APPLICATION
OF COE LMI
RESOURCES
AND TOOLS



WEBINAR INSTRUCTION (2-3:30 P.M.)

Date	Topic
Mon, May 3	Introduction to Labor Market Information
Tues, May 4	Overview of LMI Tools and Resources
Wed, May 5	Application of LMI Tools and Resources

DAY 1 RECAP

- Traditional vs. real-time LMI
- Demand vs. supply
- SOC, TOP, and CIP codes
- Supply gap analysis

DAY 2 RECAP

Explored non-COE resources and tools such as:

- EDD LMID vs. BLS
- Career Coach
- Career Zone
- CalJOBS
- O*NET Online

SOMETIMES YOU JUST DON'T HAVE TIME



AGENDA - DAY 3 (MAY 5)

- Explore scenarios that require LMI
- Review COE-produced products





While the Centers of Excellence for Labor Market Research (COE) serve the California community colleges and focus on Career Education or CTE, many of these examples can be applicable for LMI consumers outside of the community college system.

OTHER HOUSEKEEPING ITEMS

- Please keep yourselves muted
- Please save your questions and ask them in the <u>chat</u> when it is enabled
- PowerPoint slides, recordings, and related documents will be posted on the website

SCENARIO 1

You have been asked to research if there is a labor market need for a new training program for an occupation (e.g., Property, Real Estate, and Community Association Managers).



For the San Diego and Imperial Counties

Community Colleges, this is the first step in our

Regional Program Recommendation Process.

REGIONAL PROGRAM RECOMMENDATION PROCESS





PROGRAM IDEA/
PROGRAM CONCEPT
DEVELOPMENT



LMI REQUEST AND SUPPLY GAP CONFIRMATION



REGIONAL DISCUSSION
ABOUT PROGRAM
INTENT



OFFICIAL REGIONAL PROGRAM RECOMMENDATION

A business, an advisory board member, a faculty member, or other industry expert recommends that a college should develop a program.



PROGRAM IDEA/
PROGRAM CONCEPT
DEVELOPMENT

"Pursuant to Education
Code § 78015 Labor
Market Information
(LMI) data is specifically
required for all new CTE
program proposals,
where available."



Program and Course Approval Handbook

"The proposal must include projections from LMI for the most applicable Standard Occupational Classification (SOC) codes and geographical regions to be served by the program."



Program and Course Approval Handbook

Program and Course Approval Handbook

"Program proposals will be evaluated in light of the data regarding expected job openings within the next five years and the number of students that will complete the program per year, taking into account the number of completers in similar programs at other institutions within the geographical region."

Basically, the PCAH and the Chancellor's Office requires that new programs conduct a demand and supply analysis or a "supply gap analysis" to demonstrate need by employers in the area that the community college serves.

REGIONAL PROGRAM RECOMMENDATION PROCESS





PROGRAM IDEA/
PROGRAM CONCEPT
DEVELOPMENT



LMI REQUEST AND SUPPLY GAP CONFIRMATION



REGIONAL DISCUSSION
ABOUT PROGRAM
INTENT



OFFICIAL REGIONAL PROGRAM RECOMMENDATION

The Career Education Dean submits an online LMI request to the San Diego-Imperial Center of **Excellence for Labor** Market Research (COE).



LMI REQUEST AND SUPPLY GAP CONFIRMATION

If the requester is <u>not</u> a Career Education Dean, then the requester must, at minimum, notify the Career Ed Dean before submitting the online LMI request form.



LMI REQUEST AND SUPPLY GAP CONFIRMATION

REQUESTERS PREPARE THE FOLLOWING

- Occupation(s) to be trained: O*NET OnLine
- Six-digit TOP code for the proposed program:
 - An asterisk (*) indicates a vocational program in the Taxonomy of Programs (TOP) manual
- Contact information of requester
- Additional research or information that may have already been conducted or collected, respectively

ONETONLINE.ORG



O*NET OnLine



Help Find Occupations Advanced Search Crosswalks Share O*NET Sites



What's New?

Updated military information included in O*NET websites



Learn More



Get O*NET news by email or RSS.

I want to be a...

Start the career you've dreamed about, or find one you never imagined.

Find It Now



at My Next Move

California Community Colleges

CALIFORNIA COMMUNITY COLLEGES CHANCELLOR'S OFFICE (CCCCO) TOP MANUAL

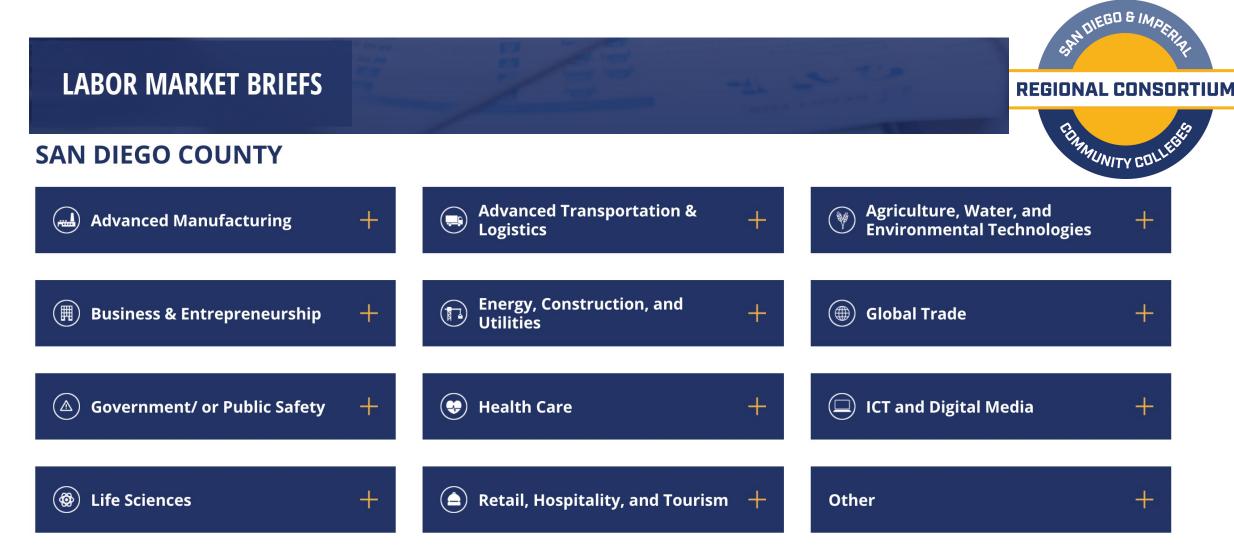
Taxonomy of Programs

February 2004 6th Edition

Revised: June 2012, September 2009, July and March 2007 Corrected: July 2013, November 2004



COE LABOR MARKET BRIEFS PAGE



SAMPLE LABOR MARKET BRIEF



Property, Real Estate, and Community Association

Managers

Labor Market Analysis: San Diego County

PROVIDE TRAINING

February 2021

Summary Bachelor's Degree+ Do not Proceed Associate Degree Proceed with Caution Some College or Certificate Proceed High School Diploma or Equivalent PROCEED WITH SUPPLY AT OR ABOVE **NEW PROGRAM?** GAP? THE LIVING WAGE Less than a HS Diploma Apprenticeship **EXPECTED LEVEL** OF EDUCATION NUMBER OF NUMBER OF ANNUAL INSTITUTIONS THAT JOB OPENINGS



PROGRAM IDEA/ PROGRAM CONCEPT DEVELOPMENT

What if Labor Market Information (LMI) from the COE already exists for the occupation(s) or skill(s) to be trained for?

