of Jobs Requiring a Bachelor's Degree by Industry Florida 2011

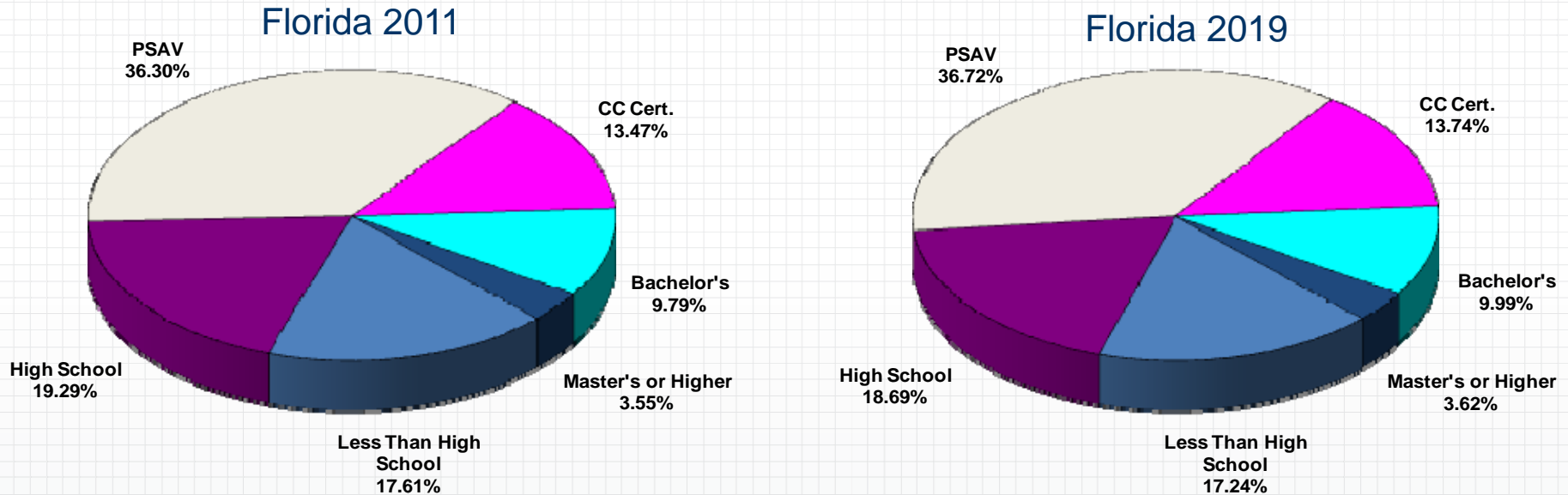
- The number of bachelor's degree occupations is highest in education and health services, professional and business services, self-employment, and government



Source: Florida Department of Economic Opportunity, Labor Market Statistics Center, released October 2011.

Employment by Training Level 2011 vs. 2019

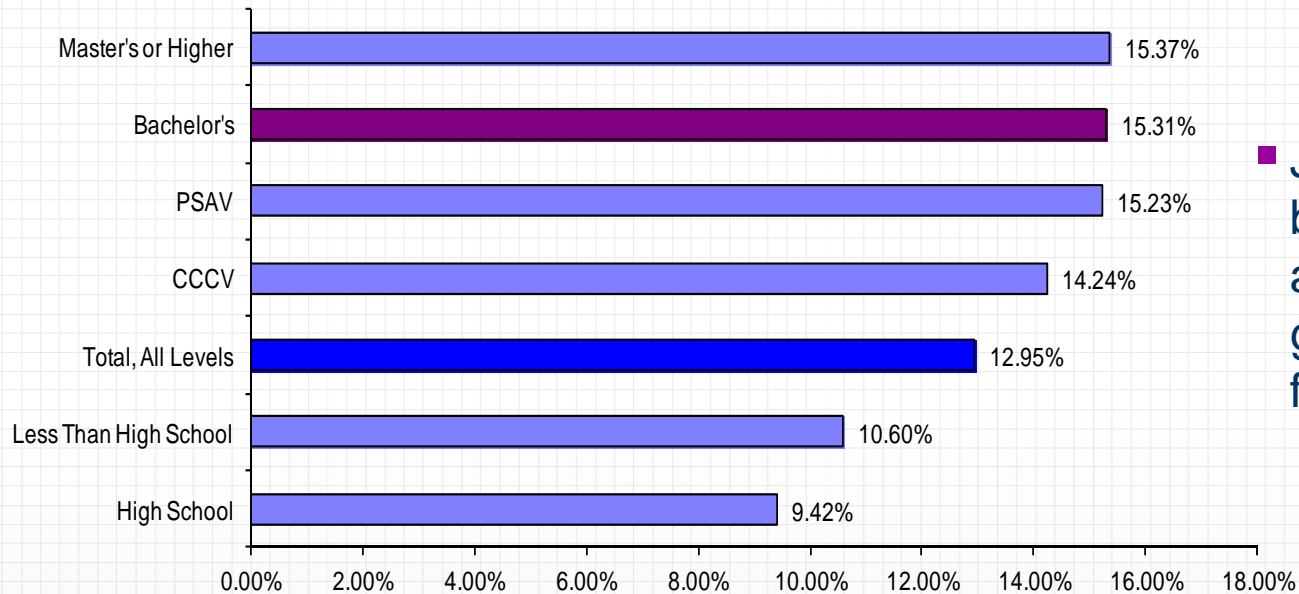
- The proportion of bachelor's degree occupations in Florida's workforce will not change significantly between 2011 and 2019



CC Cert. = Community College Certificate/Degree
PSAV = Postsecondary Adult Vocational Certificate

Source: Florida Department of Economic Opportunity, Labor Market Statistics Center, Forecast to 2019, released October 2011.

