

## Summary

<b>Program LMI Endorsement</b>	Endorsed: All LMI Criteria Met <input type="checkbox"/>	Endorsed: Some LMI Criteria Met <input checked="" type="checkbox"/>	Not LMI Endorsed <input type="checkbox"/>
<b>Program LMI Endorsement Criteria</b>			
	Yes <input type="checkbox"/>		No <input checked="" type="checkbox"/>
Supply Gap:	<p><i>Comments:</i> there is projected to be <b>217 annual job openings</b> in the South Central Coast (SCC) Region for these computer support occupations, which <b>is less than the 404 awards conferred by educational institutions</b>.</p> <p>However, the educational programs that train for these occupations also train for 23 other occupations that account for 2,315 annual openings. Therefore, <b>supply is overstated and there is likely a supply gap for these networking and cybersecurity occupations</b>.</p>		
	Yes <input checked="" type="checkbox"/>		No <input type="checkbox"/>
Self-Sufficiency Standard Living Wage <sup>1</sup> :	<p><i>Comments:</i> <b>all (100%) annual job openings</b> for these computer support occupations <b>have entry-level hourly wages above the Santa Barbara County living wage of \$29.80</b>.</p>		
	Yes <input checked="" type="checkbox"/>		No <input type="checkbox"/>
Education:	<p><i>Comments:</i> though <b>the majority (84%) of annual job openings</b> for these computer support occupations typically require <b>some college, no degree</b>. <b>Approximately 40% of workers in the field have completed some college or an associate degree as their highest level of education</b>.</p>		
<b>Additional Considerations</b>			
Emerging Occupation(s):	Yes <input type="checkbox"/>	Some <input type="checkbox"/>	No <input checked="" type="checkbox"/>
	<i>Comments:</i> N/A		

The South Central Coast Center of Excellence for Labor Market Research (SCC COE) prepared this report to determine whether there is a supply gap in the SCC regional labor market related to two middle-skill occupations:

- *Computer Network Support Specialists (15-1231)*
- *Computer User Support Specialists (15-1232)*

Based on the available data there is likely a supply gap for these computer support occupations. While the supply figures in this report are greater than demand, the educational programs that train for these occupations also train for 23 other occupations that account for 2,315 annual openings. Therefore, supply is overstated and there is likely a supply

<sup>1</sup> The living wage endorsement criteria in this report uses the University of Washington's Center for Women's Welfare Self-Sufficiency Standard, which the COE refers to as a living wage; the living wage for Los Angeles, San Luis Obispo, Santa Barbara, and Ventura counties, last updated in March 2024.

gap for these occupations. Additionally, entry-level wages are above the Self-Sufficiency Standard living wage and typical education requirements for these occupations align with a community college education. **Therefore, due to some of the regional labor market criteria being met, the COE endorses this proposed program.**

Exhibit 1 lists the occupational demand, supply, typical entry-level education, and educational attainment for the occupations included in this report.

Exhibit 1: Labor Market Endorsement Summary

Occupation (SOC)	Demand (Annual Openings)	Supply (CC and Non-CC)	Entry-Level Hourly Earnings (25 <sup>th</sup> Percentile)	Typical Entry-Level Education	Community College Educational Attainment
Computer Network Support Specialists (15-1231)	36	Accounted for below	Santa Barbara: \$30.79	Associate degree	40%
Computer User Support Specialists (15-1232)	181	404	Santa Barbara: \$31.61	Some college, no degree	40%
<b>Total</b>	<b>217</b>	<b>404</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>

### Demand:

- The number of jobs related to these computer support occupations is projected to decrease 2% through 2029 in the SCC region. There is projected to be 217 annual job openings due to retirements and replacements.
- Hourly entry-level wages for these computer support occupations in Santa Barbara County range from \$30.79 to \$31.61; all (100%) annual job openings have entry-level wages above the Self-Sufficiency Standard living wage (\$29.80 for Santa Barbara County).
- There were 680 online job postings for these computer support occupations over the past 12 months. The highest number of postings were for IT specialists and help desk technicians.
- The typical entry-level education for these computer support occupations ranges from some college, no degree, to an associate degree.
- Approximately 40% of workers in the field have completed some college or an associate degree as their highest level of education.

### Supply:

- There was an average of 370 awards conferred by seven community colleges in the SCC Region from 2021 to 2024.
- Non-community college institutions conferred 34 related awards from 2020 to 2023.
- SCC community college students that exited Computer Information System (0702.00) programs in the 2022-23 academic year had a median annual wage of \$44,188 (\$21.24 per hour) after exiting the program and 39% attained the regional living wage (Self-Sufficiency Standard).
- Throughout the SCC Region, 86% of Computer Information System (0702.00) students that exited their program in 2021-22 reported that they are working in a job closely related to their field of study.

# Demand

## Occupational Projections:

Exhibit 2 compares historical and projected changes in employment for these occupations compared to the number of jobs in 2019. Notably, employment for these computer support occupations in Santa Barbara County grew 47% from 2019 to 2024, which is significantly higher when compared to employment for these occupations in California, the SCC Region, and all other counties in the SCC region. From 2024 to 2029, employment for these computer support occupations is projected to steadily decline in all counties in the SCC region, with the exception of Ventura County, where employment is projected to remain flat.

