



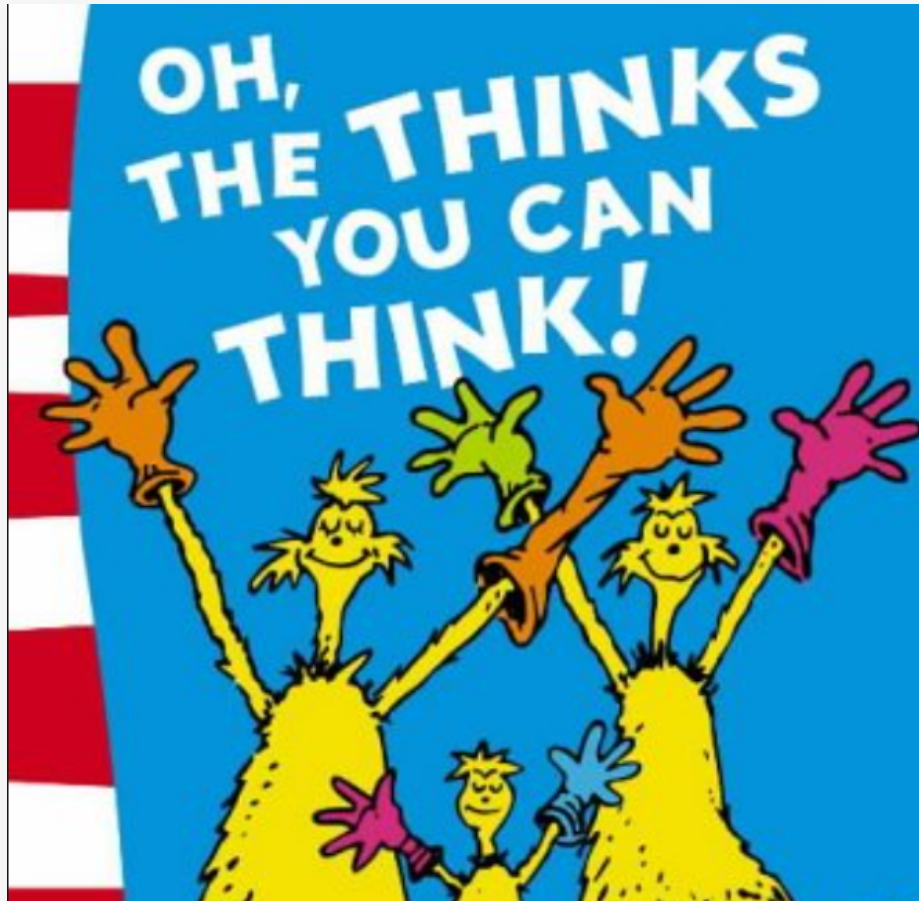
**The California State University**  
WORKING FOR CALIFORNIA

# **P20W Data: Wage Outcomes in California**

**Patrick Perry  
CIO, CalState System**



**When you have a P20W data system.....**



## California P-20W Data

- 4 siloed segmental education data sources: CDE (K-12), CCC, CSU, UC
- EDD wage data
- Coordinating board eliminated; no SLDS
- We still share data
- All segments have ed code access to EDD wage data

# Showing Workforce Outcomes for Higher Education

- CCC, CSU, UC have mandate to show basic median wage outcomes for graduates by program
- CCC is most advanced in its reporting/usage of this data, especially as used for CTE programs

## **EDD Wage Match: Mechanics/ Methodology**

- Match ALL students in system historically (SSN-based)
- Receive back quarterly wage records for time periods before-during-after college
- Aggregate to annual wages, index to CPI
- Show wages at various points before/after graduation for completers/non-transfers
- Must have enough n= to be valid!!

## **EDD Wage Match: Mechanics/ Methodology**

- CCC Salary Surfer: Median wages @ -2, +2, +5 yrs for programs at all campuses statewide
- CCC College Wage Tracker: Median wages @ +3 years for individual programs at campuses
- CSU: Labor Market Outcomes of CSU Grads, Analytic Studies, 2-12 yrs
- UC: UCOP Information Center, 10+ yrs
- CTE: LaunchBoard, 5 yr trend



**SalarySurfer**  
California Community Colleges  
Chancellor's Office



CALIFORNIA COMMUNITY COLLEGES  
**STUDENT  
SUCCESS  
INITIATIVE**

Los Medanos College  
Electrical Technology

## Salary Surfer

As students and their families make important decisions about investing in college education, the California Community Colleges Chancellor's Office provides comparative information about the earnings of recent graduates within each area at California community colleges.

The Salary Surfer uses the aggregated earnings of graduates from various disciplines to estimate the potential wages to be earned two years and five years after receiving a degree. This tool also provides information on which colleges offer a program in a specific discipline. Salary Surfer does not contain information about wages earned by graduates of a four-year institution.

While it is useful to know the potential earnings after receiving a degree, other considerations, such as personal interest and skill, should be used to make a decision about which program to pursue.

Information about the data and the methodology used to develop the Salary Surfer is available in the documentation. Please contact us at [salarysurfer@cccoco.edu](mailto:salarysurfer@cccoco.edu) if you have additional questions.

### Select a Program of Study

- Agriculture and Natural Resources
- Architecture and Related Technologies
- Environmental Sciences and Technologies
- Biological Science
- Business and Management
- Communications
- Computer and Information Science
- Education
- Engineering and Industrial Technology
- Fine and Applied Arts
- Foreign Language
- Health
- Consumer Education and Home Economics
- Law
- Humanities (Letters)
- Library Science
- Mathematics
- Military Studies
- Physical Sciences
- Psychology
- Public Affairs and Services
- Social Sciences
- Commercial Services
- Interdisciplinary Studies

## Health

Instructional programs that study the theories and techniques for the restoration or preservation of mental and physical health through the use of drugs, surgical procedures, manipulations, or other curative or remedial methods.