Florida Job Growth Rates by Training Level 2011-2019



■ Jobs requiring a bachelor's degree are projected to grow among the fastest

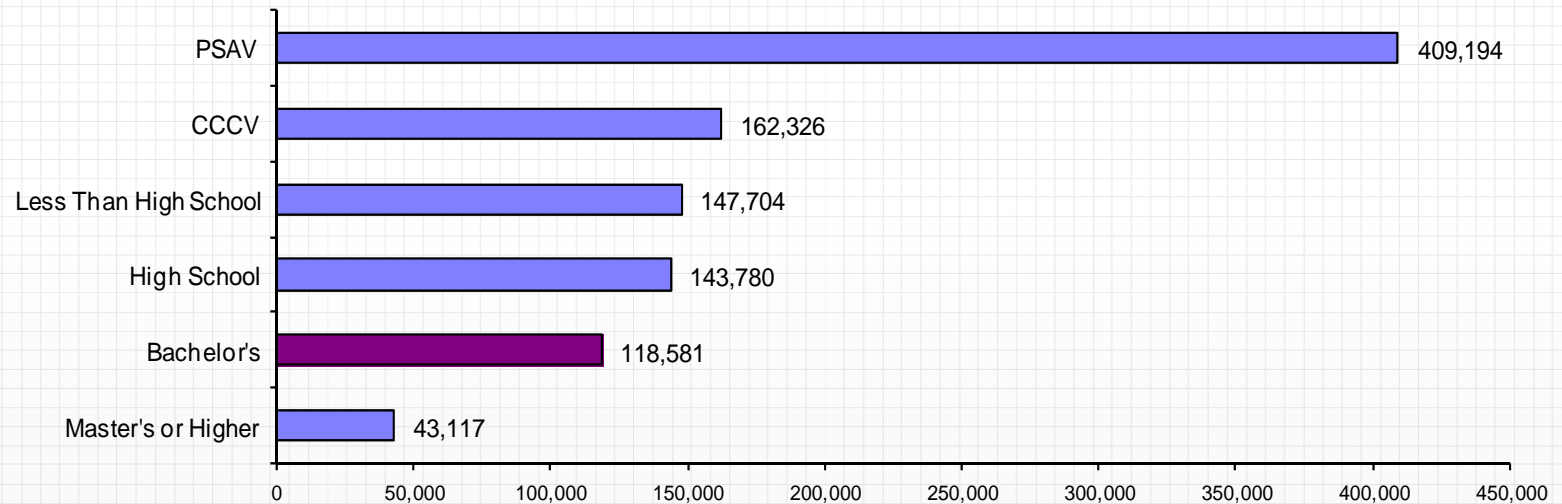
CCCV = Community College Credit/Vocational
PSAV = Postsecondary Adult Vocational Certificate

Source: Florida Department of Economic Opportunity, Labor Market Statistics Center, Forecast to 2019, released October 2011.



Florida Job Growth by Training Level 2011-2019

- Jobs requiring a bachelor's, master's, or higher will have less numerical growth than other education levels.



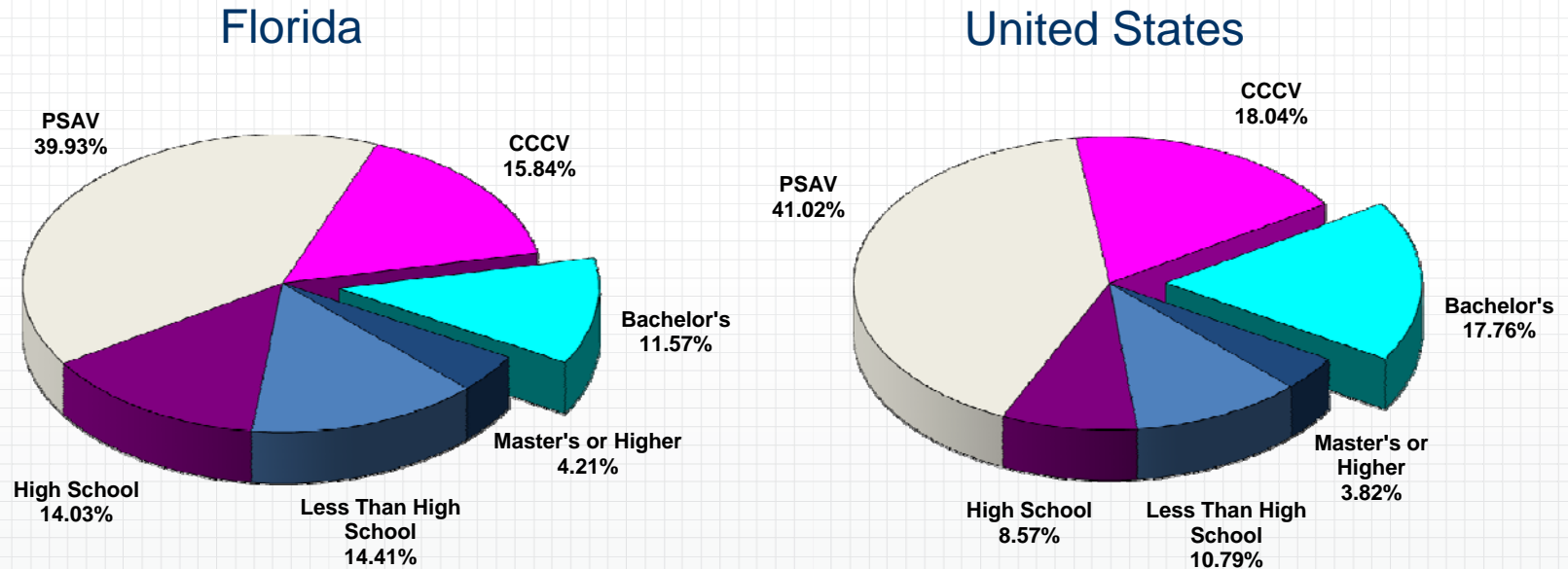
CCCV = Community College Credit/Vocational

PSAV = Postsecondary Adult Vocational Certificate

Source: Florida Department of Economic Opportunity, Labor Market Statistics Center, Forecast to 2019, released October 2011.