Exhibit 2: Historical and Projected Employment for Computer Support Occupations in the SCC Region, 2019-2029

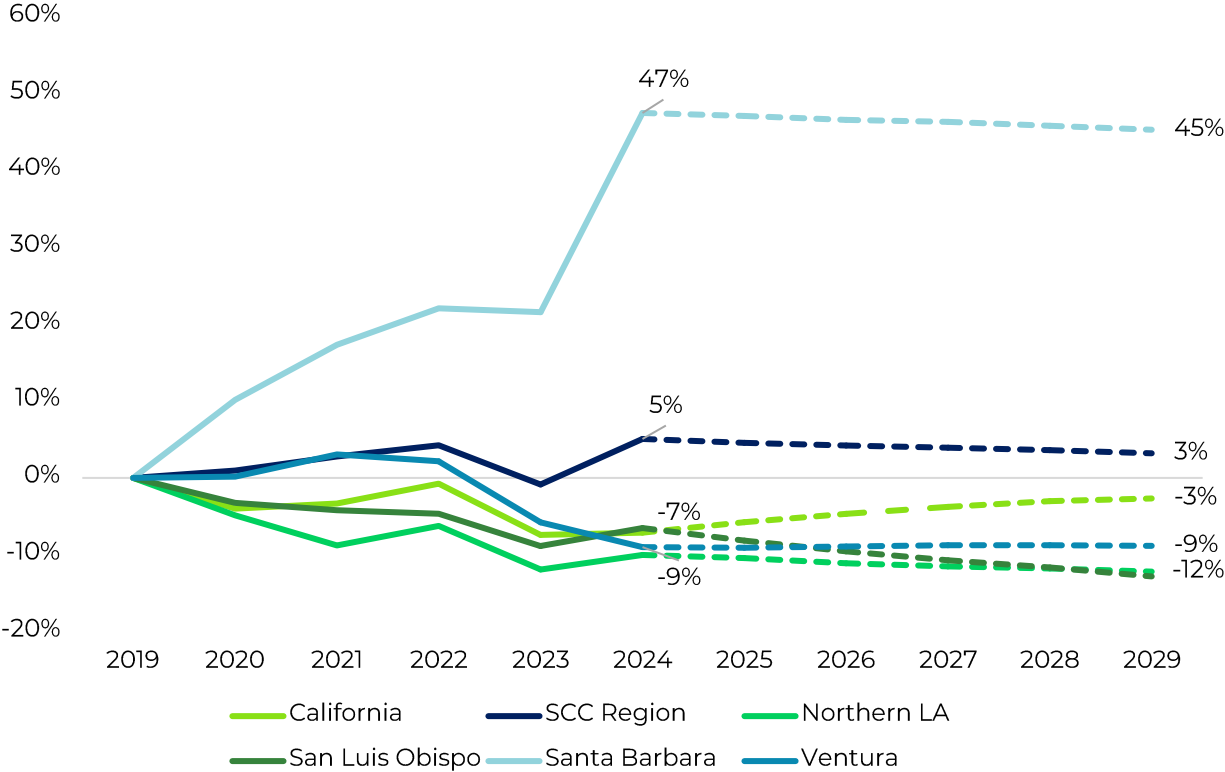


Exhibit 3 shows the five-year occupational demand projections for these computer support occupations. In the SCC Region, the number of jobs related to these occupations is projected to decrease 2% through 2029. There is projected to be 217 jobs available annually. Santa Barbara County has the highest number of jobs and annual openings, but employment is projected to slightly decline through 2029.

Exhibit 3: Occupational Demand in the SCC Region<sup>2</sup>

Geography	2024 Jobs	2029 Jobs	2024-2029 Change	2024-2029 % Change	Annual Openings
Northern LA	664	648	(16)	(2%)	42
San Luis Obispo	401	374	(27)	(7%)	25
Santa Barbara	1,149	1,132	(17)	(1%)	72

<sup>2</sup> Five-year change represents new job additions to the workforce. Annual openings include new jobs and replacement jobs that result from retirements and separations.

Geography	2024 Jobs	2029 Jobs	2024-2029 Change	2024-2029 % Change	Annual Openings
Ventura	1,101	1,103	2	0.2%	71
<b>SCC Region</b>	<b>3,315</b>	<b>3,256</b>	<b>(58)</b>	<b>(2%)</b>	<b>217</b>

### Wages:

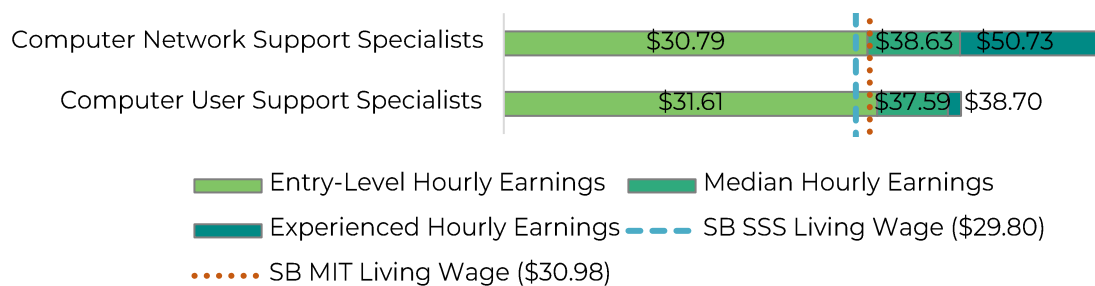
The labor market endorsement in this report considers the entry-level hourly wages for these computer support occupations in relation to the living wage of the county where the requesting community college is located. This report was requested by Santa Barbara City College, which is in Santa Barbara County. Wages for other counties are included below to provide a complete analysis of the SCC Region.

In addition to the Self Sufficiency Standard living wage, data for the MIT Living Wage, updated on February 10, 2025, is provided as a reference. Currently, the MIT Living Wage in Santa Barbara County is \$30.98. Both figures account for geographic-specific costs of necessities such as housing, food, health care, and transportation to assess the cost of living, and are notated in the exhibits below.

### Santa Barbara

All (100%) annual openings for these computer support occupations have entry-level wages above the Self-Sufficiency Standard living wage for one adult (\$29.80 in Santa Barbara County). Typical entry-level hourly wages range between \$30.79 and \$31.61. Exhibit 4 shows the wage range for each of these computer support occupations in Santa Barbara County and how they compare to the regional living wage, sorted from lowest to highest entry-level wage.

Exhibit 4: Wages by Occupation in Santa Barbara County



### Northern Los Angeles

All (100%) annual openings for these computer support occupations have entry-level wages above the Self-Sufficiency Standard living wage for one adult (\$24.03 in Los Angeles County). Typical entry-level hourly wages range between \$27.30 and \$28.12. Exhibit 5 shows the wage range for each of these computer support occupations in Northern Los Angeles and how they compare to the regional living wage, sorted from lowest to highest entry-level wage.