	Curriculum	Award Type	Median Annual Salary		
			2 Years Before	2 Years After	5 Years After
+	Administrative Medical Assisting	Degree	N/A	\$27,193	N/A
+	Administrative Medical Assisting	Certificate	\$20,140	\$28,386	\$31,211
-	Cardiovascular Technician	Degree	\$20,134	\$61,491	\$73,479

College	Program Title	Program Type
<a href="#">Grossmont College</a>	Cardiovascular Technology: Invasive	Degree
<a href="#">Grossmont College</a>	Vascular Technology	Degree
<a href="#">Orange Coast College</a>	Cardiovascular Tech: Echocardiography & Vascular Ultrasound	Degree
<a href="#">Orange Coast College</a>	Cardiovascular Technology: Echocardiography & Vascular Ultrasound	Degree

+	Cardiovascular Technician	Certificate	\$20,535	\$63,780	\$71,284
+	Clinical Medical Assisting	Degree	\$8,126	\$26,667	\$23,506
+	Clinical Medical Assisting	Certificate	\$13,485	\$27,717	\$32,992
+	Dental Assistant	Degree	\$15,432	\$29,845	\$32,394
+	Dental Assistant	Certificate	\$13,912	\$28,253	\$30,552
+	Dental Hygienist	Degree	\$20,171	\$69,118	\$64,030
+	Dental Laboratory Technician	Certificate	\$20,548	\$21,348	\$25,461
+	Diagnostic Medical Sonography	Degree	\$28,366	\$78,218	\$82,611
+	Diagnostic Medical Sonography	Certificate	\$35,009	\$69,418	\$80,791





California Community Colleges Chancellor's Office  
Management Information Systems Data Mart

[Home](#) | [Students](#) | [Courses](#) | [Student Services](#) | [Outcomes](#) | [Faculty & Staff](#)

You are here : [Data Mart](#) > [Outcomes](#) > [College Wage Tracker](#)

**Award Recipient Wages - Parameter Selection Area**

Select College  
Alameda;Allan Hancock;Ame

Select Program Type  
122700

Select Award Type  
AA/AS Degree;Chancellor's C

[View Report](#)

Export To ->

☒ Excel ☐ CSV

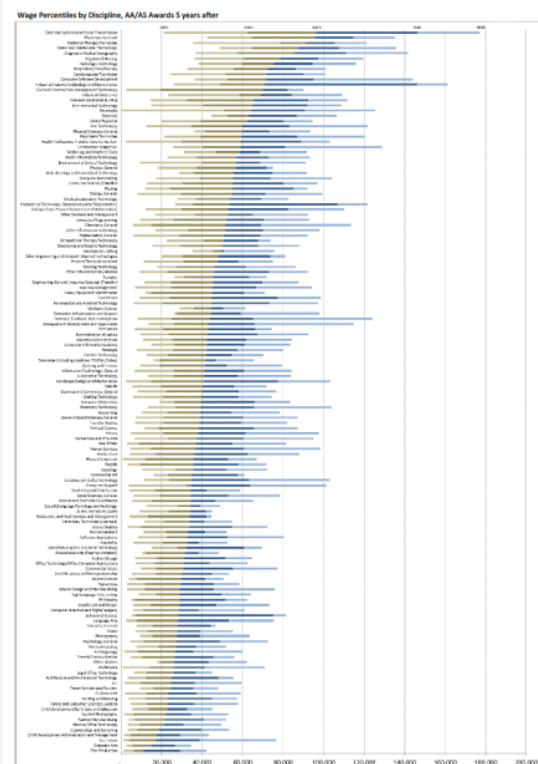
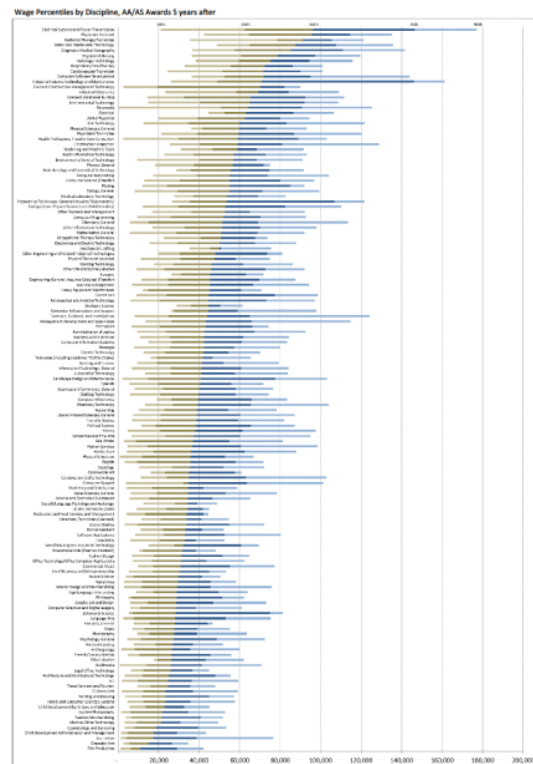
☒ Simple Layout ☐ Advanced Layout

**Report Area**

Award Year 2002-2003 - 2009-2010			
	Median Wage 3 Years After Award	Total Awards	Award to Wage Match Rate
<b>Cypress</b>			
Diagnostic Medical Sonography-122700			
Chancellor's Office Approved Certificates Recipient	\$75,872	69	87 %
<b>Foothill</b>			
Diagnostic Medical Sonography-122700			
AA/AS Degree Recipient	\$103,138	78	91 %
Chancellor's Office Approved Certificates Recipient	\$89,729	40	98 %
<b>Merced</b>			
Diagnostic Medical Sonography-122700			
Chancellor's Office Approved Certificates Recipient	\$80,808	43	93 %
<b>Orange Coast</b>			
Diagnostic Medical Sonography-122700			
AA/AS Degree Recipient	\$66,624	60	93 %
<b>Santa Barbara</b>			
Diagnostic Medical Sonography-122700			
Chancellor's Office Approved Certificates Recipient	\$65,898	30	90 %

