MARCH 14, 2023 11:00 AM - 1:00 PM

POWERED BY









Jermaine Hampton

Sr. Director, Workforce Development and Special Projects LAEDC

Jose Pelayo
Program Manager, Workforce Development
LAEDC

Mariana Hernandez
Asst. Program Manager, Workforce Development
LAEDC



The LA -19 is leading industry -education partnerships to collaboratively strengthen our region's talent development ecosystem

- 1. Data-driven research on the supply and demand for talent
- 2. Industry Councils and Regional Program Advisories
- 3. Developing work-based learning and employment opportunities

For more information, visit: www.CompetitiveWorkforce.LA



Dr. Narineh Makijan Chair/Assistant Vice President Los Angeles Regional Consortium



Dr. David Liaw

Director of Talent Acquisition for the Strategic Space Systems Division Northrop Grumman



Lisa Gussman - Zairi Senior Contracts Manager Marvin Engineering Co, Inc.



Angeline Benitez Sr Business Development Strategist Clark Construction



Dr. Kim A. Armstrong Sr. HR Business Partner The Boeing Company



Max Dunsker Research Analyst, Institute for Applied Economics LAEDC



Current Landscape

For Aerospace & Defense, industrial employment is measured using 7 main NAICS codes

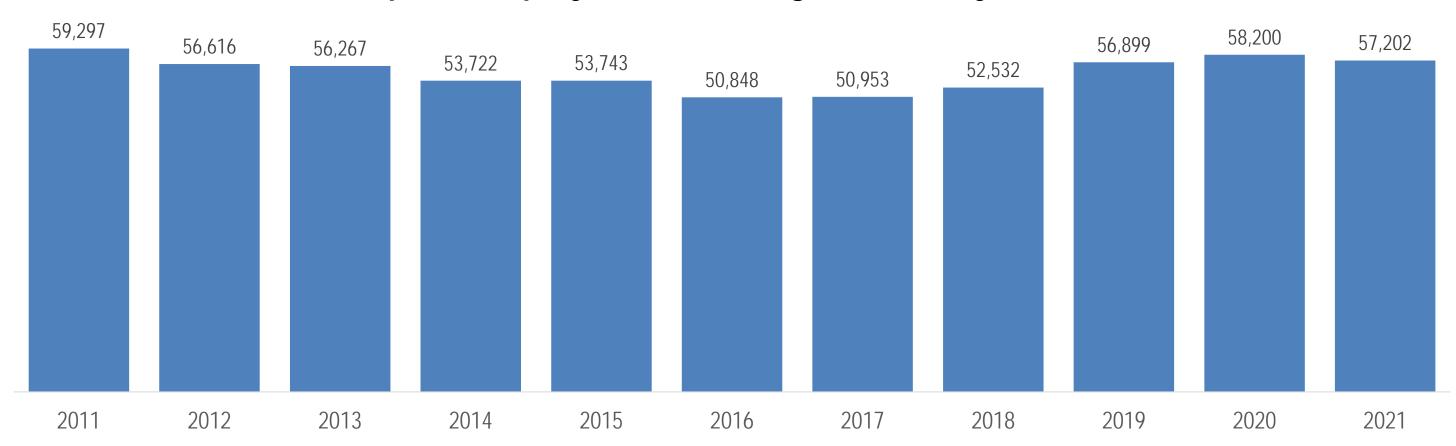
- Search, Detection, Navigation, Guidance, Aeronautical, and Nautical System and Instrument Manufacturing
- Aircraft Manufacturing
- Aircraft Engine and Engine Parts Manufacturing
- Other Aircraft Parts and Auxiliary Equipment Manufacturing
- Guided Missile and Space Vehicle Manufacturing
- Guided Missile and Space Vehicle Propulsion Unit and Propulsion Unit Parts Manufacturing
- Other Guided Missile and Space Vehicle Parts and Auxiliary Equipment Manufacturing



Current Landscape

AEROSPACE & DEFENSE REGIONAL PROGRAM ADVISORY

Aerospace Employment Los Angeles County, 2011 - 2021



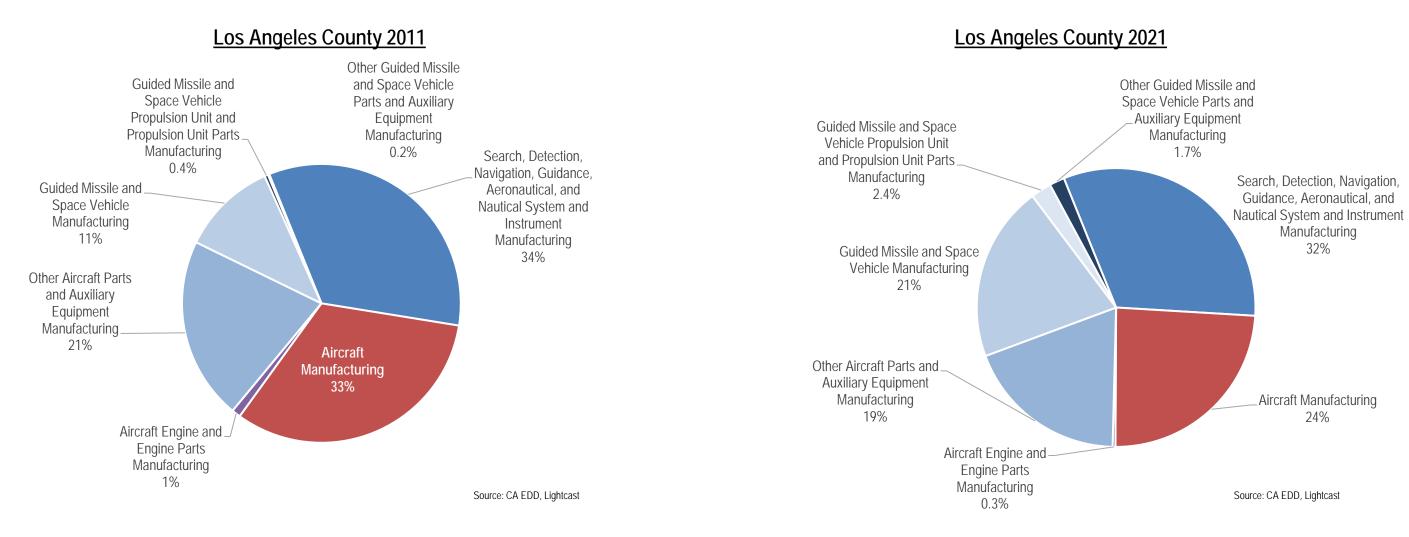
Source: CA EDD, Lightcast

Aerospace employment has been stable for the last 10 years, ranging from about 50,000 to 60,000 employees. There was a dip in the early-2010s, but a resurgence in the mid-2010s led to more employees in the industry.

Current Landscape

LAEDC

Change in Aerospace Subindustry Employment in Los Angeles County, 2011 - 2021

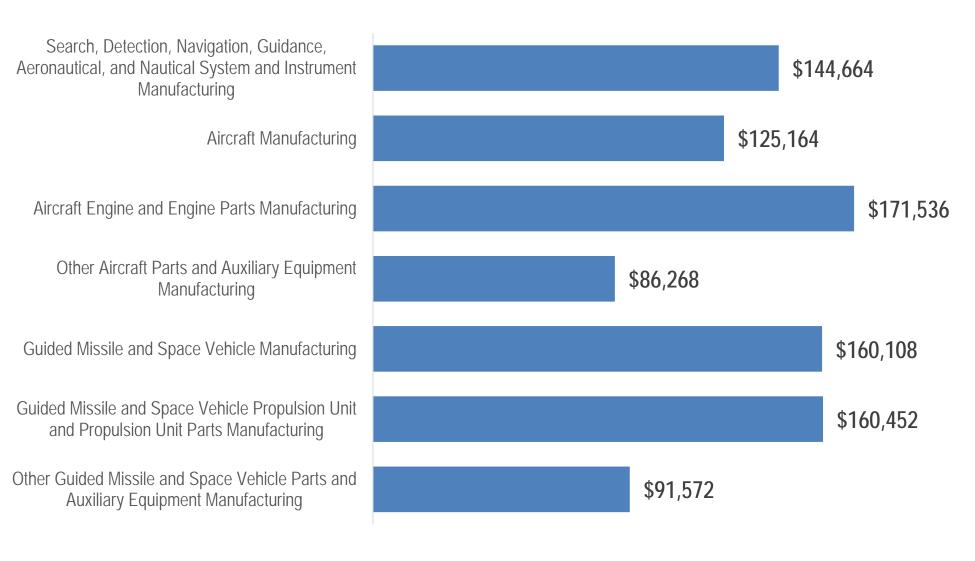


Since 2011, instrument manufacturing remains the largest subindustry. Aircraft Manufacturing's share of industry employment has decreased about 10 percent. Guided Missile and Space Vehicle (GMSV) Manufacturing-related subindustries increased their employment share to about 25 percent of the industry.