Percent Share of New Jobs by Training Level 2011-2019

- The proportion of new jobs that require a bachelor's degree will be higher in the U.S. than in Florida



CCCV = Community College Credit/Vocational
PSAV = Postsecondary Adult Vocational Certificate

Source: Florida Department of Economic Opportunity, Labor Market Statistics Center, and U.S. Department of Labor, Bureau of Labor Statistics.

Florida 2011 Wages by Training Level

Training Level	Average Annual Wage	Entry Annual Wage
Master's or Higher	\$100,372	\$54,992
Bachelor's	\$68,378	\$41,506
CC Credit/Vocational	\$60,053	\$38,088
Total, All Education Levels	\$41,605	\$27,472
PSAV Certificate	\$37,604	\$25,279
High School	\$28,280	\$19,851
Less Than High School	\$23,628	\$18,990

Source: Florida Department of Economic Opportunity, Labor Market Statistics Center, released October 2011.



Highest-Paying Occupations Requiring a Bachelor's Degree, Florida 2011

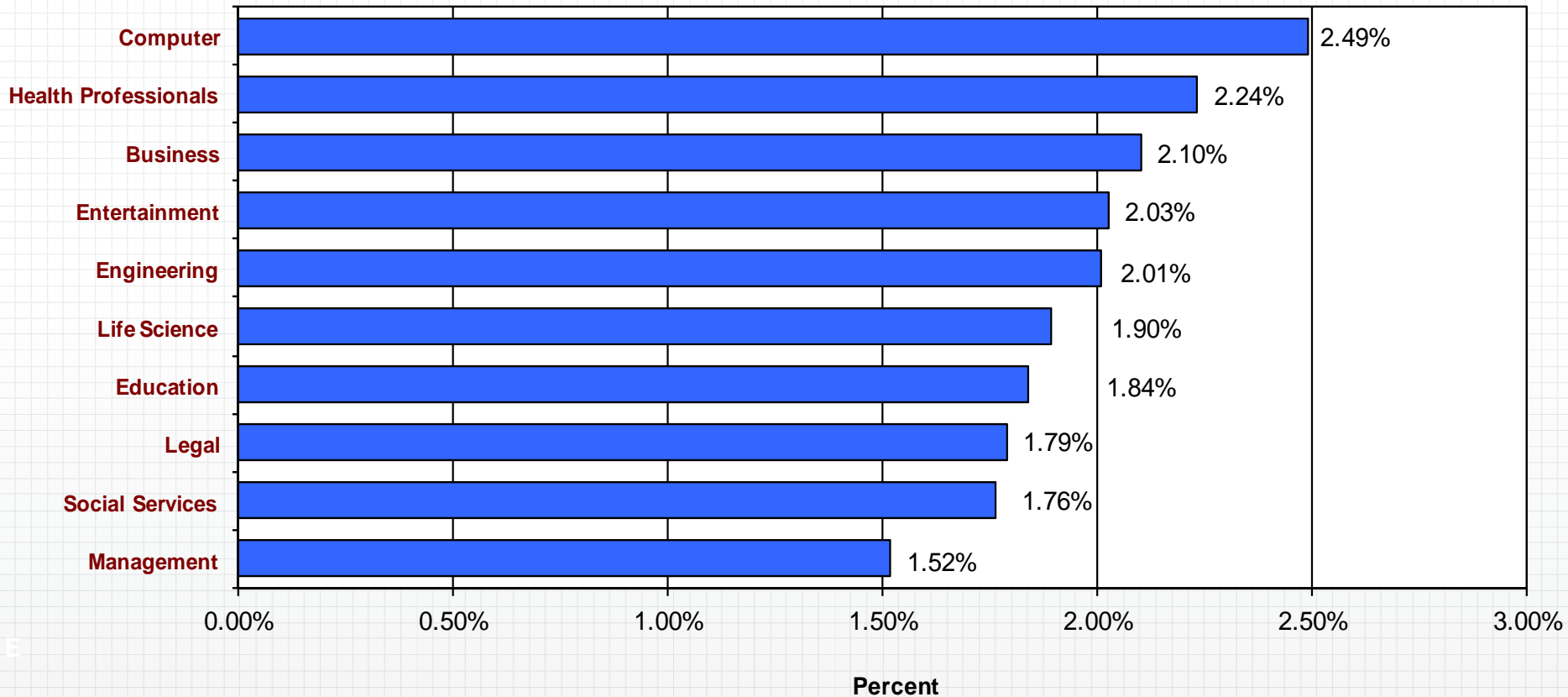
Title	Annual Wage
1. Chief Executives	\$186,326
2. Sales Managers	\$128,211
3. Computer and Information Systems Managers	\$123,677
4. Broadcast News Analysts	\$121,805
5. Engineering Managers	\$119,059
6. Natural Sciences Managers	\$118,810
7. Financial Managers	\$117,333
8. Public Relations Managers	\$108,098
9. Marketing Managers	\$108,014
10. Advertising and Promotions Managers	\$102,794

Source: Florida Department of Economic Opportunity, Labor Market Statistics Center, released October 2011.



