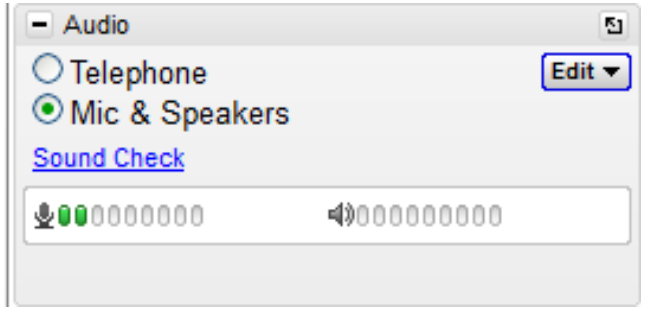
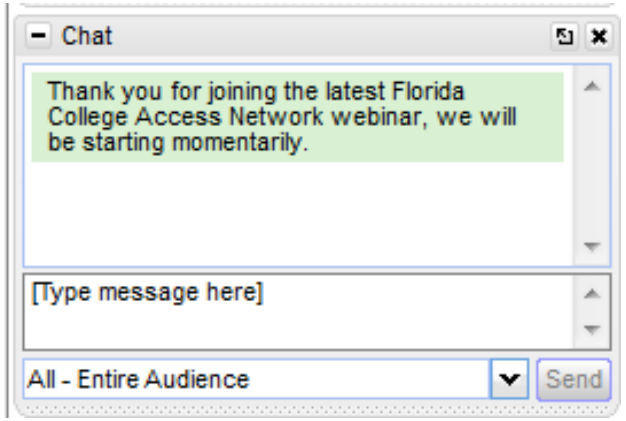
Thank you for joining us for today's webinar!

Check Audio: Click "Mic & Speakers" to use computer audio or Telephone to call conference line



To Ask Questions: Use the "Chat" or "Questions" feature in the control panel



FLORIDA C.A.N.! College Access Network

research • communication • advocacy • support

Note:

This webinar is being recorded, all webinar registrants will receive a link to view the webinar and slides used

How Partnerships Can Boost Degrees in High-Demand Fields

FLORIDA COLLEGE ACCESS NETWORK

Florida College Access Network: Who We Are

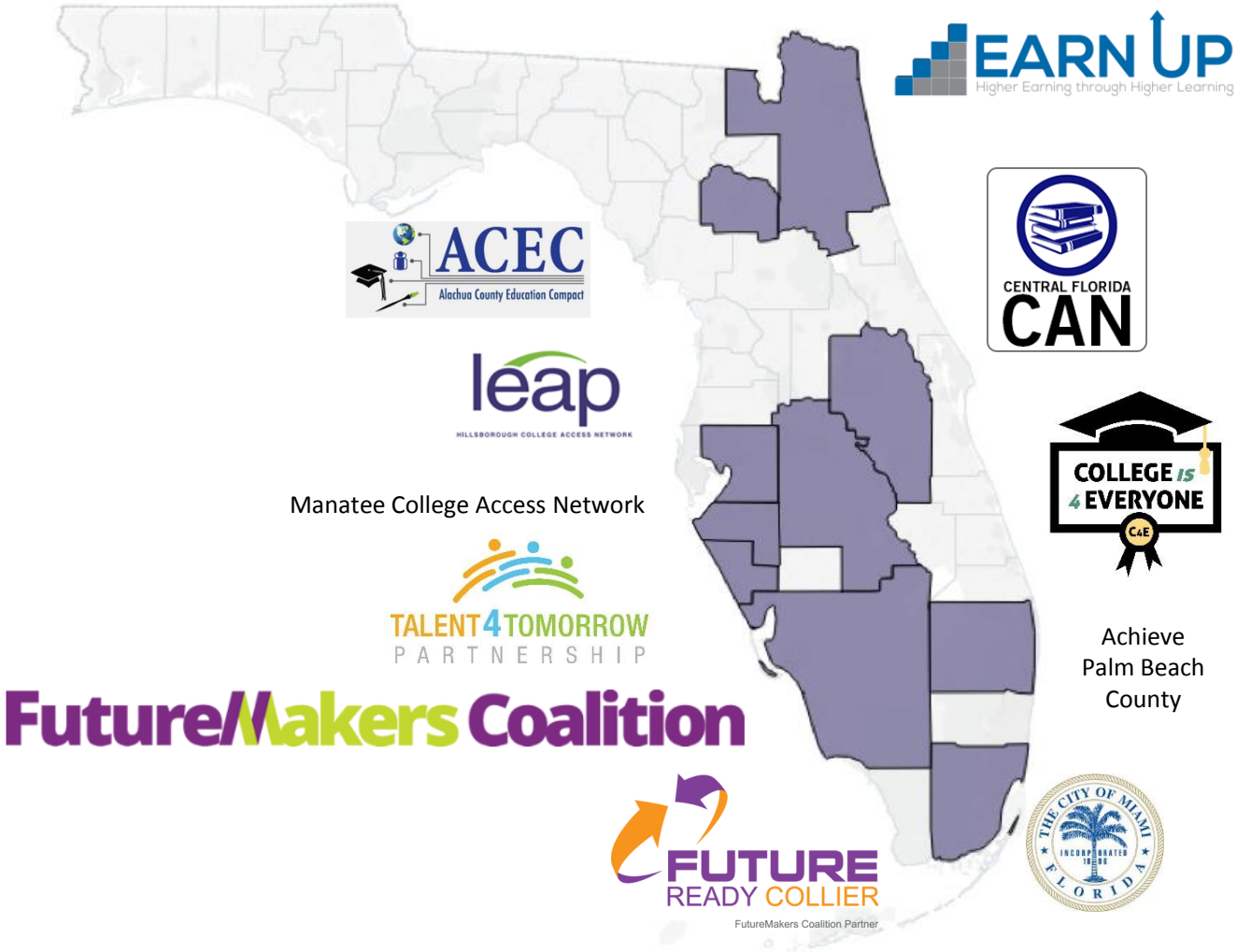
FLORIDA C.A.N.! College Access Network
research • communication • advocacy • support

Our Mission: To create and strengthen a statewide network that catalyzes and supports communities to improve college and career readiness, access, and completion for all students.

Our Vision: At least 60% of working-age Floridians will hold a high-quality post-secondary degree or credential by the year 2025.

GOAL 2025

Local College Access Networks in Florida



Florida's projected degree attainment rate

719,000 credentials*

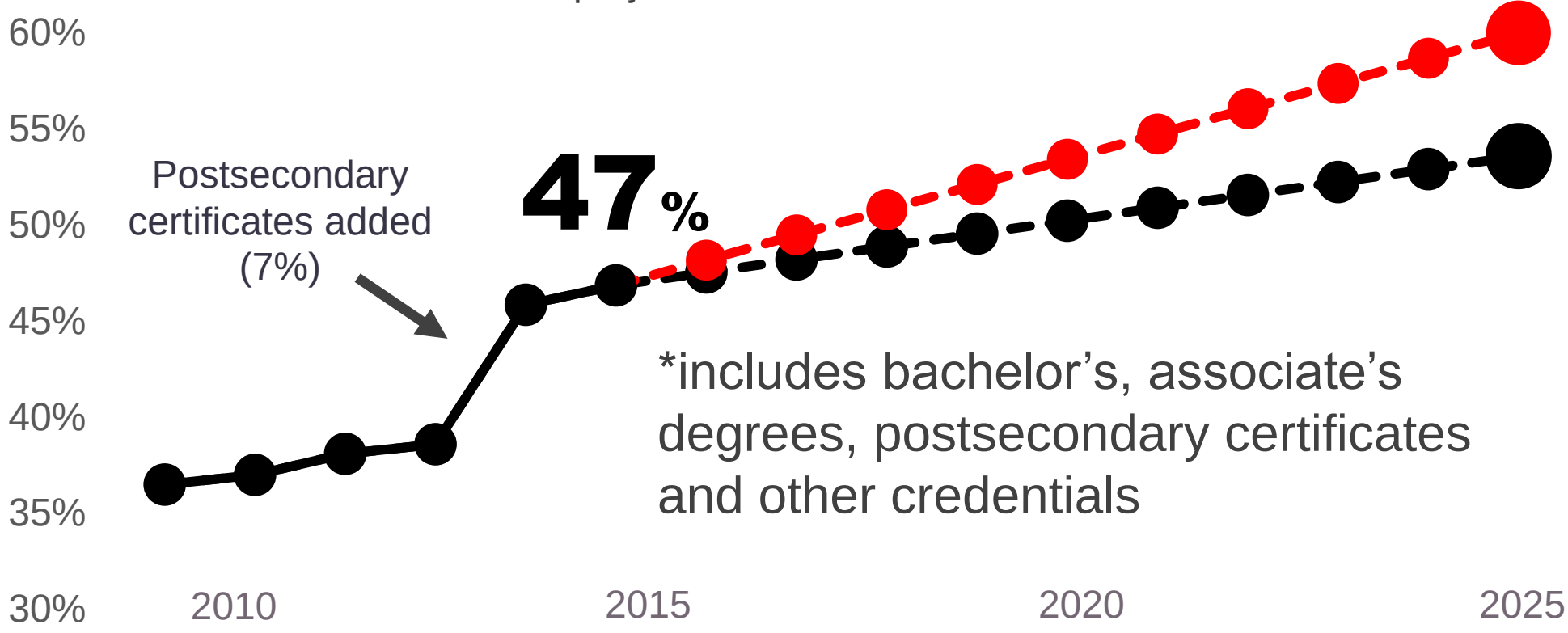
needed to meet projected workforce demands

Future workforce needs by 2025

60%

53%

Status quo performance by 2025



*includes bachelor's, associate's degrees, postsecondary certificates and other credentials

