

# BIOSCIENCE REGIONAL PROGRAM ADVISORY MEETING

October 14, 2022  
11:00 AM – 1:00 PM

POWERED BY



California  
Community  
Colleges



**LOS ANGELES COUNTY**  
ECONOMIC DEVELOPMENT CORPORATION

*Collectively Advancing Opportunity and Prosperity for All*



**LARC**

LOS ANGELES  
REGIONAL  
CONSORTIUM

# Jermaine Hampton

Director of Workforce Development  
LAEDC

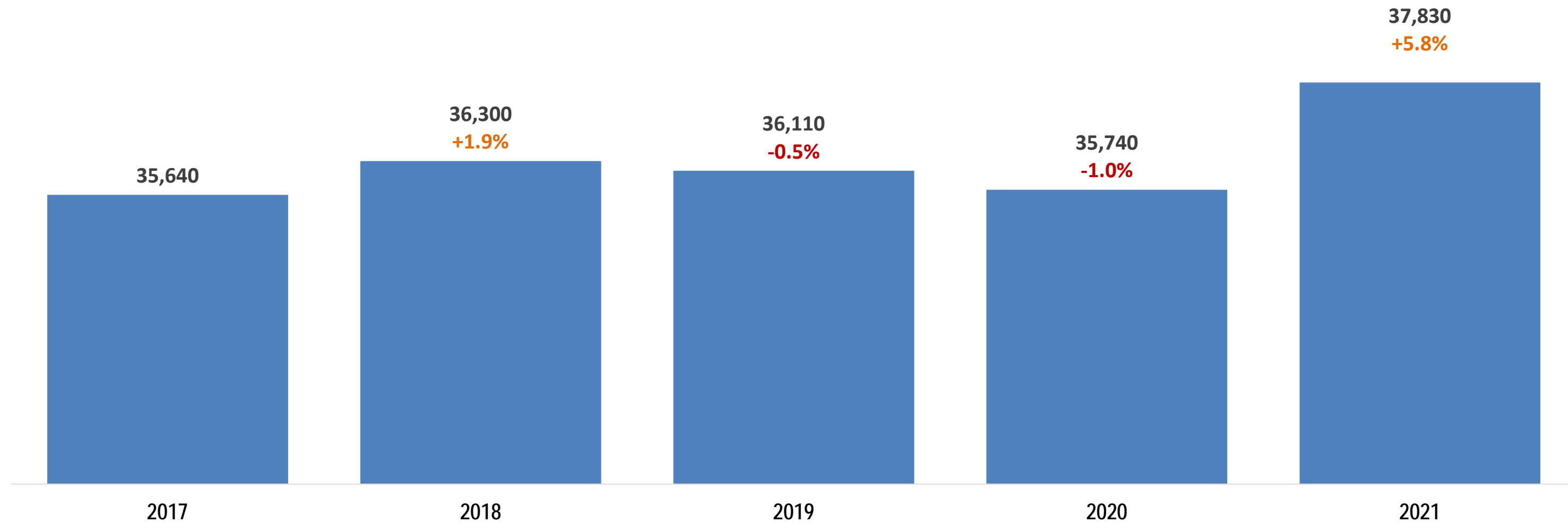
The LA -19 is leading industry -education partnerships to collaboratively strengthen our region's talent development ecosystem

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](http://www.CompetitiveWorkforce.LA)

