



Higher Education & Workforce Subcommittee

**Wednesday, February 4, 2015
1:30 p.m. – 3:30 p.m.
102 HOB**

Meeting Packet

**Steve Crisafulli
Speaker**

**Elizabeth Porter
Chair**



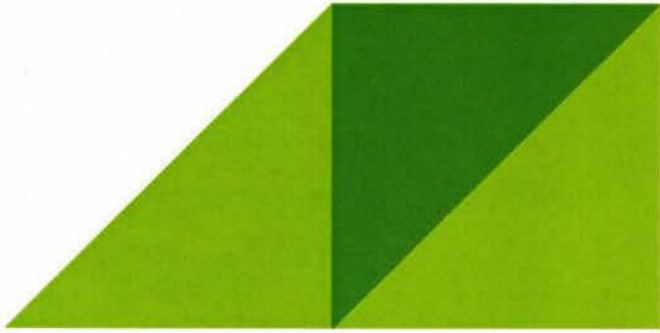
AGENDA

Higher Education & Workforce Subcommittee
Wednesday, February 4, 2015
1:30 p.m. – 3:30 p.m.
102 HOB

- I. Call to Order and Roll Call
- II. Opening Remarks
- III. Presentation by CareerSource Florida on the Market Intelligence Portal
- IV. Presentation by the Department of Economic Opportunity on the Florida Occupational Supply/Demand System
- V. Closing Remarks and Adjournment



Conceptualizing the Market Intelligence Portal





Our Vision

**Florida will be the
global leader for talent.**

The Market Intelligence Portal

- Order of Business
 - Motivation: Why?
 - What data are out there?
 - Just what is this thing anyhow?
 - It's all about perspective
 - Education/Workforce Planning
 - Economic Development
 - Students/Counselors
 - Analysts
 - Industry

Motivation

Did previous graduates obtain employment?

What is the typical salary for this degree?

Will my degree be in demand upon completion?



Should a new training program be considered?

What type of skills will be produced in the future?

Can the talent base currently support this company?



Data Available (sample)

- Labor Market Supply/Demand Data
 - County, region, etc.
- Occupational and Industry Demand Forecasts
 - Linear projection of demand(National, State, County)
- Real Time Supply/Demand Data
 - Help Wanted Online and Conference Board
- Current Market Intelligence
 - Industry specific groups
- Training Outcomes
 - Economic Security Report



The Market Intelligence Portal

- Designed to be a tool which integrates multiple data sources into a single data warehouse
 - Tailored interfaces for different audiences
 - Designed to allow education program designers to look holistically at supply/demand data (planning interface)
 - Designed to highlight in-demand occupational groups for students (student/counselor interface)
 - Designed to allow economic developers to compare regions/states/etc. quickly and effectively when recruiting projects or looking at expansion (economic developer interface)
 - Designed to allow analysts to efficiently design custom data series leveraging background forecasts (analyst tool)



Supply and Demand Finance and Accounting

Occupation	SOC	WIA-E	DPSEC-E	FCS-E	CIE-E	WAC	DPSEC-C	FCS-C	CIE-C	ICUF-C	SUS-C	JS	Total Supply	Short Term Demand	Supply Gap or Overage	Ratio of Supply to Demand
Securities, Commodities, and Financial Services Sales Agents	413031	3			2	1						1,088	1,088	2,320	-1,232	0.47
Financial Managers***	113031	1			456	8			133	80	209	1,613	2,035	2,034	1	1.00
Financial Specialists, All Other	132099	2				2						645	645	14	631	46.07
Personal Financial Advisors	132052	7			212	1		3	50	402	2,802	208	3,465	349	3,116	9.93
Financial Analysts	132051	4			243	2		3	57	415	2,802	880	4,157	727	3,430	5.72
Financial Examiners	132061				1,414				279	868	2,688	104	3,939	223	3,716	17.66
Accountants and Auditors	132011	37			1,718	33			362	908	2,688	4,741	8,699	4,661	4,038	1.87
Credit Analysts	132041			400	1,270	1		22	50	931	4,796	278	6,077	102	5,975	59.58
Budget Analysts	132031				1,624			3	329	1,213	5,450	114	7,109	37	7,072	192.14
Loan Officers	132072			549		10		263				434	697	974	-277	0.72
Totals													37,911	11,441	26,470	3

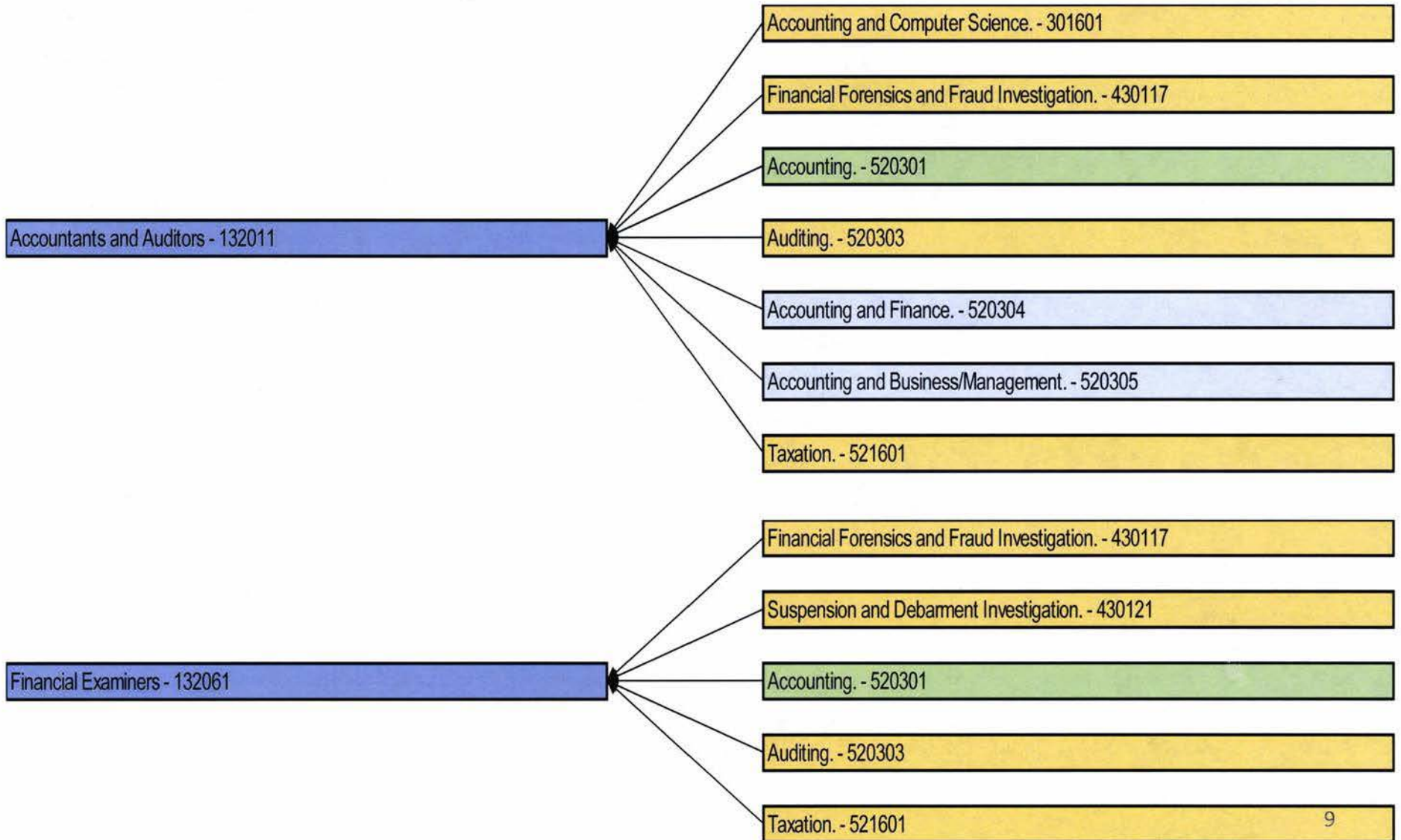


Supply and Demand Finance and Accounting

Occupation	SOC	WAE	DPSEC-E	FCS-E	CIE-E	WAC	DPSEC-C	FCS-C	CIE-C	ICUF-C	SUS-C
Securities, Commodities, and Financial Services Sales Agents	413031	3			2	1					
Financial Managers***	113031	1			456	8			133	80	209
Financial Specialists, All Other	132099	2				2					
Personal Financial Advisors	132052	7			212	1		3	50	402	2,802
Financial Analysts	132051	4			243	2		3	57	415	2,802
Financial Examiners	132061				1,414				279	868	2,688
Accountants and Auditors	132011	37			1,718	33			362	908	2,688