Source(s): U.S. Census Bureau, Georgetown Center on Education and the Workforce, Lumina Foundation Stronger Nation Report, Florida CAN calculations

Florida CAN's Research & Policy Work

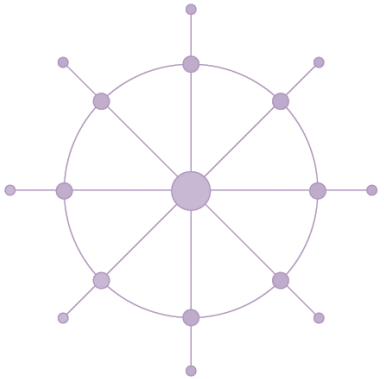
research • communication • advocacy • support

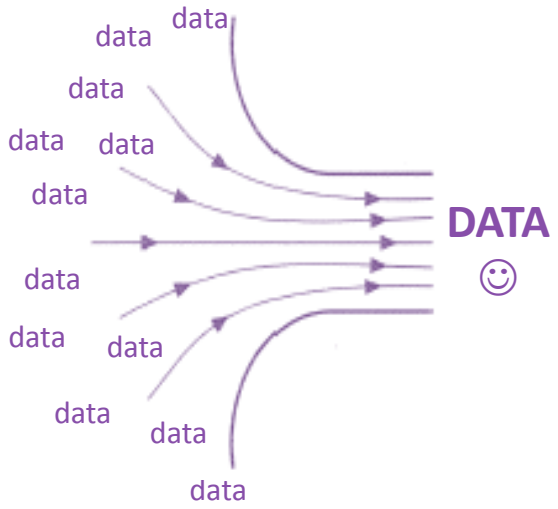
Produce student-centered research & policy analysis

Driven by statewide mission to increase level of degree attainment in Florida to 60% by 2025

Develop local, state and national partnerships and policy alignment around degree attainment

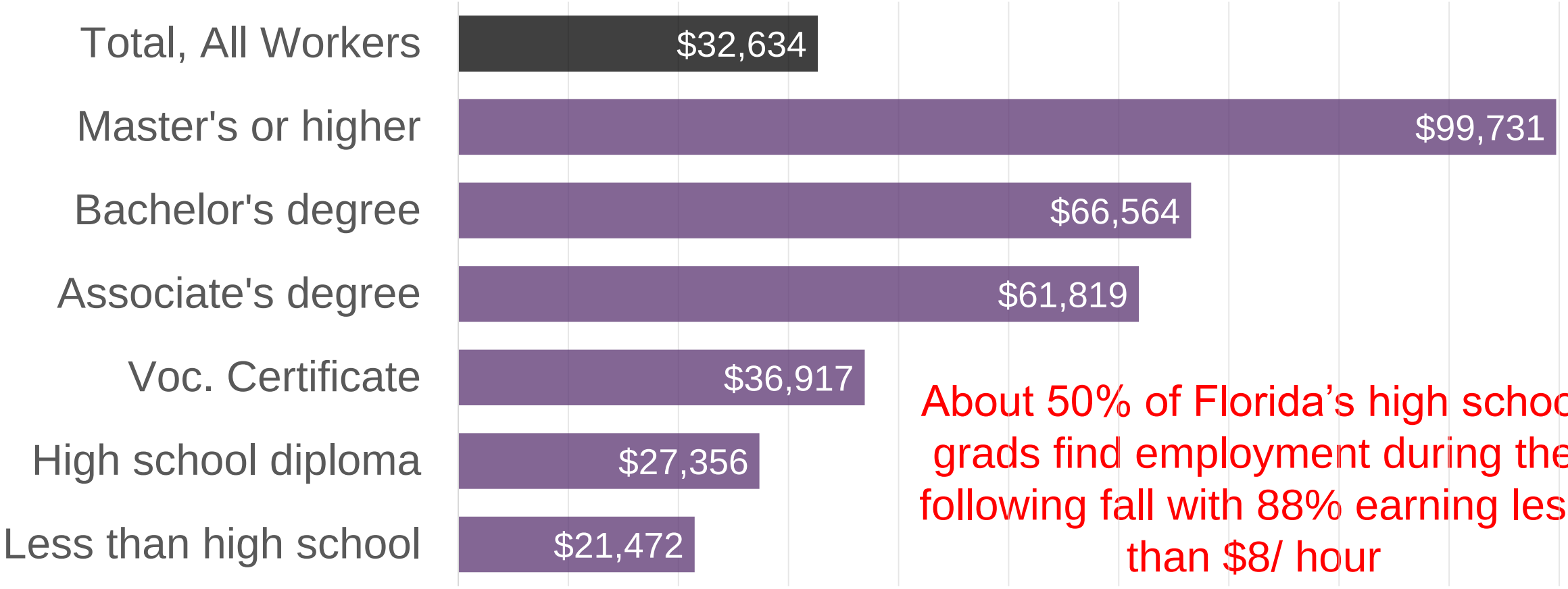
Support development of community-based alliances focused on improved degree attainment





Clearinghouse for college and career readiness, access and completion data

Median annual wages in Florida by education/training level



About 50% of Florida's high school grads find employment during the following fall with 88% earning less than $8/ hour

Source(s): Florida Department of Economic Opportunity, Bureau of Labor Statistics (2016); Florida Education & Training Placement Information Program (2014)

Florida Higher Education Coordinating Council Adopts Postsecondary Goal

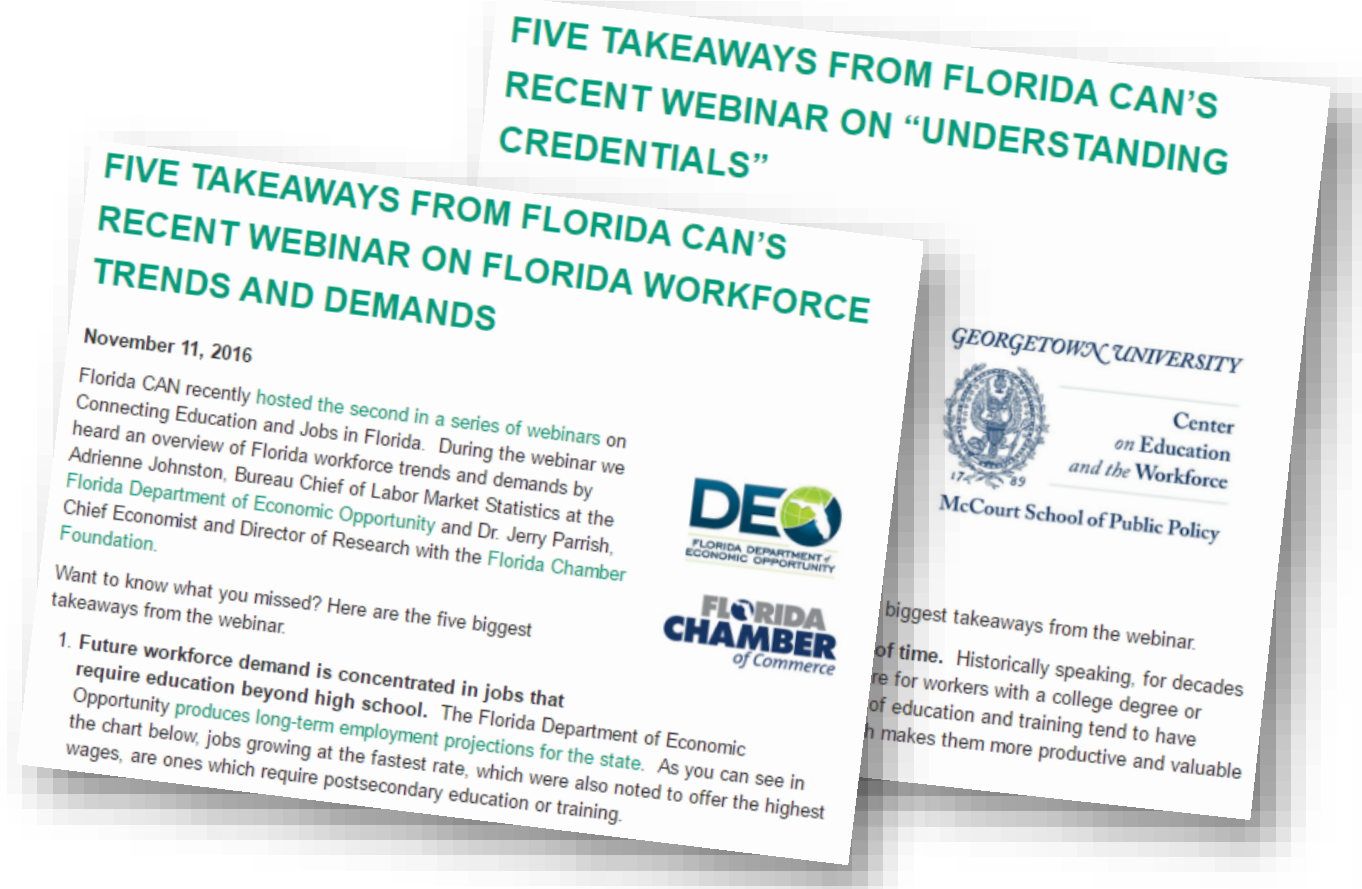
"A well-educated population leads to a stronger workforce, leads to a stronger economy. This isn't the flavor of the year in 2016. This is actually a commitment to double-down on making sure at the end of the day that we've aligned what we're doing at postsecondary education with our partners to match what our employers and what our economy are going to expect us to do."

