

# Labor Market Analysis for Program Review: 1005.00/Commercial Music (Associate Degree)

CVML Center of Excellence, March 2026



FOR LABOR MARKET RESEARCH  
CENTRAL VALLEY/MOTHER LODE

## Summary

Program LMI Endorsement	Endorsed: All LMI Criteria Met <input type="checkbox"/>	Endorsed: Some LMI Criteria Met <input checked="" type="checkbox"/> (endorse with caution)	Not LMI Endorsed <input type="checkbox"/>
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## Program LMI Endorsement Criteria

	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Supply Gap:	<p>Comments: There are projected to be <b>61 annual job openings</b> throughout the SCV/SML subregion for <i>broadcast, sound, and lighting technicians</i>-related middle-skill occupations, which <b>are more than the 63 awards conferred by educational institutions in the SCV/SML subregion (CC + Non-CC)</b>.</p> <p><b>Note:</b> Only middle-skill jobs are considered when determining supply gap. Including the above middle-skill job increases the overall annual job openings by 104 to a total of 165.</p>	

	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Living Wage: (Entry-Level, 25th):	<p>Comments: All three <i>broadcast, sound, and lighting technicians</i>-related middle-skill occupations included in this report have an entry-level hourly wage <b>above the SCV/SML living wage of \$16.08</b>.</p> <p><b>Note:</b> Only middle-skill jobs are considered when determining living wage.</p>	

	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Education:	<p>Comments: The typical entry-level education for <i>Audio and Video Technicians, Sound Engineering Technicians and Audiovisual Equipment and Installers and Repairers</i> is a postsecondary nondegree award; the typical entry-level education for <i>Musicians and Singers</i> is no formal educational credential and the typical entry-level education for <i>Music Directors and Composers</i> is a bachelor's degree. Additionally, <b>between 22% and 48% have completed some college or an associate degree as their highest level of education</b>.</p> <p><b>Note:</b> Only middle-skill jobs are considered when determining education.</p>	

## Emerging Occupations(s)

	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
	Comments: N/A	

The Central Valley/Mother Lode Center of Excellence for Labor Market Research (CVML COE) prepared this report to determine whether there is a supply gap in the South Central Valley/Southern Mother Lode regional labor market related to the following occupations:

- Below Middle-Skill - denoted with a caret (^) throughout this report
  - Musicians and Singers (27-2042)<sup>v</sup>

- Middle-Skill
  - Audio and Video Technicians (27-4011)
  - Audiovisual Equipment Installers and Repairers (49-2097)
  - Sound Engineering Technicians (27-4014)
- Above Middle-Skill - denoted with a caret (^) throughout this report
  - Music Directors and Composers (27-2041)^

Middle-skill occupations typically require a community college education while above middle-skill occupations typically require at least a bachelor's degree.

Based on the available data, there does not appear to be a supply gap for *broadcast, sound, and lighting technicians*-related middle-skill occupations. In addition to the middle-skill occupations in this report having entry-level wages above the subregion's living wage, between 41% and 48% of middle-skill workers in this field have completed some college or an associate degree as their highest level of education. **Therefore, due to the supply gap not being met, the COE endorses this proposed program “with caution.”**

Exhibit 1 lists the occupational demand, supply, typical entry-level education, and educational attainment for *broadcast, sound, and lighting technicians*-related occupations.

### Exhibit 1: Labor Market Endorsement Summary

Occupation (SOC)	Demand (Annual Openings)	Supply (CC and Non-CC)	Entry-Level Hourly Earnings (25th Percentile)	Typical Entry-Level Education	Community College Educational Attainment
Musicians and Singers (27-2042)v	NCV/NML: 57 SCV/SML: 79	NCV/NML: 33 SCV/SML: 63	NCV/NML: \$19.53 SCV/SML: \$17.79	No formal educational credential	26%
<b>Below Middle-Skill Total</b>	<b>136</b>	<b>96</b>	-	-	-
Audio and Video Technicians (27-4011)	NCV/NML: 16 SCV/SML: 38	NCV/NML: 33 SCV/SML: 63	NCV/NML: \$19.26 SCV/SML: \$20.09	Postsecondary nondegree award	41%
Sound Engineering Technicians (27-4014)	NCV/NML: 3 SCV/SML: 5		NCV/NML: \$21.15 SCV/SML: \$20.96	Postsecondary nondegree award	41%
Audiovisual Equipment Installers and Repairers	NCV/NML: 17 SCV/SML: 18		NCV/NML: \$27.05 SCV/SML: \$21.46	Postsecondary nondegree award	48%

Occupation (SOC)	Demand (Annual Openings)	Supply (CC and Non-CC)	Entry-Level Hourly Earnings (25th Percentile)	Typical Entry-Level Education	Community College Educational Attainment
(49-2097)					
<b>Middle-Skill Total</b>	<b>97</b>		-	-	-
Music Directors and Composers (27-2041) <sup>^</sup>	NCV/NML: 16 SCV/SML: 25	NCV/NML: 33 SCV/SML: 63	NCV/NML: \$21.68 SCV/SML: \$19.55	Bachelor's degree	22%
<b>Above Middle-Skill Total</b>	<b>41</b>	<b>96</b>	-	-	-
<b>Total</b>	<b>274</b>		-	-	-