Bachelor's Degree-Level Job Growth Rates by Major Occupational Group in Florida 2011-2019

Annual Percent Growth

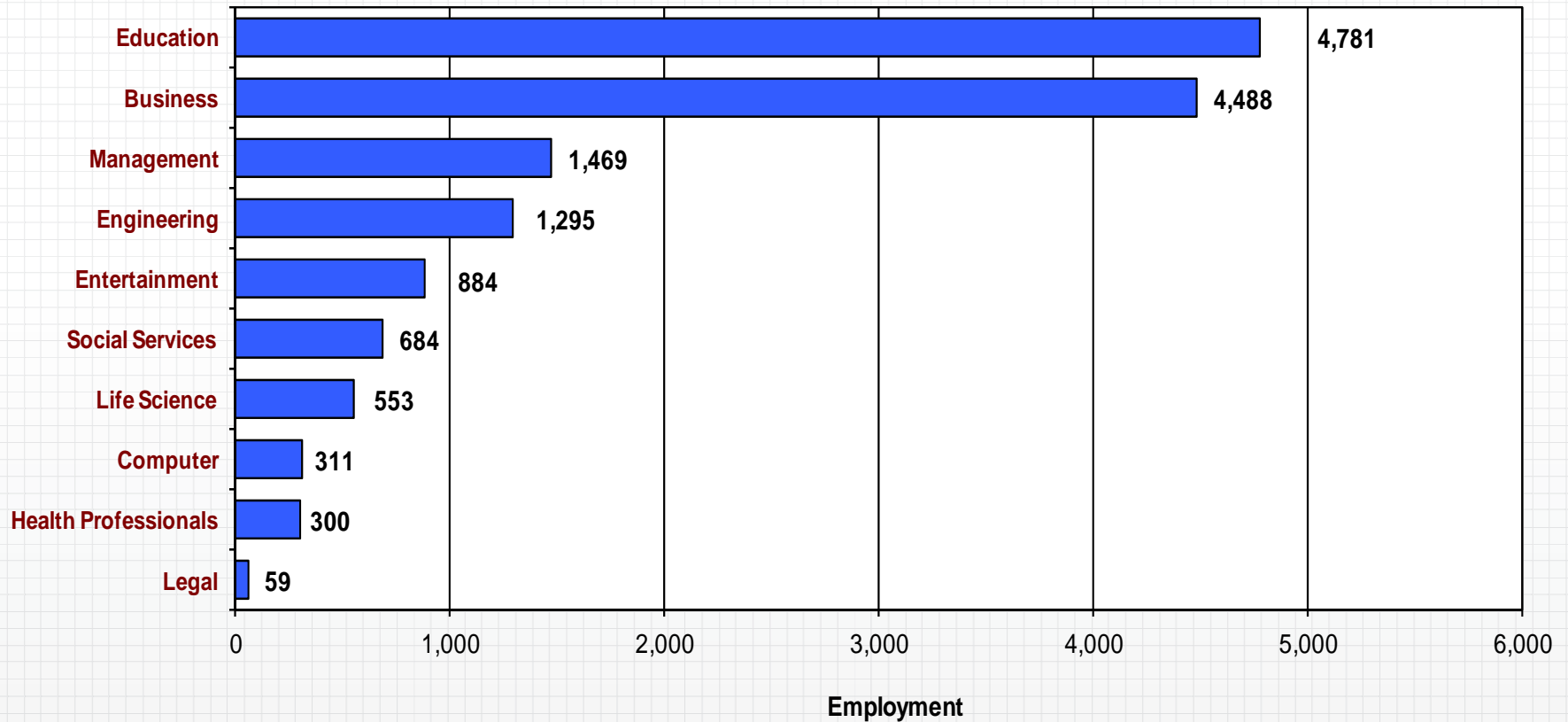


Source: Florida Department of Economic Opportunity, Labor Market Statistics Center, Forecast to 2019, released October 2011.



Bachelor's Degree-Level Job Growth by Major Occupational Group in Florida 2011-2019