Current Landscape

Average Annual Pay in Aerospace Industries

Los Angeles County 2021



Each subindustry pays a living wage in Los Angeles County, with none paying less than \$86,000 per year.

In May 2021, the average salary in Los Angeles County was about \$66,000 per year.

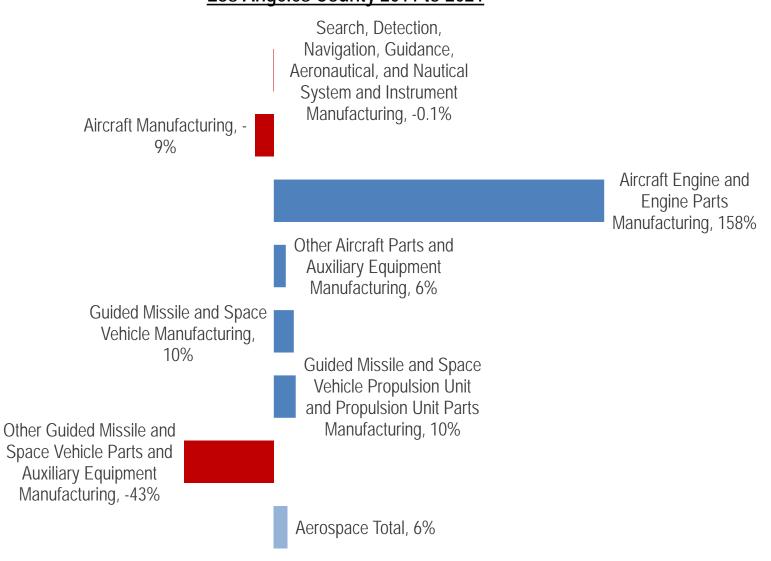
Source: CA EDD, Lightcast



Current Landscape

Real Wage Growth in Aerospace Subindustries

Los Angeles County 2011 to 2021



Over the last 10 years, real wage growth among the subindustries has varied.

The largest increase occurred in Aircraft Engine and Engine Parts Manufacturing, with 158 percent growth since 2011.

Overall, real wages in the Aerospace industry grew 6 percent.

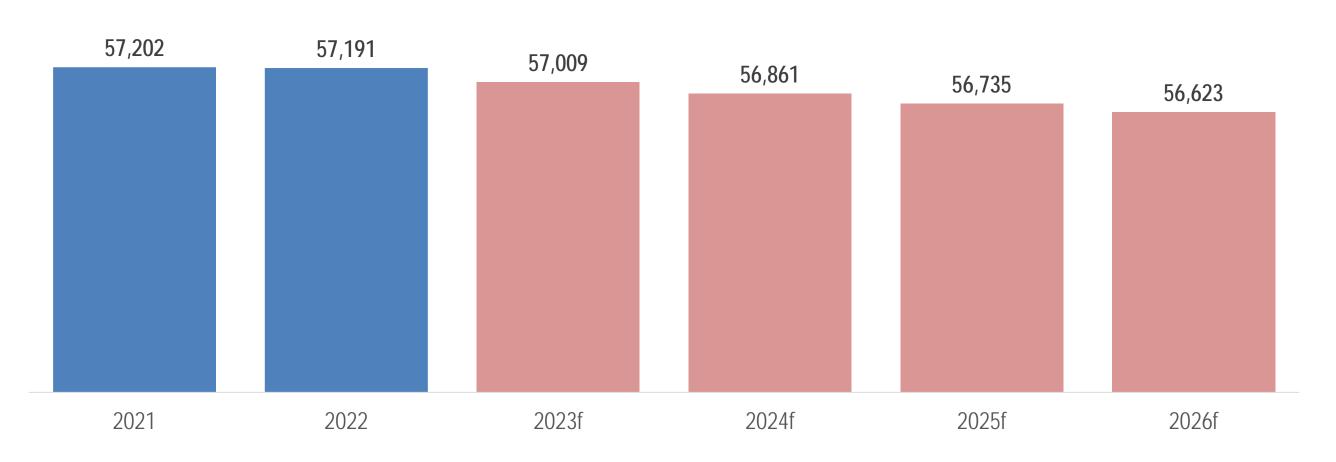




Looking Forward

Over the next 5 years, employment is forecasted to have a small contraction of 2 percent, a decrease of about 100 jobs per year.

Forecasted Aerospace Employment Los Angeles County, 2021 - 2026





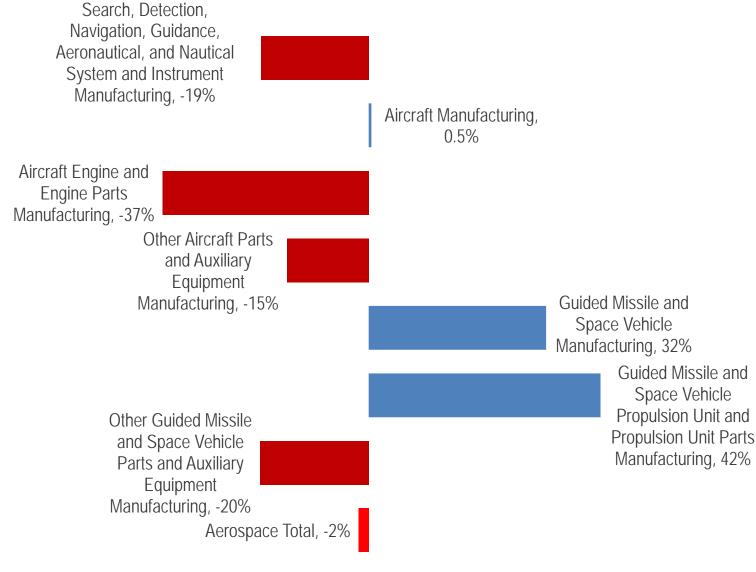


However, the Aerospace industry is anticipated to grow in the Guided Missile and Space Vehicle (GMSV) Manufacturing and GMSV Propulsion Unit and Propulsion Unit Parts Manufacturing subindustries.

This largely offsets the contraction in forecasted employment in other subindustries.

Looking Forward

Forecasted Employment Growth in Aerospace Industries in Los Angeles County, 2021 - 2026



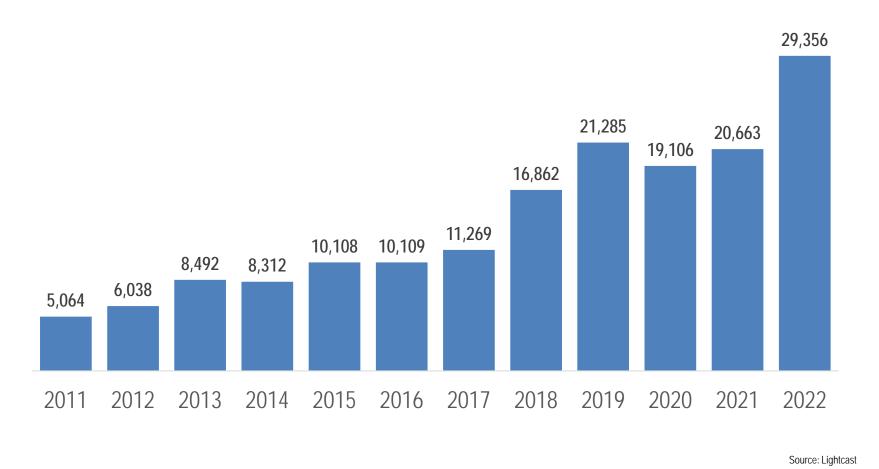




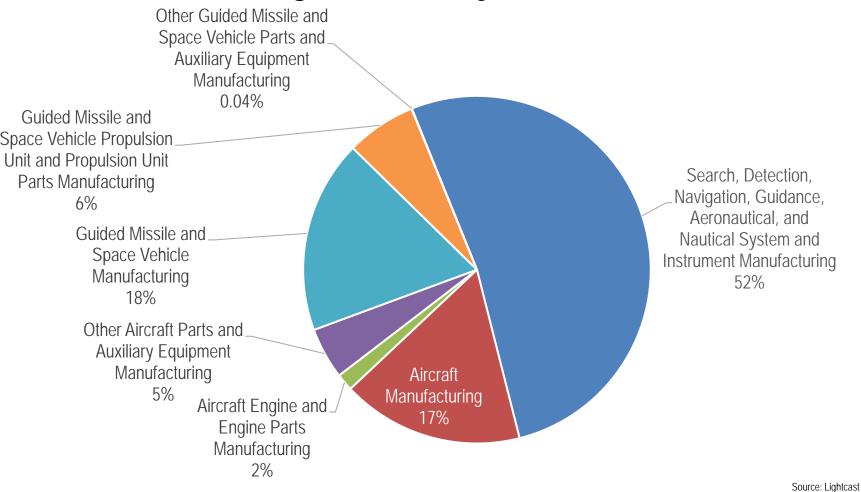
Employer Job Postings

Job postings peaked in 2022, with almost 30,000 job postings compared to about 5,000 in 2011. Instrument manufacturing represents the largest subindustry over the last 10 years, with 52 percent of posts.