**Demand:**

- The number of jobs related to the three *broadcast, sound, and lighting technicians*-related middle-skill occupations in this report are projected to increase 3% through 2029. There will be 122 annual job openings in the SCV/SML subregion.
- All three *broadcast, sound, and lighting technicians*-related middle-skill occupations have an entry-level hourly wage above the living wage of \$16.08 in the SCV/SML subregion.
- There were 121 online job postings for *broadcast, sound, and lighting technicians*-related middle-skill occupations over the past 12 months.
- The Bureau of Labor Statistics (BLS) lists a postsecondary nondegree award as the typical entry-level education for *Audio and Video Technicians, Sound Engineering Technicians* and *Audiovisual Equipment Installers and Repairers*, lists a bachelor’s degree as the typical entry-level education for *Music Directors and Composers*<sup>^</sup> and lists no formal educational credential as the typical entry-level education for *Musicians and Singers*.
- National-level educational attainment data indicates that between 41% and 48% of middle-skill workers in the field have completed some college or an associate degree as their highest level of education.

**Supply:**

- Between 2022 and 2025, there was an average of 61 awards conferred by community colleges in the SCV/SML subregion.
- Between 2022 and 2025, non-community college institutions in the SCV/SML subregion conferred an average of 2 awards in relevant programs.

# Demand

## Occupational Projections

Exhibit 2a shows the annual percent change in below middle-skill jobs for *Musicians and Singers* from 2019 through 2029. The SCV/SML subregion experienced the highest growth in 2027 at 4%, compared to the 1% growth across all CA occupations. The SCV/SML subregion experienced the biggest decline in 2024 at 24%, compared to the 1% growth across all CA occupations. From 2026 to 2029, growth is projected to slightly fluctuate (between 2% and 4%).

**Exhibit 2a (Below Middle-Skill) Annual Percent Change in Jobs for Musicians and Singers, 2019-2029**

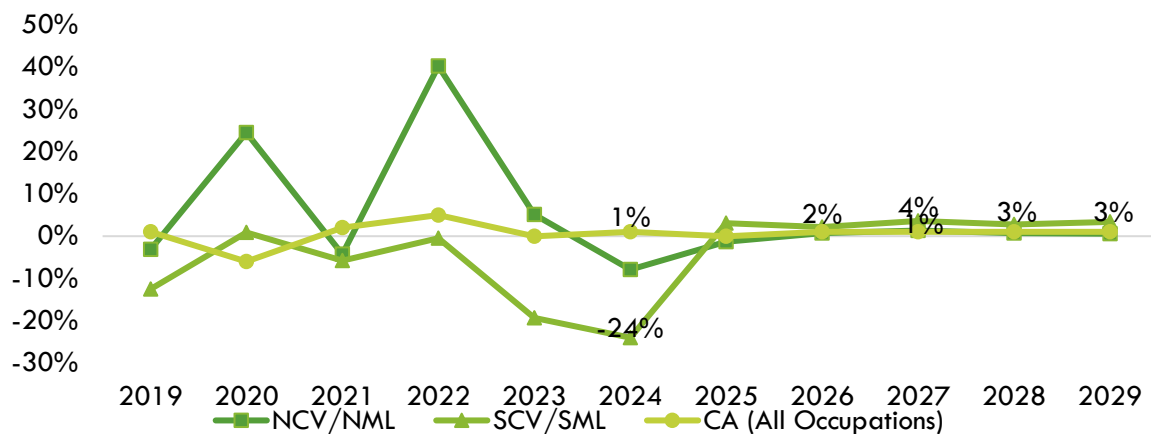


Exhibit 2b shows the annual percent change in middle-skill jobs for the three *Broadcast, Sound, and Lighting Technician*-related occupations from 2019 through 2029. The SCV/SML subregion experienced the highest growth in 2022 at 12%, compared to the 5% growth across all CA occupations. The SCV/SML subregion experienced 0% growth in 2025, with an equal 0% growth across all CA occupations. From 2026 to 2029, growth is projected to remain steady at 1%.

**Exhibit 2b (Middle-Skill) Annual Percent Change in Jobs for Broadcast, Sound, and Lighting Technician-Related Occupations, 2019-2029**

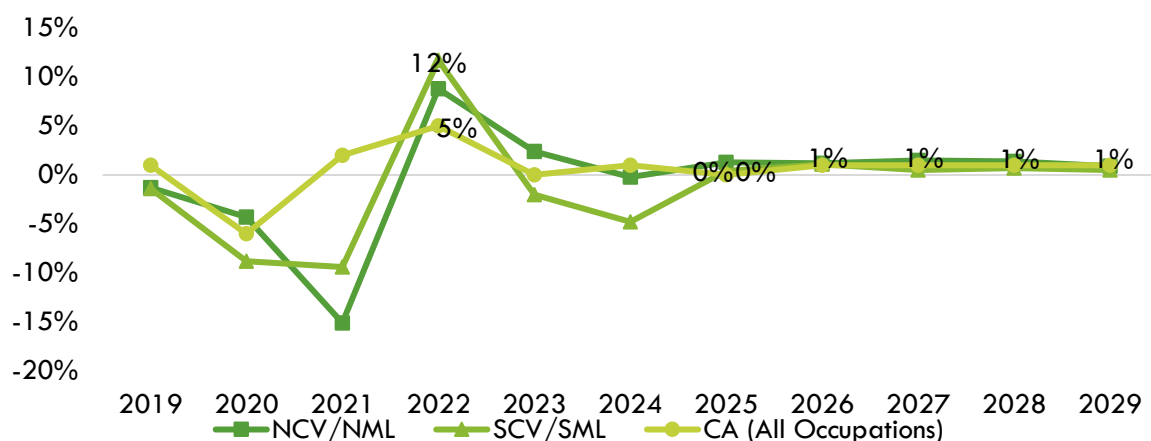


Exhibit 2c shows the annual percent change in above middle-skill jobs for *Music Directors and Composers* from 2019 through 2029. The SCV/SML subregion experienced the highest growth in 2022 at 20%, compared to the 5% growth across all CA occupations. The SCV/SML subregion experienced the second highest growth in 2024 at 9%, compared to the 1% growth across all CA occupations. From 2026 to 2029, growth is projected to remain steady (between 0% and 1%), similar to all CA occupations.

