

Advanced Transportation & Logistics

Los Angeles County
Sector Profiles Project



Prepared by the Los Angeles Center of Excellence

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A project supported by funding from the California Community Colleges
Chancellor's Office Workforce and Economic Development Division



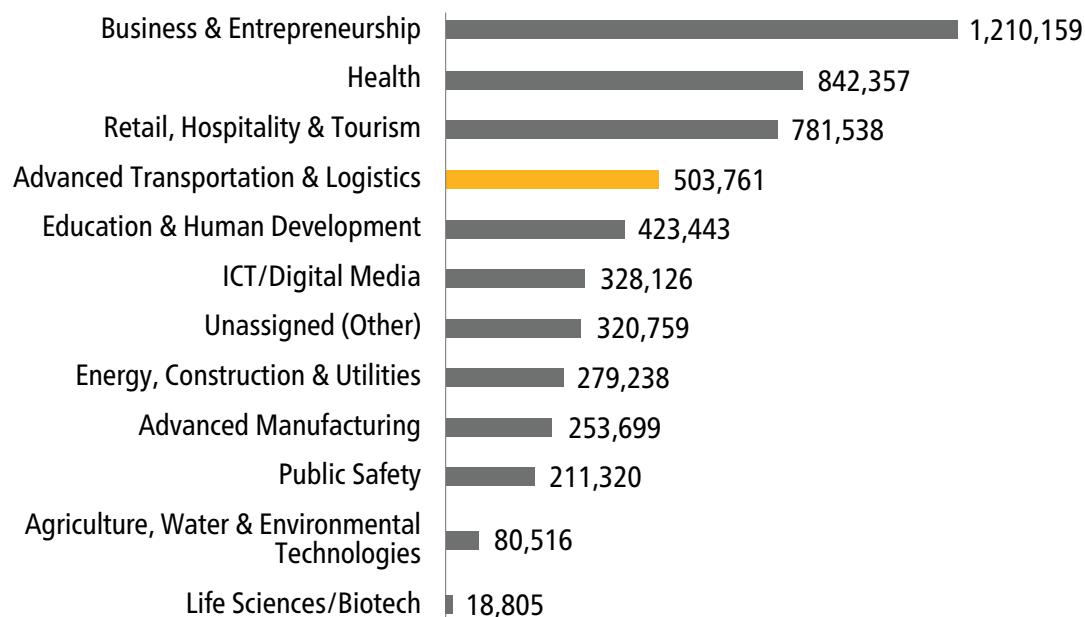
Introduction

To support the collaborative planning and development of career education (CE) programs and to inform regional investments in Los Angeles County, the Los Angeles Center of Excellence developed a series of sector profiles examining labor market and community college program data that identify opportunity areas for workforce development in the region.

These sector profiles highlight middle-skill occupations—jobs that typically require some form of education or training beyond a high school diploma, but less than a bachelor's degree. These occupations are a critical component of the overall workforce and support the economic vitality of the county and state.

The profiles bring attention to community college programs aligned with key middle-skill occupations and by analyzing the number of awards being conferred by postsecondary institutions, identify whether a shortage or oversupply of workers exist for these priority occupations in the sector.

2024 Sector Employment



Advanced Transportation & Logistics IN L.A. COUNTY

503,761

Jobs in 2024

511,335

Projected Jobs in 2029

7,574

New Jobs by 2029

2%

Projected Job Growth, 2024-2029

\$68,703

Median Annual Earnings, 2024

10%

Of Los Angeles County Employment, 2024

Regional Importance

The advanced transportation and logistics sector is vital to regional supply chains and the movement of imported and exported goods as part of the global trade sector since the county is home to the nation's two largest ports: Long Beach and Los Angeles. However, the ports are just one component of a robust logistics and transportation hub that is also supported by an extensive network of railways, airports, and freeways in the county. California's mandate to eliminate the sale of gas-powered vehicles by 2035, as well as other state and federal regulatory activity that supports carbon neutrality goals, including rebates and tax credits, have influenced the adoption of EV technology and fueled the demand for workers to install infrastructure to support this technology.