Supply and Demand Finance and Accounting

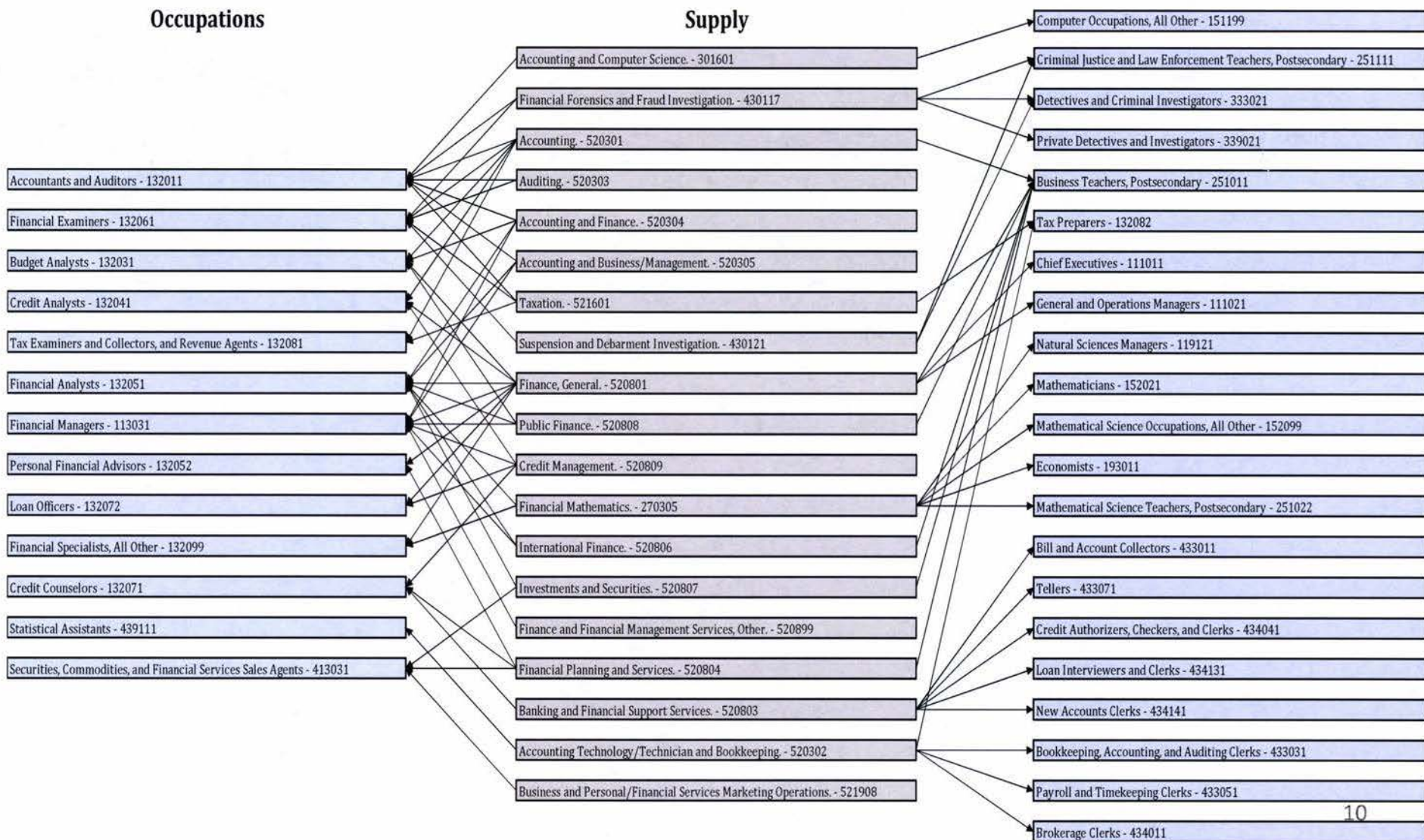




Supply and Demand Finance and Accounting

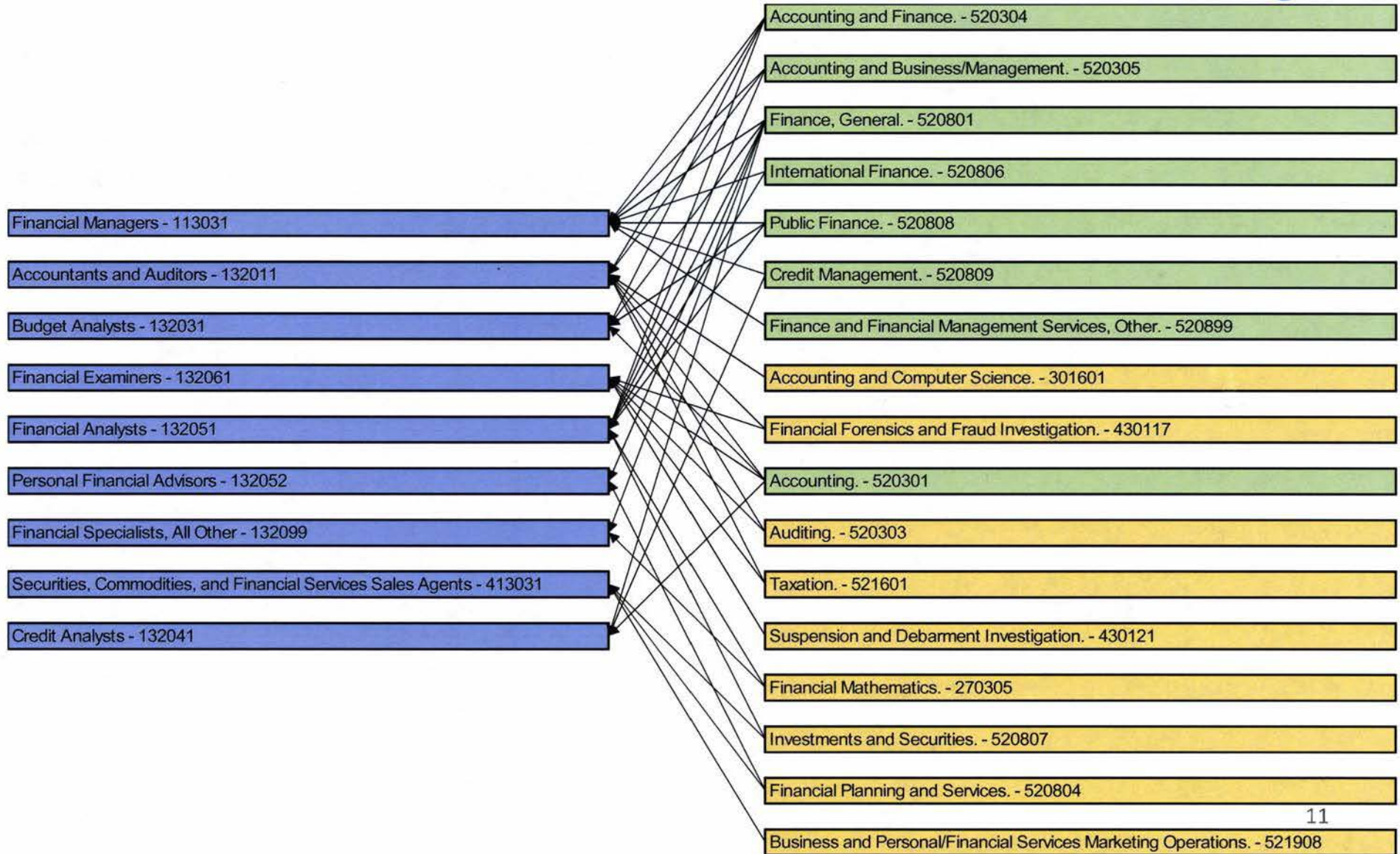