**Exhibit 2c (Above Middle-Skill) Annual Percent Change in Jobs for Music Directors and Composers, 2019-2029**

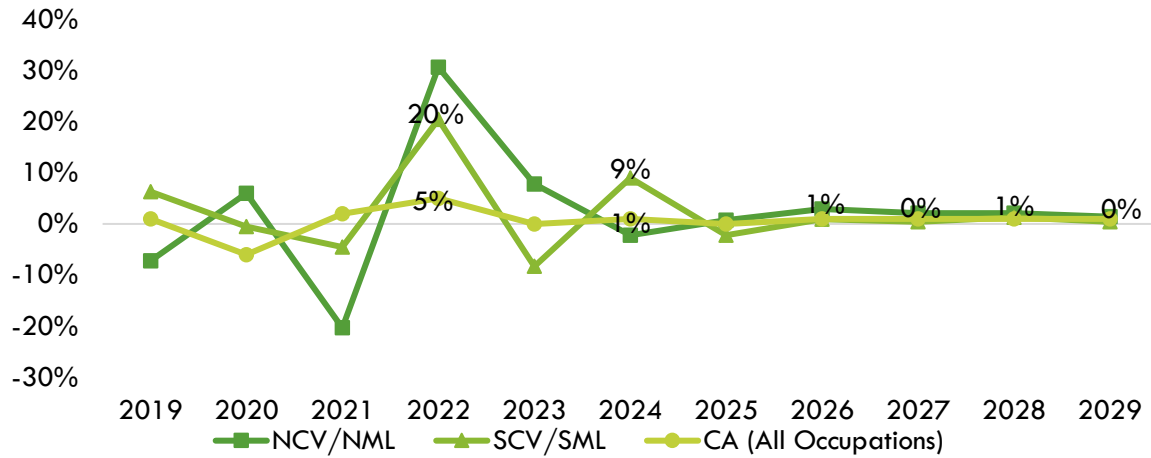


Exhibit 3a shows the five-year occupational demand projections for the *broadcast, sound, and lighting technicians*-related below middle-skill occupation. In the SCV/SML subregion, the number of jobs related to this occupation is projected to increase by 16% through 2029. There are projected to be 18 jobs available annually in the SCV/SML subregion.

**Exhibit 3a (Below Middle-Skill): Occupational Demand in NCV/NML, SCV/SML, and CVML<sup>1</sup>**

Geography	2024 Jobs	2029 Jobs	2024-2029 Change	2024-2029 % Change	Annual Openings
NCV/NML	152	155	3	2%	17
SCV/SML	130	151	21	16%	18
<b>CVML</b>	<b>282</b>	<b>306</b>	<b>24</b>	<b>9%</b>	<b>35</b>

<sup>1</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.

Exhibit 3b shows the five-year occupational demand projections for the three *broadcast, sound, and lighting technicians*-related middle-skill occupations. In the SCV/SML subregion, the number of jobs related to these occupations are projected to increase by 3% through 2029. There are projected to be 122 jobs available annually in the SCV/SML subregion.

### Exhibit 3b (Middle-Skill): Occupational Demand in NCV/NML, SCV/SML, and CVML

Geography	2024 Jobs	2029 Jobs	2024-2029 Change	2024-2029 % Change	Annual Openings
NCV/NML	633	674	41	6%	76
SCV/SML	1,093	1,128	35	3%	122
<b>CVML</b>	<b>1,726</b>	<b>1,802</b>	<b>76</b>	<b>4%</b>	<b>198</b>

Exhibit 3c shows the five-year occupational demand projections for the *broadcast, sound, and lighting technicians*-related above middle-skill occupation. In the SCV/SML subregion, the number of jobs related to this occupation are projected to increase by 1% through 2029. There are projected to be 25 jobs available annually in the SCV/SML subregion.