State University System Chancellor, Marshall Criser
at November 28, 2016 Higher Education Coordinating Council meeting

For more, read: http://www.floridacollegeaccess.org/2016/11/29/florida-higher-education-coordinating-council-adopts-postsecondary-attainment-goal/

Miss the two previous webinars?

research • communication • advocacy • support



FIVE TAKEAWAYS FROM FLORIDA CAN'S RECENT WEBINAR ON "UNDERSTANDING CREDENTIALS"

GEORGETOWN UNIVERSITY
Center on Education and the Workforce
McCourt School of Public Policy

biggest takeaways from the webinar.

of time. Historically speaking, for decades
re for workers with a college degree or
of education and training tend to have
h makes them more productive and valuable

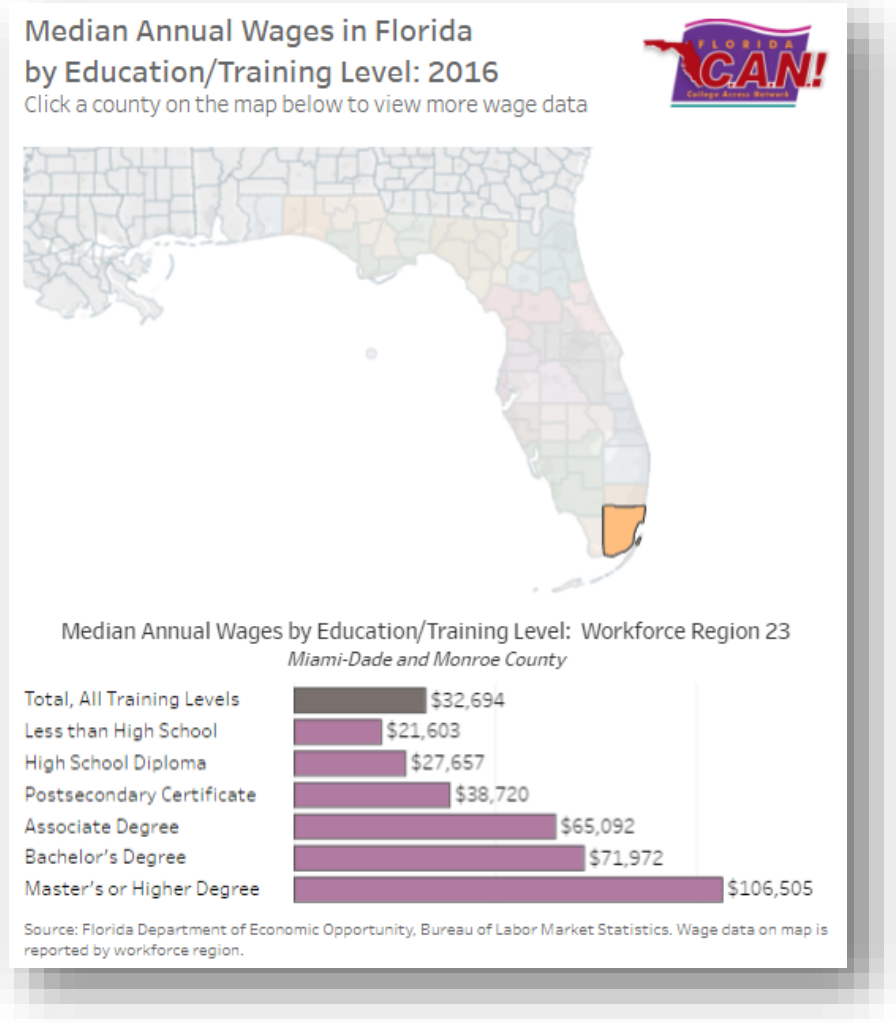
FIVE TAKEAWAYS FROM FLORIDA CAN'S RECENT WEBINAR ON FLORIDA WORKFORCE TRENDS AND DEMANDS

November 11, 2016

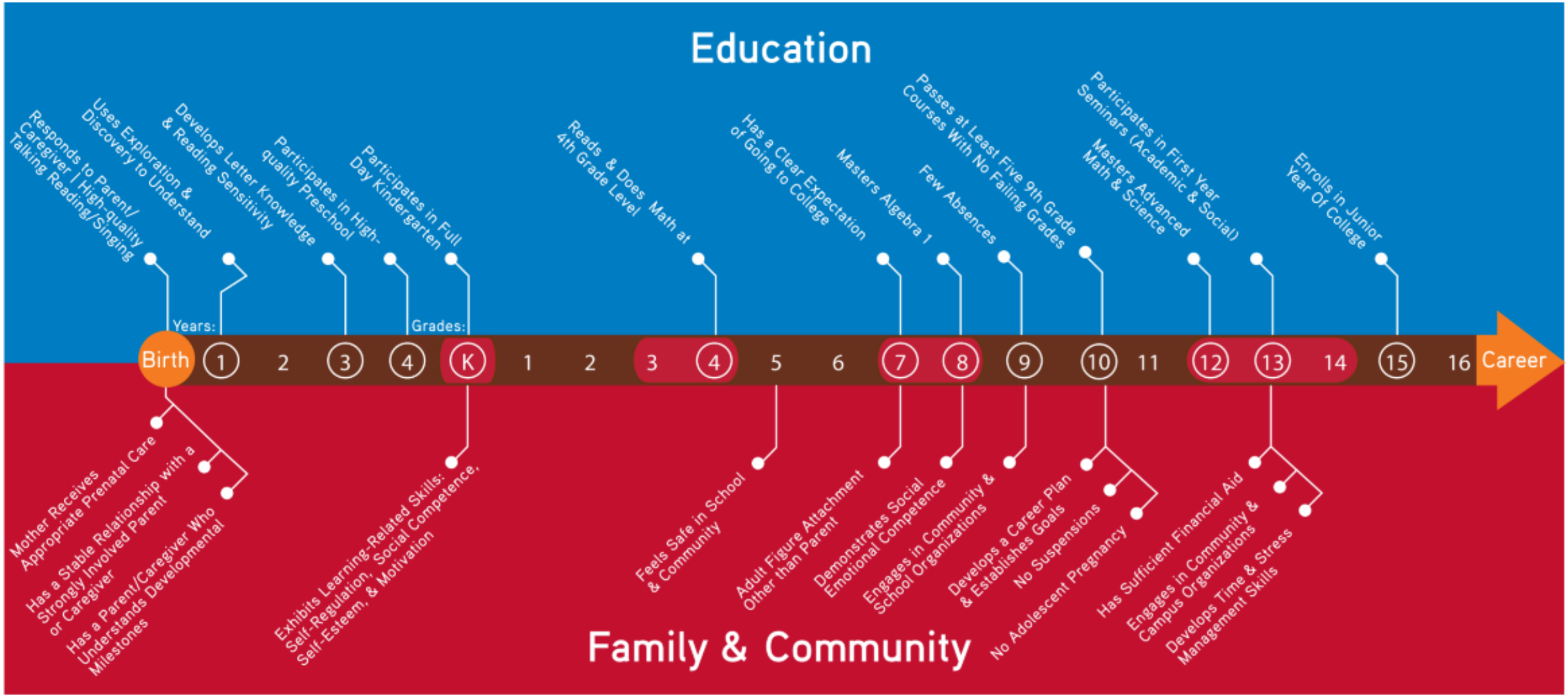
Florida CAN recently hosted the second in a series of webinars on Connecting Education and Jobs in Florida. During the webinar we heard an overview of Florida workforce trends and demands by Adrienne Johnston, Bureau Chief of Labor Market Statistics at the Florida Department of Economic Opportunity and Dr. Jerry Parrish, Chief Economist and Director of Research with the Florida Chamber Foundation.

Want to know what you missed? Here are the five biggest takeaways from the webinar.

1. **Future workforce demand is concentrated in jobs that require education beyond high school.** The Florida Department of Economic Opportunity produces long-term employment projections for the state. As you can see in the chart below, jobs growing at the fastest rate, which were also noted to offer the highest wages, are ones which require postsecondary education or training.



Visit http://www.floridacollegeaccess.org/research-and-data/
and click **Connecting Education & Jobs Webinar Series**



Key Transition Areas

Benchmarks

Competencies and experinces that shape educational development

Competencies and experinces that shape social and/or emotional development

Researched by the University of Cincinnati, Center for Urban Education © Strive 2006

Adapted by permission April 2012

Today's presenter

Dr. Jan Ignash

Vice Chancellor for Academic and Student Affairs
State University System of Florida Board of Governors

State University System of Florida Board of Governors

http://http://www.flbog.edu/
https://twitter.com/FLBOG

BOARD of GOVERNORS
State University System of Florida

TEAm Grants Update
Connecting Education & Jobs in Florida

Dr. Jan Ignash, Vice Chancellor for Academic and Student Affairs
December 6, 2016
www.flbog.edu

Key Gap Analysis Questions

Shorter-term

- What industries and occupations are projected to be in greatest demand in Florida through 2020—both statewide and by region?
- What is the gap between projected demand and potential supply for areas of under-supply, such as I.T.—both statewide and by region?
- If we accept BOG degree projections to 2020, what is the potential demand for graduates in top occupations?

Longer-term

- Does the Commission envision a more ambitious future for Florida – with demand for higher levels of education for future workers?

Decisions Points for Methodology

- Focus on bachelor's degree level gaps
- Focus on under-supply
- Apply a "reasonable-ness" test (some fields may be changing educational requirements, etc.)
- Consider whether some areas require additional analyses (e.g. engineering, middle school teachers)
- Consider "living wage"/salary in potential areas for growth

SOC/CIP Crosswalk
(National Crosswalk Clearinghouse)

SOC 113021 – Computer & Information Systems Managers

CIP 11.0101 Computer &Information Studies

- CIP 11.0401 Information Sciences/ Studies
- CIP 11.0701 Computer Science
- CIP 11.1001 Systems Administration
- CIP 52.0205 Operations Management & Supervision
- CIP 52.1201 Management Information Systems
- CIP 52.1206 Information Resources Management
- CIP 52.1207 Knowledge Management

SOC 113021 maps to 8 CIP codes. Each of the 8 CIP codes map back to more SOC codes. Each of the those SOC codes will map back to various CIP codes.