Total Aerospace Job Postings Los Angeles County, 2011 - 2022



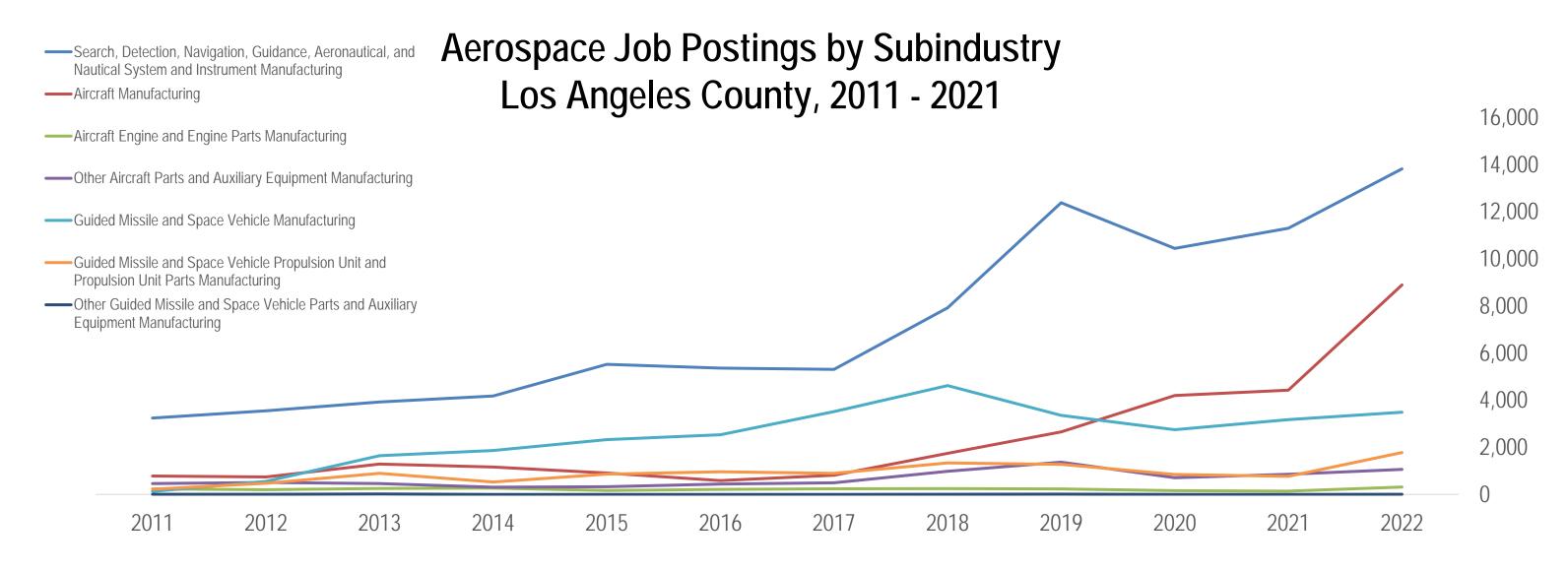
Distribution of Aerospace Job Postings Los Angeles County, 2011 - 2022





Employer Job Postings

In 2020, Aircraft Manufacturing companies began posting for more positions than those in GMSV Manufacturing.



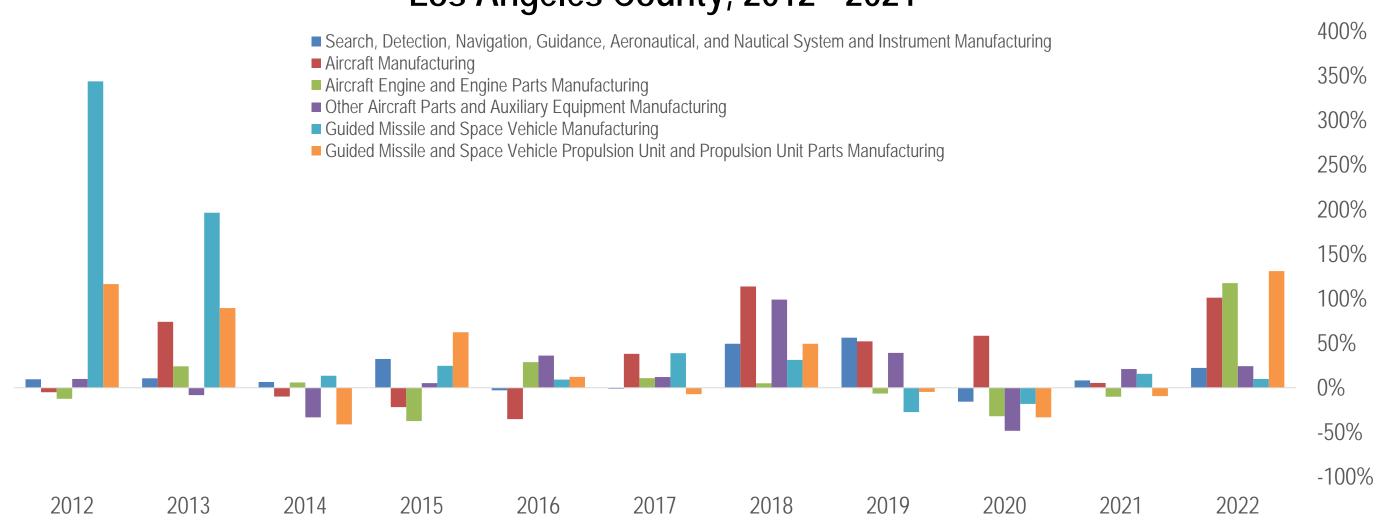




Employer Job Postings

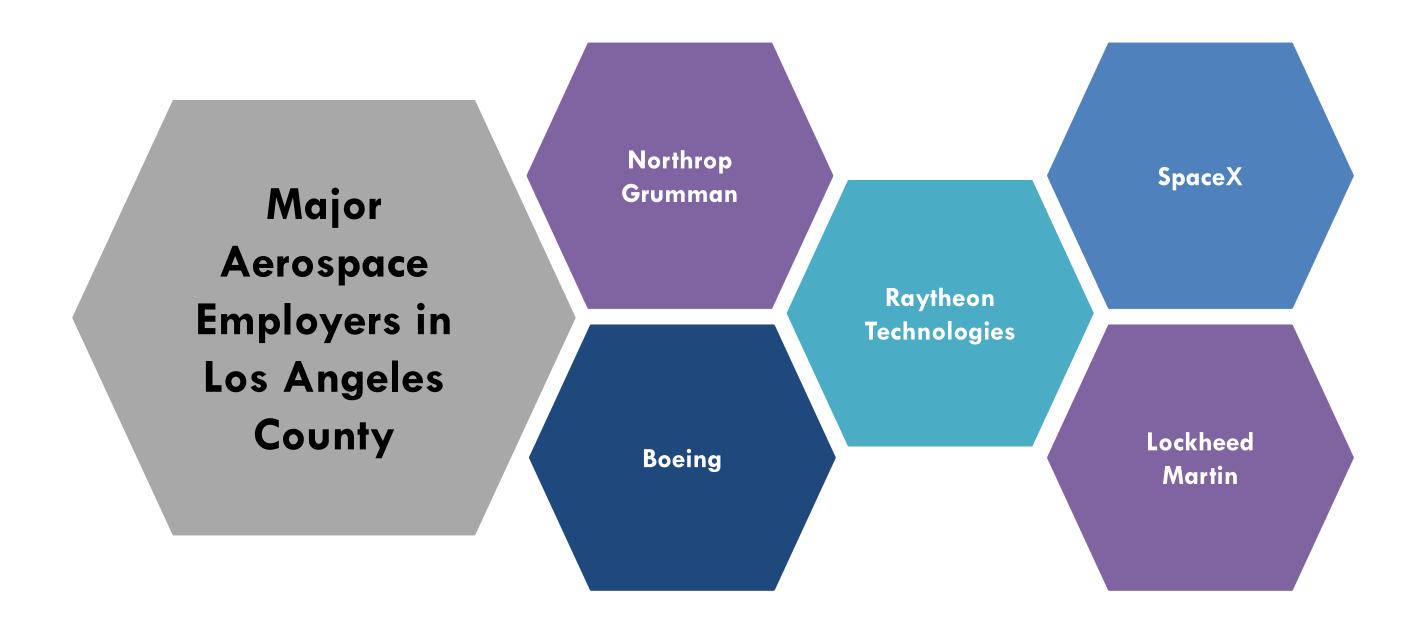
Job postings jumped in 2022 across all subindustries, recovering from the pandemic-related contraction in 2020.