### Exhibit 3c (Above Middle-Skill): Occupational Demand in NCV/NML, SCV/SML, and CVML

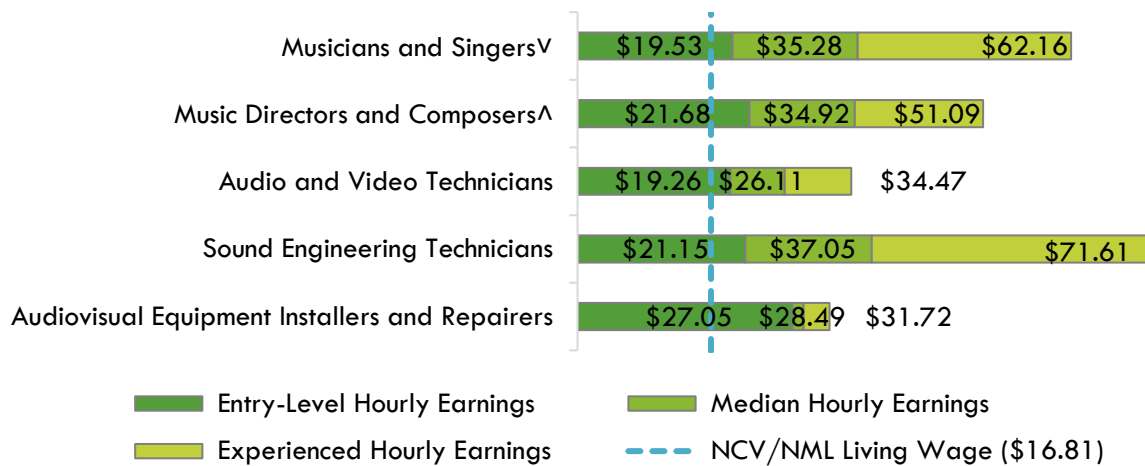
Geography	2024 Jobs	2029 Jobs	2024-2029 Change	2024-2029 % Change	Annual Openings
NCV/NML	135	148	13	10%	16
SCV/SML	230	232	2	1%	25
<b>CVML</b>	<b>365</b>	<b>380</b>	<b>15</b>	<b>4%</b>	<b>41</b>

## Wages:

The labor market endorsement in this report considers the entry-level hourly wages for the five *broadcast, sound, and lighting technicians*-related occupations as they relate to the subregions and region's living wage. NCV/NML, SCV/SML, and CVML wages are included below to provide a complete analysis of the region.

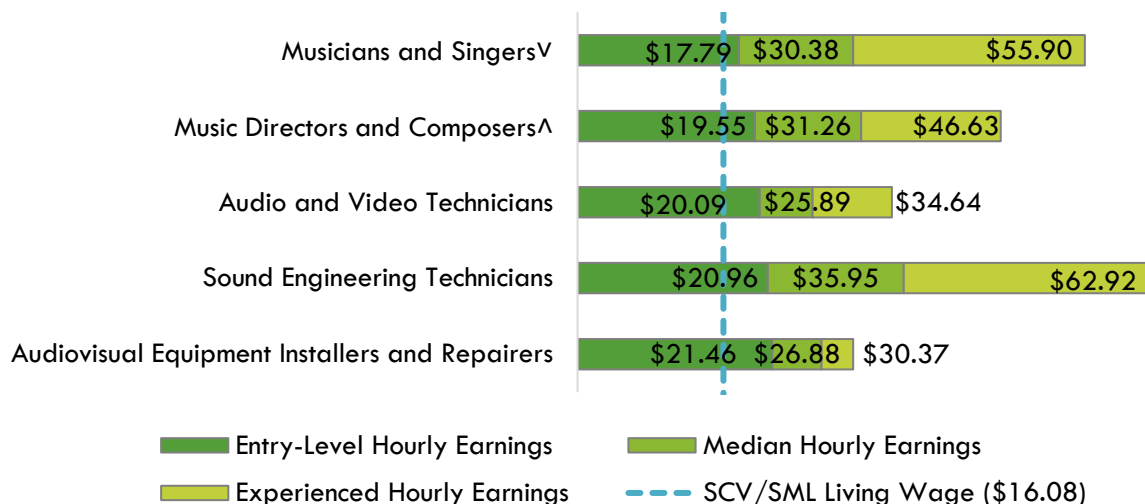
All five *broadcast, sound, and lighting technicians*-related occupations have an entry-level hourly wage above the living wage for one adult in the NCV/NML subregion (\$16.81). The NCV/NML subregion average wage for these occupations is \$44.35, which is below the average statewide wage of \$47.69. Exhibit 4a shows the wage range for *broadcast, sound, and lighting technicians*-related occupations and how they compare to the NCV/NML subregion's living wage.

### Exhibit 4a: Wages by Occupation in NCV/NML



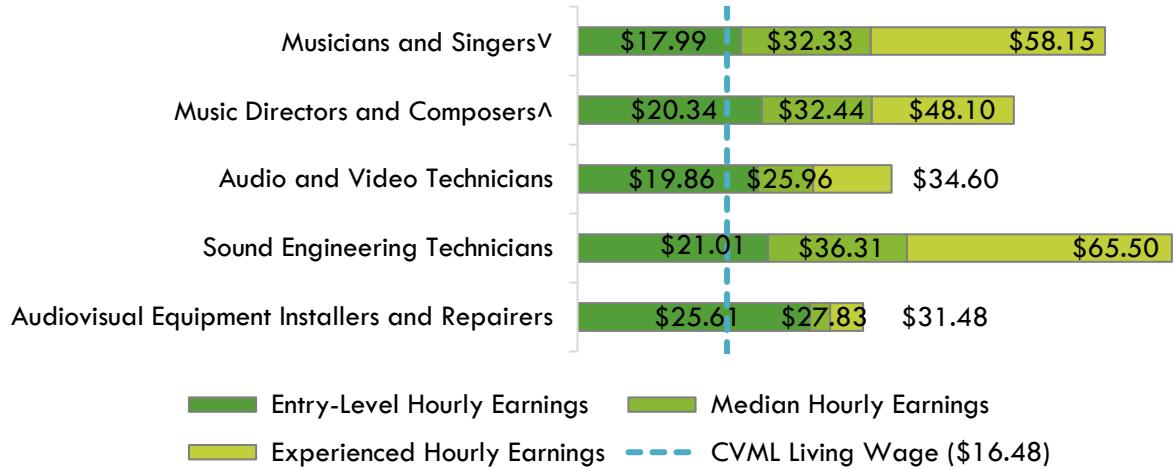
### Exhibit 4b: Wages by Occupation in SCV/SML