L.A. Jobs First:

“The Los Angeles County Regional Report,” which is part of the Governor’s “California Jobs First” initiative, identifies economic priorities for the region. Due to the county’s role as an important state, national, and international center for trade and logistics, the transportation and logistics sector was selected as a target sector. The sector employs more than 97,000 workers, and there is substantial well-paid employment in two related subsectors: scheduled passenger air transportation (28,000 workers) and freight transportation arrangement and marine cargo handling (more than 63,350 jobs). Another notable sector is the EV industry, particularly in downtown L.A., South Bay, and Orange County. L.A.’s carbon-neutrality plans are expected to drive EV integration, the expansion of EV infrastructure, and increase demand for sustainable transportation. The Los Angeles Collaborative’s “Transportation & Logistics Activation Plan” identifies next steps that include expanding access to funding and incentives for transportation or logistics companies to adopt carbon-neutral strategies, including supporting individual drivers who wish to adopt lower emission vehicles.

Sources:

- California Jobs First, “Los Angeles County Regional Report, Part 2,” California Jobs First, September 2024, https://24053461.fs1.hubspotusercontent-na1.net/hubfs/24053461/LA%20County%20CJF%20Regional%20Report%20%93Part%202_093024.pdf.
- L.A. Regional Collaborative, “Transportation & Logistics Activation Plan,” June 30, 2025. https://24053461.fs1.hubspotusercontent-na2.net/hubfs/24053461/Activation%20Plans/Transportation%20and%20Logistics_02.28.25.pdf.

Top Middle-Skill Occupations

By applying specific criteria to an analysis of employment in the sector, the L.A. COE identified the top 10 occupations in the sector in the county.