+ Can any labor market research be submitted for the Regional Program Recommendation Process?

+ How long are COE labor market reports valid?



LMI REQUEST AND SUPPLY GAP CONFIRMATION

How do I know if my request has been received?

How long do I have to wait for a report?

What if LMI from the COE does not show evidence of need or a labor market supply gap?



+

The Regional Program Recommendation Process provides an employer endorsement letter template that can be used for program endorsement.

To Whom It May Concern:

As a representative from [company name], I, [first and last name], endorse the program, [program name], at [college name]. I confirm that there is an unmet labor market demand in San Diego County for the occupations that this program trains for. The occupations that this program provides training for include:

- [occupation name 1]
- [occupation name 2]
- [occupation name 3]

Individuals working in these occupations can expect to earn between \$[##.##] and \$[##.##] in entry-level positions.

In the past [insert time frame (e.g., 3 years, 12 months)], I have hired [#] students from [program name] at [college name], and expect to hire more [insert occupation names] in the upcoming [insert time frame (e.g., months, years)].

This affirms that there are jobs available for program completers within the local service area of the college after taking into account the number of completers in similar programs at other institutions—as required by Education Code section 78015 and the California Community Colleges Chancellor's Office Program and Course Approval Handbook (PCAH).

Sincerely,

[signature]

LMI SHOULD NOT
BE THE *ONLY*
BASIS FOR
DECISION MAKING



REGIONAL PROGRAM RECOMMENDATION PROCESS





PROGRAM IDEA/
PROGRAM CONCEPT
DEVELOPMENT



SUPPLY GAP
CONFIRMATION



REGIONAL DISCUSSION
ABOUT PROGRAM
INTENT



OFFICIAL REGIONAL PROGRAM RECOMMENDATION

REGIONAL DISCUSSION MAY INCLUDE:

- Is there a labor market supply gap for the occupation(s) to be trained?
- Does the occupation pay a living wage?
- What level of education do employers typically require for the occupation(s)?
- How many institutions provide related training?
- What employers typically hire for these positions?
- What certifications or soft, software, and specialized skills should we include in the training?

College discusses with the region's other community colleges to avoid duplication of efforts before creating a new program.



REGIONAL DISCUSSION
ABOUT PROGRAM
INTENT

REGIONAL PROGRAM RECOMMENDATION PROCESS





PROGRAM IDEA/
PROGRAM CONCEPT
DEVELOPMENT



LMI REQUEST AND SUPPLY GAP CONFIRMATION



REGIONAL DISCUSSION
ABOUT PROGRAM
INTENT



PROGRAM
RECOMMENDATION

Regional Deans' Council provides an official recommendation to the Chancellor's Office for program approval.



OFFICIAL REGIONAL PROGRAM RECOMMENDATION

IN THE NEXT FIVE MINUTES... TYPE YOUR **QUESTIONS IN** THE CHAT



COE LABOR MARKET BRIEFS

REGIONAL PROGRAM RECOMMENDATION PROCESS





SCENARIO 2

You have been asked to write up a problem statement (or statement of need) for a grant about:

- Sector(s) and occupation(s) that need your services
- 2. Populations that will benefit from these services

SECTOR RESOURCES

- Sector Handouts
- Career EducationGuide
- EDD-COE Sector Map

POPULATION RESOURCES

- Subregional Profiles
- EDD-COE Geographic

Distribution of

(Demographic) Need



SECTORS >

EDUCATOR RESOURCES ~

K-12 to CC Program Finder

Counselor Resources

Counselor Conference

K14 Professional Development

MS/HS Engagement

Career Education Guide

Faculty Institute





MIDDLE SCHOOL & HIGH SCHOOL ENGAGEMENT: PARTNER RESOURCES

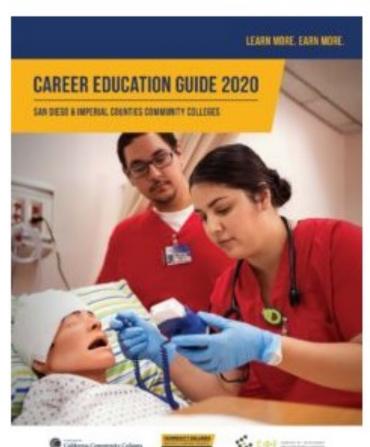
MIDDLE SCHOOL & HIGH SCHOOL ENGAGEMENT: **PARTNER RESOURCES**



2020 PRIORITY SECTOR HANDOUTS:

Advanced Manufacturing Advanced Transportation & Logistics Agriculture, Water, & Environmental Technologies **Business & Entrepreneurship** Energy, Construction, & Utilities Health ICT & Digital Media Life Sciences & Biotechnology

2020 CAREER EDUCATION GUIDE:









SECTOR HANDOUTS

ENERGY, CONSTRUCTION & UTILITIES

San Diego County



DID YOU KNOW?

Programs in this sector train you in architecture, engineering, electrical, mechanical, and construction roles. The majority of "clean energy" companies in San Diego specialize in energy efficiency for buildings and renewable energies such as solar power.





8% (10,357)

5-year projected job growth



\$83,126

average earnings per job

SECTOR HANDOUTS

ARE YOU INTERESTED IN...?

- Working with state-of-the-art technology and machines
- Balancing energy needs with environmental concerns
- Learning a practical trade that is transferable to any location
- Being part of a sector with a global impact
- Using math to solve community and global problems

DO YOU...?

- · Enjoy building things and working with tools
- Dream of creating a city skyline
- Want to build massive infrastructures that connect and support our world
- Follow directions
- Prefer working outdoors
- Work on a project until all the pieces fit together
- Work with your hands