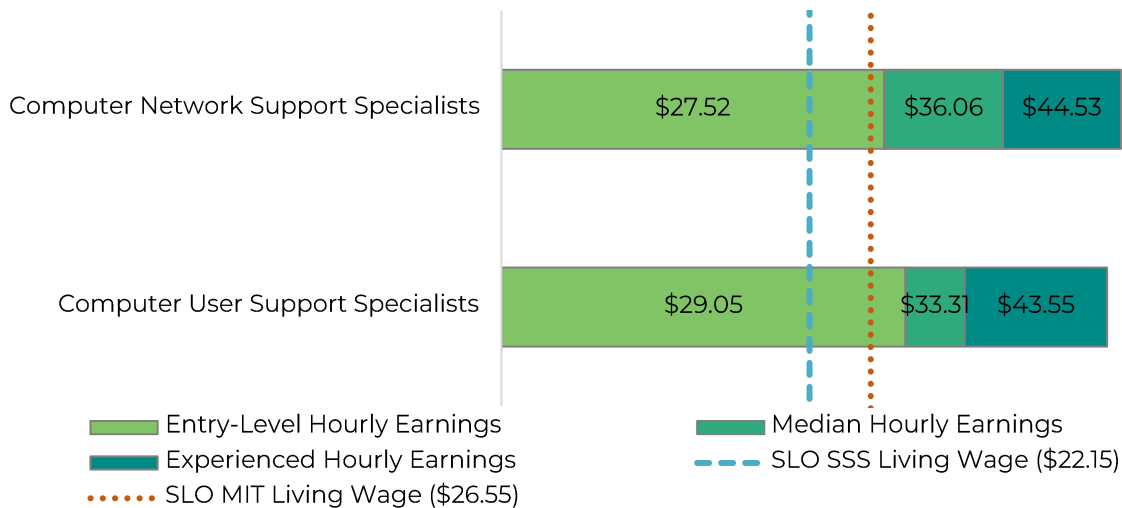
Exhibit 5: Wages by Occupation in Northern Los Angeles County



### San Luis Obispo

All (100%) annual openings for these computer support occupations have entry-level wages above the Self-Sufficiency Standard living wage for one adult (\$22.15 in San Luis Obispo County). Typical entry-level hourly wages range between \$27.52 and \$29.05. Exhibit 6 shows the wage range for each of these computer support occupations in San Luis Obispo County and how they compare to the regional living wage, sorted from lowest to highest entry-level wage.

Exhibit 6: Wages by Occupation in San Luis Obispo County

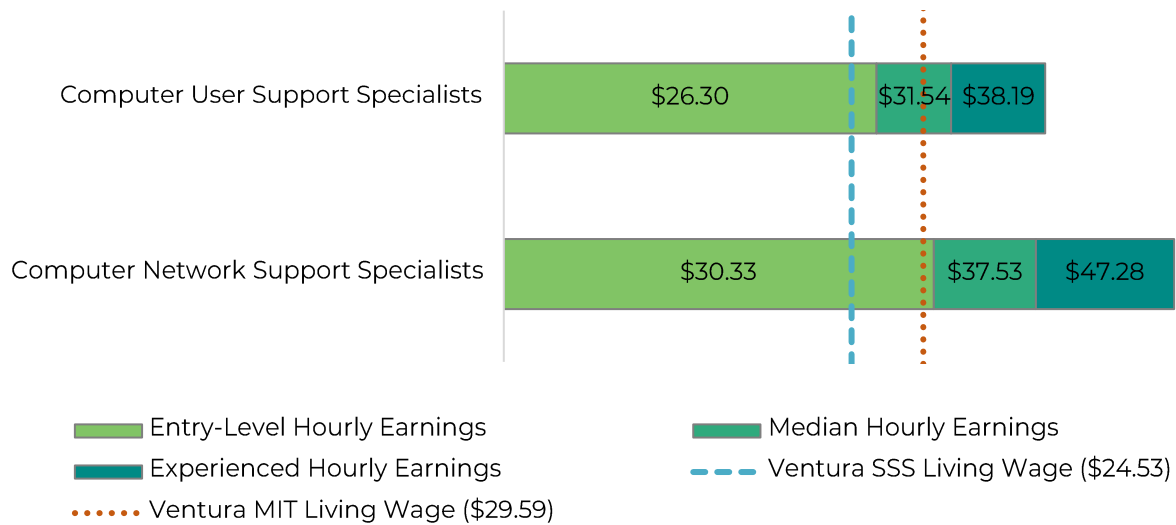


### Ventura

All (100%) annual openings for these computer support occupations have entry-level wages above the Self-Sufficiency Standard living wage for one adult (\$24.53 in Ventura County).

Typical entry-level hourly wages range between \$26.30 and \$30.33. Exhibit 7 shows the wage range for each of these computer support occupations in Ventura County and how they compare to the regional living wage, sorted from lowest to highest entry-level wage.

Exhibit 7: Wages by Occupation in Ventura County



### Job Postings:

There were 680 online job postings related to these computer support occupations listed in the past 12 months in the SCC Region. Exhibit 8 shows the number of job postings by county. Approximately 19% of job postings were in Ventura County.

Exhibit 8: Number of Job Postings by County (n=680)

County	Job Postings	Percentage of Job Postings
Ventura	277	19%
Santa Barbara	205	14%
Northern Los Angeles	139	10%
San Luis Obispo	59	4%
<b>Total Postings</b>	<b>680</b>	<b>100%</b>

Of the 680 postings, the majority (89%) were for *Computer User Support Specialist (15-1232)*, followed by *Computer Network Support Specialists (15-1231)* as shown in Exhibit 9.

Exhibit 9: Number of Job Postings by Occupation (n=680)

Occupation	Job Postings	Percentage of Job Postings
Computer User Support Specialists	605	89%
Computer Network Support Specialists	75	11%
<b>Total Postings</b>	<b>680</b>	<b>100%</b>

The top employers in the region, by number of job postings, are shown in Exhibit 10.

Exhibit 10: Top Employers by Number of Job Postings (n=680)

Employer	Job Postings	Percentage of Job Postings
TEKsystems	35	2%
Aerotek	16	1%
Best Buy	15	1%
Allegis Group	14	1%
Apple	13	1%
Johanson Technology	10	1%
Robert Half	10	1%
Ledgent	8	1%
Lyneer Staffing Solutions	8	1%
Indotronix International Corporation	8	1%

The top specialized, soft, and computer skills listed by those most frequently mentioned in job postings (denoted in parentheses) are shown in Exhibit 11.