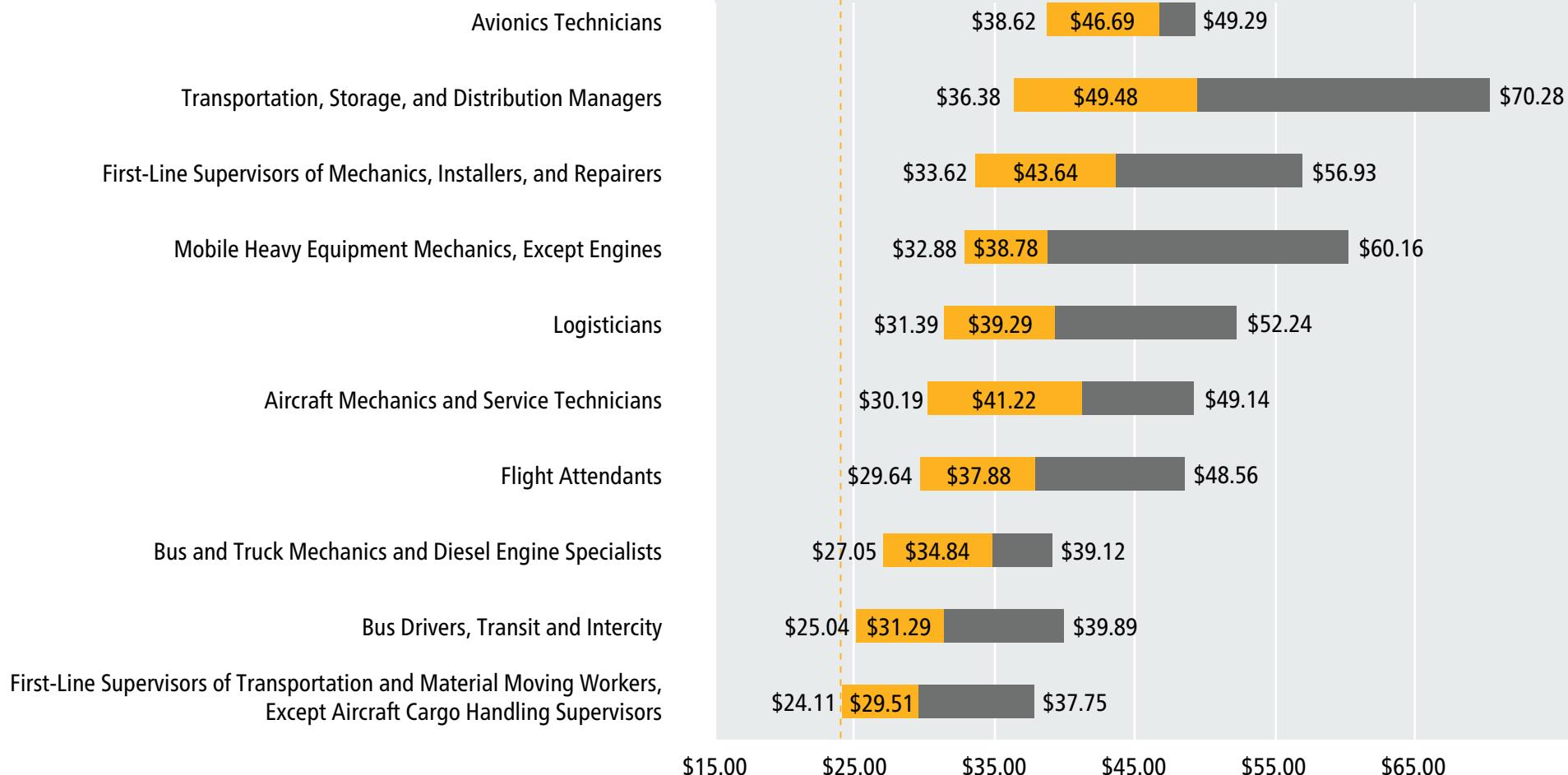
- Only middle-skill occupations were included to highlight jobs aligned with community college training.
- To bring attention to jobs that are in demand by employers, only occupations with more than 50 annual openings in the county were selected.
- Finally, to underscore the importance of connecting students with job opportunities that offer sustainable wages, occupations that pay above the region's living wage of \$24.03 were chosen for inclusion.

Occupation (SOC Code)	2024 Jobs	2029 Jobs	5-Year % Change	Annual Openings	Entry-Level Education
First-Line Supervisors of Transportation and Material Moving Workers, Except Aircraft Cargo Handling Supervisors (53-1047)	17,971	18,018	0%	1,784	HS diploma or equivalent
Flight Attendants (53-2031)	9,675	10,544	9%	1,519	HS diploma or equivalent
First-Line Supervisors of Mechanics, Installers, and Repairers (49-1011)	13,248	13,427	1%	1,094	HS diploma or equivalent
Bus Drivers, Transit and Intercity (53-3052)	8,326	8,548	3%	1,048	HS diploma or equivalent
Transportation, Storage, and Distribution Managers (11-3071)	9,223	9,254	0%	748	HS diploma or equivalent
Logisticians (13-1081)	6,982	7,422	6%	684	Bachelor's degree
Mobile Heavy Equipment Mechanics, Except Engines (49-3042)	5,966	6,119	3%	525	HS diploma or equivalent
Aircraft Mechanics and Service Technicians (49-3011)	5,147	5,555	8%	483	Postsecondary nondegree award
Bus and Truck Mechanics and Diesel Engine Specialists (49-3031)	5,407	5,542	2%	478	HS diploma or equivalent
Avionics Technicians (49-2091)	529	605	14%	59	Associate degree

Note: Occupations are grouped by sector according to the occupational titles and codes assigned by the Bureau of Labor Statistics' Standard Occupational Classification (SOC) system.