Sample of Local Employers

AECOM Technology Corporation

EDF Renewable Energy

Dynalectric San Diego

Flatiron Construction

San Diego Gas & Electric

Sempra Energy

Solar Turbines

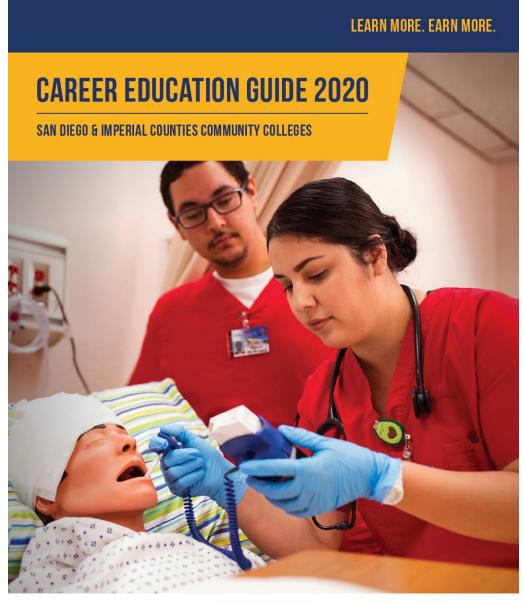
SECTOR HANDOUTS



Minimum Education	Career Pathways	Hourly Rate (Salary)*
HS Diploma + Postsecondary	Carpenters	\$16 (\$33K)
Training (e.g., Certificate)	Plumbers, Pipefitters, and Steamfitters	\$20 (\$42K)
	Electricians	\$20 (\$42K)
	Construction and Building Inspectors	\$24 (\$50K)
Associate Degree or Higher	Civil Engineering Technicians	\$18 (\$37K)
	Architectural and Civil Drafters	\$25 (\$52K)
	Electrical and Electronics Drafters	\$22 (\$46K)
	Electrical and Electronics Engineering Technicians	\$26 (\$54K)

^{*}Median hourly rates are provided here because once apprentices finish their training, they make median wages. These wages have been rounded up and salaries are provided as examples of what workers would make if they worked full-time (2080 hours a year)

CAREER EDUCATION GUIDE









ADVANCED MANUFACTURING

The rise of automation, or "Industry 4.0," is here, transforming factories across the globe using cutting-edge technologies, artificial intelligence, real-time data collection and collaborative robots in building a wide range of products to meet the today's needs and tomorrow's challenges. High-tech manufacturing (or Advanced Manufacturing) jobs continue to grow, especially in the areas of additive manufacturing, lean manufacturing, robotics and automation, industrial internet of things, digital transformation, predictive maintenance, precision machining and engineering.



Because robots and automation take care of the repetitive work, today's manufacturing employees have more challenging and interesting job assignments. Employers in this sector look for technicians, technologists and engineers who are both at ease in the mechanical world, and looking to take on the challenge of moving into a cyber-physical world by applying scientific and technical principles to manufacturing processes. Opportunities for advancement are plentiful as technological advancements make higher-skill jobs in product design, process engineering, operations, maintenance, and lab work more prevalent.

CAREER EDUCATION GUIDE



FAST FACTS*



92,818

people employed



1% (654)

5-year projected job growth



3.075

businesses

\$96,114

average earnings per job

*Labor market data derived from EMSI 2020.02; QCEW, Non-QCEW, Self-Employed; 2019-2024 projections.

RIASEC

(R) Realistic

(I) Investigative

Please reference page 3 for more information about RIASEC



CAREER EDUCATION GUIDE 2020



ADVANCED MANUFACTURING | JOBS & WAGES

The following table lists the minimum educational attainment that an individual needs to have in order to be qualified for the occupation. Wages listed for each occupation are based on 25th percentile wages, which represent wages for entry-level workers. Only occupations with median annual salaries of at least \$33,280 (i.e., living wage) and a labor market demand of at least 50 annual job openings are included in this list. Any job with "All Other" in the title is an occupation with highly specialized subsets; put differently, the title is written broadly to capture various emerging occupations.

HIGH SCHOOL DIPLOMA OR EQUIVALENT + ADDITIONAL TRAINING	Entry-level Hourly Rate (Salary)
Aircraft Structure, Surfaces, Rigging, and Systems Assemblers	\$16 (\$33K)
Cabinetmakers and Bench Carpenters	\$16 (\$33K)
Computer-Controlled Machine Tool Operators, Metal and Plastic	\$16 (\$33K)
Cutting and Slicing Machine Setters, Operators, and Tenders	\$14 (\$29K)
Cutting, Punching, and Press Machine Setters, Operators, and Tenders, Metal and Plastic	\$15 (\$31K)
Electrical, Electronic, and Electromechanical Assemblers, Except Coil Winders, Tapers, and Finish	ers \$14 (\$29K)
First-Line Supervisors of Production and Operating Workers	\$24 (\$50K)
Industrial Machinery Mechanics	\$23 (\$48K)
Machinists	\$16 (\$33K)
Maintenance and Repair Workers, General	\$16 (\$33K)
Mixing and Blending Machine Setters, Operators, and Tenders	\$14 (\$29K)
Molding, Coremaking, and Casting Machine Setters, Operators, and Tenders, Metal and Plastic	\$12 (\$25K)
Printing Press Operators	\$13 (\$27K)
Separating, Filtering, Clarifying, Precipitating, and Still Machine Setters, Operators, and Tender	s \$15 (\$31K)
Sheet Metal Workers	\$24 (\$50K)
Structural Iron and Steel Workers	\$23 (\$48K)
Structural Metal Fabricators and Fitters	\$17 (\$35K)
Welders, Cutters, Solderers, and Brazers	\$18 (\$37K)
SOME COLLEGE OR POSTSECONDARY NON-DEGREE AWARD	
Aircraft Mechanics and Service Technicians	\$27 (\$56K)
Computer, Automated Teller, and Office Machine Repairers	\$14 (\$29K)
Electrical and Electronics Repairers, Commercial and Industrial Equipment	\$27 (\$56K)
ASSOCIATE DEGREE	
Aerospace Engineering and Operations Technicians	\$26 (\$54K)
Civil Engineering Technicians	\$18 (\$37K)
Electrical and Electronics Engineering Technicians	\$26 (\$54K)
Engineering Technicians, Except Drafters, All Other	\$27 (\$56K)
Industrial Engineering Technicians	\$28 (\$58K)
Mechanical Drafters	\$25 (\$52K)
Mechanical Engineering Technicians	\$20 (\$42K)
BACHELOR'S DEGREE OR HIGHER	420 (4:2:3
Aerospace Engineers	\$39 (\$81K)
Civil Engineers	\$31 (\$64K)
Computer Hardware Engineers	\$49 (\$102K)
Electrical Engineers	\$40 (\$83K)
Electronics Engineers, Except Computer	\$50 (\$104K)
Engineers, All Other	\$41 (\$85K)
Industrial Engineers	\$37 (\$77K)
Industrial Production Managers*	\$39 (\$81K)
Mechanical Engineers	\$37 (\$77K)
, red rained Engineers	\$49 (\$102K)

*Nationally, 33% or more of workers currently employed in this occupation have an associate degree or less.