Exhibit 11: Top Skills by Number of Job Postings (n=680)

Top Specialized Skills	Top Soft Skills	Top Computer Skills
Technical Support (255)	Troubleshooting (Problem Solving) (447)	Active Directory (172)
Help Desk Support (230)	Communication (356)	Operating Systems (148)
Active Directory (172)	Customer Service (310)	Microsoft Office (135)
Operating Systems (145)	Management (228)	Microsoft 365 (118)
Peripheral Devices (133)	Problem Solving (197)	Microsoft Windows (72)
Computer Hardware (132)	Information Technology (168)	Mac OS (66)
Network Troubleshooting (119)	Detail Oriented (166)	Firewall (62)
Microsoft 365 (118)	Operations (154)	Microsoft Windows 10 (59)
Computer Science (114)	Microsoft Office (135)	Microsoft Outlook (57)
Technical Issues (102)	Verbal Communication Skills (107)	Microsoft Excel (56)

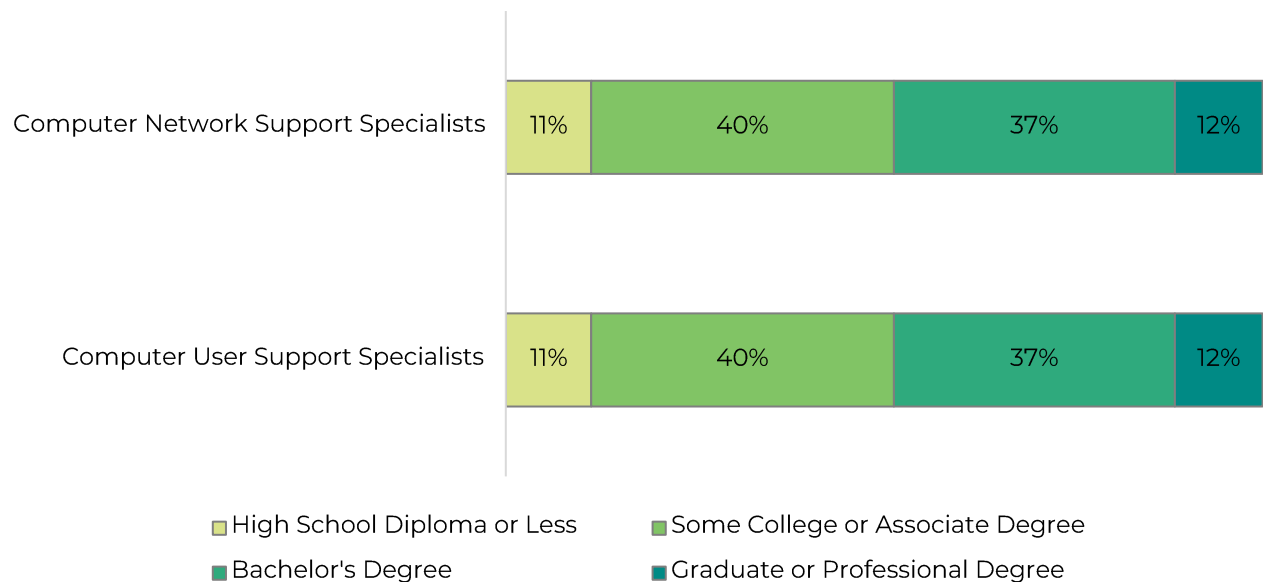
## Educational Attainment:

The Bureau of Labor Statistics (BLS) lists the following as the typical entry-level education for these computer support occupations:

- Some college, no degree
  - *Computer User Support Specialists (15-1232)*
- Associate degree
  - *Computer Network Support Specialists (15-1231)*

The national-level educational attainment data indicates 40% of workers in the field have completed some college or an associate degree as their highest level of education. Exhibit 12 shows the educational attainment for each occupation, sorted by highest community college educational attainment to lowest.

Exhibit 12: National-level Educational Attainment for Occupations



Of the 52% of the cumulative job postings for these computer support occupations that listed a minimum education requirement in the SCC Region, 64% (225) requested a high school diploma or an associate degree, 34% (119) requested a bachelor's degree, and 3% (9) requested a graduate or professional degree.

## Educational Supply

### Community College Supply:

Exhibit 13 shows the three-year average number of awards conferred by community colleges in the related TOP codes:

- Information Technology General (0701.00)
- Computer information Systems (0702.00)
- Computer Software Development (0707.00)
- Computer Programing (0707.10)
- Computer Infrastructure and Support (0708.00)
- Computer Networking (0708.10)
- Computer Support (0708.20)

No awards were conferred for the following TOP codes:

- Computer System Analysis (0707.30)
- World Wide Web Administration (0709.00)

The college with the most completions in the region is Allan Hancock (134), followed by Oxnard (67), and Moorpark (61).

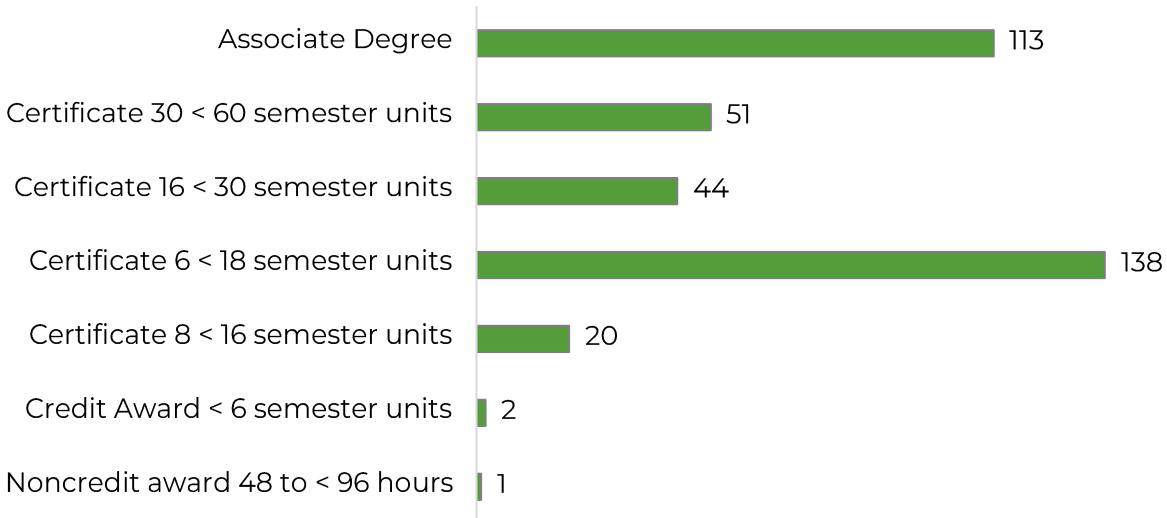
Exhibit 13: Regional Community College Awards (Certificates and Degrees), 2021-2024