Hourly Wages

Living Wage,
\$24.03/hour



Note: The hourly wage ranges include the 25th percentile (entry-level), median, and 75th percentile (experienced) hourly earnings for workers employed in these occupations Los Angeles County.

Job Postings

Job postings can provide insights into workforce trends and employer hiring preferences. Analysis can reveal which competencies and skills employers most value for new hires, areas in which employers are hiring more aggressively than others, and changes in demand for certain types of workers or specific skillsets.



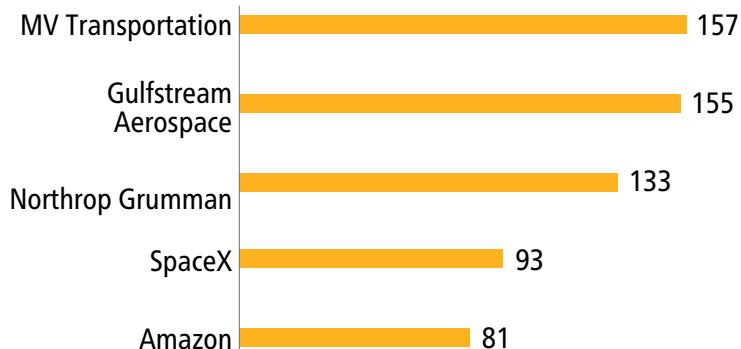
Earnings

Occupational Title	Number of Job Postings	Median Annual Earnings
Logisticians	3,140	\$64,768
Transportation, Storage, and Distribution Managers	2,812	\$84,736
First-Line Supervisors of Mechanics, Installers, and Repairers	2,656	\$83,200
First-Line Supervisors of Transportation and Material Moving Workers, Except Aircraft Cargo Handling Supervisors	1,552	\$55,040
Bus and Truck Mechanics and Diesel Engine Specialists	674	\$72,960
Aircraft Mechanics and Service Technicians	576	\$77,056
Mobile Heavy Equipment Mechanics, Except Engines	546	\$70,912
Bus Drivers, Transit and Intercity	275	\$56,064
Avionics Technicians	216	\$77,055
Flight Attendants	65	\$99,584

In-Demand Skills

Specialized Skills	Soft Skills	Software and Technical Skills
<ul style="list-style-type: none">• Warehousing• Supply Chain• Inventory Management• Purchasing• Procurement	<ul style="list-style-type: none">• Communication• Operations• Management• Customer Service• Leadership	<ul style="list-style-type: none">• Microsoft Office (Excel, Outlook, PowerPoint, Word)• Warehouse Management Systems• SAP Applications• Inventory Management System• Spreadsheets

Top Employers



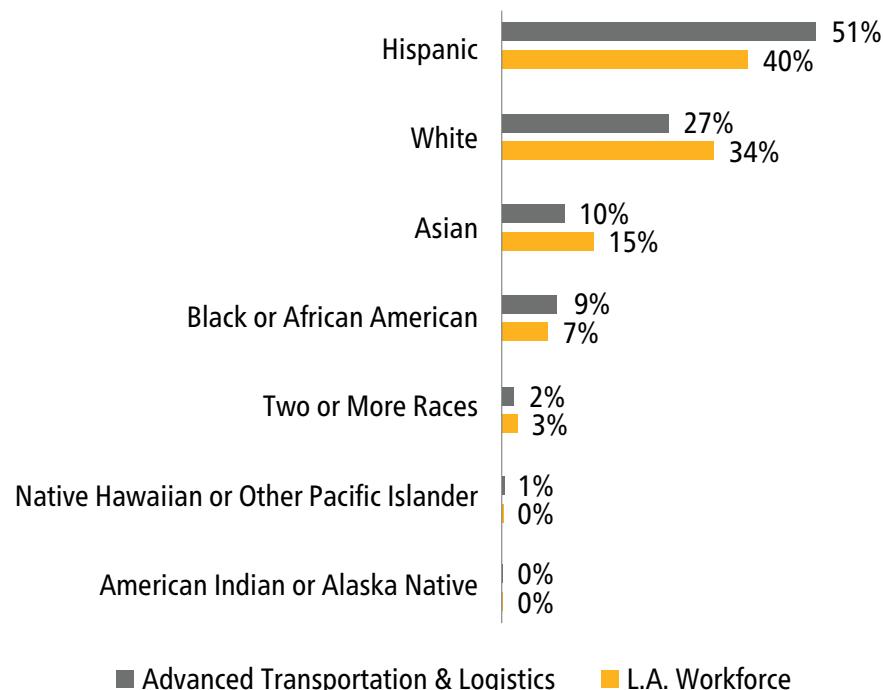
Note: Job posting data was analyzed for the top 10 middle-skill occupations in Los Angeles County from August 1, 2024 to July 31, 2025. Postings are limited to in-state employers and exclude staffing companies.