<u>SOC/CIP Crosswalk is useful, but:</u>

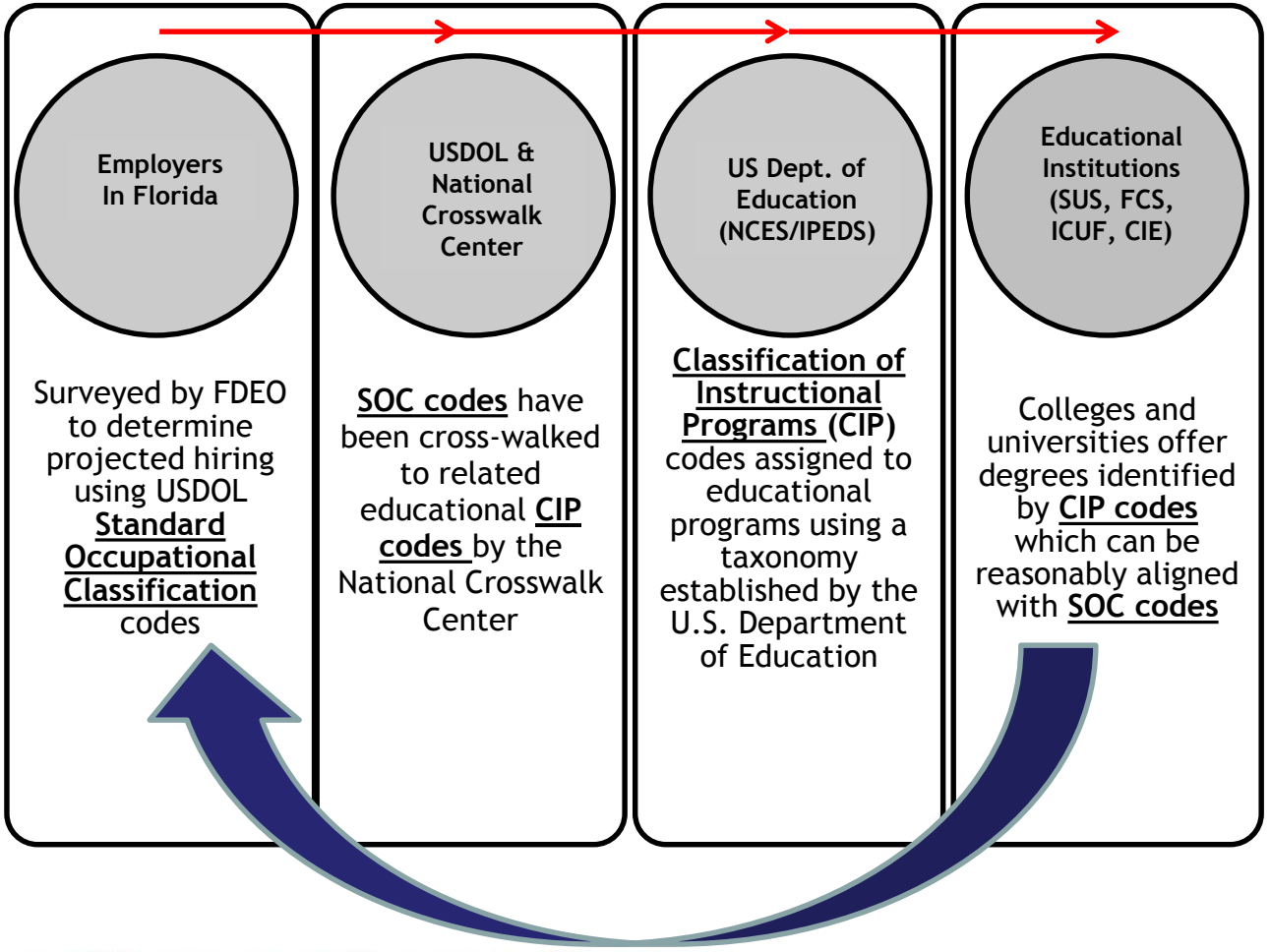
- Limited as a Gap Analysis Tool
- Few 1 to 1 matches both ways
- Not a precise targeting process

- SOC 151051 Computer Systems Analysts
- SOC 151061 Data Base Administrators
- SOC 151071 Network & Computer Systems Admin.
- SOC 150801 Network Systems & Comm. Analysts
- SOC 151099Computer Specialists, all Other
- SOC 251021 Computer Science Teachers, PS
- SOC 151011 Computer Information Scientist

SOC = Standard Occupational Classification code
CIP = Classification of Instructional Program code

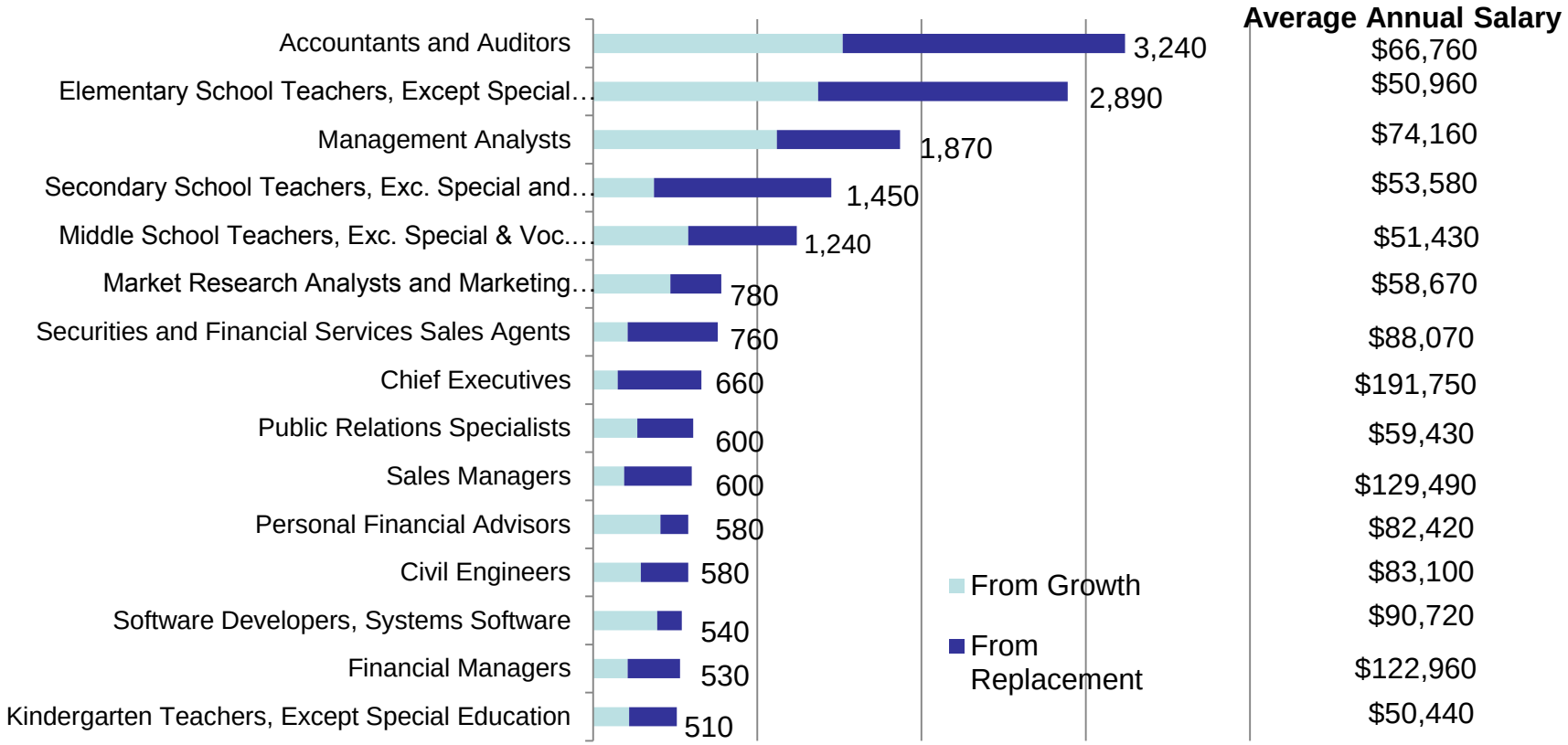
Elements of a Demand-Supply Gap Analysis

DEMAND



SUPPLY

Considering Salary in Targeting Areas for Growth



Source: Dept. of Economic Opportunity, Labor Market Statistics Ctr., Employment Projections Program, Forecast to 2020, released Sept.2012. NOTE: Data rounded by FL Board of Governors.

Methodological Considerations

1) Preparation: Increasing some of the most challenging, high-demand degrees is not possible because too few qualified students are prepared for those programs

2) Coordination: There are 40 public, 31 ICUF (independent non-profit), and 114 CIE (independent, for-profit) institutions that supply graduates to meet Florida employer demands.

3) Digital Learning Degrees: In-state and out-state online degree programs must also be incorporated into any Demand/Supply "Gap" analysis, particularly when addressing regional demand.

4) Timing: Providing new additional bachelors, masters & advanced degrees to meet a specific demand will take a minimum of two to four years to ramp up degree production.

5) Costs: Many of the bachelors, masters and advanced degrees that are most in demand because of scarce faculty, high program costs and low tuition levels.

6) Import/Export of Graduates: Florida is a "net importer" of graduates from other states. But we also currently export many degree-holders to graduate schools in other states who do not return. We also export graduates to jobs in other states & countries.

7) Immigration: Degree-holders from outside Florida and America will continue to be recruited and will move to Florida as employment in specific occupations grow

8) History: Projections of huge demand for teachers early last decade evaporated before the end of the decade.