Growth in Aerospace Job Postings Los Angeles County, 2012 - 2021





Employer Job Postings

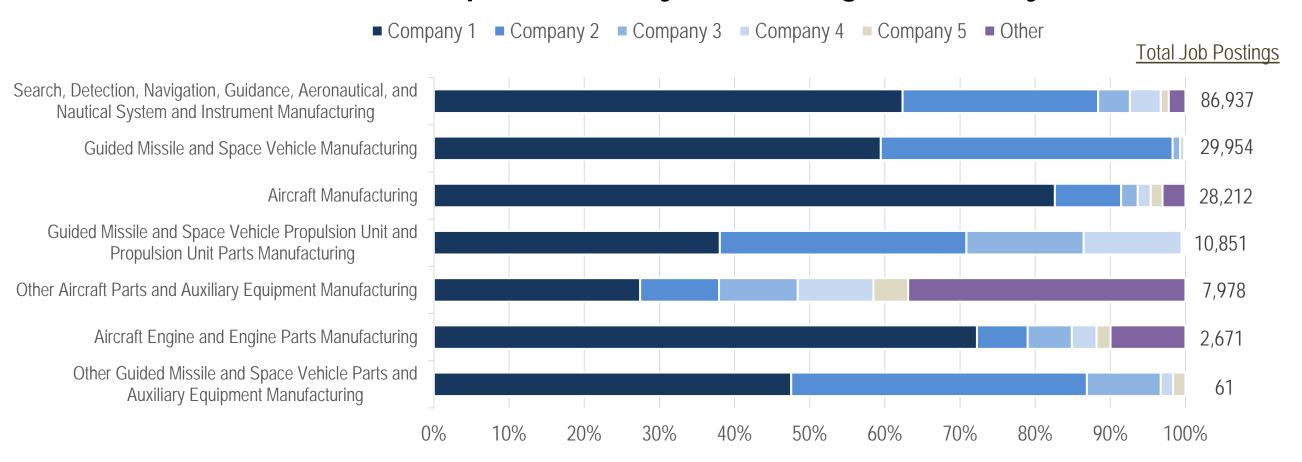




Job Postings: Concentration in Top 5

Most subindustries have a high concentration of their job postings within their top 5 respective companies. Only Other Aircraft Parts and Auxiliary Equipment Manufacturing is not heavily concentrated.

Concentration of Hiring Among the Top 5 Companies by Job Postings in the Aerospace Industry of Los Angeles County, 2011 - 2022





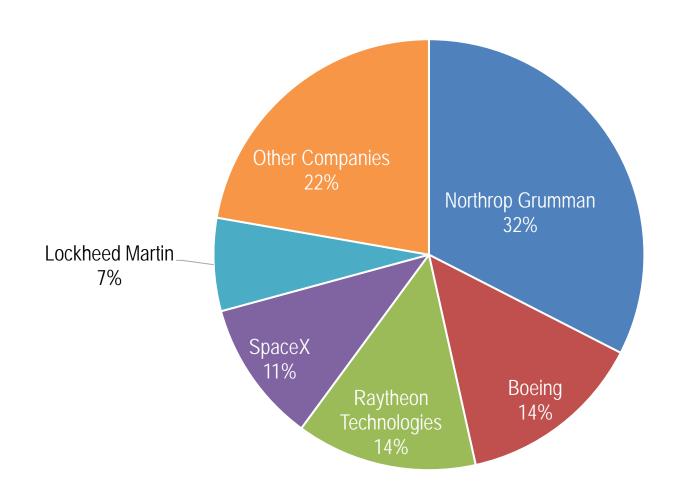


Job Postings: Concentration in Top 5

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Northrop Grumman has the largest share of job postings, representing 32 percent of posted opportunities.

Top Companies by Job Postings in the Aerospace Industry Los Angeles County, 2011 - 2022



Source: Lightcast



Industry Demographics





The Aerospace industry is older than most other industries in Los Angeles County, with more than 60 percent of workers older than 40.



Source: PUMS

Industry Demographics

Educational Attainment Distribution of Aerospace Workers, 2021



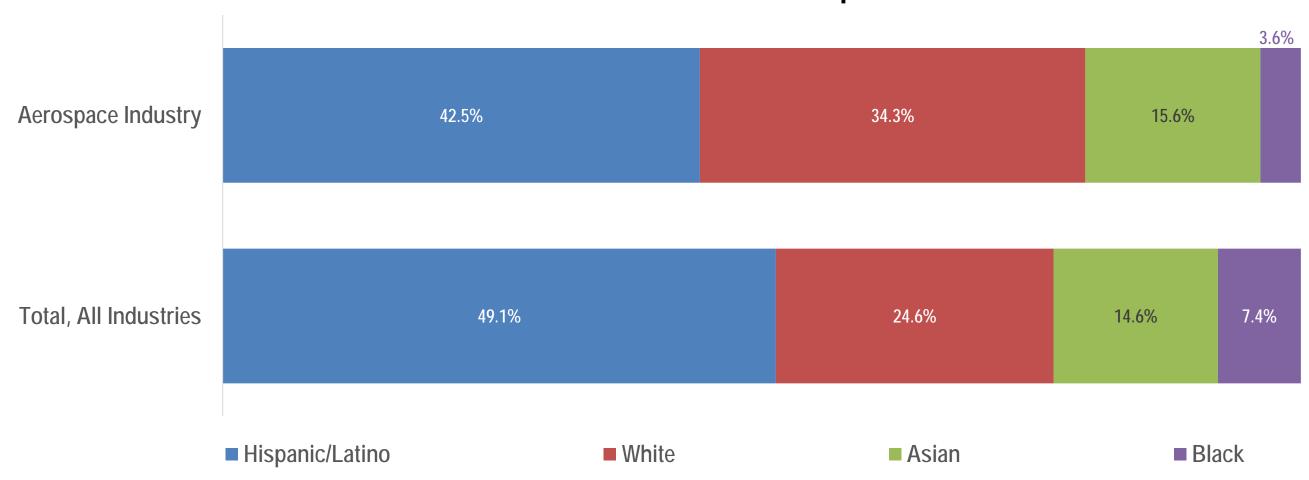
Aerospace industry workers are also more educated than those in other industries, with over 75 percent of workers having at least some college or an Associate's degree.



Industry Demographics

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Racial/Ethnic Distribution of Aerospace Workers, 2021

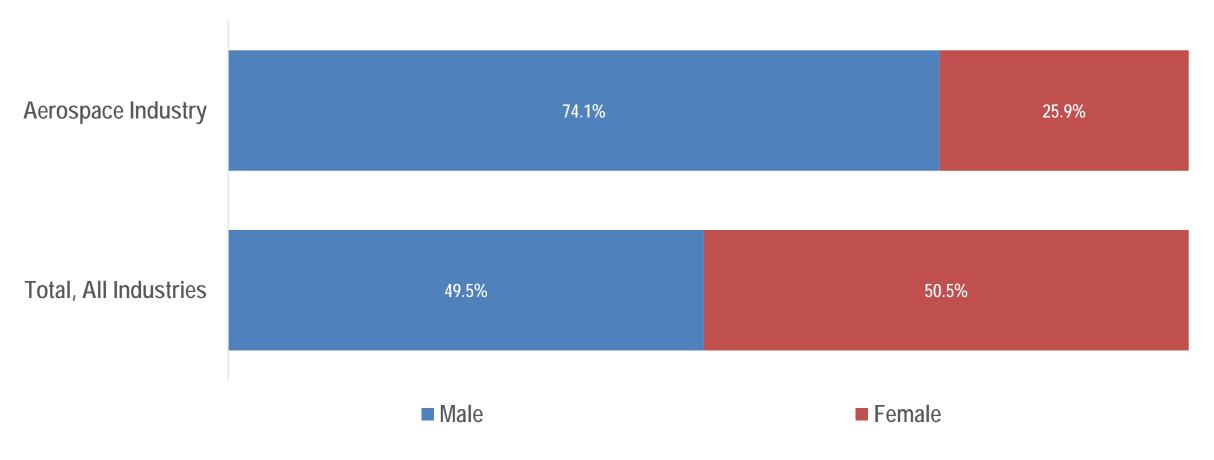


Source: PUMS

Compared to other industries, Hispanic/Latino and Black workers are underrepresented.



Gender Distribution of Aerospace Workers, 2021



Source: PLIMS

The Aerospace industry is a long way from gender parity, with a skew towards male employment.



