



Labor Market Analysis: 0935.00 – Electro-Mechanical Technology 15.0403 – Electromechanical/Electromechanical Engineering Technology/Technician

Automation – Associate of Science (A.S.) degree

Los Angeles Center of Excellence, June 2026

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Program Endorsement:	Endorsed: All Criteria Met	☒	Endorsed: Some Criteria Met	☐	Not Endorsed	☐
Program Endorsement Criteria						
Supply Gap:	Yes	☒ (See below)		No	☐	
Living Wage: (Entry-Level, 25 th)	Yes	☒		No	☐	
Education:	Yes	☒		No	☐	
Emerging Occupation(s)						
	Yes	☐		No	☒	

SUMMARY

This report analyzes whether local labor market demand is being met by community college programs aligned with the identified middle-skill occupation¹ or whether a shortage of workers exists. Labor market demand is measured by annual job openings while education supply is measured by the number of awards (degrees and certificates) conferred on average each year.

Based on the available data, the talent supply is within the COE's acceptable margin (the number of awards issued is 25% over or under the number of annual openings) and is therefore considered "supply met" rather than a "supply gap." There may be demand for these workers from local employers that is not reflected in traditional labor market data. For this reason, real-time labor market data is included in this report as well – to provide a more nuanced view of the regional job market for *electro-mechanical and mechatronics technologists and technicians*. Furthermore, entry-level wages exceed the self-sufficiency standard wage in both Los Angeles and Orange counties, and half of current workers in the field have completed an associate degree as their highest level of educational attainment.

Recommendation: Due to all three program endorsement criteria being met, the Los Angeles Center of Excellence for Labor Market Research (LA COE) endorses this proposed program.

¹ Middle-skill occupations typically require some postsecondary education, but less than a bachelor's degree. The COE classifies middle-skill jobs as the following:

- 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.

Key Findings

Supply Gap

- 32 annual job openings are projected in the region through 2029. This number is less than the three-year average of 39 awards conferred by educational institutions in the region.
 - Although there are more awards conferred than job openings, the data suggests that the **demand has been met for this occupation within the LA/OC region** since the three-year average number of awards (supply) is within the COE's 25% margin of annual job openings (demand).
 - Over the past 12 months, there were **104 online job postings related to electro-mechanical and mechatronics technologists and technicians**. The highest number of job postings were for mechatronics technicians, robotics instructors, robotics technicians, robotics techs, and assembly technicians.

Living Wage

- \$29.37 is the typical entry-level hourly wages for electro-mechanical and mechatronics technologists and technicians, which is higher than Los Angeles County's self-sufficiency standard hourly (\$24.03/hour).²

Educational Attainment

- An associate degree is the typical entry-level education for *electro-mechanical and mechatronics technologists and technicians*, according to the Bureau of Labor Statistics (BLS).
 - 50% of workers in the field have completed some college or an associate degree, according to national educational attainment data.

Community college supply

- 2 community colleges issued awards related to electro-mechanical technology in the greater LA/OC region.
 - 12 awards (degrees and certificates) were conferred on average each year between 2023 and 2025.

Other postsecondary supply

- One educational institution in the LA/OC region has conferred awards in programs related to electro-mechanical technology over the past three years.
- 27 awards were conferred on average each year by other postsecondary institutions throughout the greater LA/OC region between 2022 and 2024.

TARGET OCCUPATION

LA COE prepared this report to provide regional labor market and postsecondary supply data related to one middle-skill occupation:

- ***Electro-Mechanical and Mechatronics Technologists and Technicians (17-3024)*** Operate, test, maintain, or adjust unmanned, automated, servomechanical, or electromechanical equipment. May operate unmanned submarines, aircraft, or other equipment to observe or record visual information at sites such as oil rigs, crop fields, buildings, or for

² Center for Women's Welfare, University of Washington. (2024). *The self-sufficiency standard for California 2024*. <http://selfsufficiencystandard.org/California>.

similar infrastructure, deep ocean exploration, or hazardous waste removal. May assist engineers in testing and designing robotics equipment. ³

OCCUPATIONAL DEMAND

Exhibit 1 shows the five-year occupational demand projections for *electro-mechanical and mechatronics technologists and technicians*. In the greater Los Angeles/Orange County region, the number of jobs related to this occupation is projected to increase by 1% through 2029. There will be 32 job openings per year through 2029 due to job growth and replacements. The majority of jobs in 2024 for *electro-mechanical and mechatronics technologists and technicians* (70%) were located in Los Angeles County.