Workforce & Student Demographics

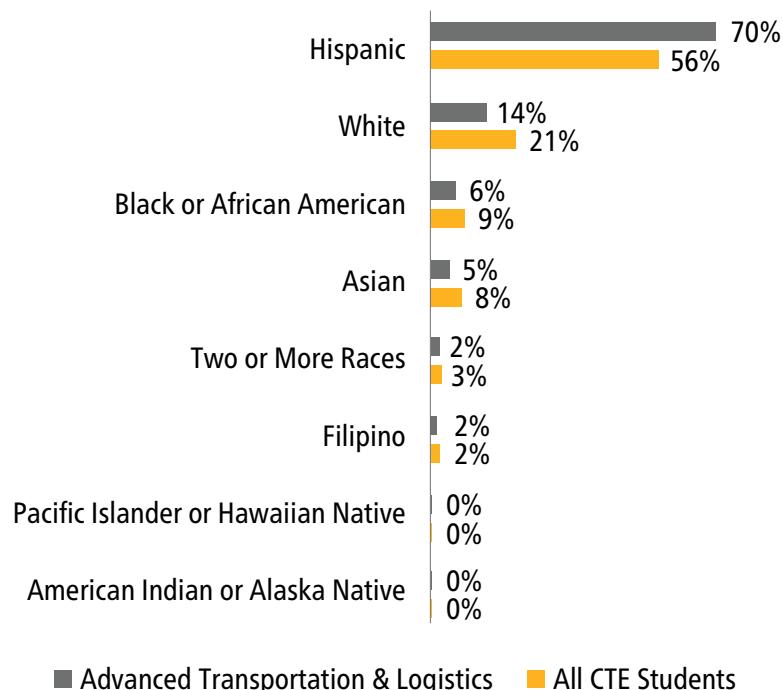
Due to the diversity of their student populations, community colleges play an important role in actively addressing equity gaps and disparities in the labor market while encouraging access to in-demand, well-paid career opportunities for students. Examining workforce race and ethnicity alongside student race and ethnicity can be useful for assessing

whether students from diverse backgrounds are equitably transitioning into the workforce and securing opportunities that align with their education. This type of data analysis can assist with identifying barriers to employment or advancement for certain groups and can highlight employment areas that might benefit from promoting inclusive hiring practices.

Workforce Race & Ethnicity



Student Race & Ethnicity



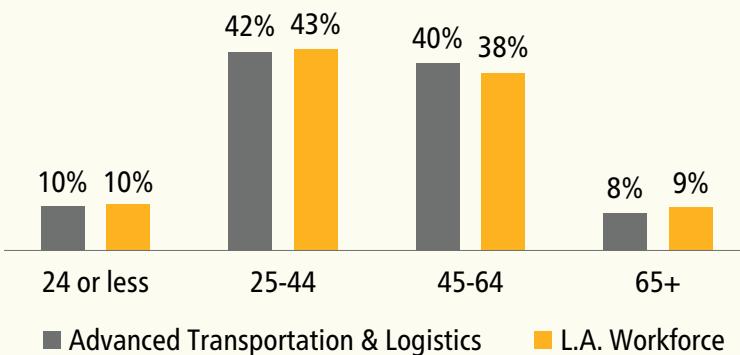
Note: For student data, "All Masked Values," "Unknown," and "Multiple Values Reported" are not included in the above charts. Data shown is from the 2023-24 academic year.