TOP Code	Program	College	2021-2022 Awards	2022-2023 Awards	2023-2024 Awards	3-Year Award Average
0701.00	Information Technology, General	Allan Hancock	1	0	0	0
		Cuesta	0	0	1	0
<b>Supply Subtotal/Average</b>			<b>1</b>	<b>0</b>	<b>1</b>	<b>0</b>
0702.00	Computer Information Systems	Allan Hancock	19	4	363	129
		Antelope Valley	16	11	27	18
		Cuesta	7	10	12	10
		Moorpark	18	19	44	27
<b>Supply Subtotal/Average</b>			<b>47</b>	<b>29</b>	<b>406</b>	<b>161</b>
0707.00	Computer Software Development	Santa Barbara	0	0	2	1
<b>Supply Subtotal/Average</b>			<b>0</b>	<b>0</b>	<b>2</b>	<b>1</b>
0707.10	Computer Programming	Antelope Valley	16	14	16	15
		Moorpark	0	4	2	2
<b>Supply Subtotal/Average</b>			<b>16</b>	<b>18</b>	<b>18</b>	<b>17</b>
0708.00	Computer Infrastructure and Support	Cuesta	7	14	20	14
		Moorpark	15	26	53	31
		Oxnard	48	69	24	47
		Santa Barbara	3	0	5	3
<b>Supply Subtotal/Average</b>			<b>73</b>	<b>109</b>	<b>102</b>	<b>95</b>

TOP Code	Program	College	2021-2022 Awards	2022-2023 Awards	2023-2024 Awards	3-Year Award Average
0708.10	Computer Networking	Allan Hancock	8	5	3	5
		Antelope Valley	26	12	21	20
		Canyons	4	5	17	9
		Moorpark	18	19	44	27
		Oxnard	0	0	59	20
		Santa Barbara	6	2	9	6
<b>Supply Subtotal/Average</b>			<b>62</b>	<b>43</b>	<b>153</b>	<b>86</b>
0708.20	Computer Support	Cuesta	1	14	15	10
<b>Supply Subtotal/Average</b>			<b>1</b>	<b>14</b>	<b>15</b>	<b>10</b>
<b>Supply Total/Average</b>			<b>200</b>	<b>213</b>	<b>697</b>	<b>370</b>

Exhibit 14 shows the annual average community college awards by type from 2021-22 to 2023-24. The plurality of the awards are for associate degrees, followed by certificates between 6 and less than 18 semester units and certificates between 30 and less than 60 semester units.

Exhibit 14: Annual Average Community College Awards by Type, 2021-2024



## Community College Student Outcomes:

Exhibit 15 shows the Strong Workforce Program (SWP) metrics for Computer Information Systems (0702.00) programs at Santa Barbara City College (SBCC), the SCC Region, and California. Of the 1,416 Computer Information Systems students throughout the region in the 2023-24 academic year, 5% (69) attended SBCC.

SBCC students that exited Computer Information Systems (0702.00) programs in the 2022-23 academic year had much higher median annual earnings (\$65,614 or \$31.55 per hour) compared to all Computer Information Systems (0702.00) students in the SCC Region (\$44,188 or \$21.24 per hour); both figures are higher than statewide (\$41,544 or \$19.97 per hour). A higher percentage of SBCC Computer Information Systems (0702.00) students (56%) attained the living wage when compared to SCC (39%) and statewide (39%) Computer Information Systems (0702.00) students.

Exhibit 15: Computer Information Systems (0702.00)  
Strong Workforce Program Metrics, 2023-24<sup>3,4</sup>

SWP Metric	SBCC	SCC Region	California
SWP Students	69	1,416	24,370
SWP Students Who Earned 9 or More Career Education Units in the District in a Single Year	33%	34%	37%
SWP Students Who Completed a Noncredit CTE or Workforce Preparation Course	Data unavailable	72%	68%
SWP Students Who Earned a Degree or Certificate or Attained Apprenticeship Journey Status	Data unavailable	12%	5%
SWP Students Who Transferred to a Four-Year Postsecondary Institution (2022-23)	Data unavailable	9%	8%
SWP Students with a Job Closely Related to Their Field of Study (2021-22)	Data unavailable	86%	71%
Median Annual Earnings for SWP Exiting Students (2022-23)	\$65,614 (\$31.55)	\$44,188 (\$21.24)	\$41,544 (\$19.97)
Median Change in Earnings for SWP Exiting Students (2022-23)	15%	30%	28%
SWP Exiting Students Who Attained the Living Wage (2022-23)	56%	39%	39%

<sup>3</sup> All SWP metrics are for 2023-24 unless otherwise noted. Metrics data is sourced from DataVista.

<sup>4</sup> Data that is not available in DataVista is denoted in Exhibit 15 shows the Strong Workforce Program (SWP) metrics for Computer Information Systems (0702.00) programs at Santa Barbara City College (SBCC), the SCC Region, and California. Of the 1,416 Computer Information Systems students throughout the region in the 2023-24 academic year, 5% (69) attended SBCC.

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### Non-Community College Supply:

To comprehensively analyze the regional supply, it is crucial to include data from other institutions offering related training programs. Over the past three years (2020-2023), there were 34 awards conferred by non-community college institutions under the related Classification of Instructional Programs (CIP) codes:

- Computer Support Specialist (11.1006)

Exhibit 16 shows the number of awards conferred by non-community institutions.