Exhibit 1: Current employment and occupational demand, Los Angeles and Orange counties⁴

Geography	2024 Jobs	2029 Jobs	2024-2029 Change	2024-2029 % Change	Annual Openings
Los Angeles	251	254	3	1%	22
Orange	110	113	3	2%	10
Total	361	367	5	1%	32

Detailed Occupation Data

Exhibit 2 displays the current employment and projected occupational demand for the target occupation in Los Angeles County. The average percentage of workers aged 55+ across all occupations in the Los Angeles/Orange County region is 26%; occupations with a larger share of workers aged 55 and older typically have greater replacement needs to offset the amount of impending retirements.

Exhibit 2: Detailed employment and occupational demand, Los Angeles County⁵

Occupation	2024 Jobs	2029 Jobs	5-Yr % Change	Annual Openings	% Aged 55 and older
Electro-Mechanical and Mechatronics Technologists and Technicians	251	254	1%	22	30%

WAGES

The labor market endorsement in this report considers the entry-level hourly wages for *electro-mechanical and mechatronics technologists and technicians* in Los Angeles County as they relate to the county's self-sufficiency standard wage. Orange County wages are included below in order to provide a complete analysis of the greater Los Angeles/Orange County region.

Los Angeles County

The typical entry-level hourly wages for *electro-mechanical and mechatronics technologists and technicians* are \$29.37, which is above the self-sufficiency standard wage for one adult (\$24.03 in Los Angeles County). Experienced workers can expect to earn wages of \$49.32 (Exhibit 3).

³ [Electro-mechanical and Mechatronics Technologists and Technician \(bls.gov\)](https://www.bls.gov/occupations/electromechanical-and-mechatronics-technologists-and-technicians)

⁴ Five-year change represents new job additions to the workforce. Annual openings include new jobs and replacement jobs that result from retirements and separations.

⁵ Ibid.

Exhibit 3: Earnings for occupation in Los Angeles County

Occupation	Entry-Level Hourly Earnings (25 th Percentile)	Median Hourly Earnings	Experienced Hourly Earnings (75 th Percentile)	Median Annual Earnings*
Electro-Mechanical and Mechatronics Technologists and Technicians	\$29.37	\$37.21	\$49.32	\$77,400

*Rounded to the nearest \$100

Orange County

The typical entry-level hourly wages for *electro-mechanical and mechatronics technologists and technicians* are \$31.34, which is above the self-sufficiency standard wage for one adult (\$27.13 in Orange County). Experienced workers can expect to earn wages of \$51.07 (Exhibit 4).