All five *broadcast, sound, and lighting technicians*-related occupations have an entry-level hourly wage above the living wage for one adult in the SCV/SML subregion (\$16.08). The SCV/SML subregion average wage for these occupations is \$40.13, which is below the average statewide wage of \$47.69. Exhibit 4b shows the wage range for *broadcast, sound, and lighting technicians*-related occupations and how they compare to the SCV/SML subregion's living wage.



All five *broadcast, sound, and lighting technicians*-related occupations have an entry-level hourly wage above the living wage for one adult in the CVML region (\$16.48). The CVML region average wage for these occupations is \$41.78, which is below the average statewide wage of \$47.69. Exhibit 5 shows the wage range for *broadcast, sound, and lighting technicians*-related occupations and how they compare to the CVML region's living wage.

Exhibit 5: Wages by Occupation in CVML



## Job Postings:

**Important Online Job Postings Data Note:** 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. 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>2</sup> For these reasons, job postings could be assigned to the wrong employer, industry, or occupation within Lightcast's database.

Additionally, 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.

There were 83 online job postings related to *Musicians and Singers* listed in the past 12 months (Exhibit 6a).

### Exhibit 6a (Below Middle-Skill): Number of Job Postings (n=83)

Occupations	Job Postings	Percentage of Job Postings
Musicians and Singers	83	100%

There were 121 online job postings related to *Broadcast, Sound, and Lighting Technician*-related occupations listed in the past 12 months (Exhibit 6b).

### Exhibit 6b (Middle-Skill): Number of Job Postings (n=121)

Occupations	Job Postings	Percentage of Job Postings
Sound Engineering Technicians	57	47%
Audio and Video Technicians	52	43%
Audiovisual Equipment Installers and Repairers	12	10%

There were 18 online job postings related to *Music Directors and Composers* listed in the past 12 months (Exhibit 6c).

### Exhibit 6c (Above Middle-Skill): Number of Job Postings (n=18)

Occupations	Job Postings	Percentage of Job Postings
Music Directors and Composers	18	100%

<sup>2</sup>K. R. Chowdhary, *Fundamentals of Artificial Intelligence* (Basingstoke: Springer Nature, 2020), <https://link.springer.com/book/10.1007/978-81-322-3972-7>

The top employers in the region for *Musicians and Singers*, by number of job postings, are shown in Exhibit 7a.

### Exhibit 7a (Below Middle-Skill): Top Employers by Number of Job Postings (n=83)

Employer	Job Postings	Percentage of Job Postings
International Cultural Exchange	6	7%
Kern Community College District	6	7%
Porterville Unified School District	5	6%
Edjoin.Org	4	5%
State Center Community College District	3	4%
Wisconsin State Journal	3	4%
San Bernardino County Superintendent of Schools	3	4%
Terra Bella Union Elementary School	1	1%
Make-A-Wish International	1	1%
Hope Lutheran Church	1	1%

The top employers in the region for *Broadcast, Sound, and Lighting Technician*-related occupations, by number of job postings, are shown in Exhibit 7b.

### Exhibit 7b (Middle-Skill): Top Employers by Number of Job Postings (n=121)

Employer	Job Postings	Percentage of Job Postings
Adaptive Medical Partners	47	39%
Mammoth Mountain Ski Area	5	4%
T-Roc	4	3%
Tetriq Solutions L.L.C.	3	2%
NRG Energy	3	2%
The PM Lounge The PM Lounge	2	2%
Kern Community College District	2	2%
Vivint	2	2%
Barrister Global Services Network	2	2%
Exact Staff	2	2%

The top employers in the region for *Music Directors and Composers*, by number of job postings, are shown in Exhibit 7c.

### Exhibit 7c (Above Middle-Skill): Top Employers by Number of Job Postings (n=18)

Employer	Job Postings	Percentage of Job Postings
New Life Community	2	11%
Music Ministry	2	11%
Hope Lutheran Church	1	6%
Crosspointe Church	1	6%
Revive Worship Center	1	6%
Immanuel Schools	1	6%
ChurchStaffing	1	6%
Unitarian Universalist Church of Fresno	1	6%

The top specialized, common, and software skills for *Musicians and Singers* are listed by those most frequently mentioned in job postings (denoted in parentheses) are shown in Exhibit 8a.

### Exhibit 8a (Below Middle-Skill): Top Skills by Number of Job Postings (n=83)

Top Specialized Skills	Top Soft Skills	Top Computer Skills
Musical Accompaniment (17)	Communication (12)	Business Software (3)
Choral Music (13)	Writing (8)	R (Programming Language) (1)
Sight Reading (12)	Coordinating (8)	Microsoft Office (1)
Piano Playing (12)	Tactfulness (6)	-
Music Theory (7)	Patience (6)	-
Vocal Coaching (6)	Record Keeping (6)	-
Instrumental Music (5)	Interpersonal Communications (6)	-
Office Equipment (3)	Time Management (5)	-
Modern Dance (3)	Memorization (4)	-
Business Software (3)	Leadership (4)	-

The top specialized, common, and software skills for *Broadcast, Sound, and Lighting Technician*-related occupations are listed by those most frequently mentioned in job postings (denoted in parentheses) are shown in Exhibit 8b.