# Wage Profiles by Discipline: Quartiles vs. Median

- See “Wage Profiles by Discipline” AA/AS, Certificate



Labor Market Outcomes

[Dashboard Home](#)

Labor Market Outcomes

[Labor Market Outcomes Home](#)

[Bachelor's Degree Graduates](#)

[CA Wage Earners](#)

[Industry Concentration](#)

[Earnings Over Time](#)

[Earnings by Discipline](#)

Resources

[Pre-Graduation Earnings](#)

[About the Data](#)

[List of Majors by Discipline](#)

[Contact Us](#)

## Labor Market Outcomes for Recent CSU Graduates

### Count of Bachelor's Degree Graduates

View CSU bachelor's degree recipients across 20 different academic disciplines since 2000.



### Count and Proportion of Graduates Earning Wages in California

Track CSU graduates who earned wages in California by academic discipline and years since graduation.



### Employment Concentration of Graduates by Industry

View the percentage of graduates employed across major industries in California by discipline and years since graduation.



### Earnings by Years Since Graduation

Compare 2014 mean and median earnings by years since graduation and academic discipline.



### Earnings by Academic Discipline

Compare 2014 mean and median earnings across academic disciplines at each year since graduation



Reports on employment and earnings in 2014 are available for those earning CSU bachelor's degrees between July 2000 and June 2014. They illustrate the trajectory of earnings during the initial years after graduation from CSU and highlight variations by academic discipline. Their purpose is to provide students, parents, policymakers, and researchers with some basic facts to inform discussions on topics ranging from career choices to the potential return on investment for completing a college education.

Of course, choosing an academic major involves more than just evaluating job opportunities or starting salaries. Everyone involved in this decision process should be mindful of students' skills, talents, and interests, and personal values regarding meaningful work. Before committing to a major, students should consult with academic advisors, professors, fellow students, alumni, and family and friends.

### Key Findings

- Bachelor's degree graduates increased by 50% between the 2000-01 and 2013-14 degree years (from about 57,000 to 85,000), with the largest growth coming in STEM-related fields such as biological sciences, physical sciences, health, engineering, and mathematics.
- As expected, there is a strong, positive relationship between years since graduation and higher annual earnings across all academic majors.
- Another year removed from graduation is associated with about a 10% percent average increase in annual earnings.
- In 2014, median earnings 2 years following graduation was about \$34,100; \$64,200 was the median for graduates who attained their degrees 10 years earlier.

### IMPORTANT!

Due to the nature of the data source, labor market data **do not cover:**

- Those employed outside of California
- Self-employed workers
- Independent contractors
- Workers employed in informal settings
- Most federal government workers

More information on data and methods can be found on our [About the Data](#) page.

Nearly **one million** students graduated with bachelor's degrees between 2000 and 2014.

**74%** of recent CSU graduates were found to be earning wages in California in 2014.





Labor Market Outcomes

Earnings Over Time

[Labor Market Outcomes Home](#)

Select a Discipline:

Engineering

Select Metric:

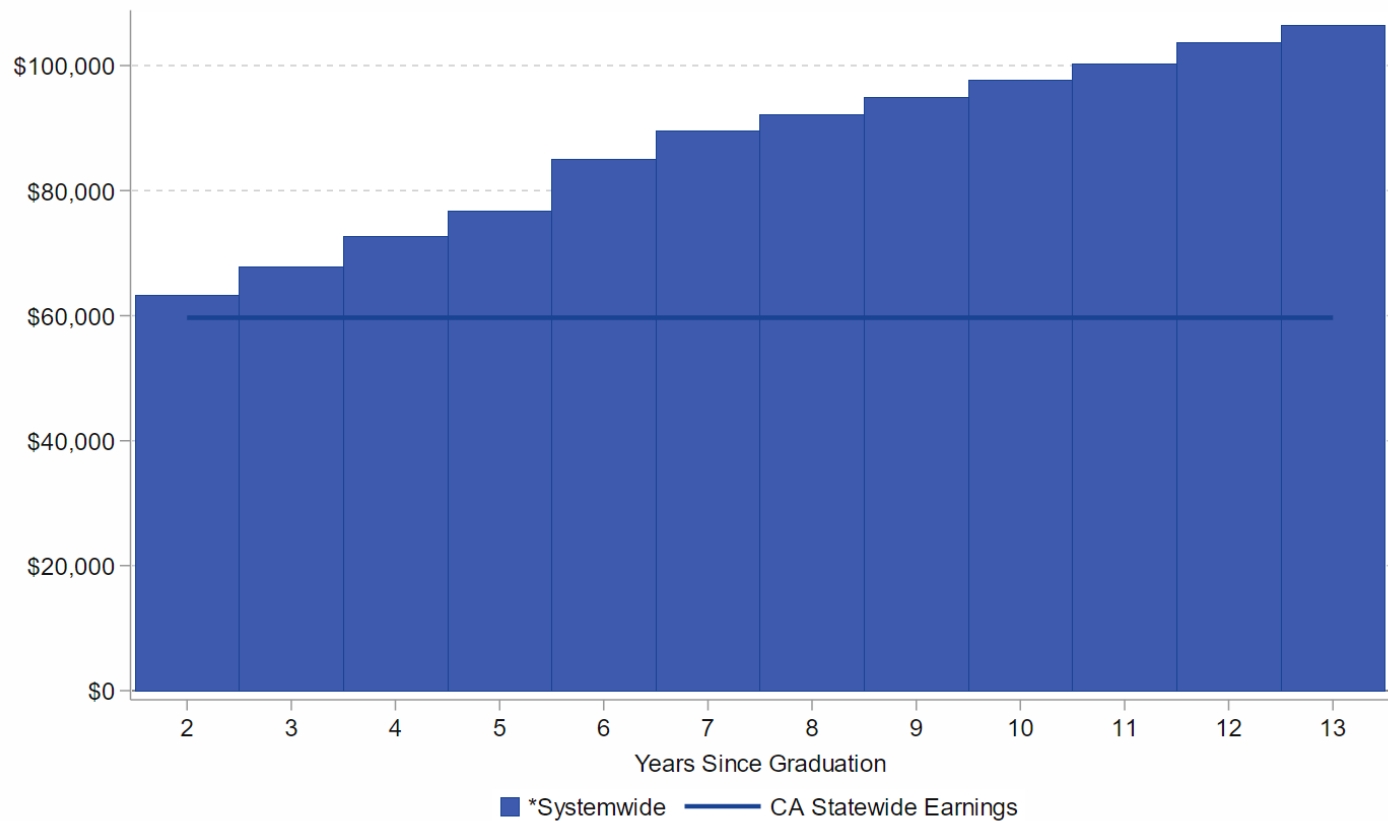
Median (Current Dollars)