Occupations

Supply

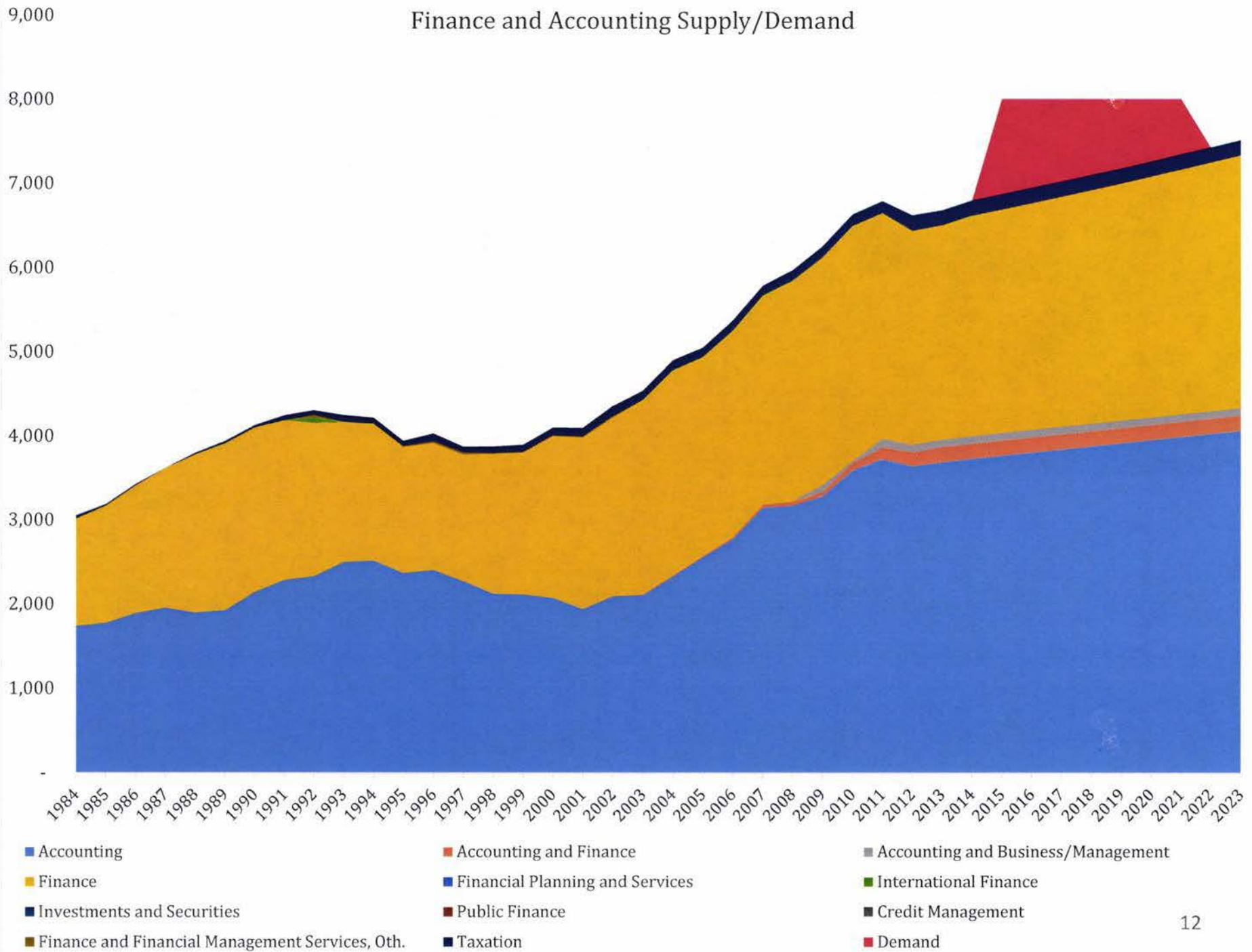




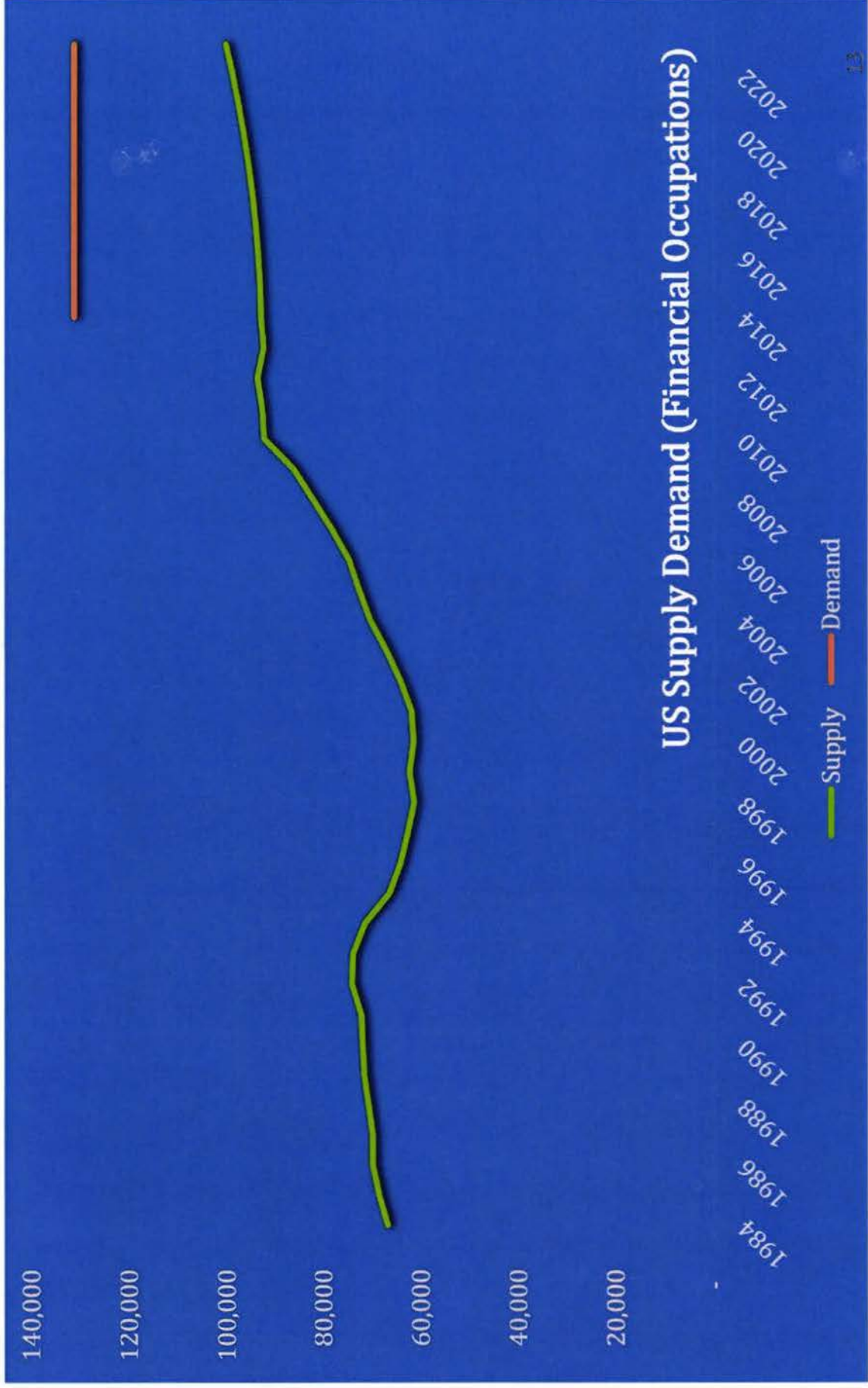
Supply and Demand Finance and Accounting