San Diego County Sector vs. Population San Diego County Sector vs. Sector Imperial County Sector vs. Population Imperial County Sector vs. Sector About this Tool

Select Metric

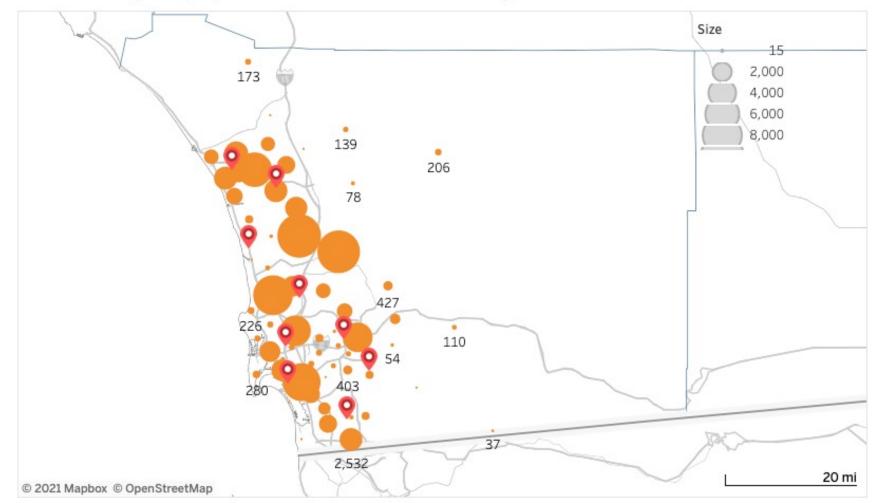
- Annual Average Employment
- Annual Average Firms
- Annual Average Wages \$

EDD-COE SECTOR MAP





Annual Average Employment for Advanced Manufacturing - 2019





Annual Average Firms

Annual Average Wages \$

San Diego County Sector vs. Population San Diego County Sector vs. Sector

Imperial County Sector vs. Population Imperial County Sector vs. Sector About this Tool

Select Metric Select Sector Sector Name Year Advanced Manufacturing Annual Average Employment Advanced Manufacturing 2019 0 < >

Top Zip Codes for All Region - 2019

Rank	Zip Code -	Area	All Zips in Data	Annual Average Employment	Annual Average Firms
1.	92127	San Diego	92127, 92128, 92197, 92199	9,319	93
2.	92064	Poway, Escondido, San Di	92025, 92064, 92074, 92198, 92199	8,897	168
3.	92121	San Diego	92121, 92191	7,706	224
4.	92113	San Diego	92102, 92113, 92170, 92136	7,026	71
5.	92081	Vista	92081	5,851	162

WHAT QUESTIONS CAN YOU ANSWER?

- How big is the sector?
 - How many companies are in San Diego County?
 - How many people are employed?
- What are the sector's top jobs? Which ones pay a living wage?
- What's the minimum educational attainment for these occupations?
- Where are employers located?

HOW BIG IS THE SECTOR?

FAST FACTS*



92,818

people employed



3.075

businesses



1% (654)

5-year projected job growth



\$96,114

average earnings per job

*Labor market data derived from EMSI 2020.02; QCEW, Non-QCEW, Self-Employed; 2019-2024 projections.

RIASEC

(R) Realistic
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Please reference page 3 for more information about RIASEC



Example:

There were 3,075
businesses in San Diego
County's Advanced
Manufacturing sector, with
92,818 people employed.
On average, they earned
\$96,114 a year.

WHAT ARE THE SECTOR'S TOP JOBS?

CAREER EDUCATION GUIDE 2020



ADVANCED MANUFACTURING | JOBS & WAGES

The following table lists the minimum educational attainment that an individual needs to have in order to be qualified for the occupation. Wages listed for each occupation are based on 25th percentile wages, which represent wages for entry-level workers. Only occupations with median annual salaries of at least \$33,280 (i.e., living wage) and a labor market demand of at least 50 annual job openings are included in this list. Any job with "All Other" in the title is an occupation with highly specialized subsets; put differently, the title is written broadly to capture various emerging occupations.

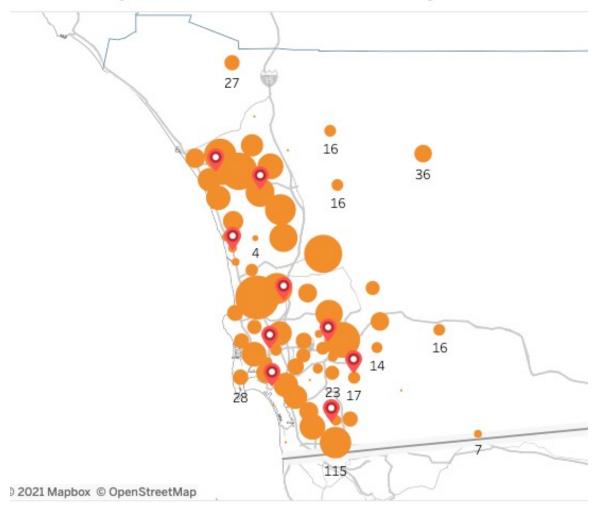
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Mechanical Drafters	\$25 (\$52K)

Example:

We plan to train for Welders, Cutters, Solderers, and Brazers. They have entry-level wages at \$18 per hour and require a high school diploma + additional training.

WHERE ARE EMPLOYERS LOCATED?

Annual Average Firms for Advanced Manufacturing - 2019



Example:

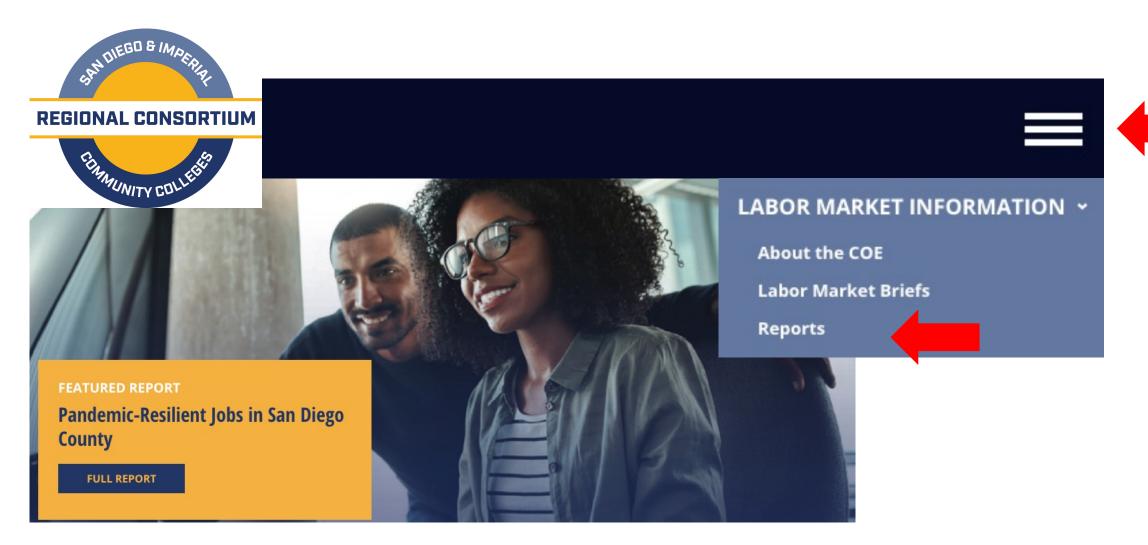
We plan to build our program with employers in East County San Diego where a significant number of Advanced Manufacturing companies are concentrated.