Examining demographics can lend insights into barriers to employment and assist with addressing impending workforce shortages or calibrating institutional allocation of resources.

The L.A. COE recommends three strategies to address equity gaps for community colleges:

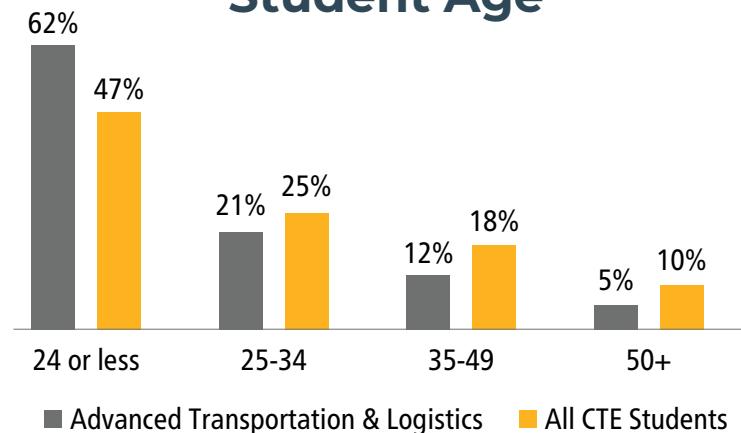
- Collaborate with employers to promote diversity in priority jobs and boost interest among underrepresented groups for these roles.
- Develop targeted recruitment and retention strategies for priority programs with significantly underrepresented groups.
- Focus on closing equity gaps in programs that also have existing disparities in high-demand, well-paid jobs.

Workforce Age

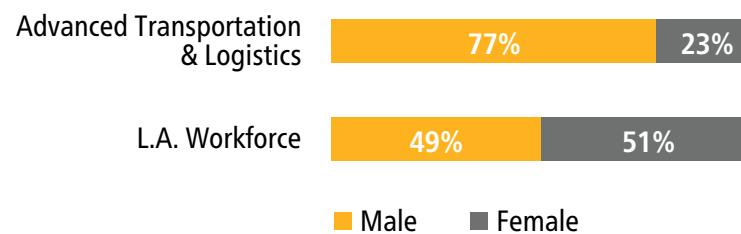


Note: For student data, "All Masked Values," "Unknown," and "Multiple Values Reported" are not included in the above charts. Data shown is from the 2023-24 academic year.