Key Findings: Gap Analysis

Top three critical workforce needs and projected unfilled annual openings, as identified by the gap analysis/TEAm Grants:

- Computer and Information Technology (~ 2,361)
- Accounting, Financial Services and Auditing (~ 1,024)
- Middle School Teacher Retention (~ 941)
- Training and Development Specialists (~ 348)
- Operations Research Analysts (~ 217)
- Kindergarten Teachers (~ 210)
- Industrial Engineers (~ 177)
- Medical and Clinical Lab Specialists (~ 169)

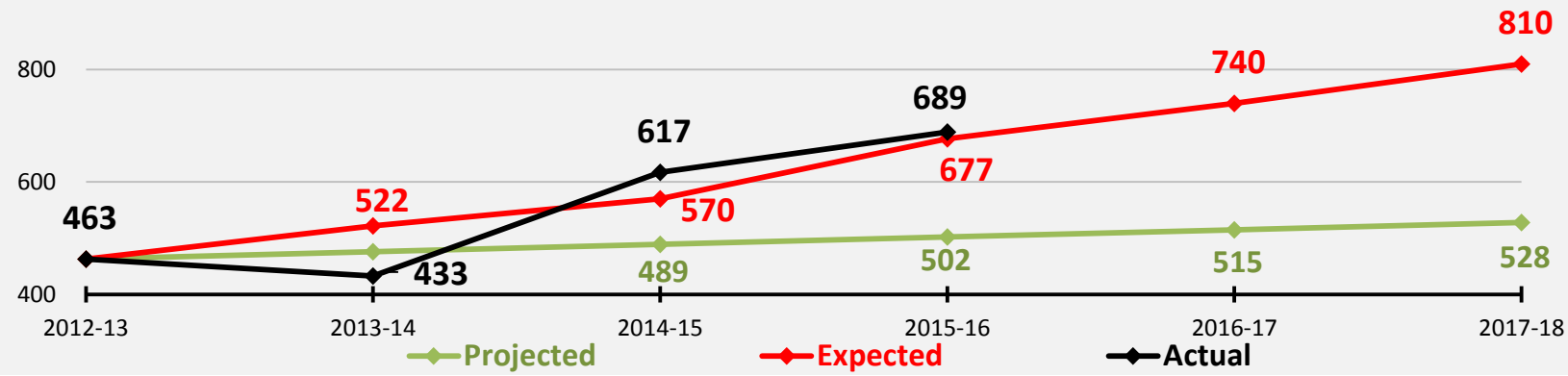
TEAm Grantees: $15M Awarded by the Florida Legislature

- **CSIT: An Urban University Coalition Response to Florida's Computer and Information Technology Workforce Needs**
  (UCF, FIU, and USF) *($4,858,413)*
- **The FITC Alliance: Expanding North Florida's IT Career Pathways**
  (FSU and FAMU) *($2,981,386)*
- **The CAPTURE Project: Computer Accelerated Pipeline to Unlock Regional Excellence**
  (FAU, Palm Beach State College, and Broward College) *($3,517,044)*
- **ACCT: An Innovative, Collaborative Approach to Increasing the Supply of Quality Accounting Graduates in Florida**
  (USF, FIU, and UCF) *($3,643,157)*

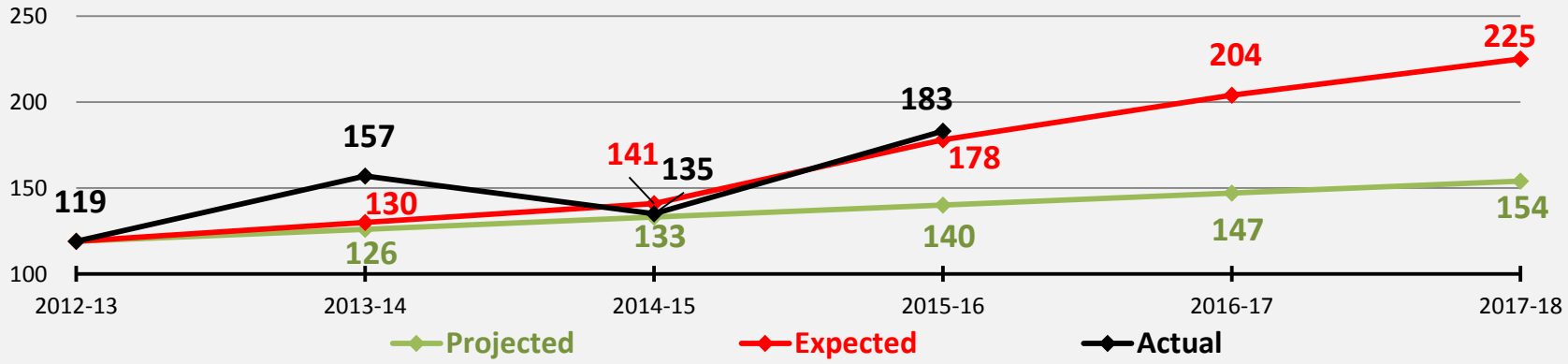
TEAm Grant: CAPTURE Project Outcomes

FAU, Palm Beach State College, and Broward College

Upper Division Enrollments

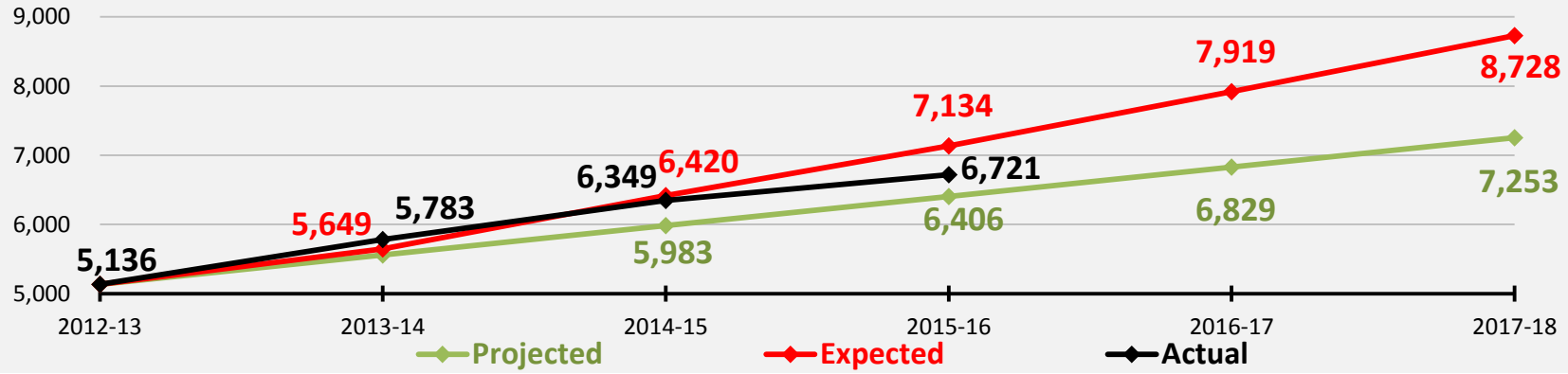


Completions



TEAm Grant: CSIT Project Outcomes
UCF, FIU & USF

Upper Division Enrollments



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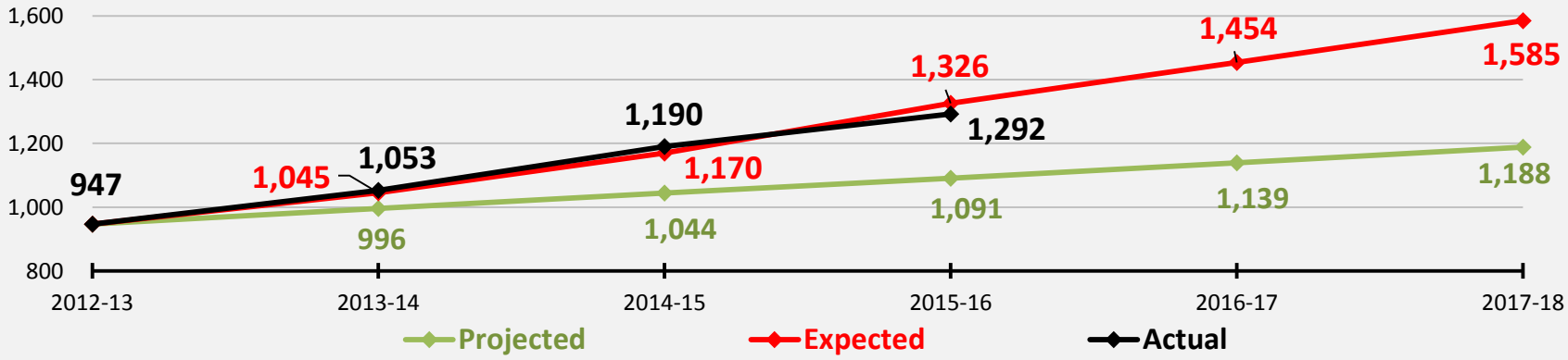
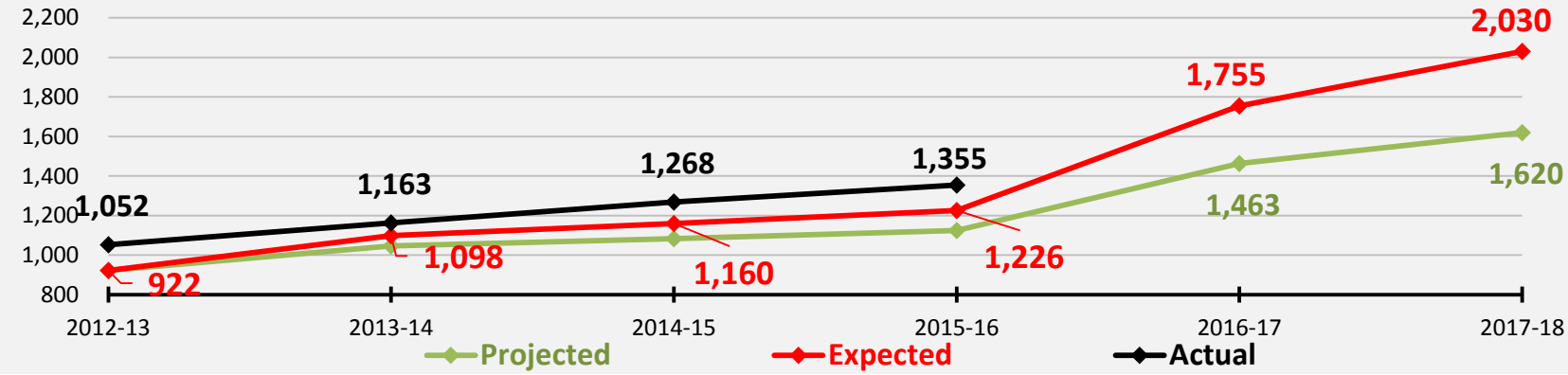