SCENARIO 2

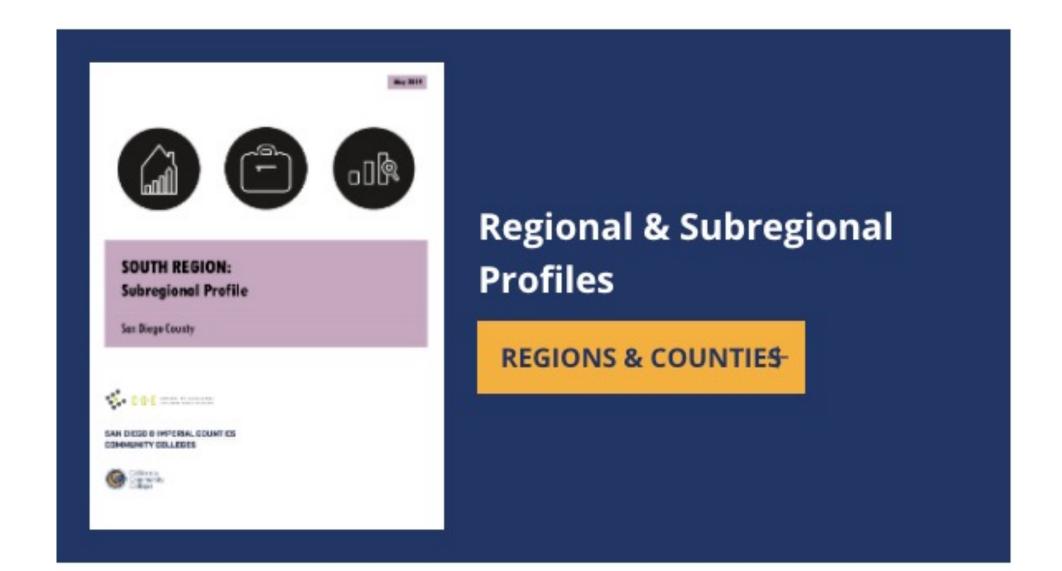
You have been asked to write up a problem statement (or statement of need) for a grant about:

- Sector(s) and occupation(s) that need your services
- Populations that will benefit from these services

COE SPECIAL REPORTS PAGE



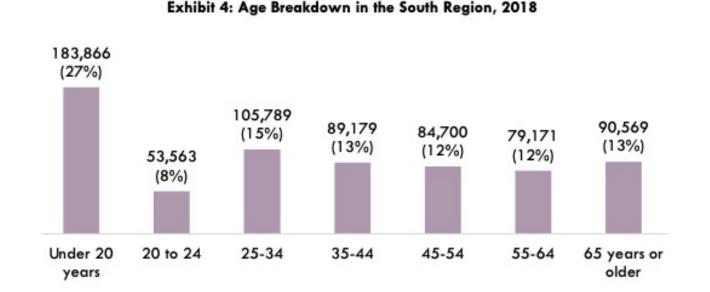
SUBREGIONAL PROFILES



WHO WILL RECEIVE THESE SERVICES?

Example:

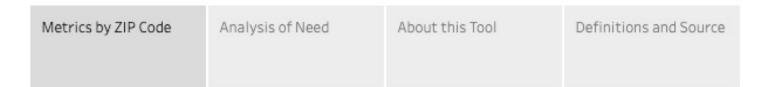
We plan to serve individuals who are 24 or younger in the south region of San Diego County who make up 35% of our subregional population.

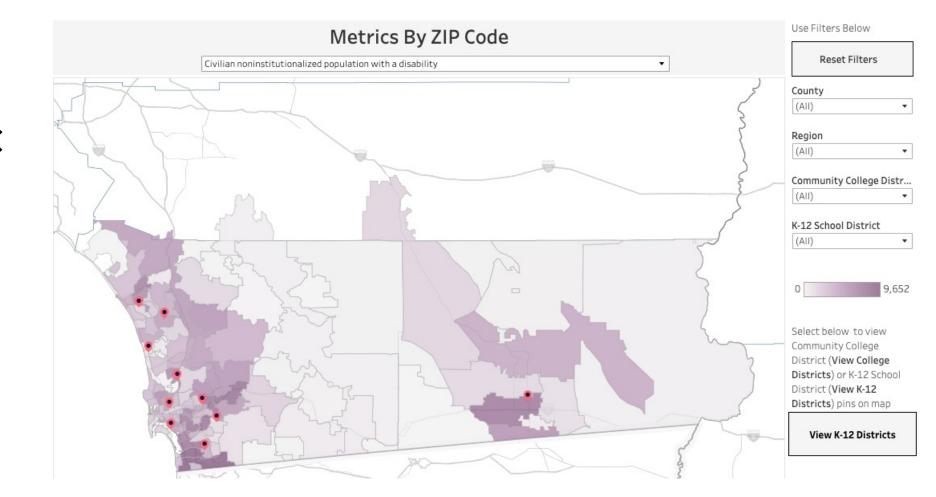




Geographic Distribution of Demographic Need San Diego-Imperial

EDD-COE
GEOGRAPHIC
DISTRIBUTION
OF
DEMOGRAPHIC
NEED







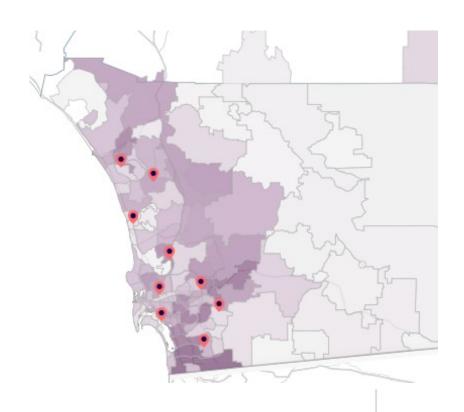


Geographic Distribution of Demographic Need San Diego-Imperial

Metrics by ZIP Code	Analysis of Need	About this Tool	Definitions and Source

			Civilian noninstitutionalized population with a disability			
Rank	ZIP Code	Region	Total	Percent		
1.	92154	South	9,652	11.8%		
2.	91911	South	9,350	11.1%		
3.	92021	East	8,315	11.8%		
4.	91977	East	8,014	12.8%		
5.	91910	South	7,927	10.9%		
6.	92114	Central	7,817	11.3%		
7.	92243	Imperial County	7,810	15.9%		
8.	92020	East	7,725	13.4%		
9.	92105	Central	7,398	10.2%		
10.	92057	North	7,265	12.7%		
11.	91950	South	7,126	12.4%		
12.	92126	Central	6,430	8.1%		
13.	92056	North	6,231	11.8%		
14.	92115	Central	6,106	9.4%		

WHERE ARE RECIPIENTS LOCATED?



Example:

We plan to serve individuals with disabilities in the top five zip codes.

Civilian noninstitutionalized population with a disability
--

Rank	ZIP Code	Region	Total	Percent
1.	92154	South	9,652	11.8%
2.	91911	South	9,350	11.1%
3.	92021	East	8,315	11.8%
4.	91977	East	8,014	12.8%
5.	91910	South	7,927	10.9%

DATA ARE UPDATED REGULARLY SO NOT ALL LMI WILL MATCH.
SEE CITATIONS IN EACH RESOURCE.