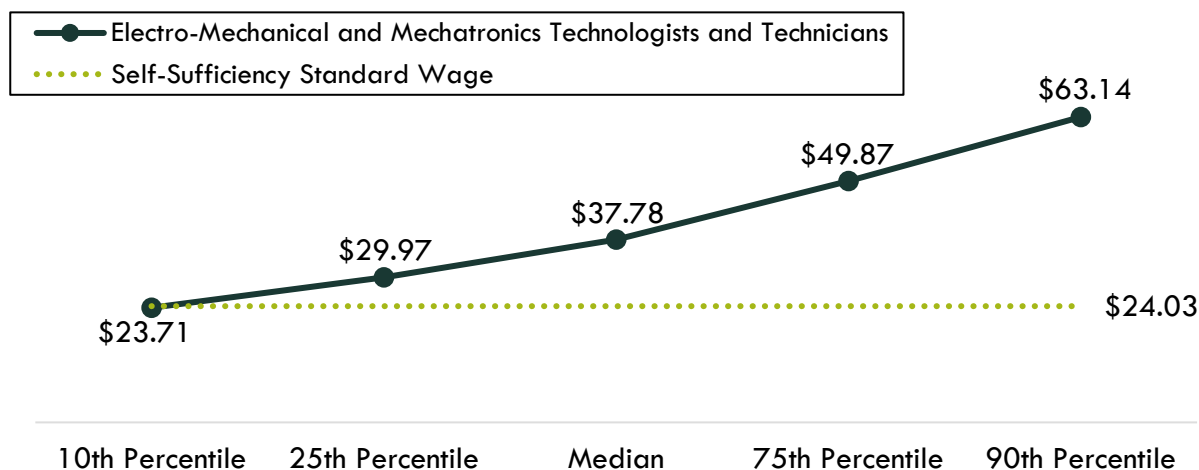
Exhibit 4: Earnings for occupation in Orange County

Occupation	Entry-Level Hourly Earnings (25 th Percentile)	Median Hourly Earnings	Experienced Hourly Earnings (75 th Percentile)	Median Annual Earnings*
Electro-Mechanical and Mechatronics Technologists and Technicians	\$31.34	\$38.98	\$51.07	\$81,100

*Rounded to the nearest \$100

Across the greater Los Angeles and Orange County region, the average entry-level hourly earnings for the occupation in this report are \$29.97; this is above the living wage for one single adult in Los Angeles County (\$24.03). Exhibit 5 shows the average hourly wage for the occupation in this report, for entry-level to experienced workers.

Exhibit 5: Average hourly earnings for target occupation, Los Angeles and Orange counties



JOB POSTINGS

There were 104 online job postings related to *electro-mechanical and mechatronics technologists and technicians* listed in the past 12 months in Los Angeles and Orange counties. Job postings were

analyzed for the most common job titles, skills, and employers associated with the target occupation in this report (Exhibit 6).

Exhibit 6: Most commonly requested job titles, skills and employers in job postings, Los Angeles and Orange counties

Top Job Titles	Top Skills	Top Employers
• Mechatronics technicians • Robotics instructors • Robotics technicians • Robotics techs • Assembly technicians • Robot technicians • Robot operators • Electromechanical technicians	• Robotics • Mechatronics • Electronics • Material handling equipment • Packaging and labeling • Safety standards • Conveyor systems • Safety procedures	• Cushman & Wakefield • Amazon • Divergent Agency* • Brick Tech* • Precise Personnel* • CBRE • KBR • Aleron* • Starship Technologies

*Staffing company

In the greater Los Angeles/Orange County region, 68% of the target job postings listed a minimum educational requirement. Exhibit 7 details the number and percentage of job postings by educational level.

Exhibit 7: Education levels requested in job postings for target occupation, Los Angeles and Orange counties

Education Level	Job Postings	% of Job Postings
Bachelor's degree	5	7%
Associate degree	4	6%
High school diploma or vocational training	62	87%

EDUCATIONAL ATTAINMENT

The Bureau of Labor Statistics (BLS) lists an associate degree as the typical entry-level education for *electro-mechanical and mechatronics technologists and technicians* (Exhibit 8). Furthermore, the national-level data indicates 50% of workers in the field have completed some college or an associate degree as their highest level of educational attainment. The Bureau of Labor Statistics (BLS) lists the following typical entry-level education level for the occupation in this report:

Exhibit 8: Entry-level education preferred by employers nationally, Bureau of Labor Statistics

Occupation	Education Level
Electro-Mechanical and Mechatronics Technologists and Technicians	Associate degree

EDUCATIONAL SUPPLY

Community College Supply

Exhibit 9 shows the annual and three-year average number of awards conferred by community colleges in the related TOP code: Electro-Mechanical Technology (0935.00). The only two colleges with completions in the region are Santa Ana and Orange Coast.