*Earnings by Years Since Graduation*



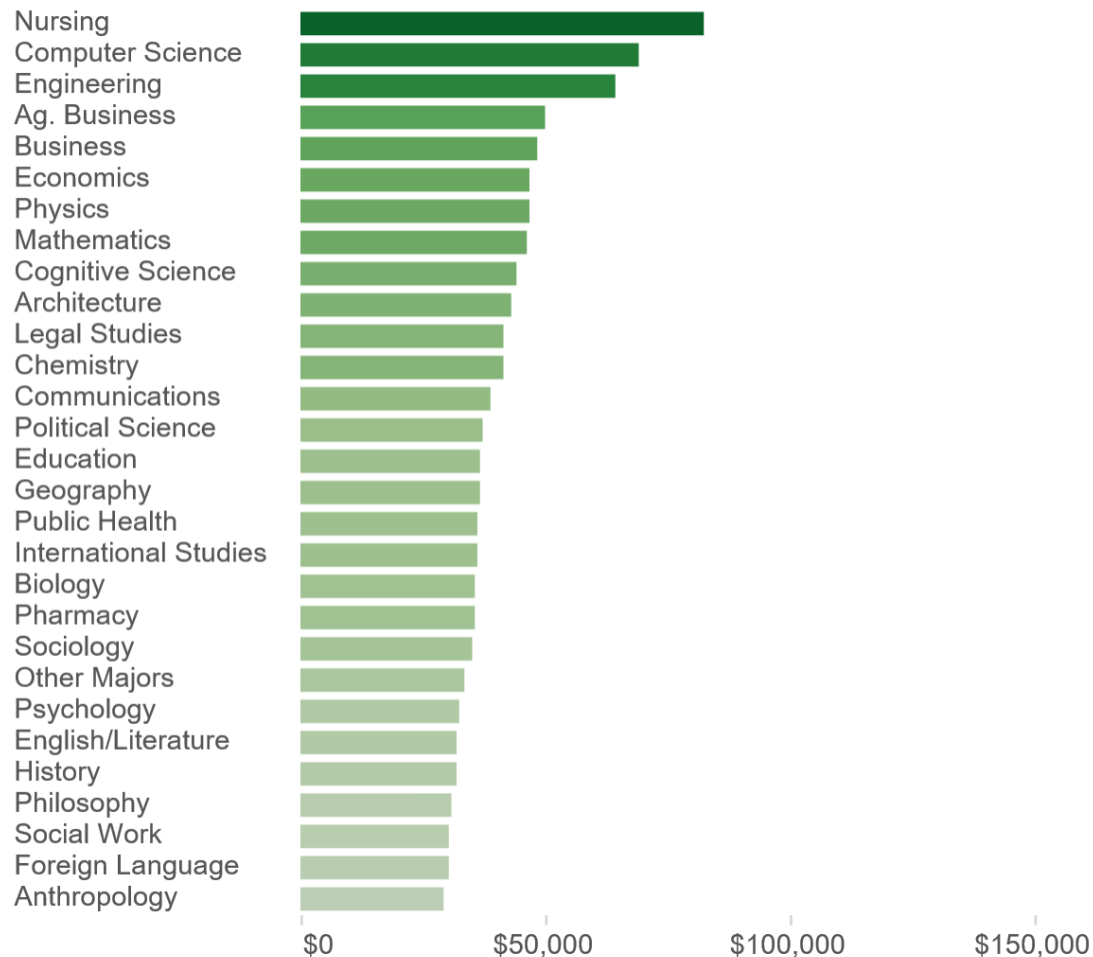
Download Data

2014 Annual Earnings of CSU Bachelor's Degree Graduates vs All California Wage Earners



### Years after graduation

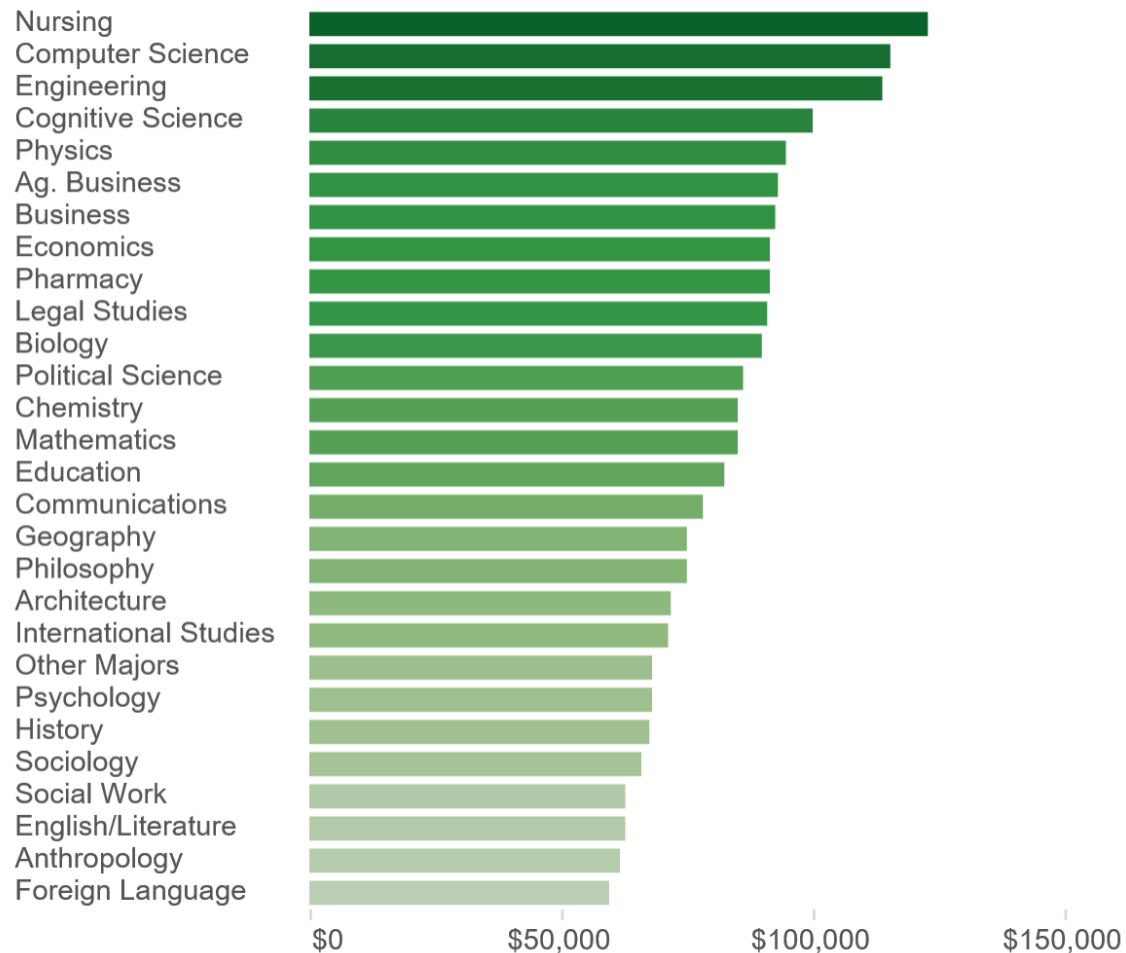
Median (50th percentile) earnings **2 years** after graduation. Click on a major to filter.



### Years after graduation

12

**Median (50th percentile) earnings 12 years after graduation. Click on a major to filter.**



## Value of the NAICS Code

- NAICS Code is in EDD wage record
- Shows the industry of the employer
  - But not the specific job of the employee

## 2012 NAICS Definition

T = Canadian, Mexican, and United States industries are comparable.