### Exhibit 8b (Middle-Skill): Top Skills by Number of Job Postings (n=121)

Top Specialized Skills	Top Soft Skills	Top Computer Skills
Smart Device (52)	Sincerity (52)	Microsoft Excel (3)
Inventory Management (23)	Troubleshooting (Problem Solving) (41)	Microsoft Outlook (3)
Sound Systems (17)	Communication (31)	Microsoft 365 (2)
Lifting Ability (10)	Customer Service (24)	Email Software (2)
Technical Issues (9)	Problem Solving (15)	Operating Systems (2)
Project Management (8)	Operations (9)	Microsoft PowerPoint (2)
Swimming Pool Maintenance (7)	Sales (8)	vMix (Software) (1)
Industry Standards (7)	Writing (8)	Blackmagic (1)
Project Implementation (7)	Detail Oriented (8)	AES3 (1)
Sensors (7)	Accountability (7)	Disassembler (1)

The top specialized, common, and software skills for *Music Directors and Composers* are listed by those most frequently mentioned in job postings (denoted in parentheses) are shown in Exhibit 8c.

### Exhibit 8c (Above Middle-Skill): Top Skills by Number of Job Postings (n=18)

Top Specialized Skills	Top Soft Skills	Top Computer Skills
Worship Ministry (12)	Communication (11)	Zoom (Video Conferencing Tool) (2)
Music Ensembles (6)	Leadership (10)	Finale (Software) (2)
Musical Accompaniment (6)	Coordinating (9)	Microsoft Office (2)
Piano Playing (5)	Planning (6)	Sibelius (Software) (2)
Music Instruction (4)	Mentorship (5)	Chatbot (2)
Liturgical Worship (4)	Creativity (3)	-
Sight Reading (4)	Innovation (3)	-
Guitars (4)	Influencing Skills (2)	-
Choral Music (3)	Resourcefulness (2)	-
Paving (2)	Diplomacy (2)	-

## Educational Attainment:

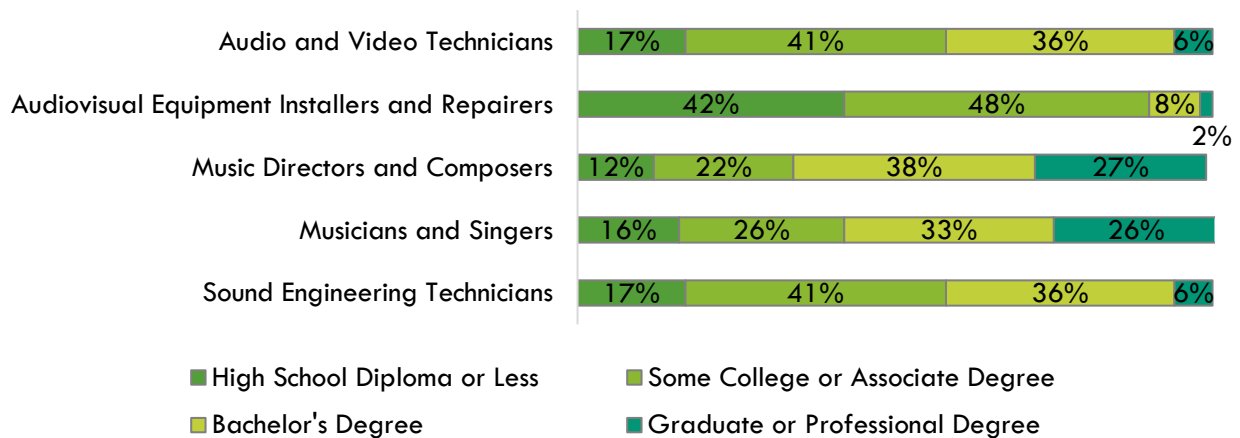
The Bureau of Labor Statistics (BLS) lists a postsecondary nondegree award as the typical entry-level education for *Audio and Video Technicians*, *Sound Engineering Technicians* and *Audiovisual Equipment Installers and Repairers*, lists a bachelor's degree as the typical entry-level education for *Music Directors and Composers* and lists no formal educational credential as the typical entry-level education for *Musicians and Singers*. National-level educational attainment data indicates that between 41% and 48% of middle-skill workers in the field have completed some college or an associate degree as their highest level of education. Exhibit 9 shows the educational attainment for the five *broadcast, sound, and lighting technicians*-related occupations.

Of the 83 online job postings for below middle-skill occupations, 29% (equivalent to 24 postings) of cumulative job postings for the one *broadcast, sound, and lighting technicians* listed a minimum education requirement in the SCV/SML subregion. Of the 24 postings, 75% (18) requested a high school or GED.

Of the 121 online job postings for middle-skill occupations, 12% (equivalent to 15 postings) of cumulative job postings for the three *broadcast, sound, and lighting technicians* listed a minimum education requirement in the SCV/SML subregion. Of the 15 postings, 40% (6) requested an associate degree.