IN THE NEXT 10 MINUTES... TYPE YOUR **QUESTIONS IN** THE CHAT



SECTOR
HANDOUTS
& CAREER
ED GUIDE

EDD-COE SECTOR MAP

SUB-REGIONAL PROFILES EDD-COE GEO DIST OF NEED









SCENARIO 3

After identifying in-demand jobs, you want to know...

- 1) What (related) programs exist?
- 2) What are the student outcomes for those programs?
 - 1) What % of students obtain a living wage?
 - 2) What % of students get a job related to their field of study?

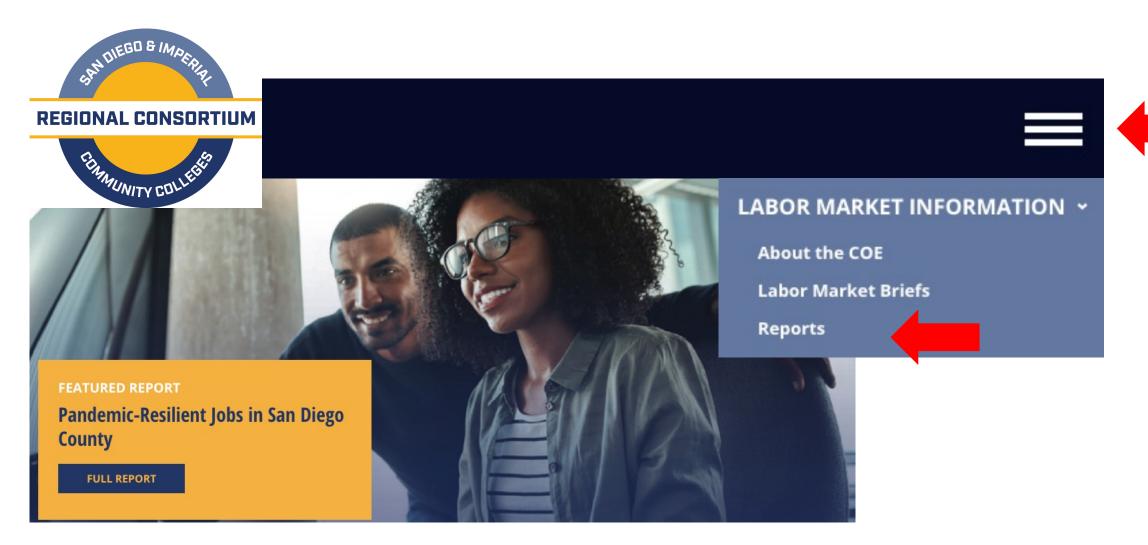
RESOURCES

- COE SOC-TOP-CIP Crosswalk
- Chancellor's Office LaunchBoard <u>Community</u>
 <u>College Pipeline</u>

STEPS

- Identify the SOC code or occupation to be trained
- 2. Find the related TOP code in the SOC-TOP-CIP crosswalk
- 3. Review student outcomes data in the Chancellor's Office LaunchBoard Community College Pipeline

COE SPECIAL REPORTS PAGE



RESILIENT JOBS

Top Jobs During the Great Recession and COVID-19 Pandemic

August 2020 San Diego County



PANDEMIC-RESILIENT JOBS

An update to the Resilient Jobs study released in August 2020

March 2021 San Diego County



Great Recession (2007-2009)

Recession-Resilient Jobs

TRADITIONAL LMI

COVID-19 (Mar-June 2020)

> Pandemic-Resilient Jobs

REAL-TIME LMI

TOTAL JOBS IN SAN DIEGO COUNTY



2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019

RECESSION-RESILIENT JOBS CRITERIA

- Less than six percent employment decline between 2007 and 2010
- Labor market demand at or above the regional average (275 annual job openings)
- Median hourly earnings are at or above \$15.99*

^{*}This is considered the living wage for a single adult in San Diego County according to the CA Community Colleges Chancellor's Office (CCCCO)

RECESSION-RESILIENT JOBS CRITERIA

800 Occupational (SOC) Codes

64 Recession-Resilient Jobs (Appendix A)

36 Recession-Resilient, "Middle-Skill" Jobs (p. 5-6)

Great Recession (2007-2009)

Recession-Resilient Jobs

TRADITIONAL LMI

COVID-19 (Mar-June 2020)

> Pandemic-Resilient Jobs

REAL-TIME LMI

PANDEMIC-RESILIENT JOBS DEFINITION

- Top 50 jobs per month with the most number of online job postings between March 1 and June 30, 2020
- Occupations that made the top 50 jobs list at least once during this period was included in the exhibit

NOTE: The San Diego-Imperial COE is reluctant to produce reports based on online job postings data alone due to its limitations.

Exhibit 4: Occupations that Made the Monthly Top 50 Jobs List in San Diego County, March-June 2020

	Occupational Title	March 2020	April 2020	May 2020	June 2020	# of Months in the Top 50 Jobs
1.	Accountants and Auditors*	•	•	•	•	4
2.	Bookkeeping, Accounting, and Auditing Clerks	•	•	•	•	4
3.	Combined Food Preparation and Serving Workers, Including Fast Food	•	•	•	•	4
4.	Computer Occupations, All Other*	•	•	•	•	4
5.	Computer Systems Analysts*	•	•	•	•	4
6.	Computer User Support Specialists*	•	•	•	•	4
7.	Customer Service Representatives	•	•	•	•	4
8.	Engineering Technicians, Except Drafters, All Other	•	•	•	•	4
9.	Engineers, All Other	•	•	•	•	4
10.	Financial Managers*	•	•	•	•	4

RESILIENT JOBS

Top Jobs During the Great Recession and COVID-19 Pandemic

August 2020 San Diego County



PANDEMIC-RESILIENT JOBS

An update to the Resilient Jobs study released in August 2020

March 2021 San Diego County



PANDEMIC-RESILIENT JOBS - UPDATE

- 370,000 online job postings analyzed over 10 months (Mar-Dec) to identify "pandemic-resilient jobs"
- 74 pandemic-resilient jobs (Aug 2020 study had 66 jobs)
- 30 occupations consistently made the top 50 jobs list each month in the 10 months analyzed
 - Except 2 occupations, these occupations matched the top 30 pandemic-resilient jobs in the U.S.