Annual Job Growth

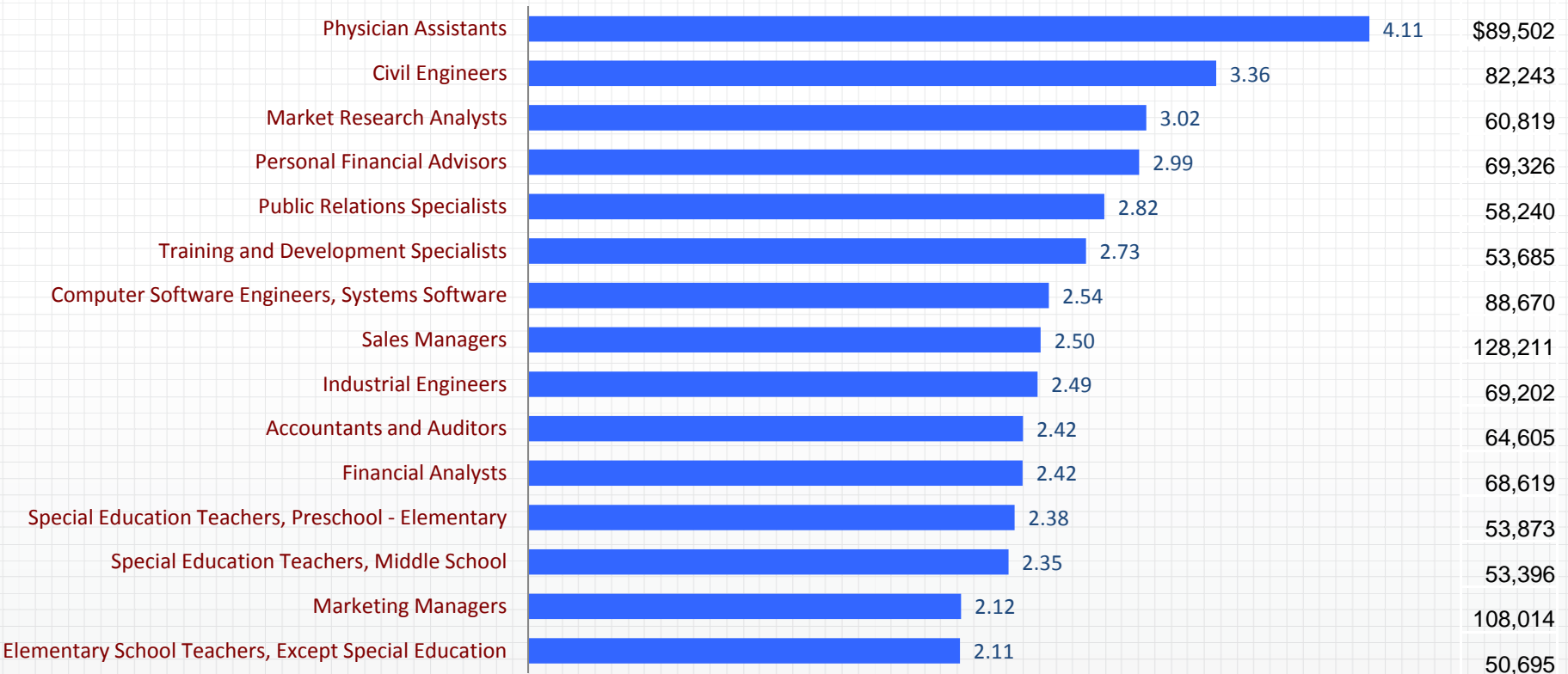


Source: Florida Department of Economic Opportunity, Labor Market Statistics Center, Forecast to 2019, released October 2011.

Fastest-Growing Occupations* Requiring a Bachelor's Degree in Florida 2011-2019

Annual Percent Growth

Average Annual Wage



***This table includes occupations with a minimum of 4,000 jobs in 2011**

Source: Florida Department of Economic Opportunity, Labor Market Statistics Center, Forecast to 2019, released October 2011.

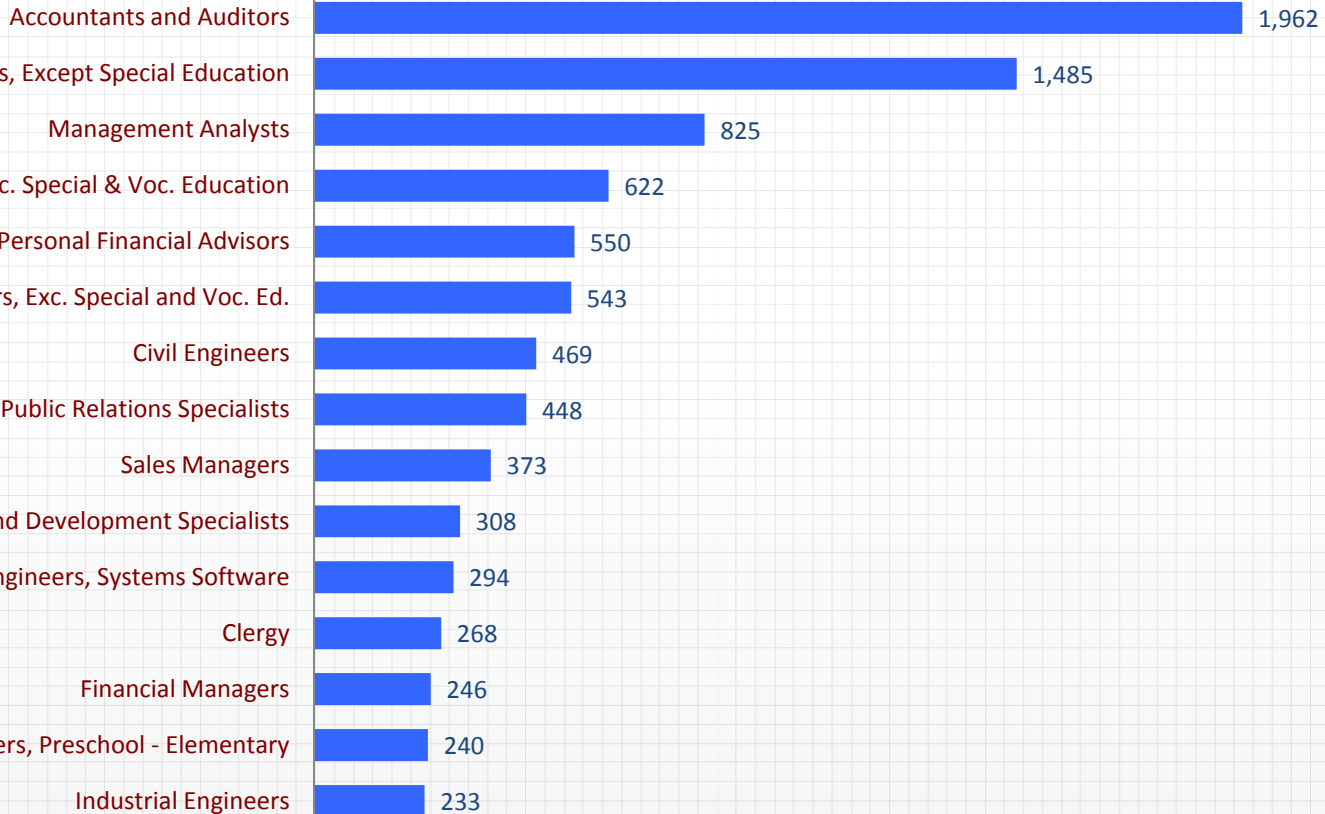


Bachelor's Degree Occupations Gaining the Most New Jobs in Florida 2011-2019

Annual Job Growth

Average Annual Wage

\$64,605
50,695
75,338
51,666
69,326
53,577
82,243
58,240
128,211
53,685
88,670
45,302
117,333
53,873
69,202



Source: Florida Department of Economic Opportunity, Labor Market Statistics Center, Forecast to 2019, released October 2011.



Bachelor's Degree Occupations Having the Most Annual Openings in Florida 2011-2019

Total Annual Openings



Source: Florida Department of Economic Opportunity, Labor Market Statistics Center, Forecast to 2019, released October 2011.