Exhibit 16: Regional Non-Community College Awards, 2020-2023

CIP Code	Program	College	2020-2021 Awards	2021-2022 Awards	2022-2023 Awards	3-Year Award Average
11.1006	Computer Support Specialist	Laurus College	33	40	28	34
<b>Supply Subtotal/Average</b>			<b>33</b>	<b>40</b>	<b>28</b>	<b>34</b>
<b>Supply Total/Average</b>			<b>33</b>	<b>40</b>	<b>28</b>	<b>34</b>

## Regional Demographics

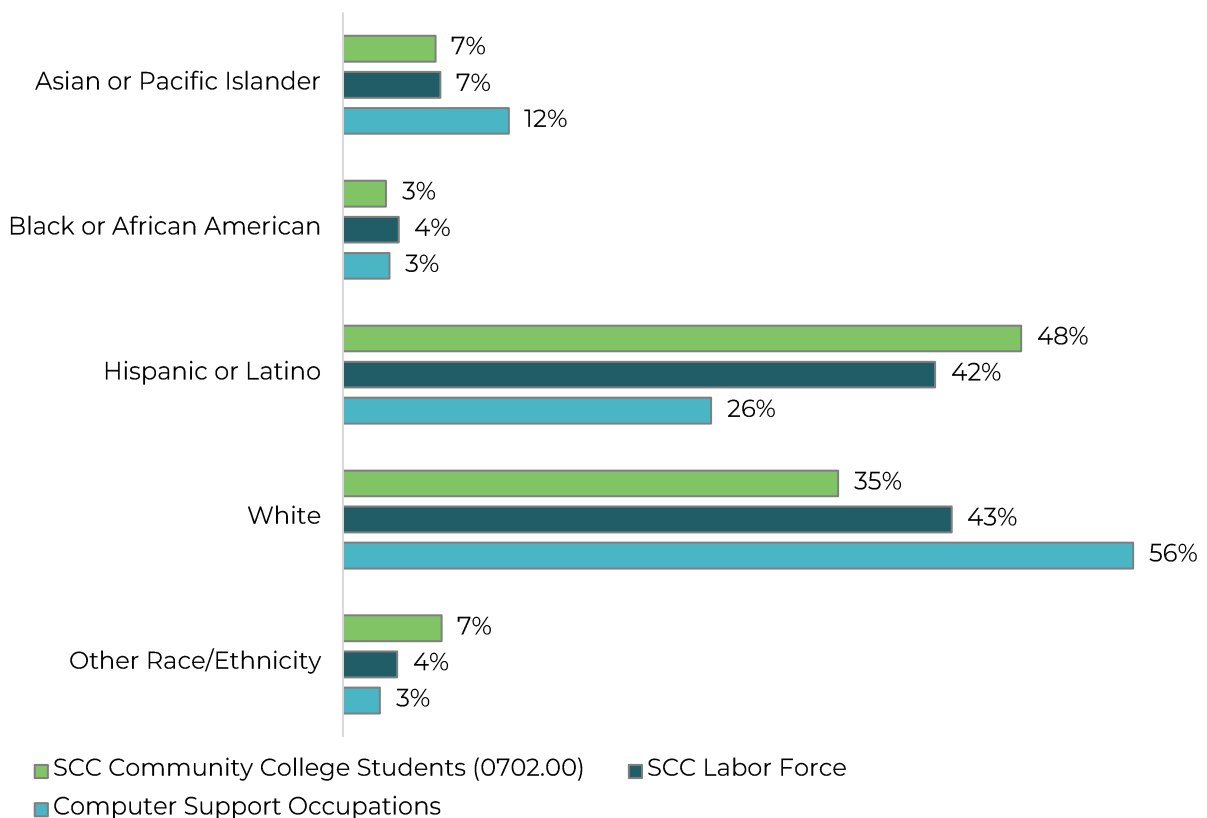
This section examines demographic data for SCC community college students in Computer Information Systems (0702.00) programs compared to the SCC labor force, along with occupational data, to identify potential diversity and equity issues addressable by community college programs.

### Ethnicity:

Exhibit 17 compares the ethnicity of SCC community college students enrolled in Computer Information Systems (0702.00) programs, the overall SCC labor force, and occupation-specific data for the two computer support occupations included in this report.

Notably, 56% of workers employed in these computer support occupations are white, which is much higher than the labor force (43%) and community college Computer Information Systems (0702.00) students (35%). Conversely, 48% of community college Computer Information Systems (0702.00) students are Hispanic or Latino, which is higher than the labor force (42%), and almost double these computer support occupations (26%).