Occupational Profiles

Metric		Aircraft Mechanics And Service Technicians	Avionics Technicians	Other Assemblers and Fabricators	Other Engineering Technologists And Technicians, Except Drafters
Sex	Male	94%	100%	62%	75%
SEX	Female	6%	0%	38%	25%
Education	Less than HS	2%	12%	27%	8%
	High School	27%	26%	36%	20%
	Some College/Associate's	55%	55%	27%	44%
	Bachelors	7%	8%	8%	23%
	Masters or Higher	8%	0%	2%	6%
	<25	13%	0%	8%	12%
Age	25-39	41%	38%	25%	26%
	40-54	26%	6%	36%	32%
	>54	20%	56%	30%	31%
Race	Hispanic	64%	83%	73%	34%
	White	27%	10%	3%	30%
	Asian	8%	6%	18%	25%
	Black	0%	0%	5%	8%

Female workers and Black workers are underrepresented in most of the selected occupations. These aerospace occupations are accessible, with younger people and those with less educational attainment able to find employment.

CONTACT INFORMATION Max Dunsker max.dunsker@laedc.org



Larry Holt Vice President of Economic & Workforce Development LAEDC



Luke Meyer Director LA Center of Excellence for Labor Market Research hosted at Mt. San Antonio College



Community College Talent Supply

Five community college program areas have historically prepared students for today's target careers in Aerospace:

- Aeronautical and Aviation Technology
- Aviation Airframe Mechanics
- Aviation Powerplant Mechanics
- Engineering, General (requires Calculus) (Transfer)
- Engineering Technology, General (requires Trigonometry)

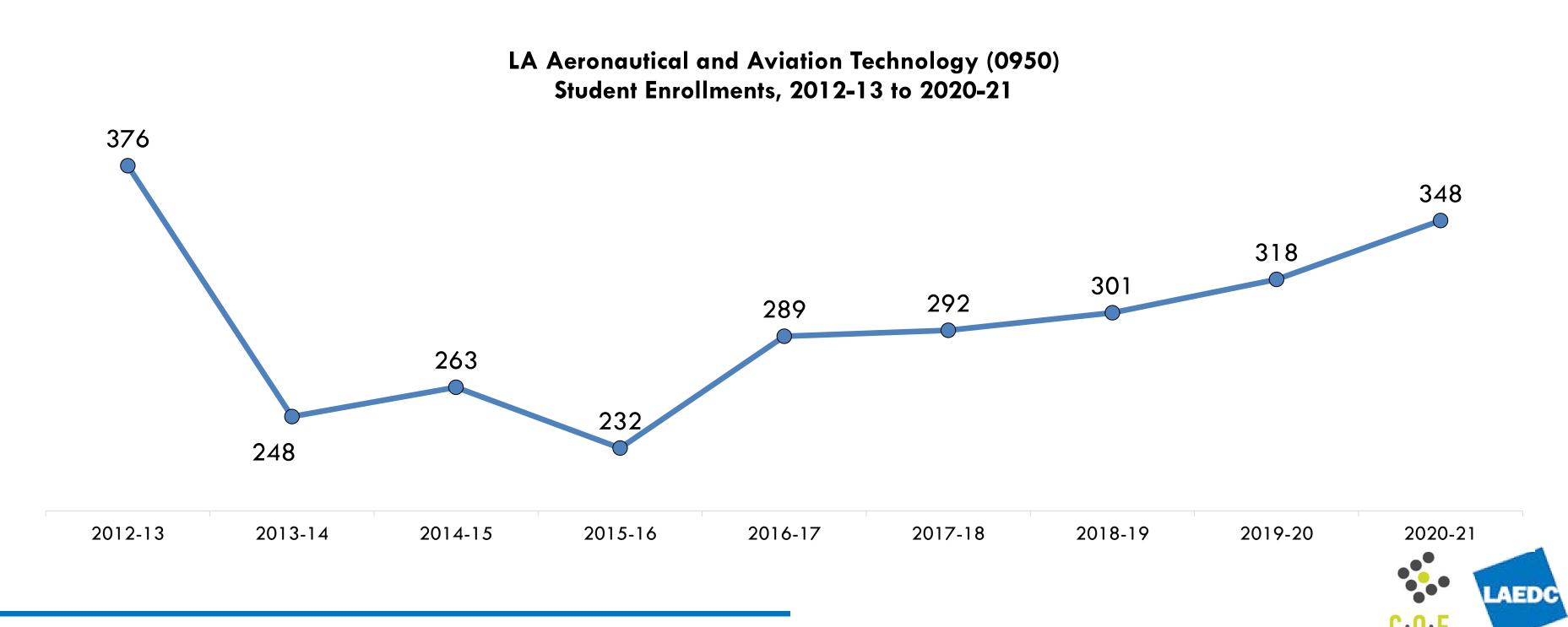


Aerospace Student Enrollments

AEROSPACE & DEFENSE REGIONAL PROGRAM ADVISORY

Source: Cal-PASS Plus LaunchBoard

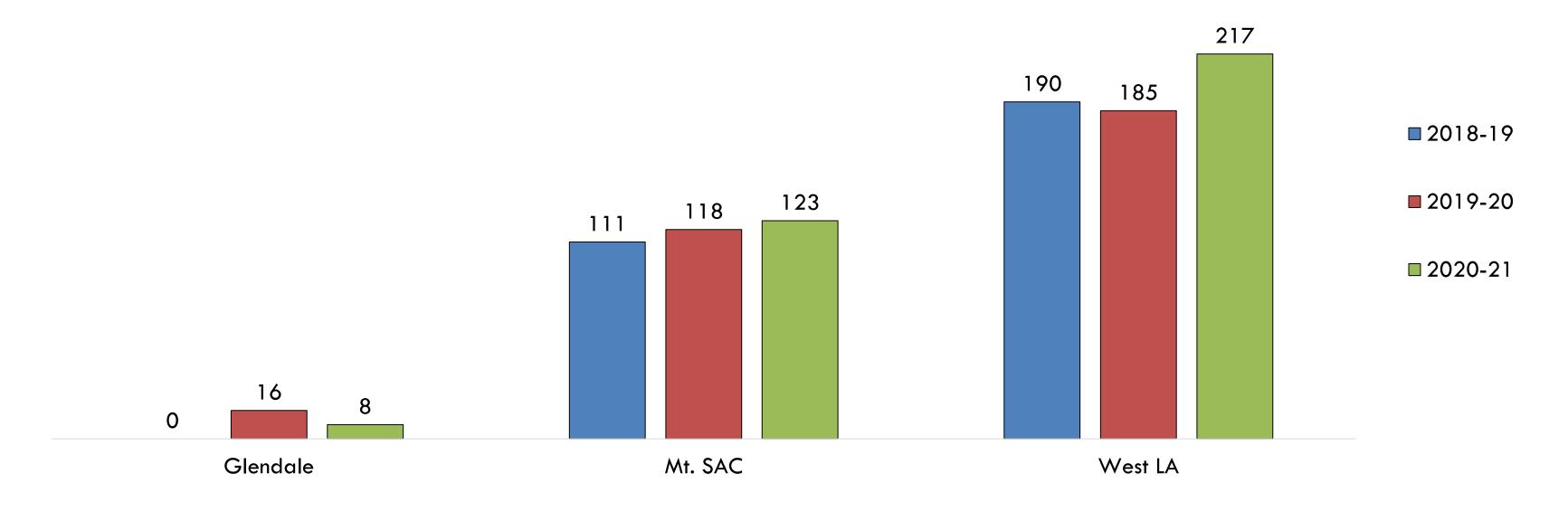
The number of enrollments for aerospace students at LA community colleges has steadily increased since 2015-16, growing to 348 students in the 2020-21 academic year.