TEAm Grant: FITC Alliance Project Outcomes
FSU & FAMU

Upper Division Enrollments



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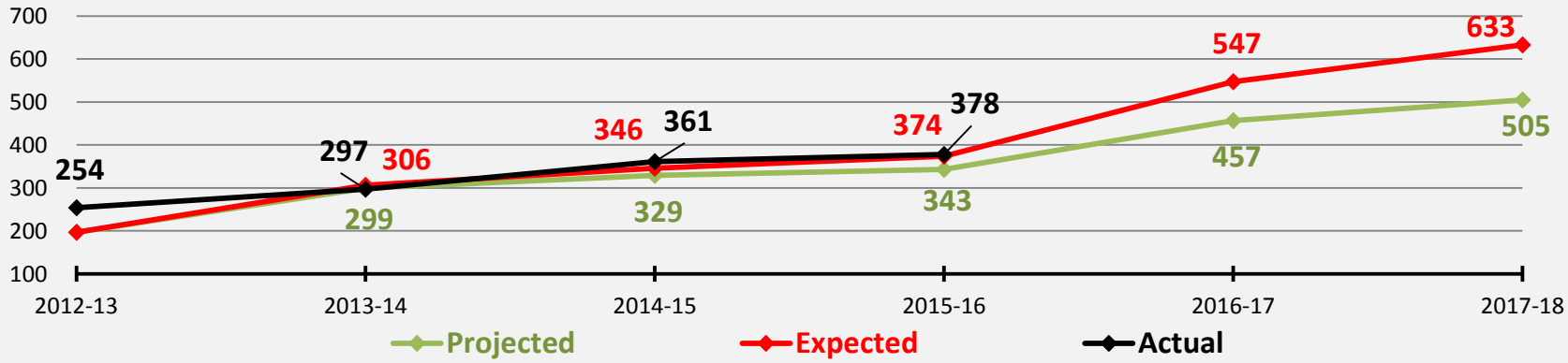
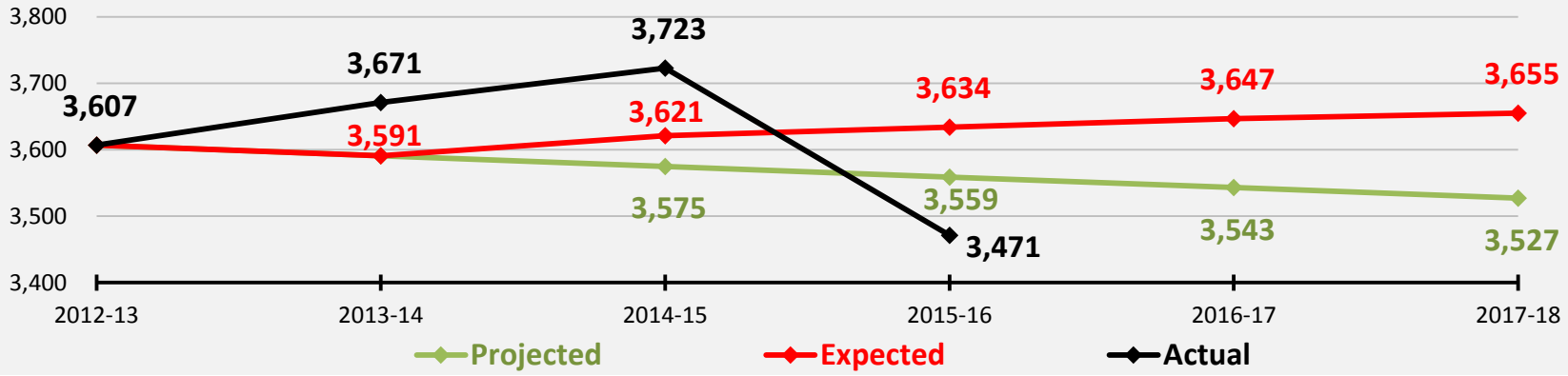


TEAm Grant: ACCT Project Outcomes
USF, UCF & FIU

Upper Division Enrollments



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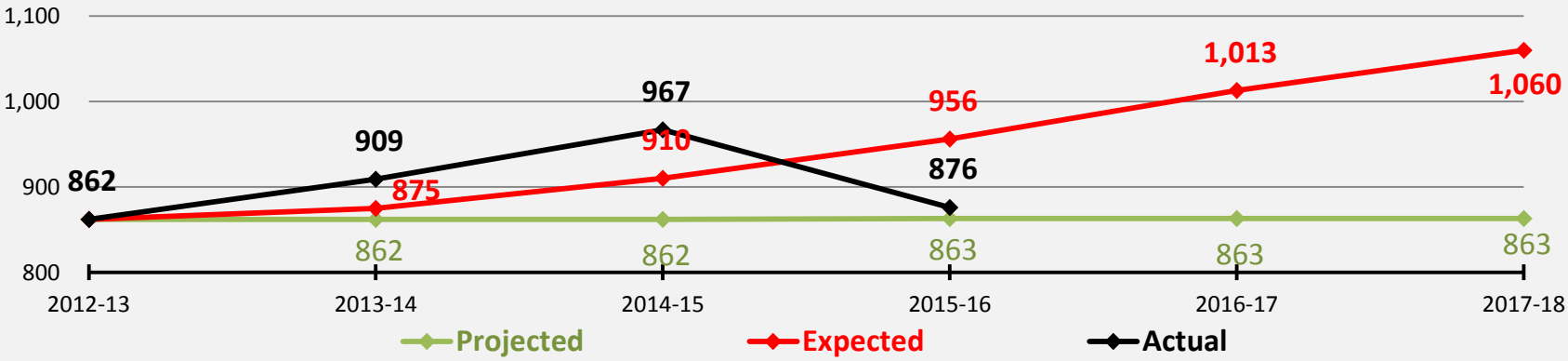

TEAm Grant Completer Outcomes: Employment Status

Completer Employment Status (survey responders only)		
Status	**#**	**%**
Working (only)	698	62%
Working and Enrolled	291	26%
Enrolled (only)	73	6%
Not Working or Enrolled	71	6%
Total	**1,133**	**100%**

TEAm Grant Completer Outcomes: Salaries

Salaries (survey responders only)		
Salaries	**#**	**%**
$48,001 or more	502	53%
$32,001 to $48,000	263	28%
$16,001 to $32,000	103	11%
$16,000 or less	72	8%
Total	**940**	**100%**

TEAm Grant Student Testimonials

“I am very thankful for the CAPTURE program and for continuing to make my college experience a success.”

“This program helped me refine my organization and communication skills and gave me insight into how a software development team functions as a whole.”

“The program has allowed me to be exposed to the career world so that I know what to expect when I graduate.”

TEAm Grant Business & Industry Testimonials

"She's brilliant. After her internship, the company offered Laurie a job as a mobile software designer." -- *Daniel Crane, CEO and Co-Founder, Modernizing Medicine*

"All my FAU hires have exceeded my expectations." – *Aaron Korff, President & CEO, Vazkor Technologies, Inc.*

"An excellent experience." -- *Mark Newton, Director of Internal Audit, PODS Enterprises, LLC*

Lessons Learned

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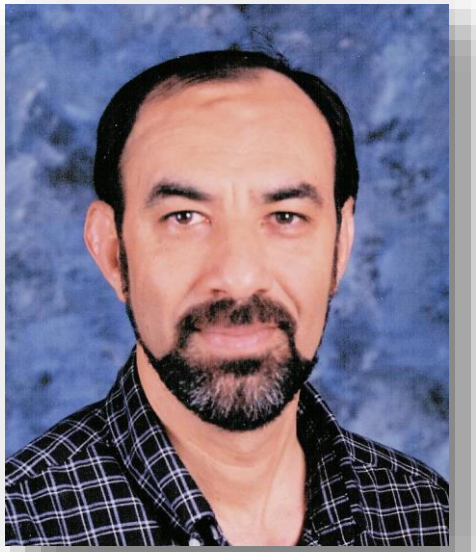
Rev. 2014

Today's presenter



Dr. Mostafa Bassiouni

Professor, Department of Computer Science
College of Engineering and Computer Science

UNIVERSITY OF CENTRAL FLORIDA

University of Central Florida

https://www.ucf.edu/
http://www.csit-team.org/
https://twitter.com/UCF

CSIT TEAm Grant Overview

Webinar Presentation

at

Florida College Access Network

Date: *December 6, 2016*

Presenter: Michael Georgiopoulos, Dean, CECS

College of Engineering & Computer Science

BOG Grant- CSIT TEAm Project

- In April 2014, the Florida's Board of Governors ***awarded $15 million in grants to SUS institutions*** to produce more students for careers in the state's highest-need areas, as identified by a comprehensive BOG GAP Analysis.
- The project titled CSIT (UCF-USF-FIU) TEAm, is an urban university coalition response to Florida's Computer and Information Technology workforce needs.
- The ***CSIT TEAm project*** (one of four funded projects) received a monetary award of ***$4.9 million***.
  - CSIT TEAm Lead Institution: UCF.
  - CSIT TEAm Partnering Institutions: USF and FIU.