Top 20 Occupations* in Florida Requiring a Bachelor's Degree

	Title	Annual Percent Growth	Average Annual Openings	Average Annual Wage	Entry Annual Wage
1	Sales Managers	2.50	692	\$128,211	\$62,005
2	Physician Assistants	4.11	237	\$89,502	\$65,624
3	Computer Software Engineers, Systems Software	2.54	385	\$88,670	\$59,675
4	Civil Engineers	3.36	697	\$82,243	\$52,499
5	Medical and Health Services Managers	1.99	344	\$101,379	\$64,563
6	Computer and Information Systems Managers	1.78	248	\$123,677	\$82,722
7	Marketing Managers	2.12	237	\$108,014	\$55,723
8	Engineering Managers	1.78	156	\$119,059	\$82,909
9	Financial Managers	1.36	561	\$117,333	\$67,142
10	Chief Executives	0.64	736	\$186,326	\$99,341
11	Financial Examiners	3.94	33	\$88,317	\$54,475
12	Nuclear Engineers	2.31	11	\$100,485	\$79,040
13	Industrial Engineers	2.49	467	\$69,202	\$42,931
14	Aerospace Engineers	1.51	140	\$91,333	\$65,333
15	Biomedical Engineers	8.13	49	\$78,645	\$51,147
16	Public Relations Managers	1.81	60	\$108,098	\$64,542
17	Education Administrators, Elementary and Secondary	1.35	192	\$90,091	\$67,807
18	Financial Analysts	2.42	305	\$68,619	\$44,346
19	Natural Sciences Managers	1.76	37	\$118,810	\$80,683
20	Accountants and Auditors	2.42	3296	\$64,605	\$39,374

***Composite ranking based on growth, openings, average and entry wages**

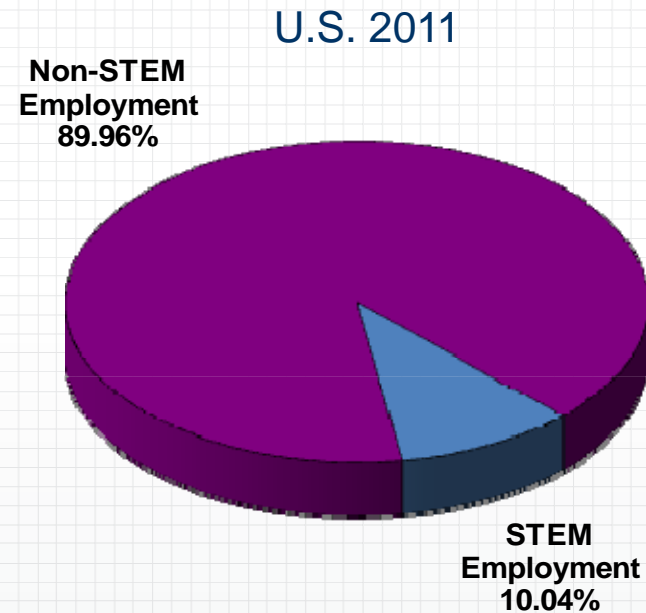
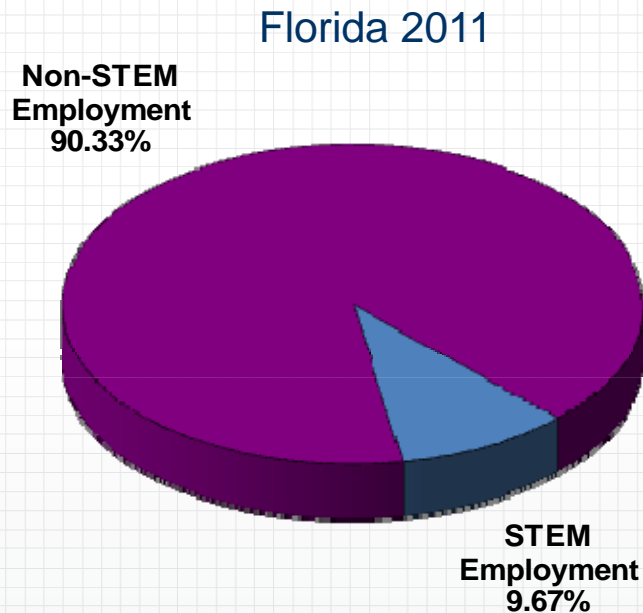
Source: Florida Department of Economic Opportunity, Labor Market Statistics Center, Forecast to 2019, released October 2011.



Science, Technology, Engineering, and Mathematics*

2011 Employment: Florida vs. the Nation

- Florida's STEM vs. non-STEM employment breakdown closely follows that of the United States



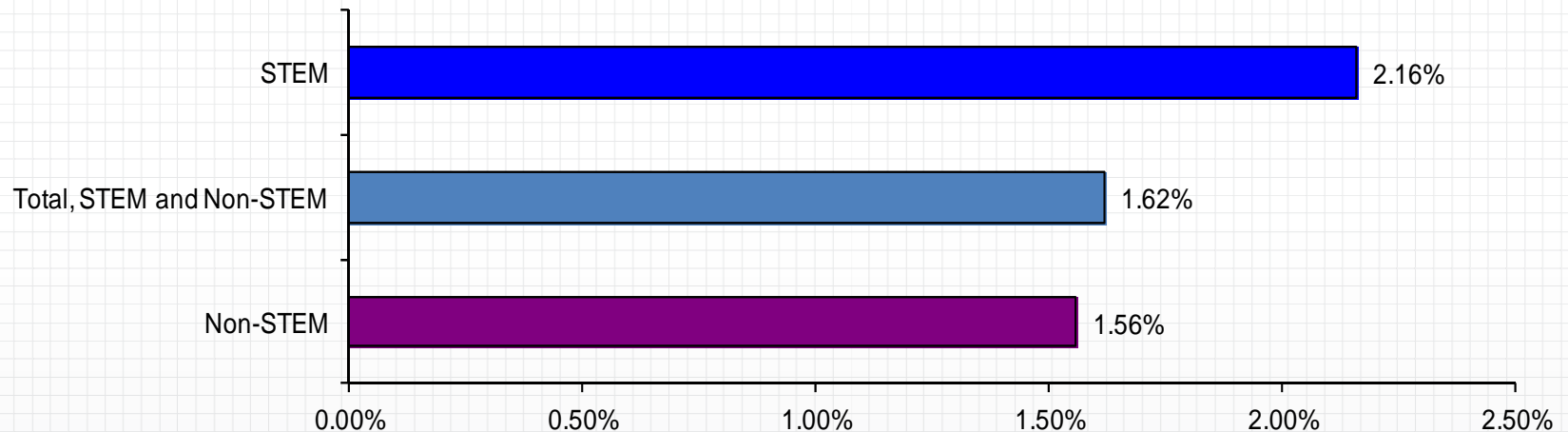
*As defined by Florida Department of Economic Opportunity, Labor Market Statistics Center

