

Regional Strong Workforce Program (SWP)

Mid-Year Meeting

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Developing an Approach



Sector Profiles

Developed by Key Talent

Key Talent Leverage Regional Partners

Other Regional Reports, Online Tools



Data Driven Decision Making

Identify Key Findings in Profiles

Steering Committee, CTE Leadership, Faculty



Sector Focus Groups

Discuss Key Findings and Identify Next Steps

Faculty, Steering Committee, CTE Leadership



Regional Planning

Informs the Development of the 2020 Regional Plan

Additional Reports,
Online Tools

SECTOR & COLLEGES	TOPICS DISCUSSED	SUGGESTED RECOMMENDATIONS
Life Sciences & Biotech • MiraCosta • Miramar • Southwestern	Large demand, small supply: Biotechnology and Biomedical Technology (TOP 043000) provides only 51 awards Enrollment numbers are low for existing programs: While there is high labor market demand, few students enroll in existing Biotechnology Employers are filling the gap with candidates who have bachelor's degrees or higher: This leads to high employee turnover once an overqualified individual gets his/her "foot through the door" and move on to higher positions. Developing programs south of Interstate 8 (I-8) was challenging: Southwestern College developed a biotechnology program in the past, but students did not want to commute north of the I-8 There is no program in the region for Chemical Technology (095400): 095400 can train for three LS & Biotech middle-skill jobs. The aggregate labor market demand for these three occupations is 123 annual job openings between 2017 and 2022. Outcomes from Medical Laboratory Technology (120500) are not linked to the Life Sciences & Biotech sector: 120500 is a Health Care TOP code at the state level, but Miramar's program is more closely related to the Life Sciences & Biotech sector.	As a region, we should: • Conduct a marketing campaign that: • Encourage students across the region to enroll in existing programs if they are interested in the sector MiraCosta, Miramar, Southwestern and other colleges interested in creating a program should: •Set a goal to reach specific enrollment numbers •Dedicate funding to market their biotechnology programs to job •seekers and high school students in their local area •Work with the LS & Biotech DSN to set a goal and increase the number of internships, placements and work-based learning opportunities with employers •Align curricula across colleges: Biomanufacturing associate degree programs can funnel into MiraCosta's biomanufacturing bachelor's degree program. However, curricula must first align to meet the bachelor's degree program's prerequisites

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Virtually all top middle-skill jobs across the Priority & Emerging (P&E) Sectors have supply gaps in San Diego County.	Increase program supply using sector strategies
It is unclear if programs are training exactly for what employers are looking for: We do not know who sits on the CTE advisory groups; we do not know the makeup of employers and/or industries on the advisory groups.	 Create an inventory of the skills and third-party credentials taught at each college across credit, noncredit and not-for-credit (feebased) programs Create an inventory of CTE programs and their advisory groups to confirm that a representative sample of employers across the region are providing feedback on curriculum
Several programs do not report their outcomes (supply) data to the Chancellor's Office, so their awards are not included in the demand and supply analysis: •Not-for-credit (fee-based) programs •Some noncredit programs •Adult Education •Apprenticeship programs •External/nonprofit training providers	 Develop a standardized way to track not-for-credit program outcomes at each college: If the colleges do not have a standardize method of tracking not-for-credit programs, then they will continue to not be included in the gap analysis. Create a list of fee-based, not-for-credit programs, adult education programs, apprenticeships, and nonprofit programs: If we do not have outcomes data for these programs, then we should, at minimum, include a list of these programs in our analyses to illustrate how many programs are available.
Low retention is an issue for all P&E Sectors, except Health Care.	 Design programs to meet the needs of underrepresented students: Instructors, counselors and staff should be required to train for cultural competency. Provide "train-the-trainer" or "how to teach" professional development: Faculty may be industry experts but not have pedagogical training, or faculty may need a refresher on how to best teach CTE-specific subjects.
There are issues in the data reporting for certificates and degrees (awards). The Center of Excellence marked the names of colleges that have program awards reported in MIS Data Mart (as of Feb 2018) but not in LaunchBoard, and vice versa in the demand and supply tables for each sector.	•Prioritize data quality and Code Alignment for our programs: If programs are coded incorrectly, then the demand and supply analysis does not show an accurate picture of labor gaps •Review the markings in the demand and supply tables and check for accuracy with internal reports