Of the 18 online job postings for above middle-skill occupations, 17% (equivalent to 3 postings) of cumulative job postings for the one *broadcast, sound, and lighting technicians*

### Exhibit 9: National-level Educational Attainment for Broadcast, Sound, and Lighting Technicians-Related Occupations



# Educational Supply

## Community College Supply:

Exhibits 10a and 10b show the annual and three-year average number of awards conferred by community colleges in the programs that have historically trained for the occupations included in this report. The colleges with the most completions are Fresno City (South) and Bakersfield (South).

**Exhibit 10a: NCV/NML Community College Awards (Certificates and Degrees)  
2022-23 through 2024-25**

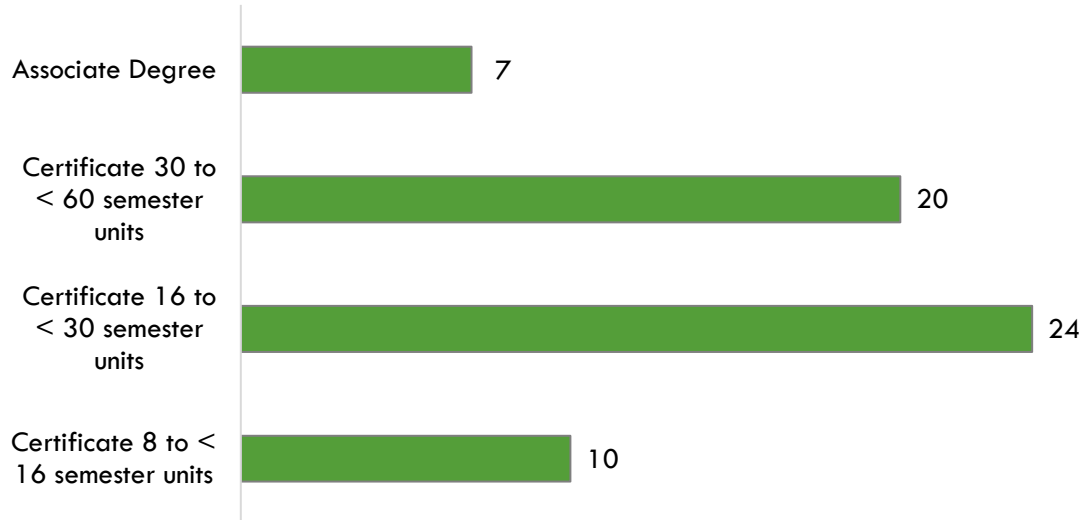
TOP Code	Program	College	2022-2023 Awards	2023-2024 Awards	2024-2025 Awards	3-Year Award Average
1005.00	Commercial Music	Modesto	8	11	-	6
<b>Subtotal/Average</b>			<b>8</b>	<b>11</b>	<b>-</b>	<b>6</b>
<b>NCV/NML Supply Grand Total</b>			<b>8</b>	<b>11</b>	<b>-</b>	<b>6</b>

**Exhibit 10b: SCV/SML Community College Awards (Certificates and Degrees)  
2022-23 through 2024-25**

TOP Code	Program	College	2022-2023 Awards	2023-2024 Awards	2024-2025 Awards	3-Year Award Average
0934.30	Telecommunications Technology	Fresno City	8	8	16	11
<b>Subtotal/Average</b>			<b>8</b>	<b>8</b>	<b>16</b>	<b>11</b>
1005.00	Commercial Music	Bakersfield	13	29	17	20
		Clovis	2	5	9	5
		Fresno City	23	8	23	18
		Porterville	-	-	1	-
		Sequoias	2	9	9	7
<b>Subtotal/Average</b>			<b>40</b>	<b>51</b>	<b>59</b>	<b>50</b>
<b>SCV/SML Supply Grand Total</b>			<b>48</b>	<b>59</b>	<b>75</b>	<b>61</b>

Exhibit 11 shows the annual average community college awards by type from 2022-23 through 2024-25. Of the 61 awards conferred in the SCV/SML subregion, 11% (7) of these awards were for an associate degree.

### Exhibit 11: Annual Average Community College Awards (SCV/SML) by Type, 2022-2025



## Community College Student Outcomes:

Exhibit 12 shows the Strong Workforce Program (SWP) metrics for Commercial Music programs in State Center Community College District (SCCCD), the SCV/SML subregion, the CVML region, and California.

Of the 8,914 commercial music program students statewide in the 2023-2024 academic year, 6% (495) attended a CVML institution. SCCCDD students that exited commercial music programs in the 2022-2023 academic year had less median annual earnings (\$21,092) compared to all commercial music students in SCV/SML subregion (\$21,922). Notably, 34% of CVML region commercial music students attained a living wage, which is greater than the percentage of students who attained a living wage statewide (24%).

**Exhibit 12: Commercial Music (1005.00) Strong Workforce Program Metrics**

SWP Metric	SCCCD	SCV/SML Subregion	CVML Region	California
SWP Students	175	365	495	8,914
SWP Students Who Earned 9 or More Career Education Units in the District in a Single Year	24%	28%	27%	22%
SWP Students Who Completed a Noncredit CTE or Workforce Preparation Course	N/A	93%	93%	71%
SWP Students Who Earned a Degree or Certificate or Attained Apprenticeship Journey Status	12%	11%	10%	4%
SWP Students Who Transferred to a Four-Year Postsecondary Institution	12%	4%	3%	5%
SWP Students with a Job Closely Related to Their Field of Study	N/A	N/A	N/A	59%
Median Annual Earnings for SWP Exiting Students	\$21,092 (\$10.14)	\$21,922 (\$10.54)	\$24,176 (\$11.62)	\$30,500 (\$14.66)
Median Change in Earnings for SWP Exiting Students	60%	20%	20%	27%
SWP Exiting Students Who Attained the Living Wage	59%	30%	34%	24%



## Non-Community College Supply:

For a comprehensive regional supply analysis, it is also important to consider the supply from other institutions in the region that provide training programs for the occupations studied in this report. Exhibits 13a and 13b show the annual and three-year average number of awards conferred by non-community college institutions in programs that have historically trained for the occupations of interest.