### Search results for: 62

Number of records found: 92

[62](#) **Health Care and Social Assistance<sup>T</sup>**

[621](#) **Ambulatory Health Care Services<sup>T</sup>**

[6211](#) **Offices of Physicians<sup>T</sup>**

[62111](#) **Offices of Physicians<sup>T</sup>**

[621111](#) **Offices of Physicians (except Mental Health Specialists)**

[621112](#) **Offices of Physicians, Mental Health Specialists**

[6212](#) **Offices of Dentists<sup>T</sup>**

[62121](#) **Offices of Dentists<sup>T</sup>**

[621210](#) **Offices of Dentists**

[6213](#) **Offices of Other Health Practitioners<sup>T</sup>**

[62131](#) **Offices of Chiropractors<sup>T</sup>**

[621310](#) **Offices of Chiropractors**

[62132](#) **Offices of Optometrists<sup>T</sup>**

[621320](#) **Offices of Optometrists**

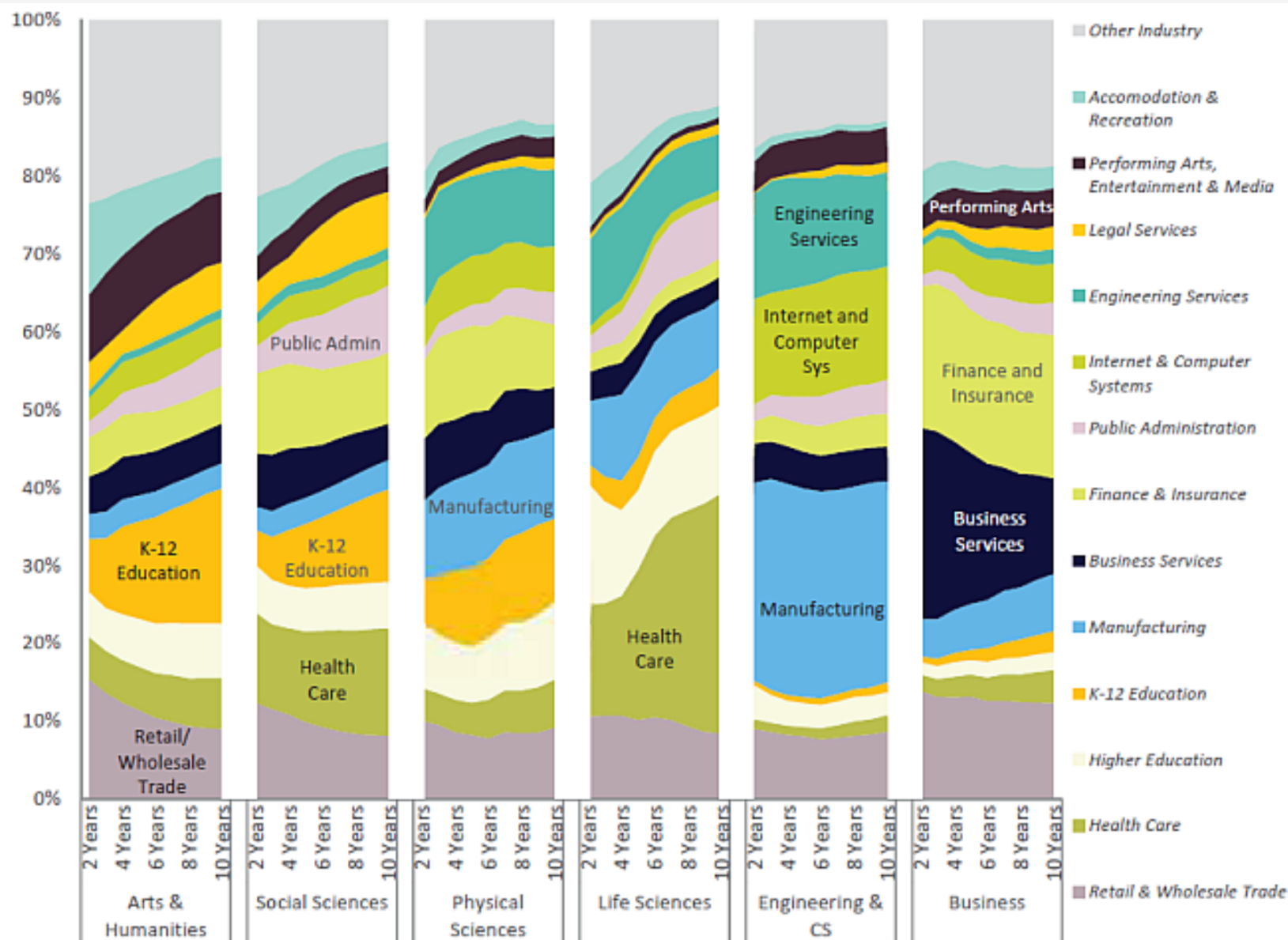


# Associate Nursing Degrees: NAICS @ -2

2 Years Before	
Title	% Industry
General Medical and Surgical Hospitals	23.8
Offices of Physicians	9.4
Full-Service Restaurants	5.8
Employment Services	4.8
Nursing Care Facilities (Skilled Nursing Facilities)	4.1
Executive, Legislative, and Other General Government Support	3.6
Elementary and Secondary Schools	2.7
Limited-Service Eating Places	2.0
Clothing Stores	2.0
Colleges, Universities, and Professional Schools	1.9
Home Health Care Services	1.7