Aerospace Student Enrollments

AEROSPACE & DEFENSE REGIONAL PROGRAM ADVISORY

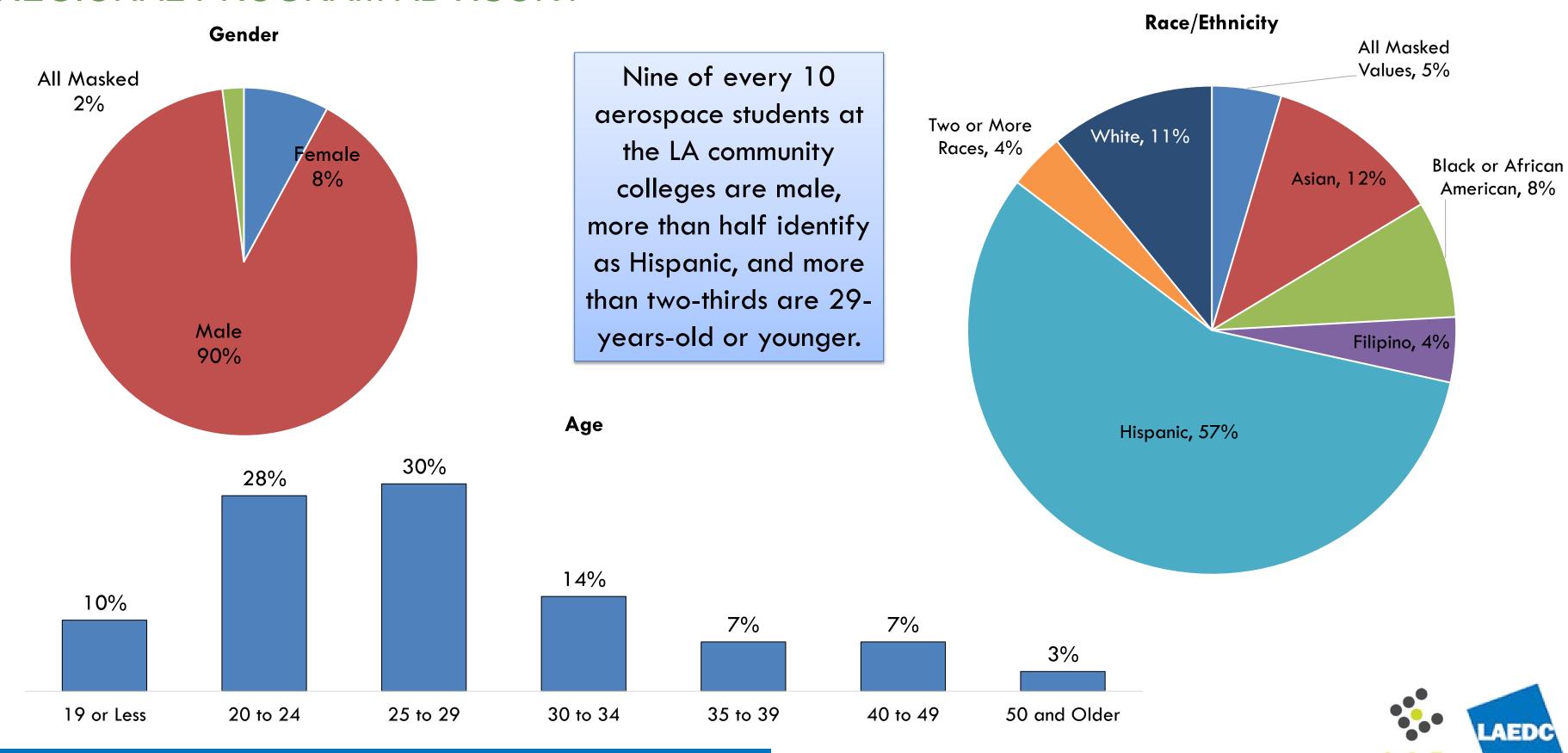
LA Aeronautical and Aviation Technology Student Enrollments by College, 2018-2021





Source: Cal-PASS Plus LaunchBoard

Aerospace Student Demographics



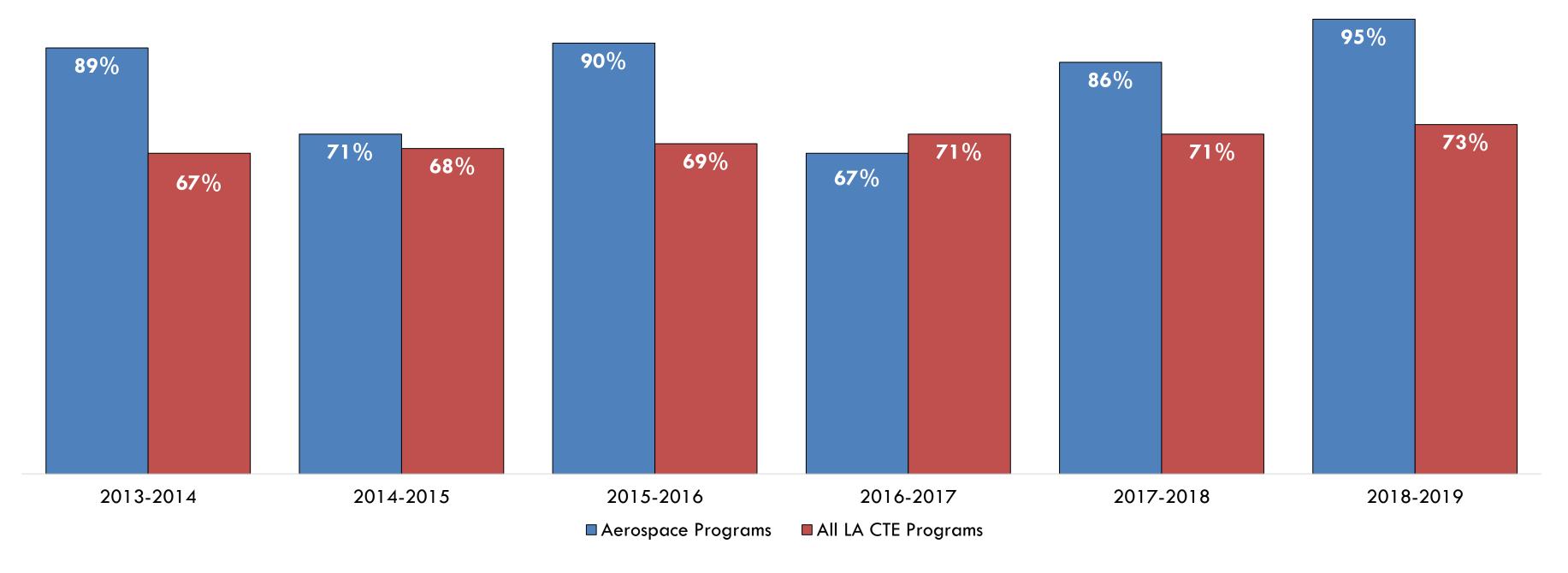
Source: Cal-PASS Plus LaunchBoard

Aerospace Programs At-a-Glance

AEROSPACE & DEFENSE REGIONAL PROGRAM ADVISORY

TOP6 - Program Title	2018-19	2019-20	2020-21	Latest 3 Yr Avg
0901.00 — Engineering, General (requires Calculus) (Transfer)	96	115	126	112
0924.00 — Engineering Technology, General (requires Trigonometry)	216	241	259	239
0950.00 – Aeronautical and Aviation Technology	21	11	21	18
0950.10 — Aviation Airframe Mechanics	105	47	63	72
0950.20 – Aviation Powerplant Mechanics	78	44	54	59
Total	516	458	52 3	500