Source: Florida Department of Economic Opportunity, Labor Market Statistics Center, and U.S. Department of Labor, Bureau of Labor Statistics.

Science, Technology, Engineering, and Mathematics* Florida Job Growth Rates 2011-2019

- STEM jobs are projected to grow faster than non-STEM jobs in Florida

Annual Percent Growth



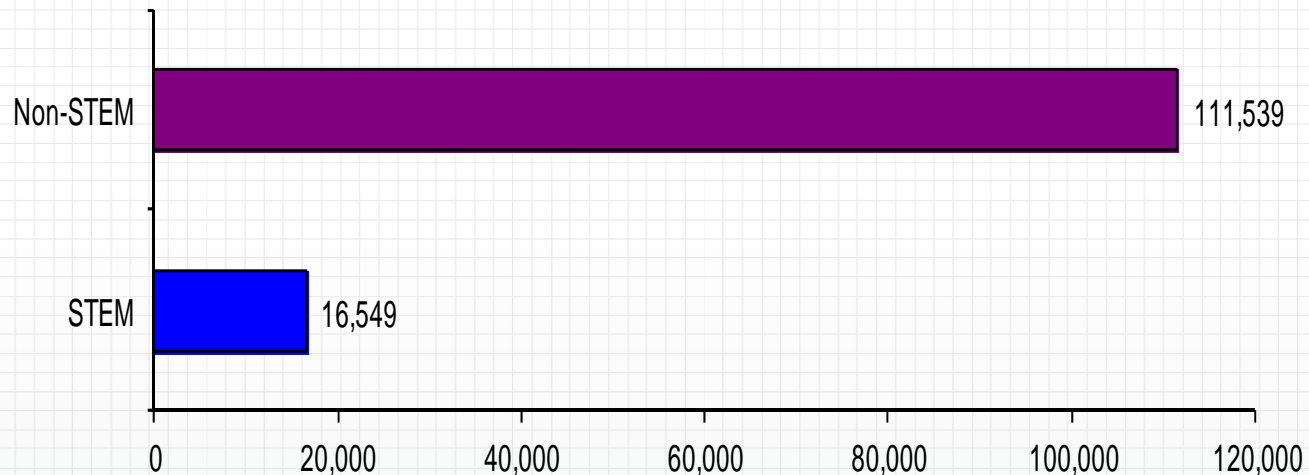
*As defined by Florida Department of Economic Opportunity, Labor Market Statistics Center

Source: Florida Department of Economic Opportunity, Labor Market Statistics Center, Forecast to 2019, released October 2011.

Science, Technology, Engineering, and Mathematics* Florida Job Growth 2011-2019

- There will be almost 8 times as many new non-STEM jobs as new STEM jobs in Florida

Annual Job Growth



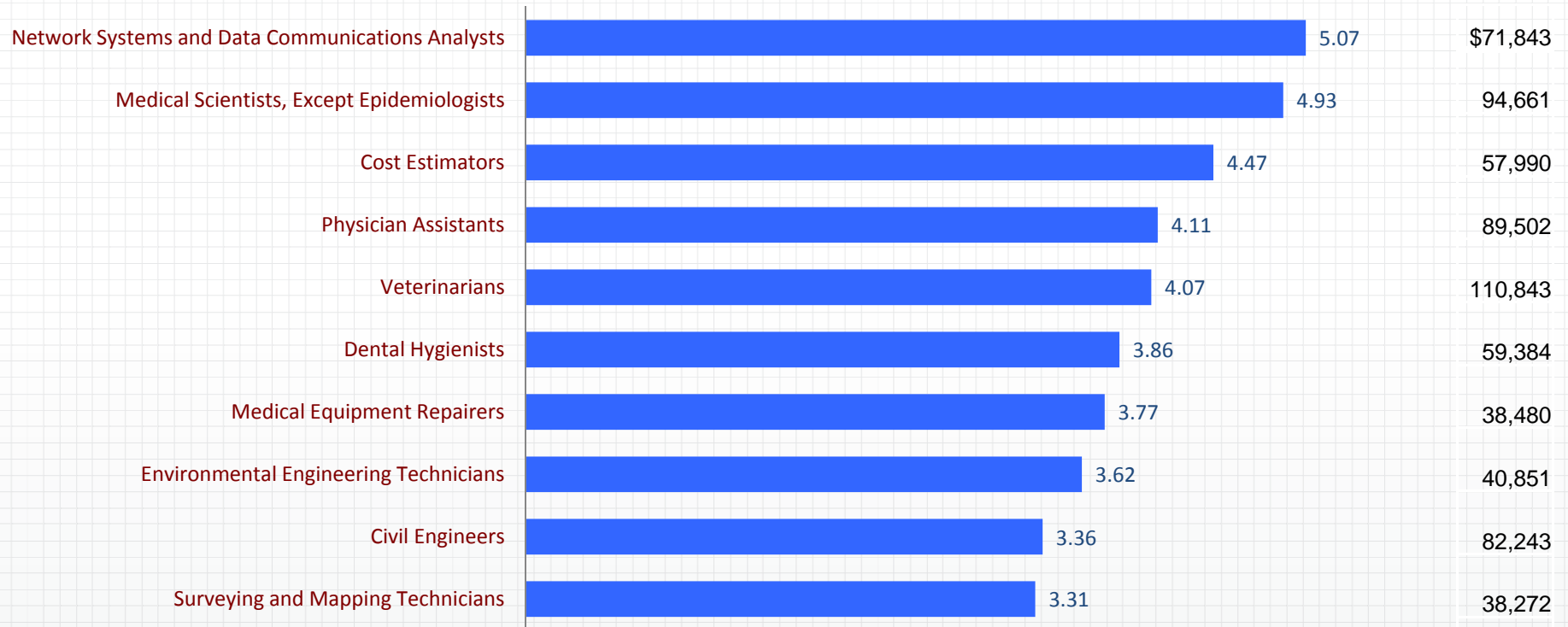
*As defined by Florida Department of Economic Opportunity, Labor Market Statistics Center