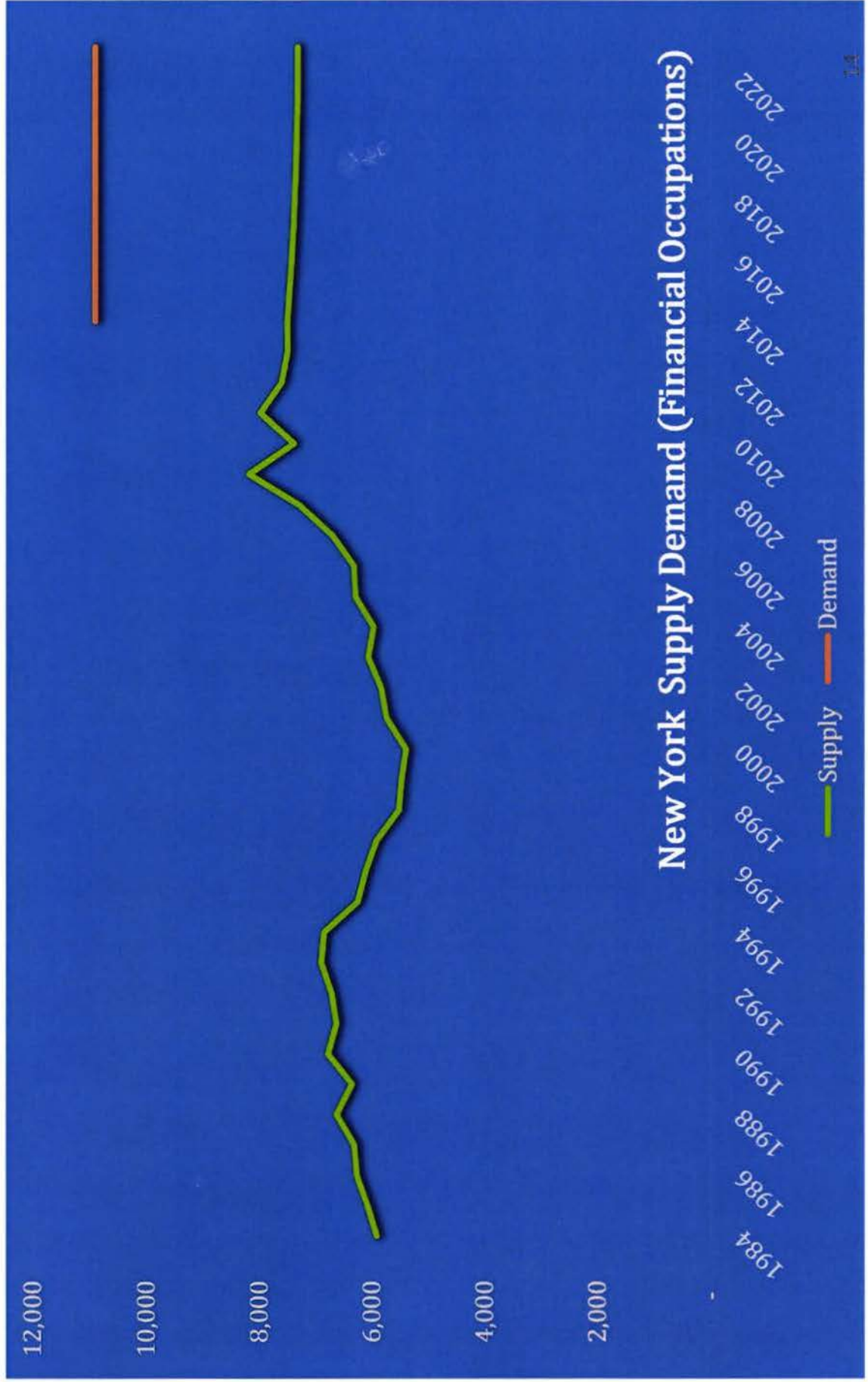
Finance and Accounting Supply/Demand



Finance/Accounting (US)



Finance/Accounting (NY)





Accounting Degree Wages

Accounting

Area of Study (CIP) Code: [52.0301]

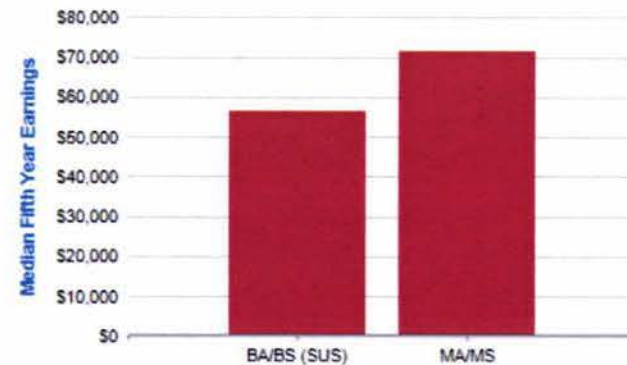
Type or click to select

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Area of Study Description

A program that prepares individuals to practice the profession of accounting and to perform related business functions. Includes instruction in accounting principles and theory, financial accounting, managerial accounting, cost accounting, budget control, tax accounting, legal aspects of accounting, auditing, reporting procedures, statement analysis, planning and consulting, business information systems, accounting research methods, professional standards and ethics, and applications to specific for-profit, public, and non-profit organizations.

Median Fifth Year Earnings by Degree Level



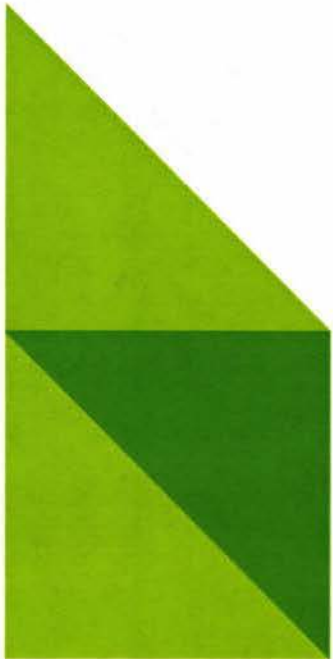
5th Year Outcomes After Graduation (2007/2008 Graduates)

Detailed Breakdown 5th Year Outcomes After Graduation (2007/2008 Graduates)

Degree Level	Institutions with Disclosable Programs	# of Completers	Public Assistance Percent	Total Employed Percent	Median Fifth Year Earnings	Continuing Education Percent
Bachelor's Degree (SUS)	10 institutions	1,721	1 %	73 %	\$56,254	5 %
	Florida Agricultural and Mechanical University	39	0 %	54 %	\$53,688	0 %
	Florida Atlantic University	260	0 %	77 %	\$54,828	6 %
	Florida Gulf Coast University	45	0 %	76 %	\$49,970	7 %
	Florida International University	167	0 %	74 %	\$61,384	5 %
	Florida State	188	0 %	75 %	\$57,202	7 %



Questions?



Rod Lewis, PhD
rlewis@careersourceflorida.com
850.510.0771

Aaron Schmerbeck, PhD
aschmerbeck@careersourceflorida.com



FLORIDA
DEPARTMENT *of*
ECONOMIC
OPPORTUNITY

Florida Occupational Supply/Demand System

House Higher Education and Workforce Subcommittee

February 4, 2015

Florida Bureau of Labor Market Statistics





FLORIDA OCCUPATIONAL SUPPLY/DEMAND SYSTEM

[Report Hints and Tips](#)[FAQ](#)[Data Sources](#)[Crosswalk Data](#)[Job Ads Visualization Tool](#)[Florida Occupational Employment and Wages](#)[Partners and other related links](#)[Contact Us](#)

WELCOME!

The Florida Department of Economic Opportunity (DEO), Bureau of Labor Market Statistics has developed this new tool that allows users to view occupational Supply/Demand information in Florida. These data help in making informed choices for allocating training resources, helping jobseekers with reemployment information and providing timely data for workforce, economic developers and education.

The application allows the user to compare sources of potential occupational supply (graduates from post secondary educational programs and jobseekers) with sources of occupational demand (job openings). The education and occupation data contained in this tool are comprehensive and can be explored in many different ways. There are two report options: a standard report and a custom report.

Standard Report

- The Standard Report uses the most recent occupational data available.
- Total Supply consists of data from workforce and educational training sources as well as jobseekers.
- Data can be selected by Workforce Region (RWBs).
- Data can be selected by aggregating Workforce Regions as a single 'Super' region.
- Data can be selected for Short-Term analysis using online job ads or long-term analysis using employment projections as demand.
- Data are selected by Major Occupational Group(s) and/or specific occupation(s).

Custom Report

- Report is fully customizable by the user
- User picks the timeframes for which the report gathers data.
 - View the most current data or select historical data.
- User can select to see any or all of the following occupational data:
 - **Potential Occupational Supply Indicators**
 - Enrollees
 - Completers/Graduates
 - Jobseekers
 - **Additional Occupational Information**
 - Current Employment
 - Projected Employment
 - Wages
 - Targeted Occupations List
 - Education Level

Detail on Florida's Occupational Supply / Demand System

- Florida applied for and won a competitive grant from the U.S. Department of Labor; Workforce Data Quality Initiative for \$1 million
 - The grant funded the new Florida Occupational Supply/Demand System (S/D) which is the most comprehensive and timely system available in the nation
 - The S/D system has been designed to improve education and training alignment to better meet the hiring needs of business
 - The S/D system has been designed for workforce, education, business/economic development, job seekers, and students
 - The web-based data are statewide and by region
 - Florida's supply/demand system and LMI business recruitment functions are now funded on an ongoing basis by the Florida Legislature
 - On-going improvements include a new Job Seeker, Student and Parent Portal for Occupational and Supply/Demand information that is easy to use and understand



Florida's Supply/Demand System

- **The indicators of Potential Labor Supply by occupation are:**
 - Workforce, public and private postsecondary education (enrollees completers, and graduates by occupation based on CIP-SOC)
 - Job seekers registered at career centers
- **The indicators for Labor Demand are:**
 - The Conference Board's Help Wanted OnLine (HWOL) data series of monthly job ad openings by occupation (for short-term analysis)
 - DEO LMS average annual projected openings by occupation (for long-term analysis)
- **Other Information:**
 - Current and projected employment, wages, and education required by occupation