CSIT TEAm Grant Promises

Inst.	Promises
All	Increase unduplicated enrollments by 70% (from 2012-13 to 2017-18)
All	Increase the degrees by 67.4% (from 2012-13 to 2017-18)

The Partners

- UCF, FIU, USF (CS, IT, CpE, IS, MIS disciplines)
- The three universities *confer over 25,000 degrees annually*
- The three universities *produce more than a 1,000 degrees* in these disciplines
- The three universities *account for over than 60% of the jobs in these majors* and *over 70% of the jobs in IT*

CSIT TEAm Grant Plan

Collaborative Activities
(a) Sharing of On-Line Technical Electives
(b) Co-ordination of Student Training for Certifications
(c) Co-ordination of Efforts for Internship and Co-op Student Opportunities
(d) Co-ordination of Career Services Efforts to facilitate Student Employment
(e) Enhanced Tutoring for Gateway Courses and On-Line Shared Courses
(f) Recruiting Students at the Freshman (FTICs) and Junior Level (Transfers)
(g) Enhancing Professional Student Advising

Highlights of CSIT TEAm Consortium (UCF, USF, FIU) Evaluation in AY 2014–2015

Evaluation	Activity	Comments
Terrific Best Practice	Sharing On-Line Technical Electives across institutions	("virtual super-university"). Making this happen across institutions is phenomenal.
Terrific Best Practice	Coordinating Internship and Co-op Student Opportunities (Common TEAm Internship Portal & TEAm Virtual Career Fair)	By making use of summer offerings and streamlining course coordination and transfer credits, we will afford students the opportunity to take summer courses more easily while they are working as summer interns, even if they are in a partner city.
Terrific Best Practice	Recruiting Students at the Freshman and Junior Level	Incredibly wide scope. A wide variety of recruitment activities at the three institutions was reported.

Florida Performance Metrics

Metric	CSIT Impact
1. Percent of BS Graduates Employed Full Time	YES
2. Median Wages of BS Degrees	YES
6. BS degrees in areas of strategic interest	YES
9. Total Number of Degrees	YES

- **CSIT is impacting 4 of the 10 Florida performance metrics**

Impact of CSIT TEAm on Employment and/or Continuing Education 6 Months after Graduation

The Consortium's Completer Outcomes (employability + going to graduate school) of Summer 2013 – Spring 2015 graduates

- The full-time employability of CSIT TEAm graduates is 82.40%.
- The percentage of CSIT TEAm graduates that pursue graduate school is 8.00%.
- The combined percentage of CSIT TEAm graduates who work full-time or are enrolled full-time is 87.00%.
- The percentage of CSIT TEAm graduates working full-time or part-time in the State of Florida is 75.00%.
- The percentage of CSIT TEAm graduates earning more than $48,000 is 70.00%.

CSIT TEAm Positive Impact

- The number of bachelor's degrees earned during the 2015-16 academic year for all participating majors in all three institutions (1292) is larger by 18.4% than the projected number (1091) provided in our grant application and is slightly smaller by 2.56% when compared to the expected number of 1326 earned degrees provided in our grant application.

Degrees Awarded	Year 2012-13	Year 1 2013-14	Year 2 2014-15	Year 3 2015-16	Year 4 2016-17	Year 5 2017-18
Actual Number	947	1055	1195	1292		
Projected Number	947	996	1044	1091	1139	1188
Promised Number	947	1045	1170	1326	1454	1585

Collaborative Activity: ***Coordinating Internships Opportunities- TEAm Internships Portal***

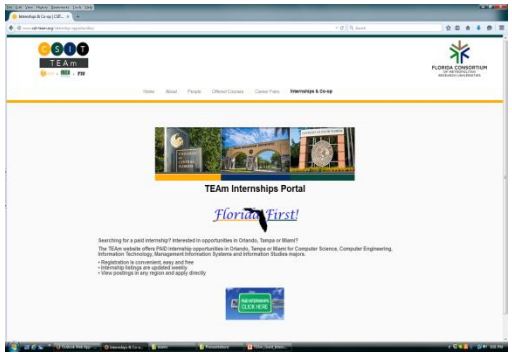
- We have developed a TEAm Internships Portal housed on the TEAm website:

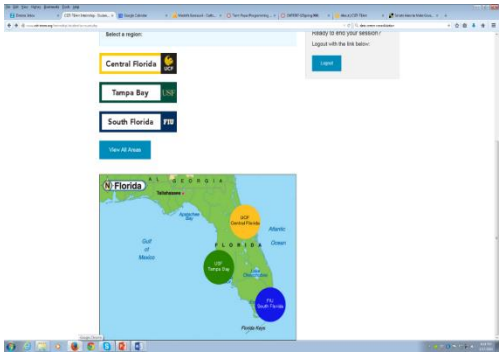
  http://www.csit-team.org/internship-opportunities/

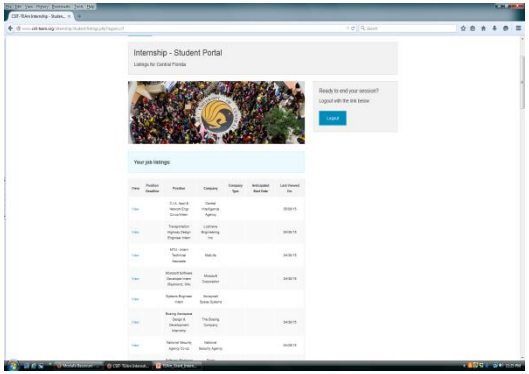
- The portal allows the students from all three institutions to view paid internships opportunities in Orlando, Tampa or Miami for the TEAm STEM majors.
- The portal offers the following features:
  - Registration is convenient,
  - Easy and free Internship listings are updated weekly,
  - Students can view postings in any region and apply directly.
- The TEAm Internships Portal went live on May 1, 2015.

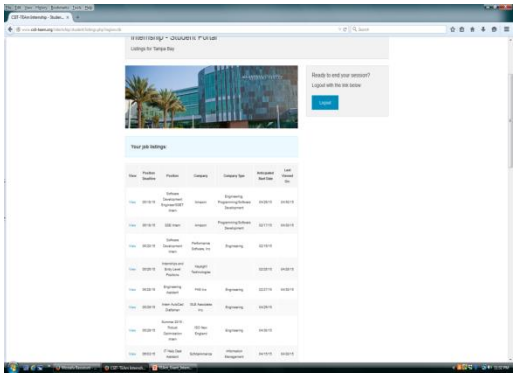
Collaborative Activity: ***TEAm Internships Portal***

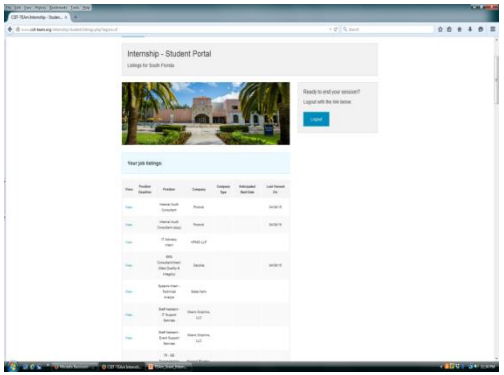
The portal is housed on the TEAm website. Students from UCF, USF and FIU can login to access the portal and view the posted internships related to the CSIT TEAm majors.

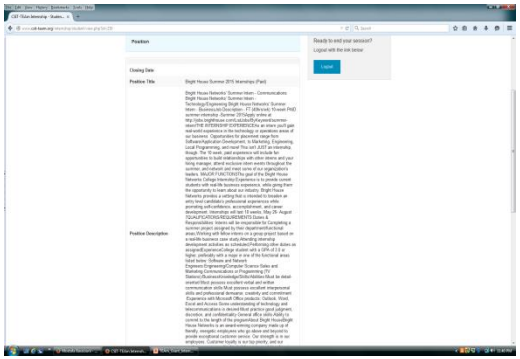












Collaborative Activity: TEAm Internships Portal

- **Statistics for first 10 days of operation 5/1/2015 - 5/11/2015**

290 companies posted positions (64 UCF, 75 USF, 151 FIU)

Students Registered (per University)

UCF	USF	FIU	Total
127	101	94	**322**

Students Logged In (per University)

UCF	USF	FIU	Total
120	91	77	**288**

Positions Viewed (per University)

UCF	USF	FIU	Total
802	598	742	**2142**

Collaborative Activity: TEAm Internships Portal

- **Statistics for 3 Months of operation 3/1/2016 - 5/31/2016**

240 companies posted positions (79 UCF, 35 USF, 126 FIU)

New Students Registered (per University)

UCF	USF	FIU	Total
179	41	73	**293**

Active Students Logged In (per University)

UCF	USF	FIU	Total
183	45	72	**300**

Positions Viewed (per University)