**Arthur Girard**  
Research Analyst,  
Institute for Applied Economics  
LAEDC

## Biotechnology Employment *Los Angeles County, 2017-2021*

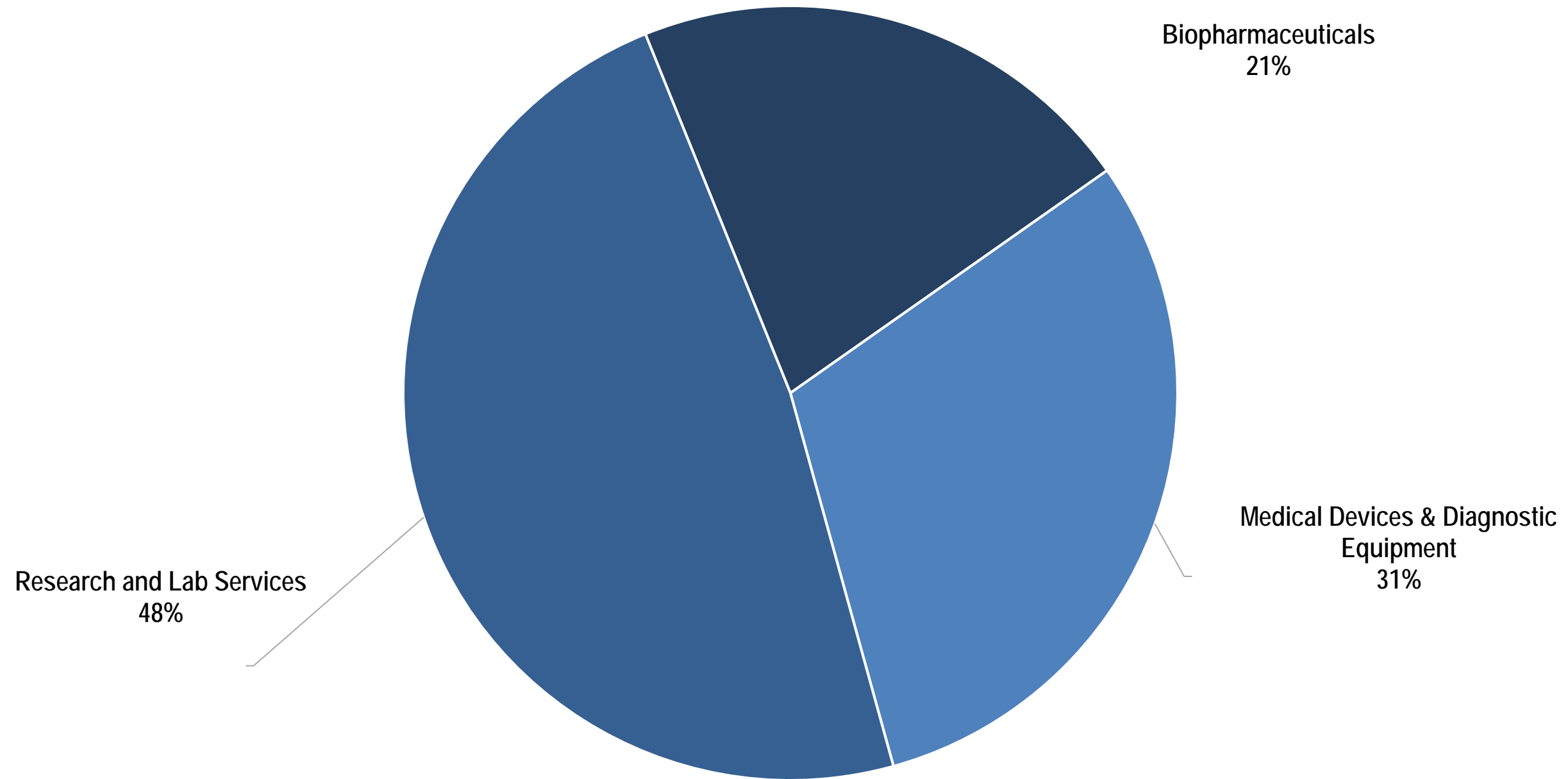


Source: CA EDD



# Employment Distribution by Sub-Industry

*Los Angeles County, 2021*

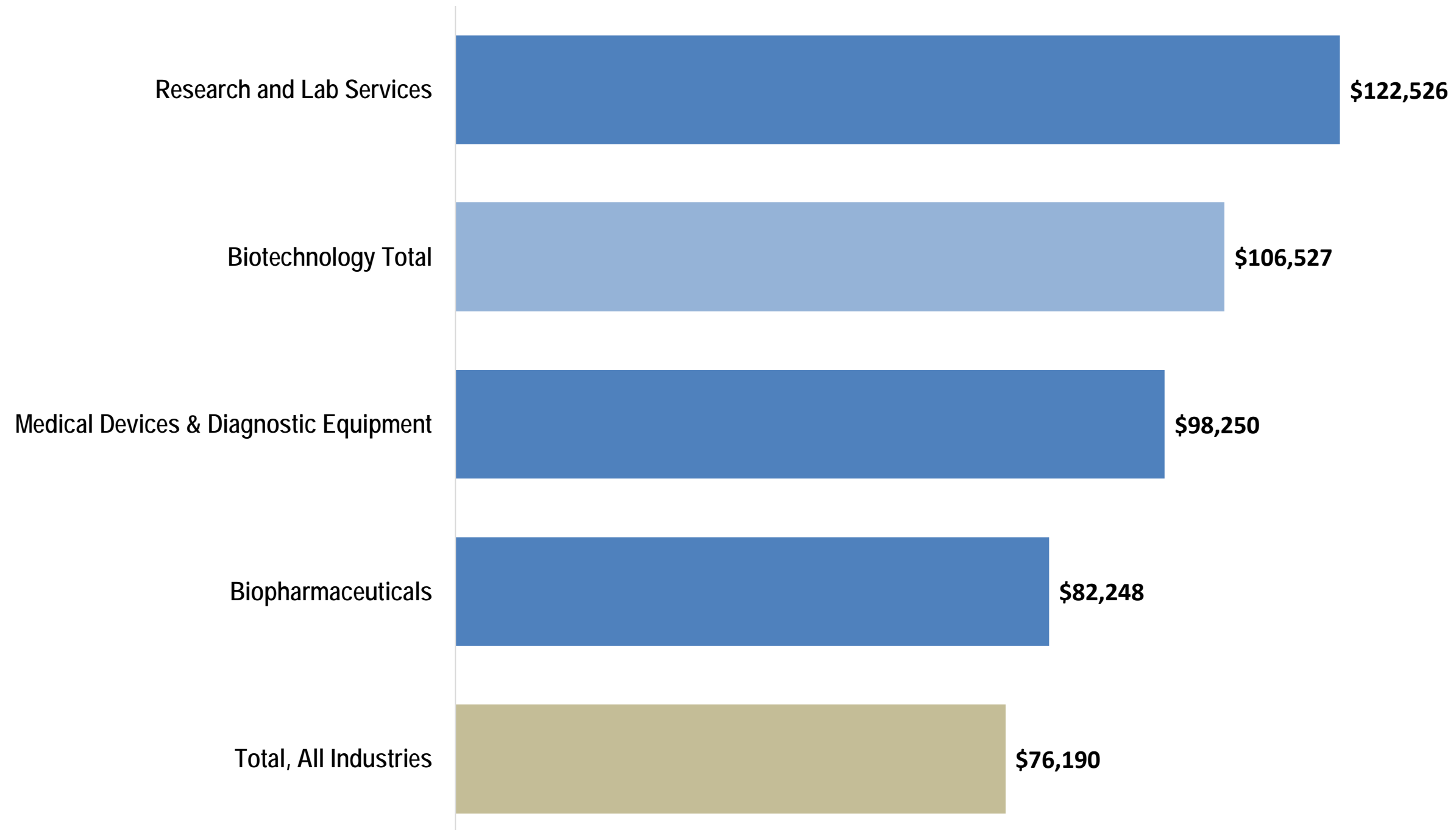