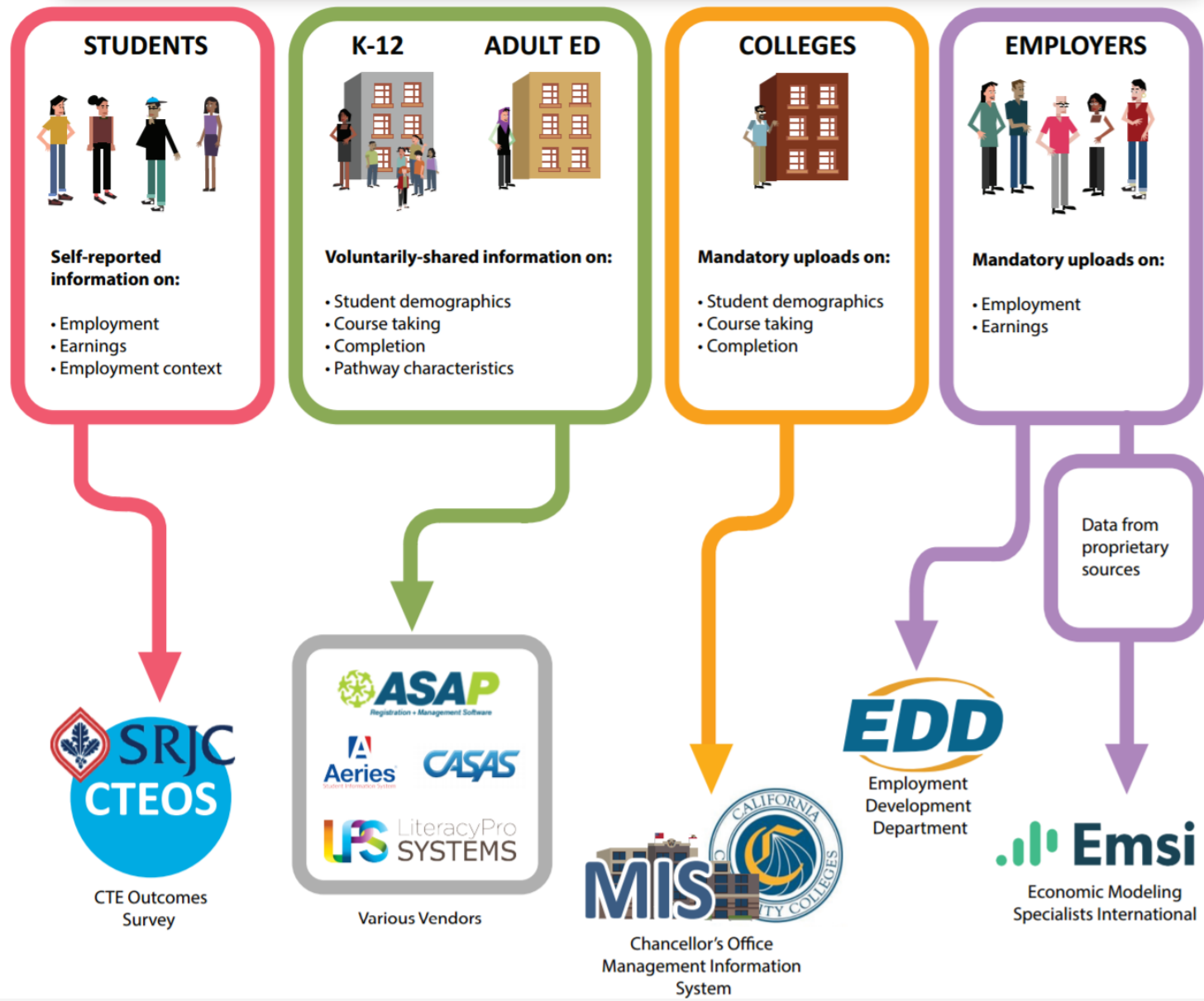
# Associate Nursing Degrees: NAICS @ +5

5 Years After	
Title	% Industry
General Medical and Surgical Hospitals	55.8
Offices of Physicians	8.8
Executive, Legislative, and Other General Government Support	6.3
Employment Services	4.9
Colleges, Universities, and Professional Schools	4.4
Home Health Care Services	3.0
Outpatient Care Centers	2.5
Psychiatric and Substance Abuse Hospitals	2.3
Nursing Care Facilities (Skilled Nursing Facilities)	1.7
Elementary and Secondary Schools	1.2
Other Investment Pools and Funds	0.9



## **CTE “Launch Board”**

- The LaunchBoard is a tool that will help CTE practitioners in all 113 colleges make data-backed decisions
- The LaunchBoard can help colleges with tasks like accreditation, planning, and program review
- The LaunchBoard can support regional and statewide planning activities
- Views: Program, sector, college, region



## New Data: Third Party Credentials

- <http://doingwhatmatters.cccco.edu/LaunchBoard/IndustryCredentialsSearch.aspx>
- Industry certifications/credentials housed at National Student Clearinghouse, State Dep't of Consumer Affairs, Private Industry

# LaunchBoard<sup>1.0</sup>

Data-Backed Decisions

The CTE LaunchBoard, a statewide data system supported by the California Community Colleges Chancellor's Office and hosted by Cal-PASS Plus, provides data to California community colleges and their feeder K-12 school districts on the effectiveness of CTE programs. This information is intended to facilitate local, regional and statewide conversations about how to improve student transitions from K-12 to college and on to the workforce. Click on [this link](#) to view video tutorials on specific tools within the LaunchBoard.

## LaunchBoard Features

The LaunchBoard includes several tools to support collecting and viewing information on student outcomes in CTE.

### Program Snapshot

The Program Snapshot section includes program information and student outcomes that are grouped into categories such as enrollments, milestones, credentials, employment, and alignment with regional labor market demand.

### Common Metrics

The Common Metrics section enables colleges to upload and view information on 34 indicators used to track progress on the California Community College Chancellor's Office's Doing What Matters framework

### CCPT Tab

The California Career Pathways Trust (CCPT) tab is a voluntary tool intended to foster conversations within CCPT grant consortia by bringing together information on grant outcomes and

### CTE Outcomes Survey Tool

The CTEOS Reporting Tool is intended to make Career and Technical Education Outcomes Survey (CTEOS) responses



# Program Snapshot Reports

Which programs would you like to view?

College or Region:

REGION - Orange County



Program or Sector:

Biotechnology and Biomedical Technolo



Which academic year should be  
included in the report?

2014-2015



View

*[+Find out more about the data in the LaunchBoard](#)*

[Give us your feedback](#)



REGION - Orange County || Biotechnology and Biomedical Technology (043000) || 2014-2015 [\(Change Filter?\)](#)

-  **Where are students taking courses?**
-  Are we training the right number of students for available jobs?
-  What kinds of students are taking courses?
-  Are students progressing in the pathway?
-  Are there equity gaps in student success?
-  What types of awards are programs issuing?
-  Are students getting jobs?
-  How much money are students making?
-  Are students making reasonable wages?
-  Which colleges have the most effective programs?

College or Region: REGION - Orange County    Program or Sector: SECTOR - Life Sciences / Biotechnology    Comparison: Historic    Academic Year: 2014-2015    [View](#)

[Print/Export Report](#)