OCCUPATIONAL TITLE	AVERAGE ANNUAL OPENINGS (2017-22)	SUPPLY GAP/ OVERSUPPLY	AVERAGE ANNUAL AWARDS (2015-17)	TOP6 TITLE	TOP6 OR CIP	COLLEGE	COLLEGE SUPPLY (3-YR AVG)
				Electronic Game Design	061420	Already accounted for	0
				Computer Software Development	070700	Already accounted for	0
						Grossmont+	2
						MiraCosta	10
6.6						San Diego Continuing Ed+	6
Software Developers, Applications	875	Supply Gap	40	Software Applications	070210	San Diego City+	0
						San Diego Miramar	2
						Southwestern	1
						Palomar*	0
				Computer Software and Media Applications, Other	CIP 11.0899	Non-community college provider	19
				Computer Programming	070710	Already accounted for	0
						Palomar	20
						San Diego Mesa*	0
S-11				Computer Software Development	070700	Southwestern*	0
Software Developers, Systems Software	667	Supply Gap	20	Development		San Diego City*	0
						MiraCosta*	0
				Computer Programming	070710	Already accounted for	0

ENVIRONMENTAL CONTROL TECHNOLOGY (HVAC)

OCCUPATIONS:



Heating, Air Conditioning, and Refrigeration Mechanics and Installers

2016-19 Average Annual Openings

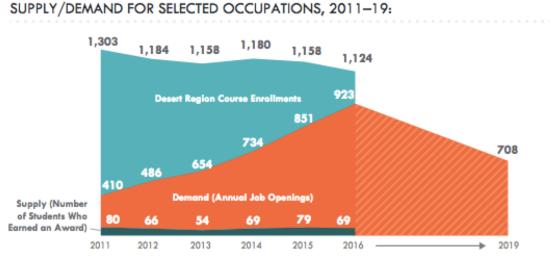
488

t Metal

Sheet Metal Workers

220

EMPLOYMENT OUTCOMES FOR ALL PROGRAM EXITERS, 2014–15:



Regio	n vs		CA
51%	Earning a liv	ing wage	65%
66%	Employed within	n six months	75%
32%	Median change	in earnings	41%
\$24,29	Median annua	l earnings	\$35,146

REGIONAL COLLEGES OFFERING RELEVANT PROGRAMS:

	*	(a)	San Bernadino
Programs Offered in 2017–18 Course Catalog	Desert	City	Valley
2015–16 Awards	3 17	3 27	4 16
2015–16 Course Enrollments	420	381	275
Transfers to Four-Year Institutions 2014–15	0	0	0







The Sacramento Advanced Manufacturing sector



Source: InfoGroup, Reference USA, 2018

Hiring challenges in the Advanced Manufacturing sector

Numerous reports note that U.S. manufacturing employers have enormous challenges recruiting and hiring skilled workers.

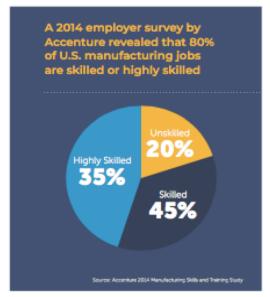


of manufacturing employers nationwide said they have **moderate or extreme difficulty** recruiting skilled workers for advanced technology operations.

Source: PwC and Manufacturing Institute, "Upoliting Manufacturing," June 2006

Hardest-to-fill positions in the Sacramento region in the last year

Produ	ction workers			
Manu	acturing machine	e operators		
Electr	cal and mechanic	cal enginee	rs	
Field :	ervice technician	s		
Maint	nance and repair	r workers		
Projec	t managers			
Softw	re developers an	d engineer	s	
Book	eeping			
Busin	ss management/	analysts		
Sales	nd account reps			
Forkli	operators			
Custo	ner service reps			



Source: Burning Glass, Labor Insight, 2018.4

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Discussion Topics

- 1. Sector Profiles
 - Other Regional Reports or Resources
- 2. Data Driven Decision Making
 - Stakeholder Involvement
- 3. Sector Focus Groups
 - Stakeholder Involvement
- 4. Regional Planning
 - -Additional Reports, Resources, Tools Needed

Thank You!

Join our LinkedIn Group - Centers of Excellence

Visit us online at www.coeccc.net

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