Exhibit 1: Occupations that Made the Monthly Top 50 Jobs List in San Diego County, March - December 2020

	Occupational Title	Mar 2020	Apr 2020	May 2020	Jun 2020	Jul 2020	Aug 2020	Sep 2020	Oct 2020	Nov 2020	Dec 2020	# of Months in the Top 50 Jobs
1.	Accountants and Auditors*	•	•	•	•	•	•	•	•	•	•	10
2.	Bookkeeping, Accounting, and Auditing Clerks	•	•	•	•	•	•	•	•	•	•	10
3.	Combined Food Preparation and Serving Workers, Including Fast Food	•	•	•	•	•	•		*	•	•	10
4.	Computer Occupations, All Other*	•	•	•	•	•	•	•	•	•	•	10
5.	Computer User Support Specialists*	•	•	•	•	•	•	•	•	•	•	10
6.	Customer Service Representatives		•	•	•	•	•	•	•	•	•	10
7.	Engineering Technicians, Except Drafters, All Other	•	•	•	•	•	•	•	•	•	•	10
8.	Financial Managers*	•	•	•	•	•	•	•	•	•	•	10
9.	First-Line Supervisors of Retail Sales Workers			•	•							10
10.	General and Operations Managers*	•		•		•	•		•	•	•	10
11.	Heavy and Tractor-Trailer Truck Drivers	•	•	•	•	•	•	•	•	•	•	10
12.	Human Resources Specialists	•	•	•	•	•	•	•	•	•	•	10
13.	Janitors and Cleaners, Except Maids and Housekeeping Cleaners	•	•	•	•	•	•	•	•	•	•	10
14.	Laborers and Freight, Stock, and Material Movers, Hand	•	•	•	•	•	•	•	•	•	•	10
15.	Licensed Practical and Licensed Vocational Nurses*	•	•		•	•	•		•	•	•	10
16.	Maintenance and Repair Workers, General*	•		•	ð•0	•		•	•	•	•	10
17.	Management Analysts*		•	•	•	•	•	•	•	•	•	10
18.	Managers, All Other*	•	•	•	•	•	•	•	•	•	•	10
19.	Marketing Managers	•	•	•	•	•	•	•	•	•	•	10
20.	Medical and Health Services Managers*	•	•	•	•	•	•	•	•	•	•	10

ONETONLINE.ORG



O*NET OnLine



Help Find Occupations Advanced Search Crosswalks Share O*NET Sites



What's New?

Updated military information included in O*NET websites



Learn More



Get O*NET news by email or RSS.

I want to be a...

Start the career you've dreamed about, or find one you never imagined.

Find It Now



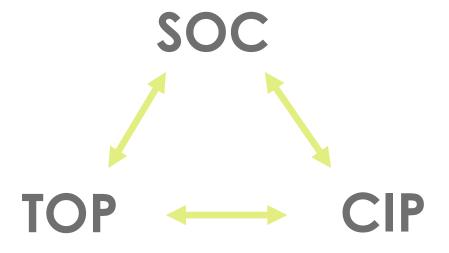
at My Next Move

STEPS

- 1. Identify the SOC code or occupation to be trained
- 2. Find the related TOP code in the SOC-TOP-CIP crosswalk
- 3. Review student outcomes data in the Chancellor's Office LaunchBoard Community College Pipeline

SOC-TOP-CIP CROSSWALK

- SOC code = occupational code
- TOP code = CA-community-college program code
- CIP code = non-CA-CC program code





TOOLS FOR YOU



Supply and Demand Tables

The COE have developed a suite of data tools to support the community college's decision-making with labor market data. Utilize these data tools to evaluate projected occupational demand and the supply of graduates from a program(s) of study.



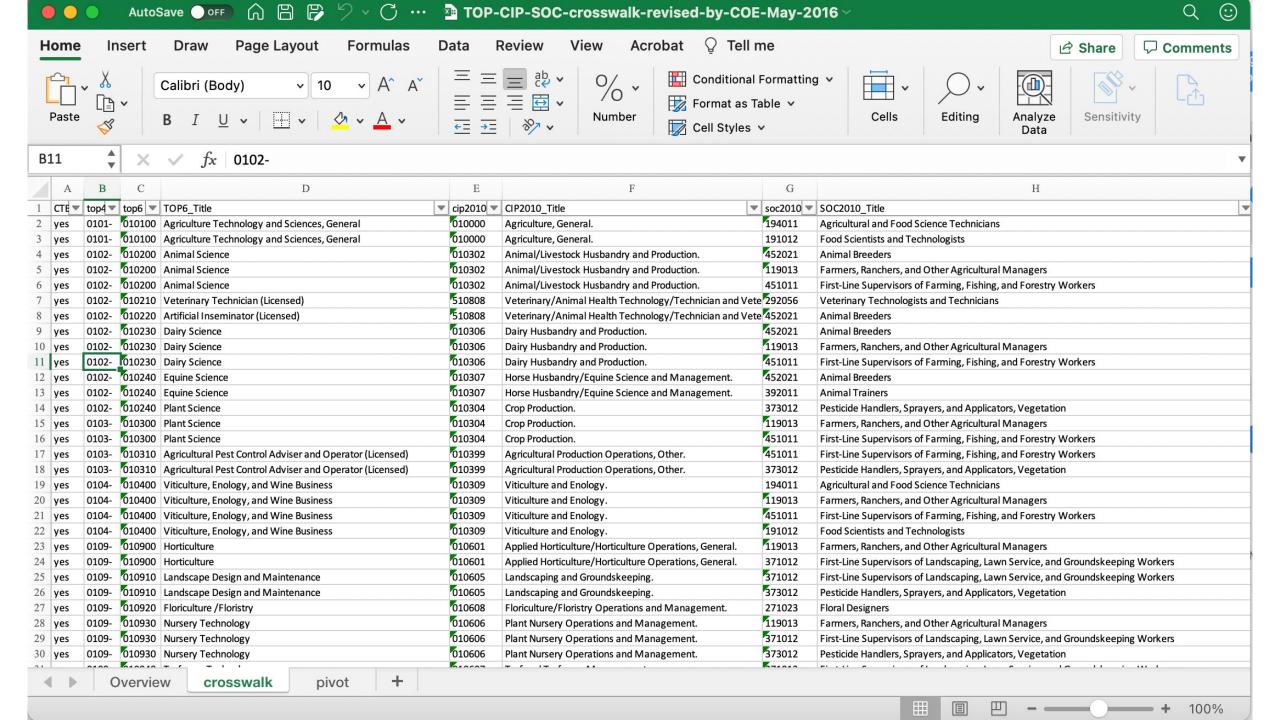
TOP-SOC Crosswalk

Match California Community College TOP code programs to Standard Occupational Classification (SOC) codes and titles.



LMI Guides

A brief overview of LMI sources, tailored to the questions that colleges commonly ask related to developing programs, curriculum, writing grants, program review, and regional planning.



STEPS

- 1. Identify the SOC code or occupation to be trained
- 2. Find the related TOP code in the SOC-TOP-CIP crosswalk
- Review student outcomes data in the Chancellor's Office LaunchBoard Community College Pipeline

≡ LaunchBoard Menu

Community College Pipeline: Overview

Interested in how the data is calculated?
See the Metric Definition Dictionary

Academic Year

2018-2019 ▼ VIEW

Export Data to CSV

O DETAILED DATA COMPARISON

2,008,787
Students Enrolled

Offerings
Learn about the number of sections, enrollments, and headcount.