Source: Florida Department of Economic Opportunity, Labor Market Statistics Center, Forecast to 2019, released October 2011.

Science, Technology, Engineering, and Mathematics* Fastest-Growing Occupations** in Florida 2011-2019

Annual Percent Growth

Average
Annual
Wage



***As defined by Florida Department of Economic Opportunity, Labor Market Statistics Center**

** This table includes occupations with a minimum of 1,000 jobs in 2011

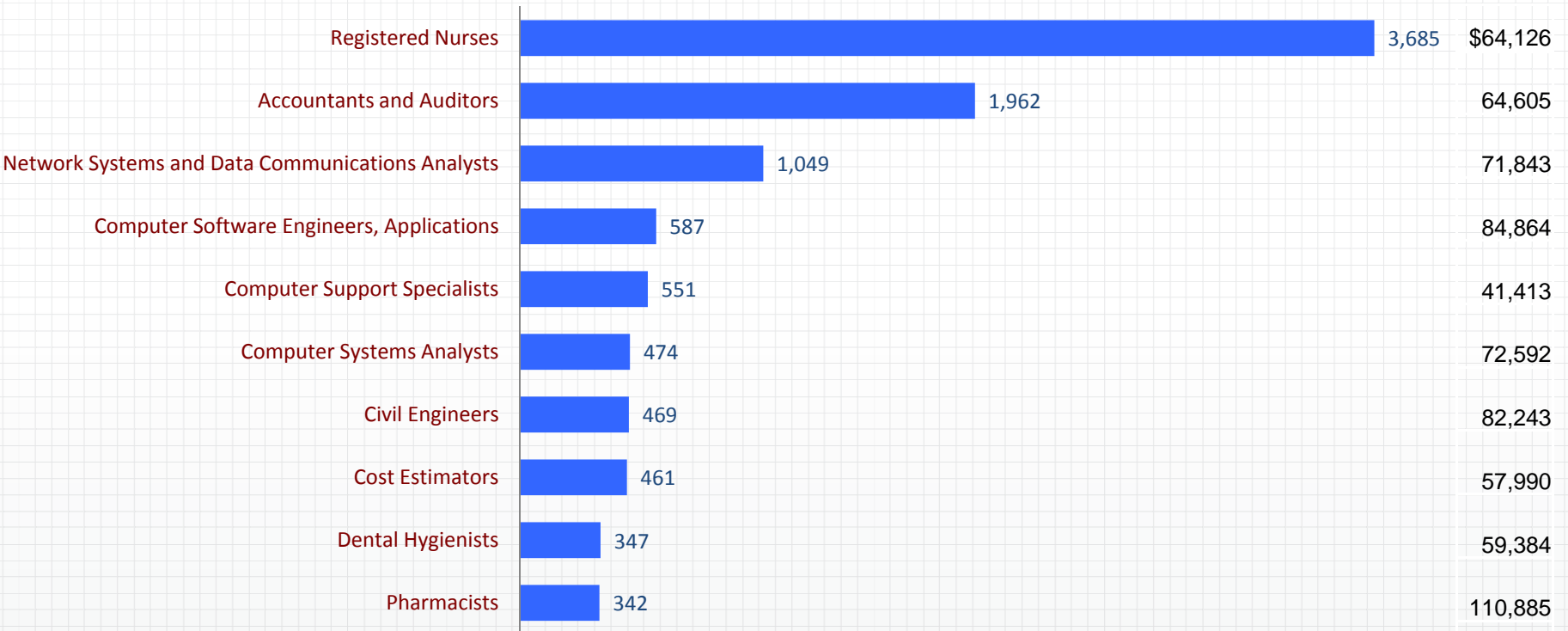
Source: Florida Department of Economic Opportunity, Labor Market Statistics Center, Forecast to 2019, released October 2011.



Science, Technology, Engineering, and Mathematics* Occupations Gaining the Most New Jobs in Florida 2011-2019

Annual Job Growth

Average
Annual
Wage



***As defined by Florida Department of Economic Opportunity, Labor Market Statistics Center**

Source: Florida Department of Economic Opportunity, Labor Market Statistics Center, Forecast to 2019, released October 2011.



Florida
Department of Economic Opportunity
Labor Market Statistics Center

Caldwell Building
MSC G-020
107 E. Madison Street
Tallahassee, Florida 32399-4111

Phone (850) 245-7211

Bill Dobson
bill.dobson@deo.myflorida.com

www.floridajobs.org/labor-market-information

fred.labormarketinfo.com

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