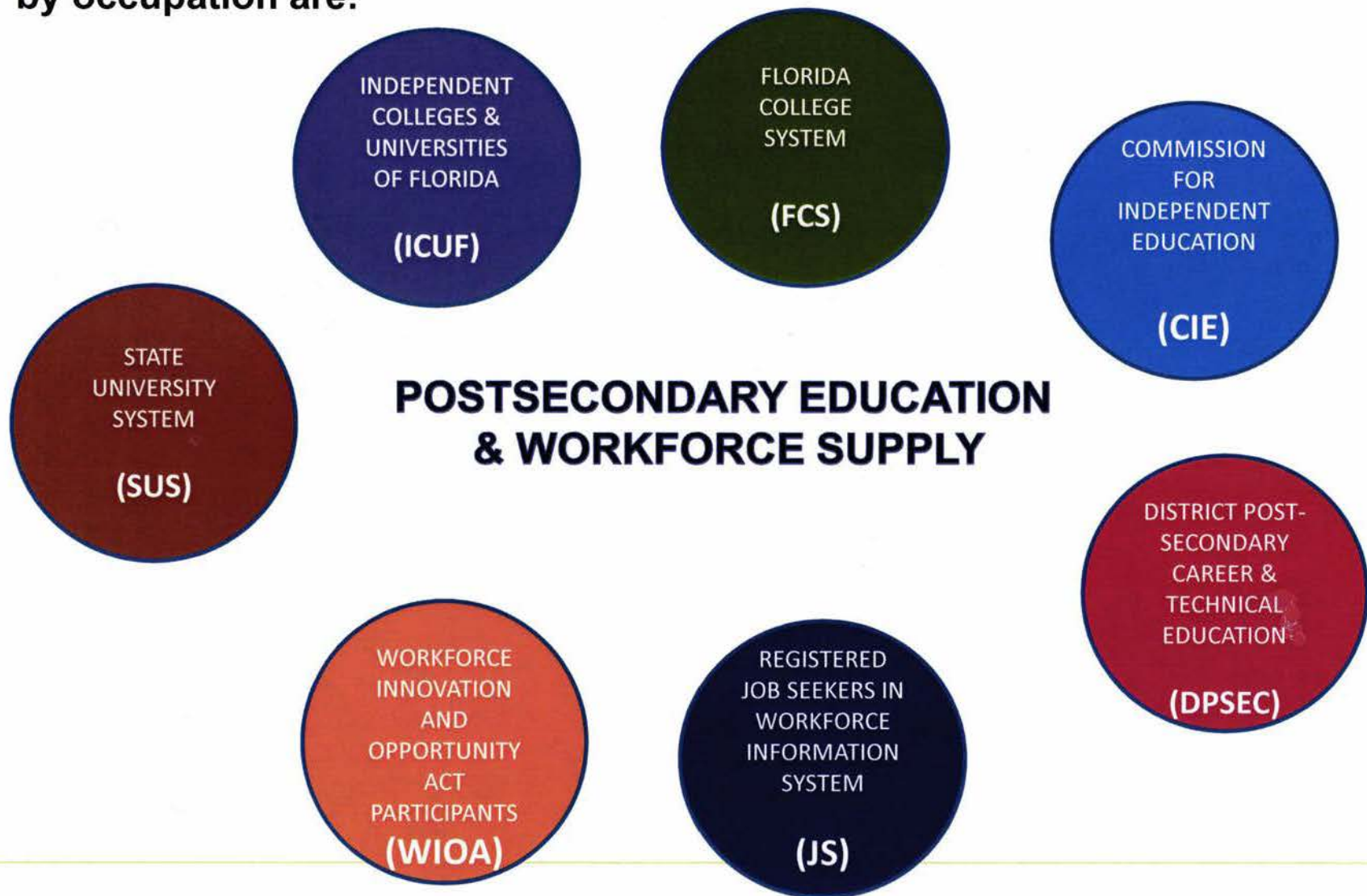


How will the data be used to help Florida and the economy?

- Workforce and education will use the data to create better alignment of education and training offerings in meeting the hiring demands of business
- Business/economic developers will have the most comprehensive and timely occupational data to determine available labor supply to support business recruitment
- A new portal is under development to enhance the system for job seekers seeking re-employment; students and parents selecting career choices on jobs in demand now and in the future
- The portal will be easier to use with more graphical data presentations



The Sources of Potential Labor Supply by occupation are:

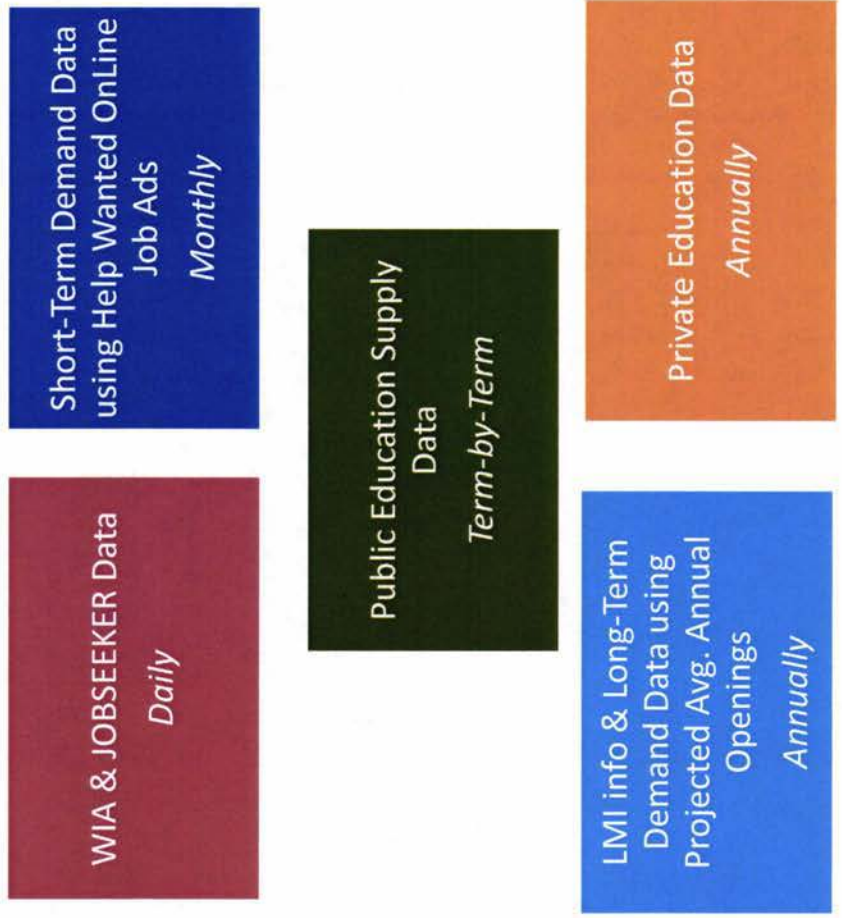


Supply/Demand Data Components

- Workforce System** - Workforce Investment Act (WIA) training enrollees and completers, and registered job seekers by occupation
- Postsecondary Education** - Completers/graduates for education supply by sector, institution, term and year, and program name and coding enrollees provided as "Pipeline Information"
- Employer Job Ads Demand via Internet** - Monthly job ad counts by occupation both statewide and by workforce region
Provided by The Conference Board's Help Wanted OnLine (HWOL) data series
- Labor Market Information** - Average annual occupational openings
Occupational employment levels (current & 8 years out)
Entry, median & experienced wages
Occupational growth rates
Minimum & typical education level of occupations



How often are the data updated?



Short-Term Demand:

This data series is based on employer generated job ads advertised on the internet. The source is The Conference Board's Help Wanted OnLine data series which scrapes over 16,000 sources. The data are available monthly and have been processed to reduce duplicate job ads.

Long-Term Demand:

This data series has average annual openings based on long-term projections produced by DEO's Bureau of Labor Market Statistics. These data are based on projected occupational growth and separations (includes projections of retirements and those changing occupations, not simply changing jobs). The data are available on an annual basis.

How do they Differ?

Short-term demand is based upon ads resulting from occupational growth, separations, and job churning. Job churning is the voluntary movement of workers from one job to another, usually due to seeking a better job opportunity. As a result, short-term demand can exceed long-term demand.



Explanation of Supply/Demand Report Information...