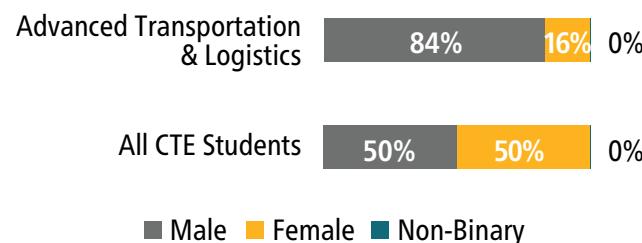
Student Age



Workforce Gender



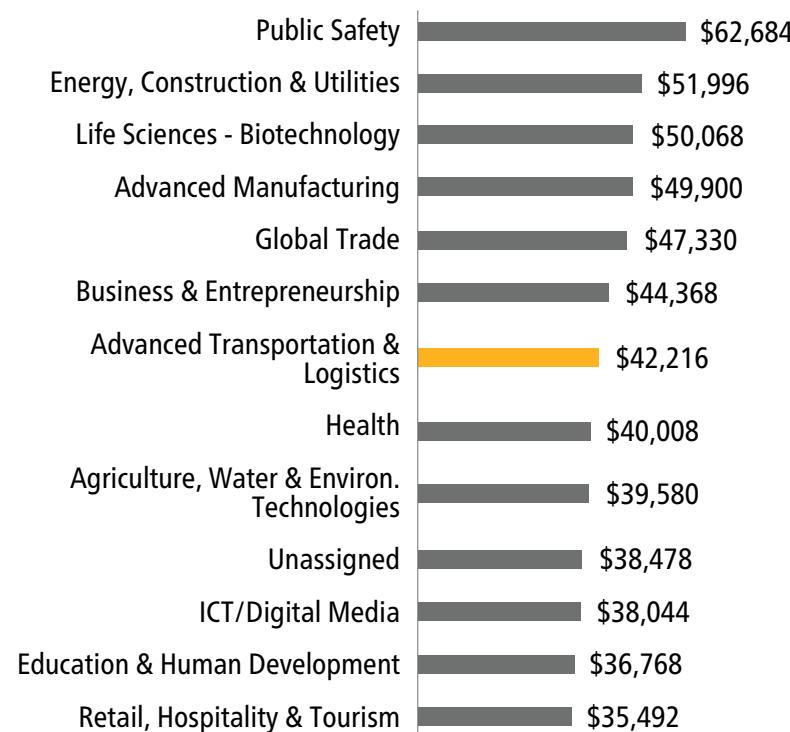
Student Gender



Student Outcomes

Tracking Strong Workforce Program outcomes is critical for evaluating whether regional community colleges are effectively preparing students for in-demand, well-paid jobs. This type of data-driven analysis can assist colleges in assessing whether students are successfully completing programs, securing employment related to their field of study, and increasing their earnings as they transition into the workforce.

Median annual earnings for exiting students, 2022-23



Strong Workforce Program Metrics

	2023-24	2022-23	2022-23	2021-22
Sector	Number of SWP Students	Median Change in Earnings	Percent Earning a Living Wage	Percent with a Job Related to Field of Study
ICT/Digital Media	60,820	29%	34%	68%
Business & Entrepreneurship	59,779	23%	42%	73%
Public Safety	38,218	26%	59%	54%
Health	36,256	38%	35%	83%
Education & Human Development	30,660	32%	27%	76%
Unassigned	14,883	30%	31%	74%
Energy, Construction & Utilities	14,621	35%	51%	77%
Retail, Hospitality & Tourism	11,234	32%	30%	66%
Advanced Manufacturing	9,945	40%	49%	81%
Advanced Transportation & Logistics	7,075	50%	37%	80%
Agriculture, Water & Environmental Technologies	3,641	39%	34%	67%
Global Trade	1,439	25%	48%	59%
Life Sciences - Biotechnology	376	93%	47%	N/A

Note: SWP metrics were the most recent year available.



Program Inventory

Analysis of academic offerings and the average number of awards conferred by community colleges in the county can be used by administrators for strategic planning to address program gaps to meet regional workforce needs, to make informed decisions about resource allocations, and to ensure students have access to programs that lead to promising career outcomes.



Program Awards by Community College

Community College	3-Year Average
Cerritos	122
Citrus	104
Compton	51
East LA	80
El Camino	49
Glendale	21
LA City	-
LA Harbor	-
LA Mission	-
LA Pierce	69
LA Southwest	-
LA Trade-Tech	247
LA Valley	-
Long Beach	95
Mt San Antonio	128
Pasadena	155
Rio Hondo	138
Santa Monica	10
West LA	121
TOTAL	1,390