Students with a Job Closely Related to Their Field of Study

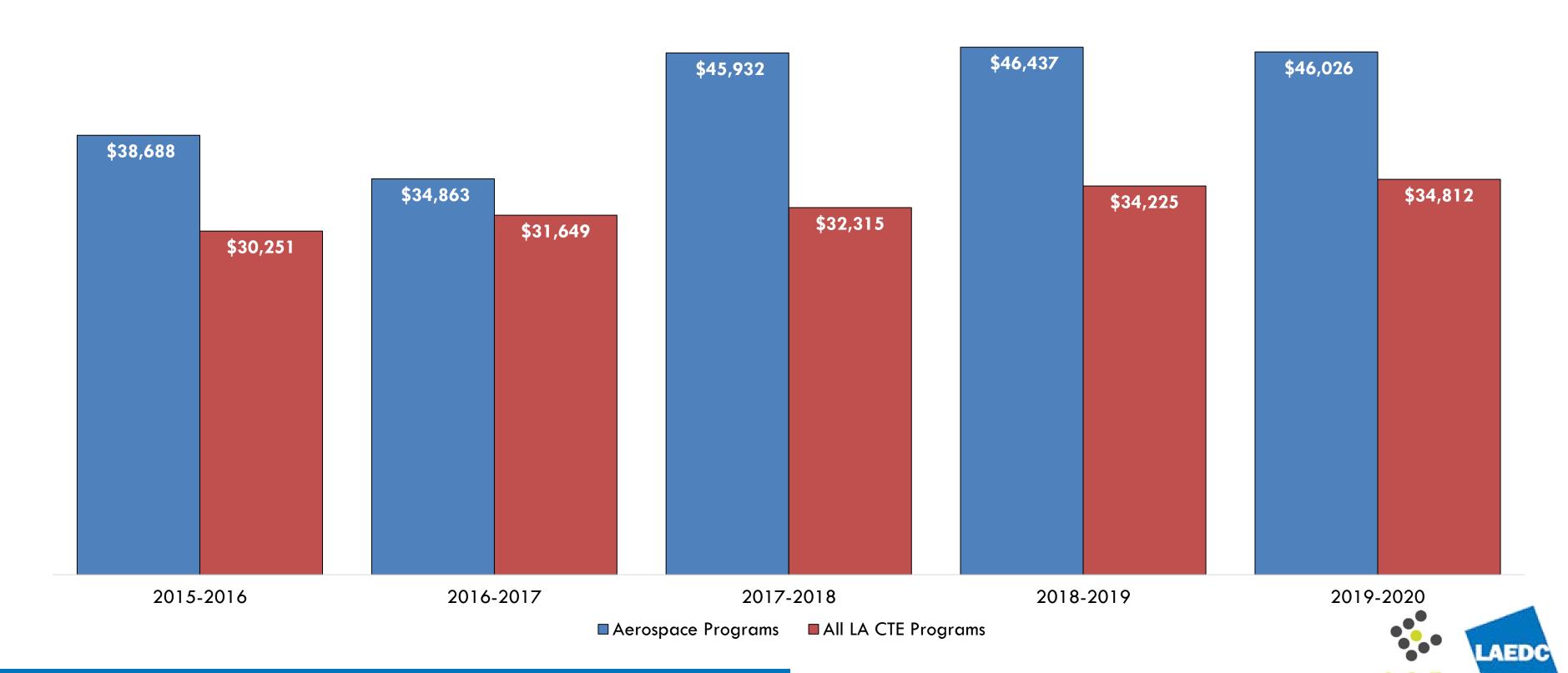




Source: Cal-PASS Plus LaunchBoard

Aerospace Employment Outcomes

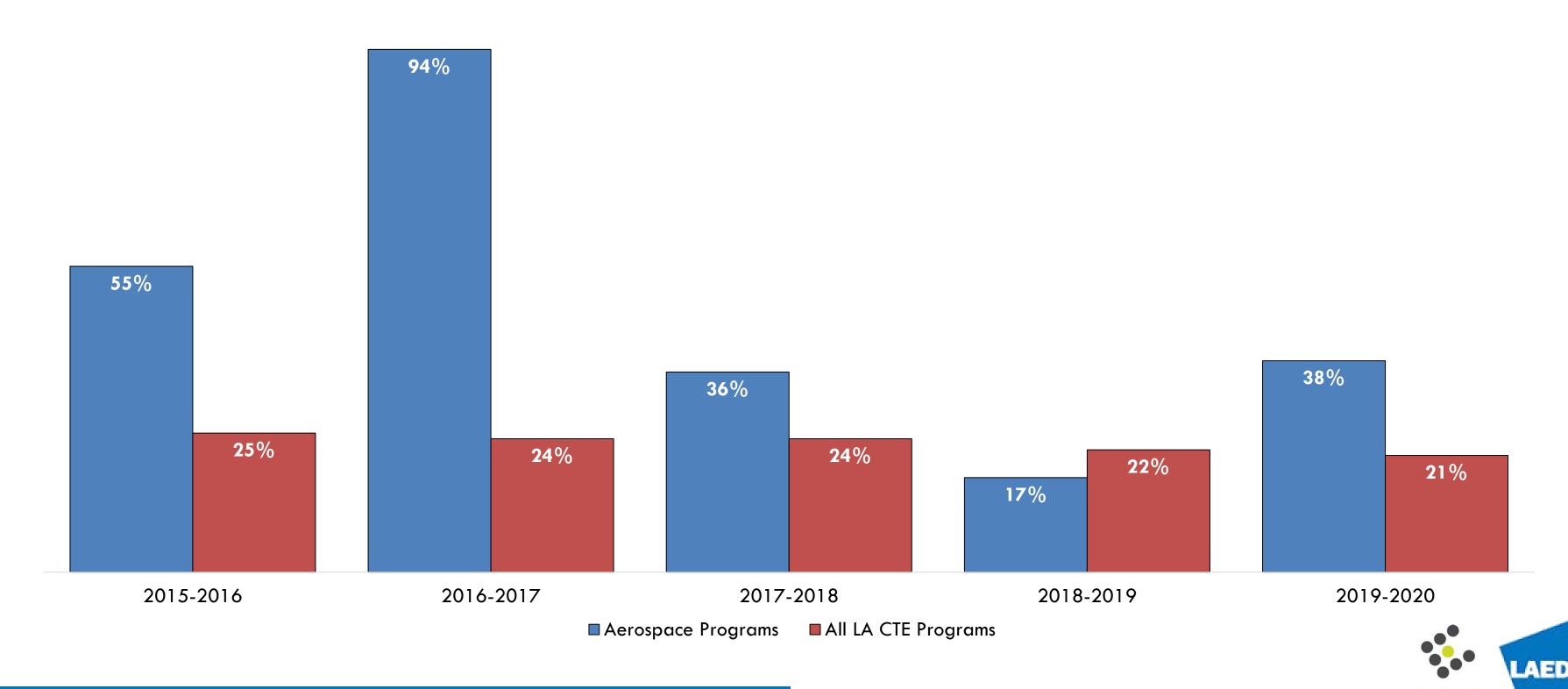
Median Annual Earnings for Exiting Students



Student Employment Outcomes

AEROSPACE & DEFENSE REGIONAL PROGRAM ADVISORY

Median Change in Annual Earnings for Exiting Students

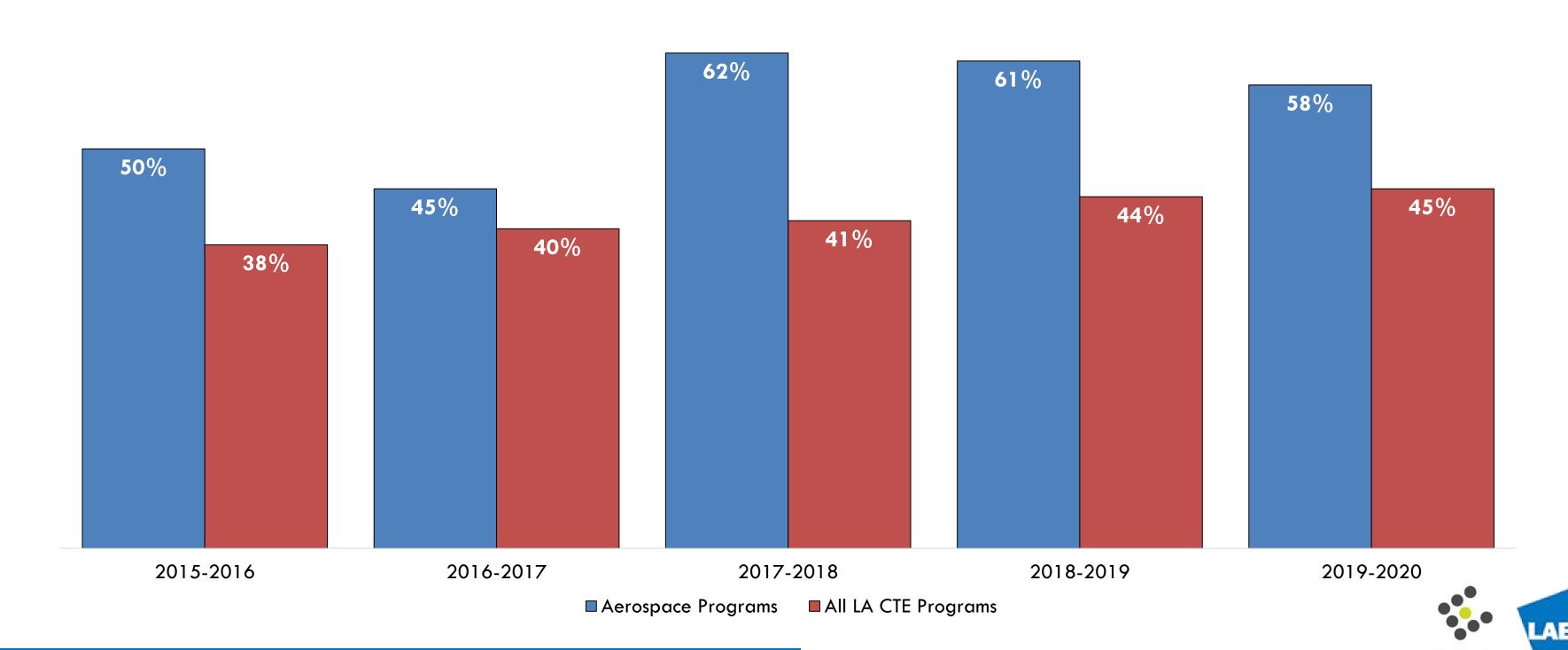


Source: Cal-PASS Plus LaunchBoard

Student Employment Outcomes

AEROSPACE & DEFENSE REGIONAL PROGRAM ADVISORY

Students Who Attained the Living Wage (\$38,217/year)