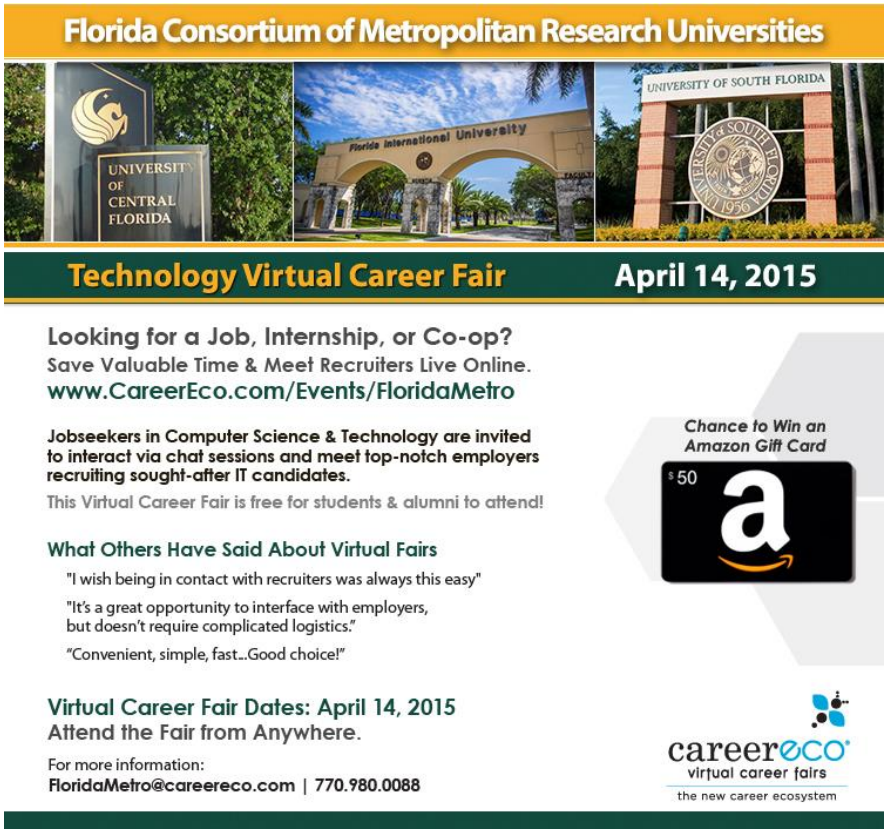
UCF	USF	FIU	Total
2017	381	700	**3098**

Collaborative Activity: 1st Virtual Career Fair (VCF)

The three institutions held the first Virtual Career Fair (VCF) on April 14, 2015. The VCF was organized by CareerEco, Inc.

The VCF was a very successful event; ***the first Virtual Career Fair in the history of career services at UCF, USF, and FIU.***

Employers provided positive feedback, e.g., Nuance Communications said they interviewed stellar candidates.



Collaborative Activity: 1st Virtual Career Fair (VCF)

April 14, 2015

Employers Participation:

- **22 employers registered for the event**

- 780th Cyber Brigade - U.S. Department of Defense
- Austin CSI
- ByDesign Technologies
- CGI
- Cole Engineering Services, Inc.
- Deloitte Consulting
- Drake Enterprises, LTD
- Epic
- EY (Delivery Center – Alpharetta, GA)
- Florida Virtual School
- Harris Corporation
- IBM
- iTekz
- Northrop Grumman Corporation
- Nuance Communications
- Pinellas County Utilities
- Randstad Technologies
- Raytheon Company
- Skyline Communications Inc.
- Tech Data Corporation
- The DiSTI Corporation
- The Johns Hopkins University Applied Physics Laboratory

Collaborative Activity: 1st Virtual Career Fair (VCF)

Student Participation

- **195 Students attended chat (audio & video) sessions with employers:**

Student Participation

UCF	55
USF	94
FIU	46
Total	**195**

Chat Participant: Major	
Computer & Information Science	13
Computer Engineering	26
Computer Science	46
Electrical and Computer Engineering	11
Electrical Engineering	18
Information Studies	2
Information Technology	48
Management & Information Systems	31

Collaborative Activity: 2nd Virtual Career Fair (VCF)

March 22, 2016

Employers Participation:

- **15 employers registered for the event**

- AT&T
- BlueGrace Logistics
- Broward County Public Schools
- CAE USA Inc
- Clark County School District
- DTCC
- Ericsson
- Mayo Clinic
- Platesmart Technology
- SPAWAR Systems Center Pacific
- U.S. Department of State
- VASTEC
- Verizon
- WFTS-ABC News Tamp
- Wondersign

Collaborative Activity: 2nd Virtual Career Fair (VCF)

Student Registration

UCF	106
USF	110
FIU	125
Total	**341**

Student Participation

- **165 Students attended chat (audio & video) sessions with employers (roughly equal numbers from the three institutions).**

Collaborative Activity: ***Shared Elective Courses***

- The CSIT TEAm Curriculum Committee (21 faculty members) has thoroughly examined the curriculum offered in 11 different programs and selected a set of 10 courses for offering in Spring 2015, 6 courses for offering Fall 2015 and 6 courses for offering in Spring 2016.
- Course syllabi and course flyers were created and posted on the TEAm website. Also posted are step-by-step instructions for course registration via the Florida Shines portal (previously Florida Virtual Campus).
- A Reserve Seat portal was created; students reserve seat in the courses of their interest. Students start enrolling in the shared courses by the start date specified by each institution for transient non-degree students.

Collaborative Activity: *Shared Elective Courses*

Enrollment Numbers in TEAm Courses for Spring 2015

Univ.	Area	Shared Course	# Students
UCF	IT	CNT 4603 - System Administration and Maintenance	10
UCF	CS	CAP 4453 - Robot Vision	3
UCF	CpE	EEL 4932 - Massive Storage and I/O for Big Data	1
USF	IS	LIS 4930 - Information Discovery in Health IMS	2
USF	MIS	ISM 4480 - Electronic Commerce Systems	1
FIU	CPE	EEL 4789 - Ethical Hacking and Countermeasures	16
FIU	CS	CEN 4083 - Introduction to Cloud Computing	7
FIU	MIS	ISM 4400 - Management Support Systems	1
Total			**41**

Collaborative Activity: *Shared Elective Courses*

Enrollment Numbers in TEAm Courses for Fall 2015

Univ.	Area	Shared Course	# Students
UCF	IT	CNT 4603 - System Administration and Maintenance	6
UCF	CS	CAP 4453 - Robot Vision	24
UCF	CpE	EEE 4346C - Hardware Security and Trusted Circuit Design	2
USF	IT	CIS 4932 - Mobile Device Programming	2
USF	IT	COP 3931 - ST 1: User-level introduction to Linux	4
FIU	CPE	EEL 4730 - Programming Embedded Systems	3
Total			**41**

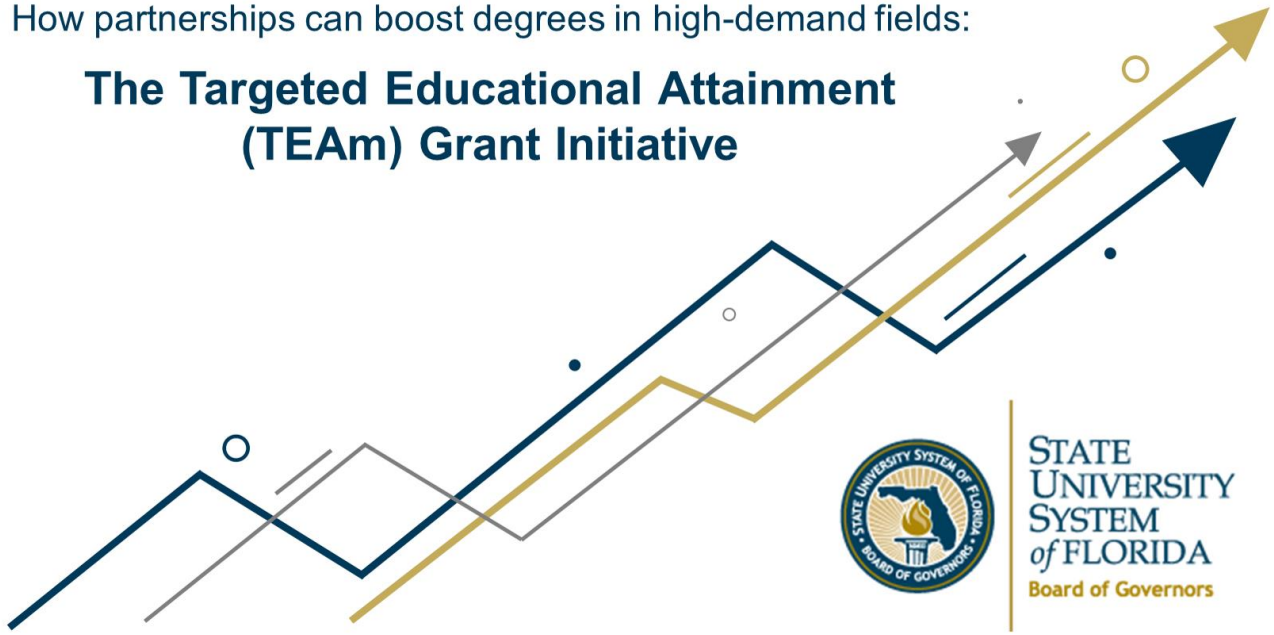
Collaborative Activity: *Shared Elective Courses*

Enrollment Numbers in TEAm Courses for Spring 2016

Univ.	Area	Shared Course	# Students
UCF	IT	CNT 4603 - System Administration and Maintenance	16
UCF	CS	CAP 4453 - Robot Vision	2
USF	IT	CEN 4031 - IT Software Engineering	2
USF	MIS	ISM 4480 - Electronic Commerce Systems	1
FIU	CPE	EEL 4730 - Programming Embedded Systems	2
FIU	CS	CAP 4993 - Natural Language Processing	2
Total			**25**

Thank You

Questions…?



Dr. Jan Ignash
Vice Chancellor for Academic and Student Affairs
State University System of Florida Board of Governors

Dr. Mostafa Bassiouni
Professor, Department of Computer Science
College of Engineering and Computer Science
University of Central Florida

Find archived webinar slides and recordings at:

http://www.floridacollegeaccess.org/events/ or
http://www.floridacollegeaccess.org/research-and-data/

Save the date!

MAY 2017

S	M	T	W	R	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

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