Program Awards by Taxonomy of Programs (TOP) Code

TOP	Program	3-Year Average
0510.00	Logistics and Materials Transportation	79
0947.00	Diesel Technology	86
0947.20	Heavy Equipment Maintenance	7
0947.40	Railroad and Light Rail Operations	9
0948.00	Automotive Technology	838
0948.30	Motorcycle, Outboard and Small Engine Repair	7
0948.40	Alternative Fuels and Advanced Transportation Technology	50
0949.00	Automotive Collision Repair	64
0950.10	Aviation Airframe Mechanics	77
0950.20	Aviation Powerplant Mechanics	75
3020.10	Aviation and Airport Management	13
3020.20	Piloting	60
3020.30	Air Traffic Control	26
TOTAL		1,390

The above program inventory provides awards data by TOP code and features a three-year average for the academic years 2021-22 to 2023-24.

TOP codes without existing programs are included below to highlight potential opportunities for program development in the sector.

TOP Codes without Existing Programs

TOP	Program
0947.30	Heavy Equipment Operation
0947.50	Truck and Bus Driving
0948.50	Recreational Vehicle Service
0949.10	Upholstery Repair - Automotive
0959.00	Marine Technology
3020.00	Aviation and Airport Management and Services



Demand & Supply Analysis

Occupations with similar knowledge areas, skills, and abilities (KSAs) have been grouped together to evaluate workforce demand and student supply in Los Angeles County. The table compares workforce demand as measured by annual job openings in the county with the supply of unduplicated students as measured by the number of awards conferred by community colleges and other postsecondary institutions.



Occupation	Demand (Annual Openings)	Community College Supply	Other Postsecondary Supply	Undersupply (-) / Oversupply (+)
First-Line Supervisors of Transportation and Material Moving Workers, Except Aircraft Cargo Handling Supervisors (53-1047)	3,216	101	203	-2,912
Transportation, Storage, and Distribution Managers (11-3071)				
Logisticians (13-1081)				
Flight Attendants (53-2031)	1,519	8	0	-1,511
First-Line Supervisors of Mechanics, Installers, and Repairers (49-1011)	2,097	931	65	-1,101
Mobile Heavy Equipment Mechanics, Except Engines (49-3042)				
Bus and Truck Mechanics and Diesel Engine Specialists (49-3031)				
Bus Drivers, Transit and Intercity (53-3052)	1,048	0	0	-1,048
Aircraft Mechanics and Service Technicians (49-3011)	542	183	0	-359
Avionics Technicians (49-2091)				

Note: Due to variations in employer demand and awards conferred each year, it is important to take into consideration that the over- or under-supply of students may be an underestimation or overestimation.



Appendix: Sector Comparison

Sector	Number of Middle-Skill Occupations	Number of Degrees and Certificates Offered	Number of Los Angeles Community Colleges Issuing Awards
Advanced Manufacturing	46	254	16
Advanced Transportation & Logistics	41	176	14
Agriculture, Water & Environmental Technologies	19	83	9
Business & Entrepreneurship (and Global Trade)	45	510	19
Education & Human Development	6	215	19
Energy, Construction & Utilities	49	235	17
Health	40	318	19
ICT/Digital Media	25	808	19
Life Sciences/Biotech	4	49	11
Public Safety	21	122	19
Retail, Hospitality & Tourism	19	178	17
Unassigned (Other)	12	138	19

Data Dashboard

To further assist with regional planning and strategic investments, the L.A. COE has prepared an interactive online dashboard featuring labor market and community college program data.

Access the dashboard:
<https://bit.ly/2025LAdat>



Data Sources:

- Lightcast 2025.3, QCEW, non-QCEW, Self-Employed
- Centers of Excellence Skill/Occupation Crosswalk
- California Community Colleges Chancellor's Office DataVista
- California Community Colleges Chancellor's Office Data Mart
- Integrated Postsecondary Education Data System (IPEDS)
- Chancellor's Office Curriculum Inventory System (COCI)

Accessibility:

If, for any reason, this document is not accessible or if you have specific needs for readability, please contact us, and we will do our utmost to accommodate you with a modified version.

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Important Disclaimer:

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