Exhibit 17: Program and County Demographics by Ethnicity

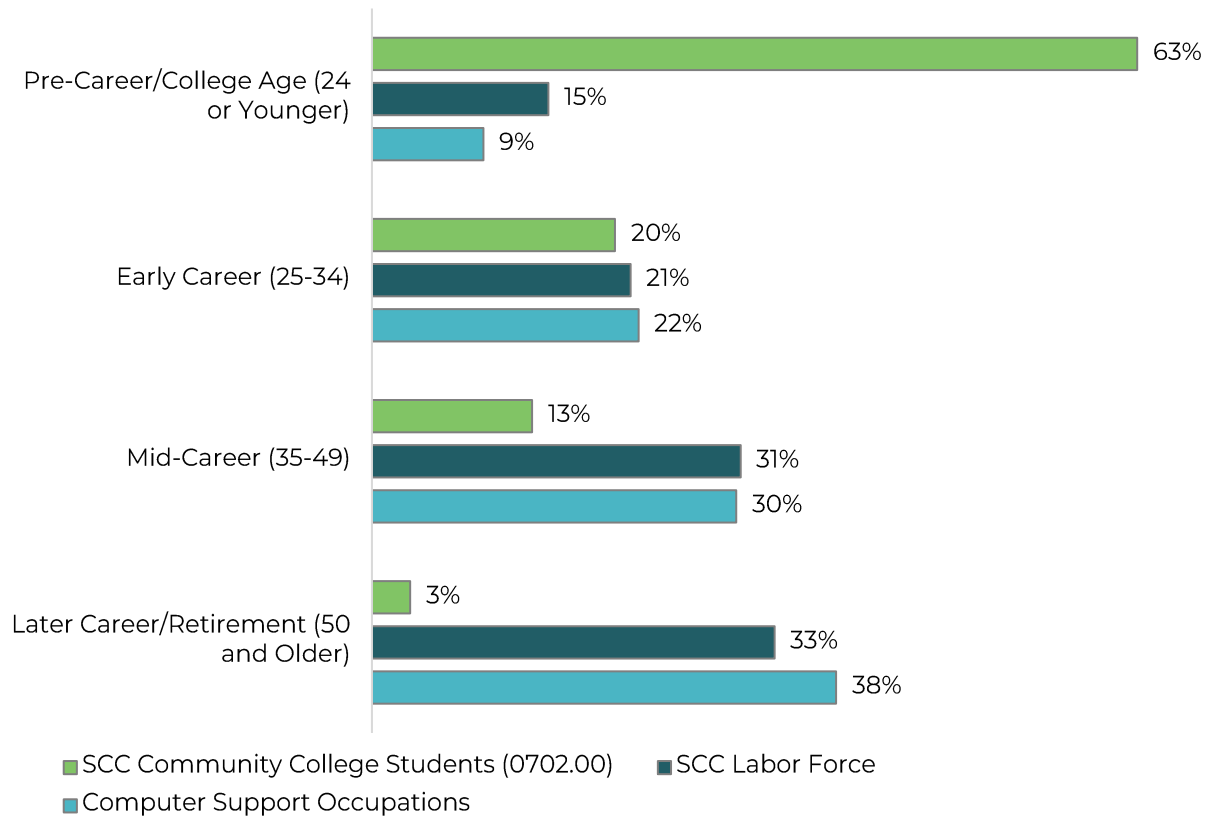


## Age:

Exhibit 18 compares the age of SCC community college students enrolled in Computer Information Systems (0702.00) programs, the overall SCC labor force, and occupation-specific data for the two computer support occupations included in this report.

Approximately (38%) of workers in these computer support occupations are age 50 and older, which is significantly higher than the labor force (33%) and community college Computer Information Systems (0702.00) students (11%).

Exhibit 18: Program and County Demographics by Age

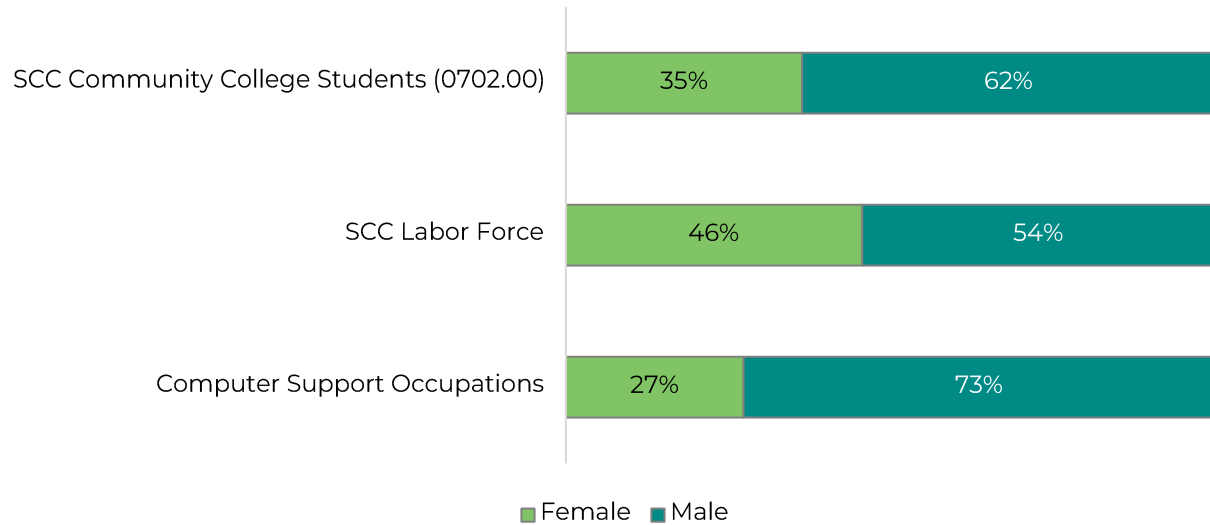


**Sex:**

Exhibit 19 compares the sex of SCC community college students enrolled in Computer Information Systems (0702.00) programs, the overall SCC labor force, and occupation-specific data for these computer support occupations.

There is a majority of male students (62%) and workers in these computer support occupations (73%), which contrasts with the labor force (54% male).

Exhibit 19: Program and County Demographics by Sex



## Appendix A: Methodology

### Traditional Labor Market Data

The SCC COE prepared this report by analyzing data from occupations and education programs. Occupational data is derived from Lightcast, a labor market analytics firm that consolidates data from the California Employment Development Department (EDD), U.S. Bureau of Labor Statistics (BLS) and other government agencies.

Data included in this analysis represents the labor market demand for relevant positions most closely related to the proposed program as expressed by the requesting college in consultation with the SCC COE. Traditional labor market information was used to show current and projected employment based on data trends, as well as annual average awards granted by regional community colleges.

Program supply data is drawn from two systems: Taxonomy of Programs (TOP) and Classification of Instructional Programs (CIP).

Using a TOP-SOC crosswalk, the SCC COE identified middle-skill jobs for which programs within these TOP codes train. Middle-skill jobs include:

- All occupations that require an educational requirement of some college, associate degree or apprenticeship;
- All occupations that require a bachelor's degree, but also have more than one-third of their existing labor force with an educational attainment of some college or associate degree; or
- All occupations that require a high school diploma or equivalent or no formal education, but also require short- to long-term on-the-job training where multiple community colleges have existing programs.