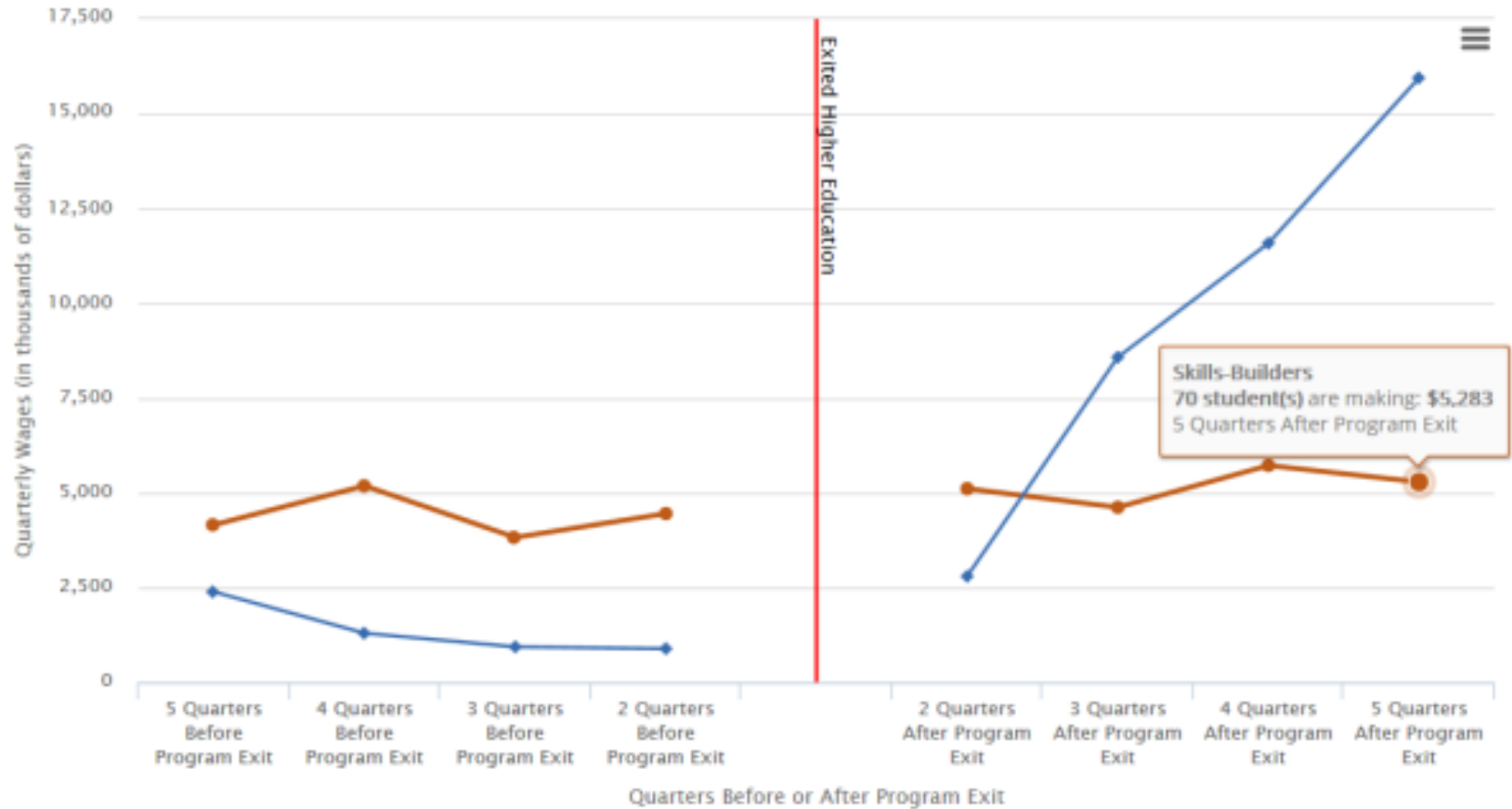
Program Size   Student Characteristics   Milestones   Success   Employment   **Regional Labor Market Information**

*Total People Employed in the Region*

	Current Year (2014)	5 Years Ago (2009)	5 Year Change (2009-2014)	5 Year Trend
<b>2. Requires an Associate Degree</b>				
Chemical Technicians (194031)	538	528	11	
Life, Physical, and Social Science Technicians, All Other (194099)	878	758	121	
Medical and Clinical Laboratory Technicians (292012)	1,739	1,685	53	
Medical Equipment Repairers (499062)	466	432	34	
<b>5. On-The-Job Training, No College Required</b>				
Automotive Service Technicians and Mechanics (493023)	6,467	6,078	389	
Inspectors, Testers, Sorters, Samplers, and Weighers (519061)	7,336	6,817	519	



## How much money are students making?



Skills-Builders Completers Locally-Issued Certificate Recipients Chancellor's Office Approved Certificate Recipients Associate Degree Recipients

## **Community College “Skills Builders” (CTE noncompleters)**

- The median percentage change in wages for students who completed higher level CTE coursework in 2012-2013 and left the system without receiving any type of traditional outcome such as transfer to a four year college or completion of a degree or certificate.

## Median Earnings Change

**+13.4%**

N=83,002

Disciplines with the highest enrollment	Median % Change	Total N
Administration of Justice	7.7%	9,299
Child Development/Early Care and Education	15.7%	7,027
Accounting	20.8%	6,788
Police Academy	7.8%	6,258
Office Technology/Office Computer Applications	16.6%	3,399
Fire Technology	12.5%	3,307
Business and Commerce, General	25.4%	2,951
Emergency Medical Services	30.0%	2,871
Business Management	17.6%	2,812
Information Technology, General	18.4%	2,264

## Median Earnings Change

**+13.4%**

N=83,002

Gender		Median % Change	Total N
FEMALE		13.4%	36,578
MALE		13.5%	45,560
Age		Median % Change	Total N
Under 20		151.1%	4,297
20-24		53.6%	20,889
25-39		12.0%	35,961
40 OR OVER		2.6%	21,833
Ethnicity/Race		Median % Change	Total N
AFRICAN AMERICAN		10.2%	5,183
AMERICAN INDIAN/ALASKA NATIVE		10.9%	495
ASIAN		19.5%	7,613
FILIPINO		14.1%	2,433
HISPANIC		16.2%	26,794
PACIFIC ISLANDER		9.2%	403
WHITE		11.5%	33,401

## Adult Education Tables

Which would you like to view?

Institutions

North Orange Adult

Program Area

All Programs

Comparison

Historic

Academic Year

2012-2013

View

Export

Program Size

Student Characteristics

Milestones


Transitions

Basic Skills

Awards

Employment


Selected Year

Median Change in Earnings (All Exitors) 

\$1,997

Trend


Selected Year

Median Change in Earnings (Attended Adult School Only) 

\$2,028

Trend


Selected Year

Median Change in Earnings (Post-Secondary Credit Coursework) 

\$5,645

Trend

Selected Year

Median Annual Earnings (All Exitors) 

\$20,248

Trend


Selected Year

Median Annual Earnings (Attended Adult School Only) 

\$21,102

Trend

Selected Year

Median Annual Earnings (Post-Secondary Credit Coursework) 

\$14,311

Trend

In order to protect the identity of individual students, asterisks are displayed when fewer than ten students are in the data set.