Economically Disadvantaged

65%

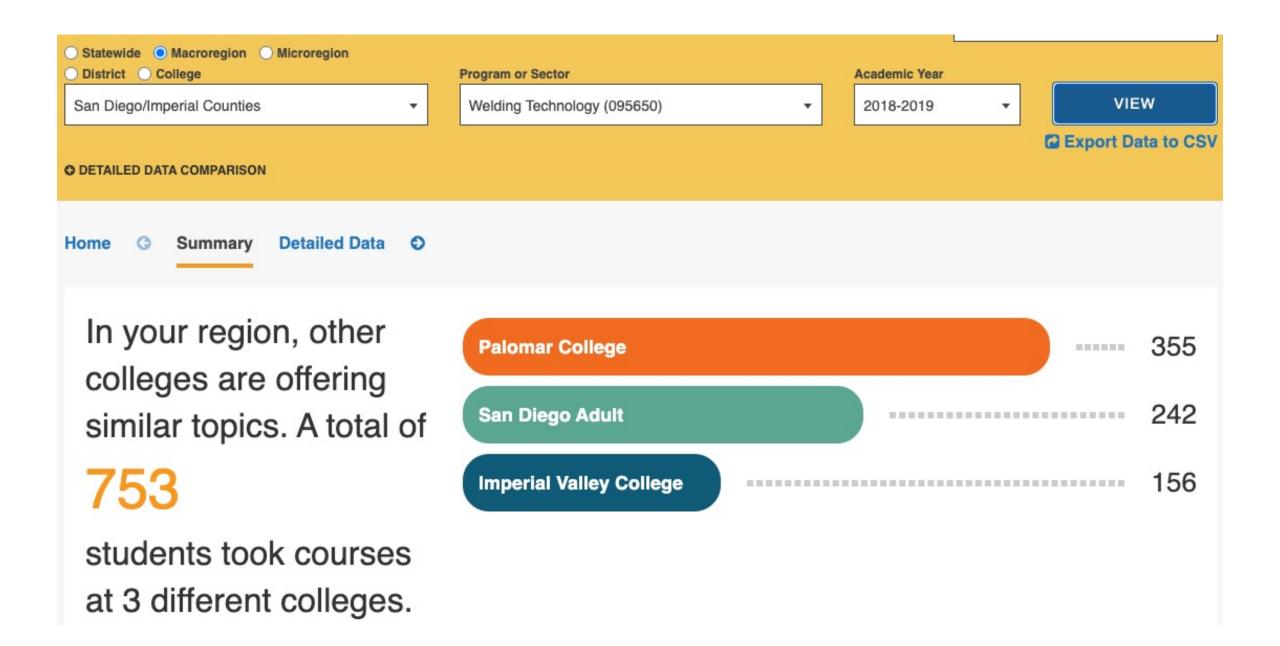
Students

Explore student characteristics including demographics, financial aid, and course-taking patterns.

Retained Fall to Spring at Any College: 71%

Milestones

Examine course success, unit loads, retention, and transfer-level course completion.



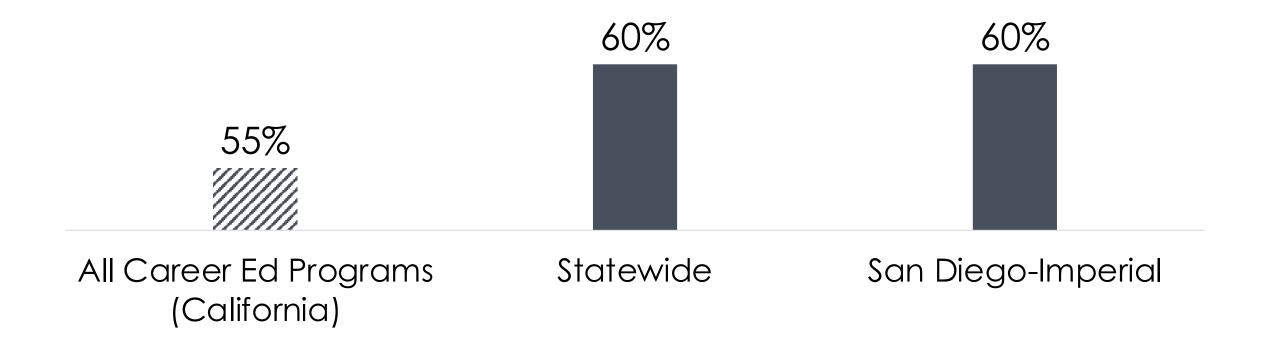
Attained the Living Wage

Among students who exited college and did not transfer to any postsecondary institution, the proportion who attained the district county living wage for a single adult measured immediately following academic year of exit

DRILL DOWN San Diego/Imperial Counties, Welding Technology (095650), 2018-2019 Time Trend 100% 80% Percent of Students 20% 0% 2011-2012 2012-2013 2013-2014 2014-2015 2015-2016 2016-2017 2017-2018 2018-2019

WHAT % OF STUDENTS EARNED A LIVING WAGE?

Real Estate (0511.00), PY2017-2018



IN THE NEXT 10 MINUTES... TYPE YOUR **QUESTIONS IN** THE CHAT



WHAT OTHER SCENARIOS DO YOU **ENCOUNTER?** SHARE IN THE CHAT



COE SOC-TOP-CIP CROSSWALK

LAUNCHBOARD: COMMUNITY COLLEGE PIPELINE







STRONG WORKFORCE FACULTY INSTITUTE:

RETHINKING THE STUDENT EXPERIENCE FOR RETENTION AND SUCCESS

This page is a resource for participants of the Strong Workforce Faculty Institute—a professional learning opportunity for faculty in the San Diego and Imperial Counties Community Colleges.

The goals of the Faculty Institute are to:

- Foster strong collaboration and engagement among faculty, researchers, and deans
- Encourage self-reflection, inquiry, and research-based decision-making
- Inspire teaching and learning from a culturally inclusive perspective

Faculty Institute participants are expected to attend two professional learning events and complete an online form, which has two parts:

- Investigative research and reflection (Sections I through IV)
- An action plan to implement ideas in the classroom (Section V)

EDUCATOR RESOURCES ~

K-12 to CC Program Finder

Counselor Resources

Counselor Conference

K14 Professional Development

MS/HS Engagement

Career Education Guide

Faculty Institute

ADD-ON TRAINING SESSIONS

In partnership with the San Diego-Imperial Center of Excellence for Labor Market Research (COE), the Regional Consortium also offered the following add-on training sessions for Faculty Institute participants:

Labor Market Information (LMI) Training

Day 1: Introduction to LMI

- Presentation Slides
- Webinar Recording

Day 2: Overview of LMI Tools and Resources

- Presentation Slides
- Webinar Recording
- LMI Resource Sheet

Day 3: Application of LMI Tools and Resources

- Presentation Slides
- · Webinar Recording

THANK YOU TO OUR TEAM!

Robert Chu
John Edwards
Priscilla Fernandez
Tina Ngo Bartel

Heather Cavazos

Monica Rosas

Christopher Yerkes

Sarah Burns







CHECK YOUR CALENDAR FOR REFLECTION SESSIONS TOMORROW AT 2 P.M.

- If you have difficulty accessing the Zoom links...
 - Counseling faculty, contact Monica Rosas at monica.rosas@gcccd.edu
 - Instructional faculty, contact Robert Chu at rchu@miracosta.edu