The SCC COE determined labor market supply for an occupation or SOC code by analyzing the number of program completers or awards in a related TOP or CIP code. The COE developed a "supply table" with this information, which is the source of the program supply data for this report. TOP code data comes from the California Community Colleges Chancellor's Office MIS Data Mart ([datamart.cccco.edu](http://datamart.cccco.edu)) and CIP code data comes from the Integrated Postsecondary Education Data System ([nces.ed.gov/ipeds/use-the-data](http://nces.ed.gov/ipeds/use-the-data)), also known as IPEDS.

TOP is a system of numerical codes used at the state level to collect and report information on California community college programs and courses throughout the state that have similar outcomes. CIP codes are a taxonomy of academic disciplines at institutions of higher education in the United States and Canada. Institutions outside of the California Community College system do not use TOP codes in their reporting systems.

### Online Job Postings Data

Online job postings data, also known as real-time labor market information, captures job post advertisements for occupations relevant to the field of study which can signal demand and show what employers are looking for in potential employees but is not a perfect measure of the quantity of open positions. Online job postings data is sourced from Lightcast, a labor market analytics firm that scrapes, collects, and organizes data from online job boards such as LinkedIn, Indeed, Glassdoor, Monster, GovernmentJobs.com, and thousands more.

There are several limitations when analyzing job postings. A single job posting may not represent a single job opening, as employers may be creating a pool of candidates for future openings or hiring for multiple positions with a single posting. Additionally, not all jobs are posted online, and jobs may be filled through other methods such as internal promotion, word-of-mouth advertising, physical job boards, or a variety of other channels.

Additionally, Lightcast uses natural language processing (NLP) to determine the related company, industry, occupation, and other information for each job posting. However, NLP has limitations that include understanding contextual words of phrases; determining differences in words that can be used as nouns, verbs, and/or adjectives; and misspellings or grammatical errors.<sup>5</sup> For these reasons, job postings could be assigned to the wrong employer, industry, or occupation within Lightcast’s database.

## Geography

The South Central Coast region encompasses San Luis Obispo, Santa Barbara, and Ventura counties, as well as parts of Northern Los Angeles County. Exhibit 20 shows the 34 ZIP codes used to define Northern Los Angeles County.

Exhibit 20: Northern Los Angeles ZIP Codes

ZIP Code	Primary City	ZIP Code	Primary City
91310	Castaic	93532	Lake Hughes
91321	Newhall	93534	Lancaster
91322	Newhall	93535	Lancaster
91350	Santa Clarita	93536	Lancaster
91351	Canyon Country	93539	Lancaster
91354	Valencia	93543	Littlerock
91355	Valencia	93544	Llano
91380	Santa Clarita	93550	Palmdale
91381	Stevenson Ranch	93551	Palmdale
91382	Santa Clarita	93552	Palmdale
91383	Santa Clarita	93553	Pearblossom
91384	Castaic	93563	Valyermo
91385	Valencia	93584	Lancaster
91386	Canyon Country	93586	Lancaster
91387	Canyon Country	93590	Palmdale
91390	Santa Clarita	93591	Palmdale
93510	Acton	93599	Palmdale

Though traditional labor market information is available at the ZIP code level, it does not always add up to data reported at the county level for multiple reasons:

- ZIP codes are not official geographically bounded areas, unlike states and counties.
- ZIP codes may cross county lines, such as ZIP code 93461, which is primarily in San Luis Obispo County, but also crosses into Kern County.

For these reasons, the number of jobs and average annual openings for each county may not add up to the total for the SCC Region. However, considering jobseekers may cross county lines for opportunities, the traditional labor market data is reflective of opportunities available to jobseekers in the SCC Region.

Additionally, job postings data is available only at the city or county level. To analyze job postings for the entire SCC region, the SCC COE developed a list of cities available in Lightcast for analysis. Additionally, demographic data is not available at the ZIP code level but is available at the Census Bureau’s Public Use Microdata Area (PUMA) level. Demographic data was sourced via IPUMS and analyzed by the SCC COE.

<sup>5</sup> K. R. Chowdhary, *Fundamentals of Artificial Intelligence* (Basingstoke: Springer Nature, 2020), <https://link.springer.com/book/10.1007/978-81-322-3972-7>.

## Appendix B: Data Sources

Data Type	Source
Occupational Projections, Wages, and Job Postings	Traditional and real-time labor market information are captured using data from <a href="#">Lightcast</a> , a labor market analytics firm.
Living Wage	Per the CCCCCO, this report's endorsement criteria uses the <a href="#">University of Washington's Center for Women's Welfare Self-Sufficiency Standard</a> last updated in March 2024.  The <a href="#">MIT Living Wage</a> , updated on February 10, 2025, is a nationally recognized living wage metric and is provided for reference.
Typical Education and Training Requirements, and Educational Attainment	The <a href="#">Bureau of Labor Statistics (BLS)</a> uses a system to assign categories for entry-level education, work experience in a related occupation, and typical on-the-job training to each occupation for which BLS publishes projections data.
Emerging Occupation Descriptions, Additional Education Requirements, and Employer Preferences	The <a href="#">O*NET</a> database includes information on skills, abilities, knowledges, work activities, and interests associated with occupations.
Educational Supply	The <a href="#">CCCCCO Data Mart</a> provides information about students, courses, student services, outcomes and faculty and staff.  The <a href="#">National Center for Education Statistics (NCES) Integrated Postsecondary Integrated Data System (IPEDS)</a> collects data on the number of postsecondary awards earned (completions).
Student Metrics and Demographics	<a href="#">Data Vista</a> , a statewide data system supported by the California Community Colleges Chancellor's Office provides data on progress, success, employment, and earnings outcomes for California community college students.
Population and Occupation Demographics	The <a href="#">Census Bureau's American Community Survey (ACS)</a> is the premier source for detailed population and housing information.  Data is sourced from <a href="#">IPUMS USA</a> , a database providing access to ACS and other Census Bureau data products.

All representations have been produced from primary research and/or secondary review of publicly and/or privately available data and/or research reports. The most recent data available at the time of the analysis was examined; however, data sets are updated regularly and may not be consistent with previous reports. Efforts have been made to qualify and validate the accuracy of the data and findings; however, neither the Centers of Excellence for Labor Market Research (COE), COE host district, nor California Community Colleges Chancellor's Office are responsible for the applications or decisions made by individuals and/or organizations based on this study or its recommendations.

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