Regional Report														
Area	Occupation	SOC	WIA-E	DPSEC-E	FCS-E	CIE-E	WIA-C	DPSE-C-C	FCS-C	CIE-C	ICUF-C	SUS-C	JS	Total Supply
12	Registered Nurses	291141	17		2,984	942	10		540	119	972	2,111	276	935

- Enrollees on the Supply/Demand report are signified with an –E suffix following the Supply acronym while Completers/Graduates are indicated by a -C suffix.
- Notice that items in **BLUE** are used in creating the **Total Supply** (also in **BLUE**).
- REGIONAL Reports *DO NOT* include ICUF and SUS data in total supply as university graduates are considered statewide supply and are not parsed to a regional level. They are provided as informational supply only.
- STATEWIDE Reports *DO* include University graduates. When reviewing occupations for potential new training programs or programs to reduce, one should always review both the Regional and Statewide Reports.

Statewide Report														
Area	Occupation	SOC	WIA-E	DPSEC-E	FCS-E	CIE-E	WIA-C	DPSE-C-C	FCS-C	CIE-C	ICUF-C	SUS-C	JS	Total Supply
STW	Registered Nurses	291141	2,074		27,803	11,969	882		5,345	2,258	972	2,111	5,417	16,103



Explanation of Supply/Demand Report Information (Continued)

Area	Occupation	SOC	Total Supply	Short Term Demand	Ratio of Supply to Demand	Supply Gap or Overage	CURR YR EMP	ENTRY WAGE	MEDIAN WAGE	EXP WAGE	ON TOL	FL EDUC LEV
12	Registered Nurses	291141	935	1,499	0.62	-564	18,195	\$22.31	\$27.33	\$31.19	Yes	4

Total Supply is contrasted against Short Term Demand

Total Supply of 935 vs. Short-Term Demand of 1,499 leaves a "Gap" of -564 trained individuals

...and a ratio of .62 persons for each job ad existing

Other Information:

Current employment, wages, and education required by occupation

Fl. Education Levels 1=<HS 2=HS 3=Postsecondary Adult Vocational (PSAV) 4=College Credit 5= Bachelor's 6= Master's or higher



Data Caveats

- All supply data are *potential labor supply*
- Completers/graduates are counted in *each occupation* related to their program of study
- Enrollees may or may not complete training
- Completers may already have a job or may have moved out of the geographic area
- Most jobseekers do not register with the career centers and they may or may not be qualified for the job they are seeking



Data Caveats (continued)

- Not all job openings are advertised on the Internet
- The job ads have been de-duplicated but some duplicates may still exist
- Time frames for supply and demand data elements may differ
- District and Florida College System enrollees and completers are supply in the workforce region
- University graduates are statewide only and cannot be parsed to workforce regions; the statewide report does include university graduates in supply



Data Caveats (continued)

- Some job ads may be placed in an area but actually exist in a different location
- There can be some seasonal aspects to the S/D report related to education, agriculture, and tourism
- Information may be known at the local level that should be considered when using the occupational S/D data, such as incoming or expanding firms



IN CLOSING ...

All 823 occupations can be selected for:

- Statewide
- Regions
- Custom combinations of regions

The system typically provides a report in less than a minute

Committee members can use the provided system sign-in information to access the system; if desired

A sample Occupational Under-Supply Report is provided in your DEO meeting materials



URL for your Web Browser = Supplydemand.floridajobs.org



The screenshot shows the login interface for the Supply Demand Application. At the top left is the DEO logo (Florida Department of Economic Opportunity) and a navigation breadcrumb: DEO Home > Labor Market Information > Supply Demand. The main content area is a light blue box titled "Supply Demand Application Login:" containing two input fields: "User Login Id:" with the value "flleg" and "Password:" with a red asterisk. A "Submit" button is located below the fields. At the bottom of the page, there is a copyright notice: "© 2014 State of Florida, Department of Economic Opportunity" and links for "Site Map", "Privacy Statement", and "Legal".

The Florida Occupational Supply/Demand System currently requires signing into –

Login ID = flleg (not case sensitive)

Login P/W = fllegPass (IS case sensitive, "P" must be uppercase)



FLORIDA DEPARTMENT of ECONOMIC OPPORTUNITY

Ratio of Supply to Demand ReportUser's Data Choice Summary to Generate Report

Report Type	Standard
Reporting Level	Report with selected region(s) data aggregated together
Demand Data Use Option	Short Term Demand Data as Demand
Selected Reporting Area(s)	Statewide
Supply Data Period(s)	WIA E: Activity <= 12/13/2014 WIA C: From 06/14/2014 To 12/13/2014 JS: From 11/14/2014 To 12/13/2014 DPSEC E and C: 2013-14:YR FCS E and C: 2013-14:YR SUS C: 2013-14:YR CIE E and C: 2013-14:YR ICUF C: 2012-13:YR
Demand Data Period(s)	Short Term Demand Data: 12/2014
Sort Order	By Supply Gap Overage
% of tolerance for displaying occupations as either under or over supplied	10 Note: % Tolerance = % range of Supply Gap to Overage that will be considered neither under or over supplied. Occupations under supplied will be displayed in a green font, those not considered under supplied will be in a black font.
Occupational Education Level Selected	Minimum Req'd Education (FL Education Codes) FL: 1 = Less than High School, 2 = HS/GED, 3 = PSAV, 4 = College Credit (ATD, AAS, AS). 5 = Bachelor's. 6 = Master's or higher.
Asterisk(s) on Occupation Title notations indicate these minimum requirements:	* Less than 1 year of experience; ** 1 to 5 years of experience; *** More than 5 years of experience

Report Header Abbreviations

WIA-E	Workforce Investment Act Enrollees
WIA-C	Workforce Investment Act Completers/Graduates
DPSEC-E	District Postsecondary Enrollees
DPSEC-C	District Postsecondary Completers/Graduates
FCS-E	Florida College System Enrollees
FCS-C	Florida College System Completers/Graduates
CIE-E	Commission for Independent Education Enrollees
CIE-C	Commission for Independent Education Completers/Graduates
JS	Jobseekers
ICUF-C	Independent Colleges & Universities of Florida Completers/Graduates
SUS-C	State University System Completers/Graduates
Total Supply	Supply total
Short-Term Demand	Demand Total from Help Wanted OnLine (HWOL)
EFM Job Ads	Employ Florida Marketplace Job Ads
Long-Term Demand	Projected Average Annual Job Openings as Demand
CURR YR EMP	Current Year Employment (based on year selected)
OUT YR EMP	Projected employment level 8 years out from 'Base Yr Proj' employment level
ANNUAL OPENINGS	Projected Average Annual Job Openings (DEO Produced)
ENTRY WAGE	Occupation Entry Wage
MEDIAN WAGE	Occupation Median Wage
EXP WAGE	Occupation Experienced Wage
ON TOL	On Targeted Occupations List
FL EDUC LEV	Florida Education Level (minimum education req'd)
SOC	Standard Occupational Classification (2010 Version)

* Report rows where supply and demand counts are all zero will not display in the report

**NOTE: WIA Completers are counted in other education sources for Supply Calculations.

Sources: FL Department of Economic Opportunity (DEO), Labor Market Statistics Center; FL Department of Education; FL State University System; FL Commission of Independent Education; The Conference Board's Help Wanted OnLine (all sources listed; actual sources used in report are based upon user's customized selections)