Source: Cal-PASS Plus LaunchBoard

Target Aerospace Occupations

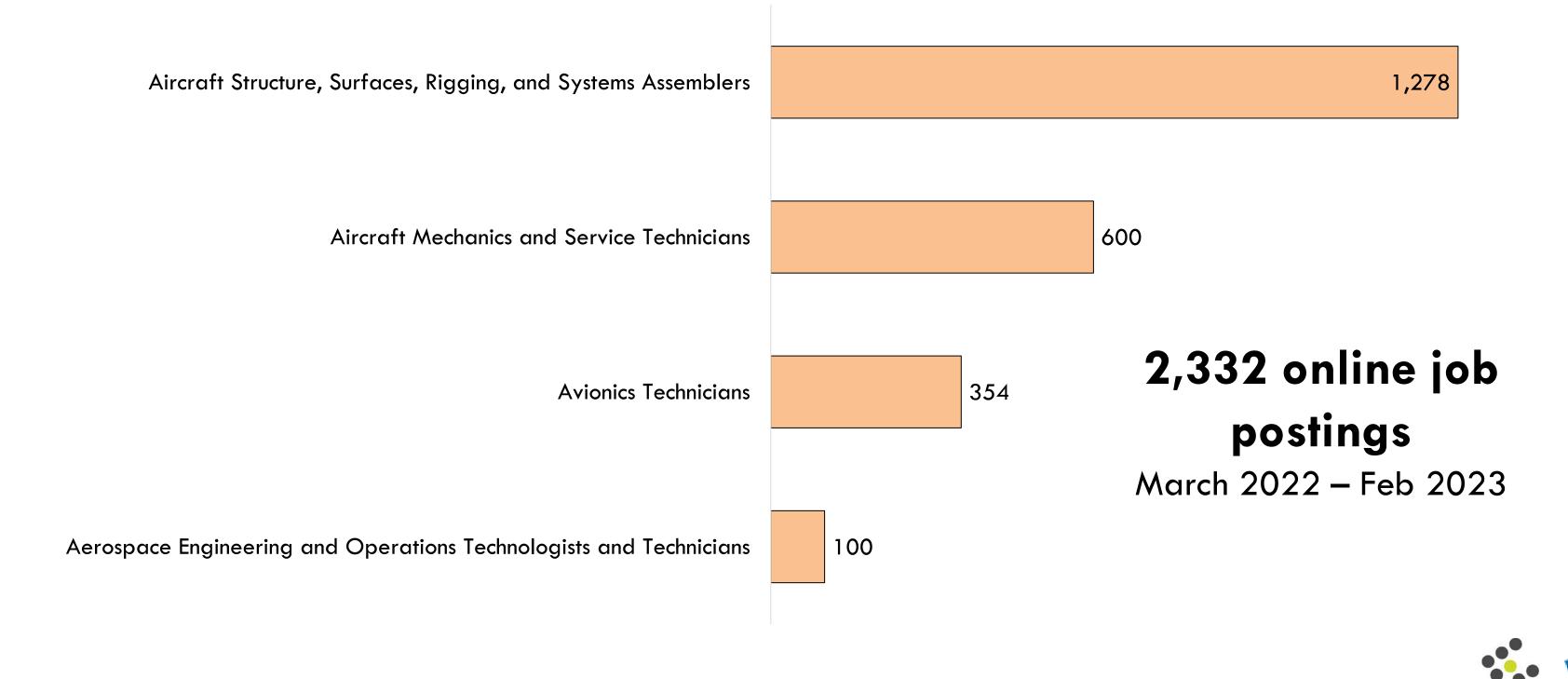
Source: Lightcast, datarun 2023.1

Occupation	2021 Jobs	2026 Jobs	5-Year % Change	Annual Job Openings	Entry-Level Hourly Earnings (25 th Percentile)	Median Hourly Earnings	Experienced Hourly Earnings (75 th Percentile)
Aircraft Mechanics and Service Technicians	4,842	5,449	13%	531	\$29.62	\$37.21	\$46.40
Aircraft Structure, Surfaces, Rigging, and Systems Assemblers	943	955	1%	120	\$18.50	\$22.95	\$29.23
Avionics Technicians	565	635	12%	59	\$36.10	\$38.40	\$46.95
Aerospace Engineering and Operations Technologists and Technicians	420	450	7%	49	\$36.30	\$38.23	\$46.54
TOTAL	6,769	7,489	11%	759	-	-	-

LA County Self-Sufficiency Standard Wage: \$18.10/hour

Employer Job Postings

Number of Job Postings by Occupation



Source: Lightcast Job Postings, datarun 2023.1

Employer Job Postings

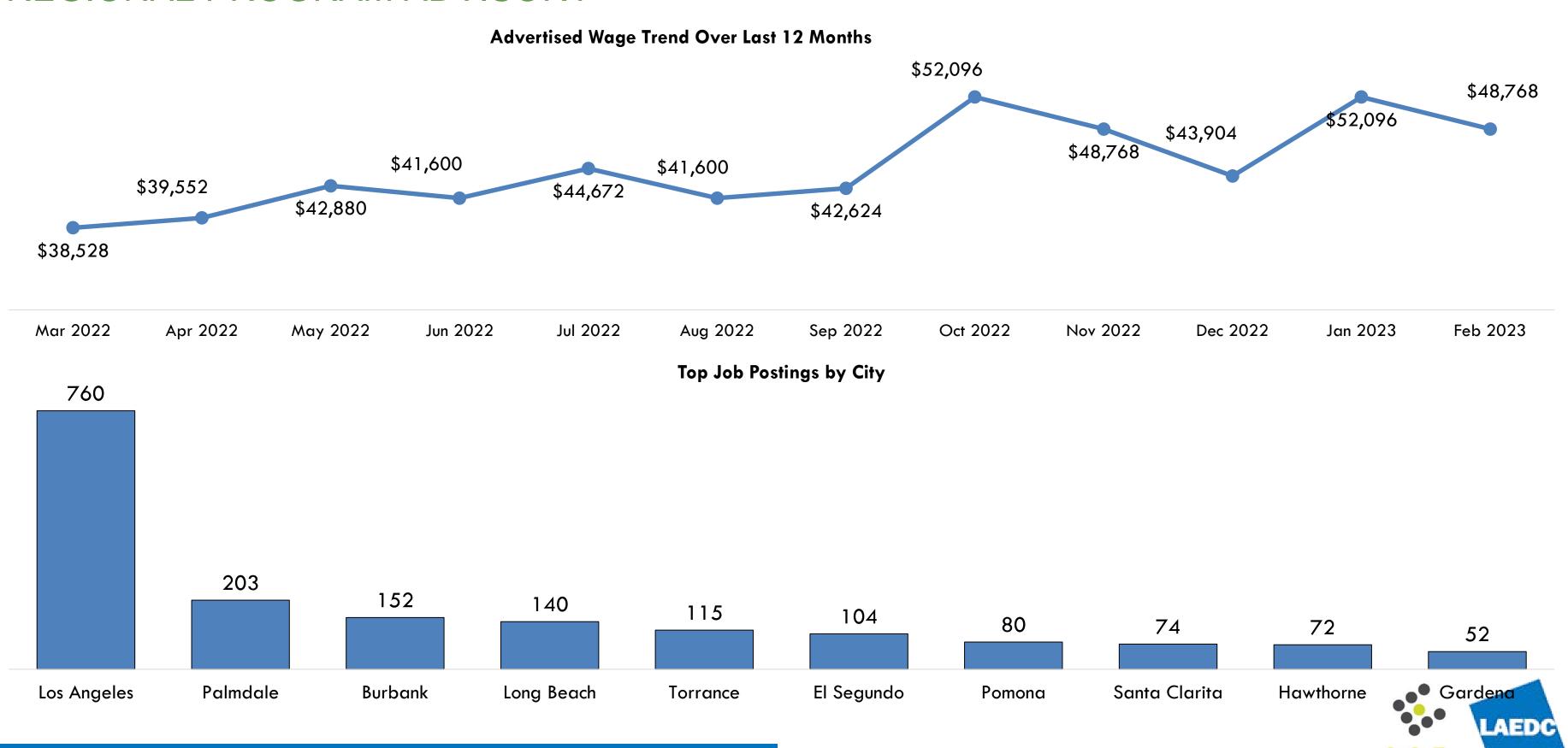
Job Title	Job Ads	Employer	Job Ads
Assemblers	518	Aerotek*	256
Avionics Technicians	125	Northrop Grumman	134
Airframe and Powerplant Mechanics	103	Flowserve	91
Aircraft Maintenance Technicians	86	Boeing	73
Aircraft Mechanics	74	Randstad*	60
Composite Technicians	70	SpaceX	49
Aircraft Technicians	66	Gulfstream Aerospace	44
Aerospace Technicians	54	General Atomics	39
Precision Assemblers	53	Total Aviation Staffing*	35

*Staffing company



Source: Lightcast Job Postings, datarun 2023.1

Employer Job Postings



Source: Lightcast Job Postings, datarun 2023.1

CONTACT INFORMATION LUKE MEYER (909) 274 - 6106lmeyer7@mtsac.edu



ROUNDTABLE DISCUSSION

- Mute yourself throughout discussion
- Submit questions through the chat box
- 15-20 minutes of discussion per topic
- Discussion will be followed by Q&A



FEEDBACK POLL AND NEXT STEPS



THANK YOU!

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For more information contact:

Jose Pelayo: jose.pelayo@laedc.org

Mariana Hernandez : mariana.hernandez@laedc.org