Between 2021 and 2024, non-community college institutions in the SCV/SML subregion conferred an average of 2 awards annually in related programs.

### Exhibit 13a: NCV/NML Subregional Non-Community College Awards, 2021-2024

CIP Code	Program	Institution	2021-22 Awards	2022-23 Awards	2023-24 Awards	3-Year Award Average
50.0903	Music Performance, General	California State University-Stanislaus	9	10	6	8
		University of the Pacific	4	6	6	5
<b>Subtotal/Average</b>			<b>13</b>	<b>16</b>	<b>12</b>	<b>14</b>
50.0904	Music Theory and Composition	University of the Pacific	3	4	3	3
<b>Subtotal/Average</b>			<b>3</b>	<b>4</b>	<b>3</b>	<b>3</b>
50.1003	Music Management	University of the Pacific	11	10	9	10
<b>Subtotal/Average</b>			<b>11</b>	<b>10</b>	<b>9</b>	<b>10</b>
<b>NCV/NML Supply Grand Total</b>			<b>27</b>	<b>30</b>	<b>24</b>	<b>27</b>

### Exhibit 13b: SCV/SML Subregional Non-Community College Awards, 2021-2024

CIP Code	Program	Institution	2021-22 Awards	2022-23 Awards	2023-24 Awards	3-Year Award Average
50.0903	Music Performance, General	California State University-Fresno	-	-	5	2
		Fresno Pacific University	-	2	-	1
<b>Subtotal/Average</b>			<b>-</b>	<b>2</b>	<b>5</b>	<b>2</b>
<b>SCV/SML Supply Grand Total</b>			<b>-</b>	<b>2</b>	<b>5</b>	<b>2</b>

## Appendix A: Methodology

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

Using a TOP-SOC crosswalk, the CVML 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 CVML 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.

Data included in this analysis represent the labor market demand for relevant positions most closely related to the proposed program as expressed by the requesting college in consultation with the CVML 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. 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.

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.

## Appendix B: Data Sources

Data Type	Source
Occupational Projections, Wages, and Job Postings	<p>Traditional labor market information data is sourced from Lightcast, a labor market analytics firm. Lightcast occupational employment data are based on final Lightcast industry data and final Lightcast staffing patterns. Wage estimates are based on Occupational Employment Statistics and the American Community Survey. For more information, see <a href="https://lightcast.io/">https://lightcast.io/</a></p>
Living Wage	<p>The living wage is derived from the Insight Center's California Family Needs Calculator, which measures the income necessary for an individual of family to afford basic expenses. The data assesses the cost of housing, food, childcare, health care, transportation, and taxes. For more information, see: <a href="https://selfsufficiencystandard.org/California/">https://selfsufficiencystandard.org/California/</a></p> <p>Wage figures are used by the CCCCCO to calculate the percentage of students that attained the regional living wage.</p>
Typical Education and Training Requirements, and Educational Attainment	<p>The Bureau of Labor Statistics (BLS) provides information about education and training requirements for hundreds of occupations. BLS 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. For more information, see <a href="https://www.bls.gov/emp/documentation/education/tech.htm">https://www.bls.gov/emp/documentation/education/tech.htm</a></p>
Emerging Occupation Descriptions, Additional Education Requirements, and Employer Preferences	<p>The O*NET database includes information on skills, abilities, knowledges, work activities, and interests associated with occupations. For more information, see <a href="https://www.onetonline.org/help/online/">https://www.onetonline.org/help/online/</a></p>
Educational Supply	<p>The CCCCCO Data Mart provides information about students, courses, student services, outcomes and faculty and staff. For more information, see: <a href="https://datamart.cccco.edu">https://datamart.cccco.edu</a></p> <p>The National Center for Education Statistics (NCES) Integrated Postsecondary Integrated Data System (IPEDS) collects data on the number of postsecondary awards earned (completions). For more information, see <a href="https://nces.ed.gov/ipeds/use-the-data/survey-components/7/completions">https://nces.ed.gov/ipeds/use-the-data/survey-components/7/completions</a></p>
Student Metrics and Demographics	<p>DataVista, a statewide data system supported by the California Community Colleges Chancellor's Office and hosted by Cal-PASS Plus, provides data on progress, success, employment, and earnings outcomes for California community college students. For more information, see: <a href="https://datavista.cccco.edu/">https://datavista.cccco.edu/</a></p>
Population and Occupation Demographics	<p>The Census Bureau's American Community Survey (ACS) is the premier source for detailed population and housing information. For more information, see: <a href="https://www.census.gov/programs-surveys/acs">https://www.census.gov/programs-surveys/acs</a></p> <p>Data is sourced from IPUMS USA, a database providing access to ACS and other Census Bureau data products. For more information, see: <a href="https://usa.ipums.org/usa/about.shtml">https://usa.ipums.org/usa/about.shtml</a></p>

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