Area	Occupation	SOC	WIA-E	DPSEC-E	FCS-E	CIE-E	WIA-C	DPSEC-C	FCS-C	CIE-C	ICUF-C	SUS-C	JS	Total Supply	Short Term Demand	Supply Gap or Overage	Ratio of Supply to Demand	CURR YR EMP	ENTRY WAGE	MEDIAN WAGE	EXP WAGE	ON TOL	FL EDUC LEV
FL Education Level 6 - Master's or higher																							
STW	Genetic Counselors	299092											1	1	4	-3	0.25	89	\$ 30.24	\$ 35.04	\$ 38.11	N/A	6
STW	Occupational Therapists	291122				327				64	81	158	50	353	1,124	-771	0.31	6,402	\$ 27.90	\$ 39.03	\$ 45.40	N/A	6
STW	Physical Therapists	291123	6			195	2			55	120	308	121	604	1,545	-941	0.39	12,462	\$ 28.65	\$ 40.00	\$ 46.62	N/A	6
STW	Speech-Language Pathologists	291127									224	319	30	573	976	-403	0.59	7,295	\$ 24.83	\$ 36.21	\$ 41.88	N/A	6
STW	Medical Scientists, Except Epidemiologists	191042	1			23					72	161	49	282	349	-67	0.81	2,427	\$ 21.13	\$ 33.51	\$ 48.74	N/A	6
STW	Dentists, General	291021	1			200					143	83	65	291	204	87	1.43	8,180	\$ 37.90	\$ 66.37	\$ 93.60	N/A	6
STW	Operations Research Analysts	152031	1			938	2			257	60		104	421	286	135	1.47	6,334	\$ 18.62	\$ 25.81	\$ 33.34	N/A	6
FL Education Level 5 - Bachelor's																							
STW	Petroleum Engineers	172171											6	6	22	-16	0.27	N/R	N/R	N/R	N/R	N/A	5
STW	Industrial Engineers	172112					4				29	150	154	333	1,091	-758	0.31	10,018	\$ 21.39	\$ 33.53	\$ 41.62	N/A	5
STW	Securities, Commodities, and Financial Services Sales Aqents	413031	1			6	1			3			1,036	1,039	2,101	-1,062	0.49	20,410	\$ 17.00	\$ 28.89	\$ 53.82	N/A	5
STW	Recreational Therapists	291125	1										69	69	129	-60	0.53	604	\$ 16.03	\$ 21.97	\$ 25.49	N/A	5
STW	Business Teachers, Postsecondary	251011	4								1	13	137	151	198	-47	0.76	5,454	\$ 25.73	\$ 48.33	\$ 74.56	N/A	5
STW	Physician Assistants	291071				129	2			33	309	58	146	546	626	-80	0.87	4,846	\$ 35.03	\$ 45.94	\$ 53.49	N/A	5
STW	Sales Engineers	419031					3						162	162	180	-18	0.90	1,676	\$ 32.47	\$ 50.13	\$ 69.34	N/A	5
STW	Financial Managers***	113031	2			351	5			80	80	209	1,475	1,844	1,840	4	1.00	18,206	\$ 36.67	\$ 56.08	\$ 75.59	N/A	5
STW	Physical Scientists, All Other	192099				4					1		4	5	4	1	1.25	546	\$ 24.03	\$ 34.67	\$ 43.47	N/A	5
STW	Health and Safety Engineers, Except Mining Safety	172111					2				8	115	104	227	175	52	1.30	1,136	\$ 24.40	\$ 33.65	\$ 40.22	N/A	5
STW	Materials Scientists	192032										1	12	13	10	3	1.30	N/R	\$ 20.07	\$ 34.31	\$ 42.73	N/A	5
STW	Civil Engineers	172051	2			20				4	44	629	304	981	750	231	1.31	13,863	\$ 26.81	\$ 38.85	\$ 47.81	N/A	5
STW	Medical and Health Services Managers	119111	31			2,501	32		194	316	441	1,677	1,445	4,073	2,984	1,089	1.36	10,948	\$ 33.77	\$ 45.80	\$ 61.31	N/A	5
STW	Marine Engineers and Naval Architects	172121	1				1						58	58	42	16	1.38	659	\$ 27.08	\$ 39.10	\$ 43.89	N/A	5
STW	Mining and Geological Engineers, Including Mining	172151											10	10	7	3	1.43	N/R	\$ 23.00	\$ 35.26	\$ 43.14	N/A	5
FL Education Level 4 - College Credit (ATD, AAS, AS, etc.)																							
STW	Funeral Service Managers	119061											3	3	20	-17	0.15	337	\$ 23.78	\$ 29.10	\$ 41.48	No	4
STW	Medical and Clinical Laboratory Technologists	292011	3		169		5		38				212	250	626	-376	0.40	10,040	\$ 22.45	\$ 27.63	\$ 30.44	No	4
STW	First-Line Supervisors of Non-Retail Sales Workers	411012			32		4		1				816	817	1,788	-971	0.46	33,435	\$ 21.27	\$ 34.99	\$ 50.65	Yes	4
STW	Purchasing Agents, Except Wholesale, Retail, and Farm Products	131023	5			3	2			1			317	318	582	-264	0.55	13,371	\$ 17.67	\$ 25.90	\$ 32.63	Yes	4
STW	Vocational Education Teachers, Postsecondary	251194	1			387	5			198			201	399	714	-315	0.56	7,668	\$ 15.81	\$ 23.56	\$ 31.55	Yes	4
STW	First-Line Supervisors of Construction Trades and Extraction Workers***	471011	11		1,986	273	9		123	85			724	932	1,577	-645	0.59	33,896	\$ 18.49	\$ 26.84	\$ 33.17	Yes	4
STW	Loan Officers	132072			549		10		263				428	691	923	-232	0.75	19,814	\$ 22.10	\$ 32.62	\$ 43.64	Yes	4

Area	Occupation	SOC	WIA-E	DPSEC-E	FCS-E	CIE-E	WIA-C	DPSEC-C	FCS-C	CIE-C	ICUF-C	SUS-C	JS	Total Supply	Short Term Demand	Supply Gap or Overage	Ratio of Supply to Demand	CURR YR EMP	ENTRY WAGE	MEDIAN WAGE	EXP WAGE	ON TOL	FL EDUC LEV
STW	Human Resources Specialists	131071	15		104	63	48		25	8	179		855	1,067	1,108	-41	0.96	25,438	\$ 16.61	\$ 23.88	\$ 31.23	No	4
STW	First-Line Supervisors of Police and Detectives**	331012	8				2						35	35	33	2	1.06	3,983	\$ 28.35	\$ 42.29	\$ 50.05	No	4
STW	Registered Nurses	291141	2,051		27,930	21,294	978		5,815	4,293	1,413	2,357	4,898	18,776	17,216	1,560	1.09	167,360	\$ 23.87	\$ 29.58	\$ 33.64	Yes	4
STW	Software Developers, Applications	151132	20		5,185	3,019	25		345	652	225	917	620	2,759	2,474	285	1.12	24,599	\$ 24.69	\$ 38.28	\$ 46.88	Yes	4
STW	Occupational Therapy Assistants	312011	27		569	286	13		89	17			124	230	179	51	1.28	1,410	\$ 23.65	\$ 30.15	\$ 32.43	No	4
STW	Computer Systems Analysts	151121	21	12	7,176	2,262	16	1	692	232	414	1,954	777	4,070	3,154	916	1.29	22,380	\$ 27.44	\$ 39.88	\$ 49.16	Yes	4
STW	Property, Real Estate, and Community Association Managers**	119141	2				3				14	153	1,278	1,445	1,072	373	1.35	35,596	\$ 14.87	\$ 23.15	\$ 33.08	Yes	4
STW	Civil Engineering Technicians	173022	6		406		3		16				126	142	102	40	1.39	2,857	\$ 14.16	\$ 21.95	\$ 26.89	No	4
FL Education Level 3 - PSAV																							
STW	First-Line Supervisors of Transportation and Material-Moving Machine and Vehicle Operators**	531031	1		960		1		177				230	407	1,190	-783	0.34	9,157	\$ 17.50	\$ 25.78	\$ 31.64	No	3
STW	First-Line Supervisors of Mechanics, Installers, and Repairers**	491011	18		946		8		42				608	650	1,580	-930	0.41	26,628	\$ 18.87	\$ 27.66	\$ 33.50	Yes	3
STW	Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific Products	414012	2				17						1,348	1,348	3,070	-1,722	0.44	97,485	\$ 12.87	\$ 22.83	\$ 35.56	Yes	3
STW	Rolling Machine Setters, Operators, and Tenders, Metal and Plastic	514023											6	6	13	-7	0.46	231	\$ 10.83	\$ 15.83	\$ 20.19	No	3
STW	Magnetic Resonance Imaging Technologists	292035	1			27				12			11	23	43	-20	0.53	3,206	\$ 24.30	\$ 30.69	\$ 33.35	No	3
STW	Sales Representatives, Wholesale and Manufacturing, Technical and Scientific Products	414011	3				30						1,047	1,047	1,644	-597	0.64	22,334	\$ 19.87	\$ 32.31	\$ 46.26	Yes	3
STW	Self-Enrichment Education Teachers**	253021											70	70	108	-38	0.65	16,751	\$ 9.77	\$ 14.55	\$ 20.20	No	3
STW	Bus and Truck Mechanics and Diesel Engine Specialists	493031	6	612	254	76	8	68	34	57			303	462	712	-250	0.65	10,322	\$ 15.03	\$ 20.82	\$ 24.50	No	3
STW	Hearing Aid Specialists	292092											18	18	27	-9	0.67	206	\$ 17.57	\$ 25.41	\$ 28.91	No	3
STW	Pest Control Workers	372021	2	5	1		1	3	1				199	203	295	-92	0.69	9,201	\$ 10.82	\$ 14.00	\$ 17.23	No	3
STW	Security and Fire Alarm Systems Installers	492098	1		1		4		6				157	163	235	-72	0.69	6,445	\$ 12.77	\$ 17.31	\$ 20.40	Yes	3
STW	Upholsterers	516093											43	43	60	-17	0.72	2,192	\$ 9.91	\$ 14.45	\$ 17.87	No	3
STW	Real Estate Sales Agents	419022	7	36	243		4	7	166		5	129	503	810	1,125	-315	0.72	61,131	\$ 11.06	\$ 15.59	\$ 24.98	Yes	3
STW	Insurance Sales Agents	413021	11		805		20		590				1,017	1,607	2,223	-616	0.72	46,146	\$ 18.11	\$ 25.12	\$ 39.33	Yes	3
STW	Web Developers	151134	5	656	365	3,318		105	28	667	357	705	345	2,207	2,857	-650	0.77	8,789	\$ 18.54	\$ 27.25	\$ 34.79	Yes	3
STW	Actors	272011											364	364	441	-77	0.83	2,006	\$ 10.96	\$ 15.82	\$ 20.99	No	3
STW	Fundraisers	131131											40	40	47	-7	0.85	2,435	\$ 15.60	\$ 24.65	\$ 31.85	No	3
STW	First-Line Supervisors of Food Preparation and Servinq Workers**	351012	17		4,879	6,191	25		633	1,897			1,090	3,620	4,196	-576	0.86	59,422	\$ 10.99	\$ 14.96	\$ 19.09	Yes	3
STW	Drywall and Ceiling Tile Installers	472081											195	195	226	-31	0.86	6,607	\$ 11.59	\$ 15.73	\$ 18.29	Yes	3
STW	Home Appliance Repairers	499031	2	233			2	28					96	124	142	-18	0.87	4,860	\$ 10.81	\$ 14.90	\$ 19.02	No	3
STW	Tile and Marble Setters	472044		34				1					93	94	103	-9	0.91	6,741	\$ 9.75	\$ 14.64	\$ 17.74	No	3
STW	First-Line Supervisors of Retail Sales Workers**	411011		16	2,033	686	3	9	1,201	110	1		4,220	5,541	5,952	-411	0.93	117,882	\$ 13.37	\$ 18.57	\$ 24.08	Yes	3