Exhibit 9: Regional community college awards (certificates and degrees), 2023-2025

TOP Code	Program	College	2022-23 Awards	2023-24 Awards	2024-25 Awards	3-Year Average
0935.00	Electro-Mechanical Technology	Orange Coast	-	3	1	1
		Santa Ana	8	11	12	10
		OC Subtotal	8	14	13	12
Supply Total/Average			8	14	13	12

Exhibit 10 displays the community college awards broken down by award type. In this case, the majority of awards issued by community colleges are certificates (58%).

Exhibit 10: Community college awards by award type, 2023-2025

Award Type	# of Awards	% of Awards
A.A./A.S. degrees	5	42%
Certificates	7	58%
Total	12	100%

Other Postsecondary Supply

For a comprehensive regional supply analysis, it is important to consider the supply from other institutions in the region that provide training programs for *electro-mechanical and mechatronics technologists and technicians*. Exhibit 11 shows the number of awards conferred by one institution in relevant programs. Due to different data collection periods, the most recent data is from 2022 to 2024. Between 2022 and 2024, other postsecondary college institutions in the region conferred an average of 27 sub-baccalaureate awards. Sub-baccalaureate awards include associate degrees, postsecondary awards, and other academic awards that typically take fewer than four years to complete.

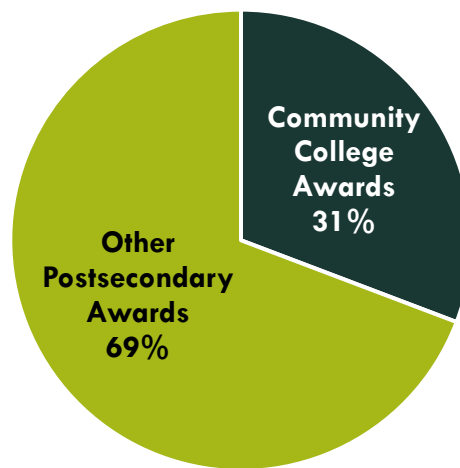
Currently, there are no other postsecondary institutions in the greater LA/OC region that have conferred awards in these related CIP codes in the past three years:

- Electromechanical/Electromechanical Engineering Technology/Technician (15.0403)
- Mechatronics, Robotics, and Automation Engineering Technology/Technician (15.0407)
- Industrial Electronics Technology/Technician (47.0105)

Exhibit 11: Other regional postsecondary awards, 2022-2024

CIP Code	Program	Postsecondary Institution	2021-22 Awards	2022-23 Awards	2023-24 Awards	3-Year Average
15.0406	Automation Engineer Technology/ Technician	Southern California Institute of Technology	-	40	41	27
Supply Total/Average			-	40	41	27

Exhibit 12 shows the proportion of community college awards conferred in the greater Los Angeles/Orange County region compared to the number of other postsecondary awards for the programs in this report. The majority of awards conferred in these programs are awarded by other institutions in the greater Los Angeles/Orange County region.

Exhibit 12: Percentage of community college awards compared to other postsecondary institution awards in the Los Angeles/Orange County region

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POWERED BY

**DATA SOURCES**

- O*NET Online
- Lightcast (formerly Emsi)
- Bureau of Labor Statistics (BLS)
- California Employment Development Department, Labor Market Information Division, OES
- California Community Colleges Chancellor's Office Management Information Systems (MIS)
- Self-Sufficiency Standard at the Center for Women's Welfare, University of Washington
- Chancellor's Office Curriculum Inventory (COCI 2.0)

Important Disclaimer: All representations included in this report have been produced from primary research and/or secondary review of publicly and/or privately available data and/or research reports. Efforts have been made to qualify and validate the accuracy of the data and the reported findings; however, neither the Centers of Excellence, COE host District, nor California Community Colleges Chancellor's Office are responsible for applications or decisions made by recipient community colleges or their representatives based upon components or recommendations contained in this study.

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