Area	Occupation	SOC	WIA-E	DPSEC-E	FCS-E	CIE-E	WIA-C	DPSEC-C	FCS-C	CIE-C	ICUF-C	SUS-C	JS	Total Supply	Short Term Demand	Supply Gap or Overage	Ratio of Supply to Demand	CURR YR EMP	ENTRY WAGE	MEDIAN WAGE	EXP WAGE	ON TOL	FL EDUC LEV
STW	Carpet Installers	472041											105	105	111	-6	0.95	1,403	\$ 10.75	\$ 13.58	\$ 16.60	No	3
STW	Ophthalmic Medical Technicians	292057											59	59	61	-2	0.97	2,158	\$ 15.22	\$ 17.72	\$ 20.09	No	3
STW	Roofers	472181					5						254	254	259	-5	0.98	16,773	\$ 11.69	\$ 14.98	\$ 17.38	Yes	3
STW	Stonemasons	472022											18	18	18	0	1.00	505	\$ 9.32	\$ 13.53	\$ 16.81	No	3
STW	Medical Equipment Preparers	319093		105	258	40	3	68	18	15			87	188	187	1	1.01	5,362	\$ 10.31	\$ 13.05	\$ 14.71	No	3
STW	Mobile Heavy Equipment Mechanics, Except Engines	493042	11	75	36		4	12					105	117	114	3	1.03	5,714	\$ 14.97	\$ 20.13	\$ 23.53	Yes	3
STW	Sheet Metal Workers	472211	1				1						209	209	193	16	1.08	7,698	\$ 11.65	\$ 16.51	\$ 19.65	Yes	3
STW	First-Line Supervisors of Production and Operating	511011	12				40						1,338	1,338	1,205	133	1.11	24,172	\$ 17.86	\$ 25.19	\$ 31.53	Yes	3
STW	Tellers	433071			192		1		10				1,729	1,739	1,527	212	1.14	35,641	\$ 10.68	\$ 13.47	\$ 15.53	No	3
STW	Locksmiths and Safe Repairers	499094	4				2						45	45	38	7	1.18	2,982	\$ 11.04	\$ 16.50	\$ 20.60	No	3
STW	Etchers and Engravers	519194											6	6	5	1	1.20	289	\$ 9.25	\$ 12.91	\$ 15.08	No	3
STW	Plumbers, Pipefitters, and Steamfitters	472152	5	316	12	35	31	33	6	17			727	783	638	145	1.23	19,958	\$ 13.31	\$ 18.16	\$ 21.50	Yes	3
STW	Construction and Building Inspectors***	474011	2				8						344	344	278	66	1.24	6,597	\$ 18.43	\$ 26.05	\$ 30.33	Yes	3
STW	Maintenance and Repair Workers, General	499071	6				56						3,975	3,975	3,208	767	1.24	80,918	\$ 10.96	\$ 15.14	\$ 18.80	Yes	3
STW	Computer Occupations, All Other	151199	136	478	823	825	162	61	58	100	374	736	2,703	4,032	3,218	814	1.25	5,031	\$ 24.89	\$ 37.77	\$ 43.37	No	3
STW	Environmental Science and Protection Technicians, Including Health	194091			1,276	10	1		55				137	192	149	43	1.29	1,786	\$ 13.53	\$ 16.91	\$ 20.31	No	3
STW	Surveying and Mapping Technicians	173031	1		407				17				116	133	100	33	1.33	4,893	\$ 12.43	\$ 17.89	\$ 22.12	No	3
STW	Advertising Sales Agents	413011	1			11	1			11			1,269	1,280	943	337	1.36	14,200	\$ 11.89	\$ 19.50	\$ 28.97	Yes	3
STW	Cardiovascular Technologists and Technicians	292031	29	6	473	413	18		67	234			202	503	363	140	1.39	5,197	\$ 12.83	\$ 21.72	\$ 26.92	Yes	3
STW	Recreational Vehicle Service Technicians	493092	2			52	1			52			22	74	53	21	1.40	905	\$ 14.74	\$ 18.27	\$ 20.85	No	3
STW	Surgical Technologists	292055	54	596	881	1,188	63	124	179	335			310	948	678	270	1.40	6,260	\$ 15.47	\$ 18.76	\$ 21.21	Yes	3
STW	Social and Human Service Assistants	211093	22		3,369	664	15		252	374			1,326	1,952	1,383	569	1.41	12,736	\$ 10.92	\$ 13.72	\$ 16.58	Yes	3
STW	Claims Adjusters, Examiners, and Investigators	131031	3		132		5		104				799	903	637	266	1.42	21,443	\$ 19.09	\$ 26.98	\$ 32.50	Yes	3
STW	Telecommunications Equipment Installers and Repair	492022		302	242		4	17	198				499	714	490	224	1.46	19,026	\$ 15.31	\$ 22.91	\$ 28.08	Yes	3
STW	Plasterers and Stucco Masons	472161											82	82	55	27	1.49	1,741	\$ 12.86	\$ 16.43	\$ 18.17	No	3

Data Caveats

Data Caveats are:

- All Supply Data is POTENTIAL SUPPLY.
- Completers/graduates are counted in each occupation that is related to their program of study.
- Enrollees may or may not complete training.
- Completers may already have a job or may have moved out of the geographic area.
- Jobseekers may or may not be qualified for the job they are seeking.
- Only 1/2 of all job seekers have their desired occupation identified in the system.
- Job openings only include internet job ad postings (not all jobs are posted on the internet or posted in an even fashion).
- The job ads have been deduplicated but some duplicates could possibly still exist.
- District and Florida College System enrollees and completers are based on supply in the workforce region and are not statewide based.
- University graduates are statewide only and cannot be parsed to workforce regions. However, the Statewide report does include University graduates in supply.
- The Targeted Occupations List (TOL) is based on long term projections forecast eight years out from the base year and assumes economic recovery.
In economic downturns, some of these occupations may be in current decline.
- Some occupations are typically hired at specific times of the year, such as teachers, agricultural related occupations and others.
- Locally, information may be known that would override the use of particular occupational supply demand data, such as incoming or expanding firm(s).
- Asterisk(s) on Occupation Titles indicate these minimum requirements: * Less than 1 year of experience; ** 1 to 5 years of experience; *** More than 5 years of experience.
- Medical specialty occupations requiring board certifications and /or internships beyond the university level are not included; as supply is currently not available.

Explanatory Notes:

- Occupational data contained in this report are across all industries and is not specific to any industry.

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