Source: CA EDD

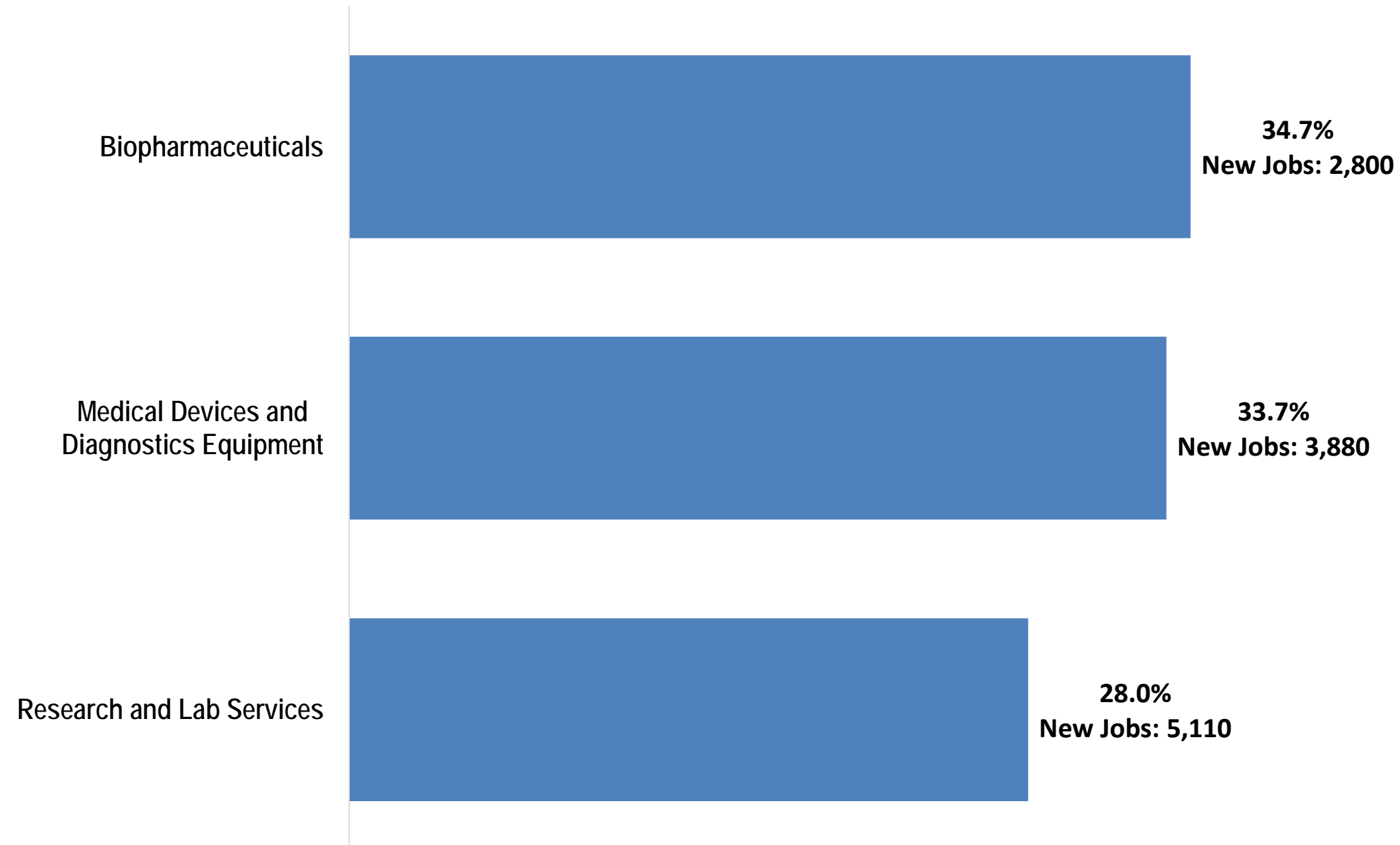


## Average Annual Pay in Biotech Industries

*Los Angeles County, 2021*



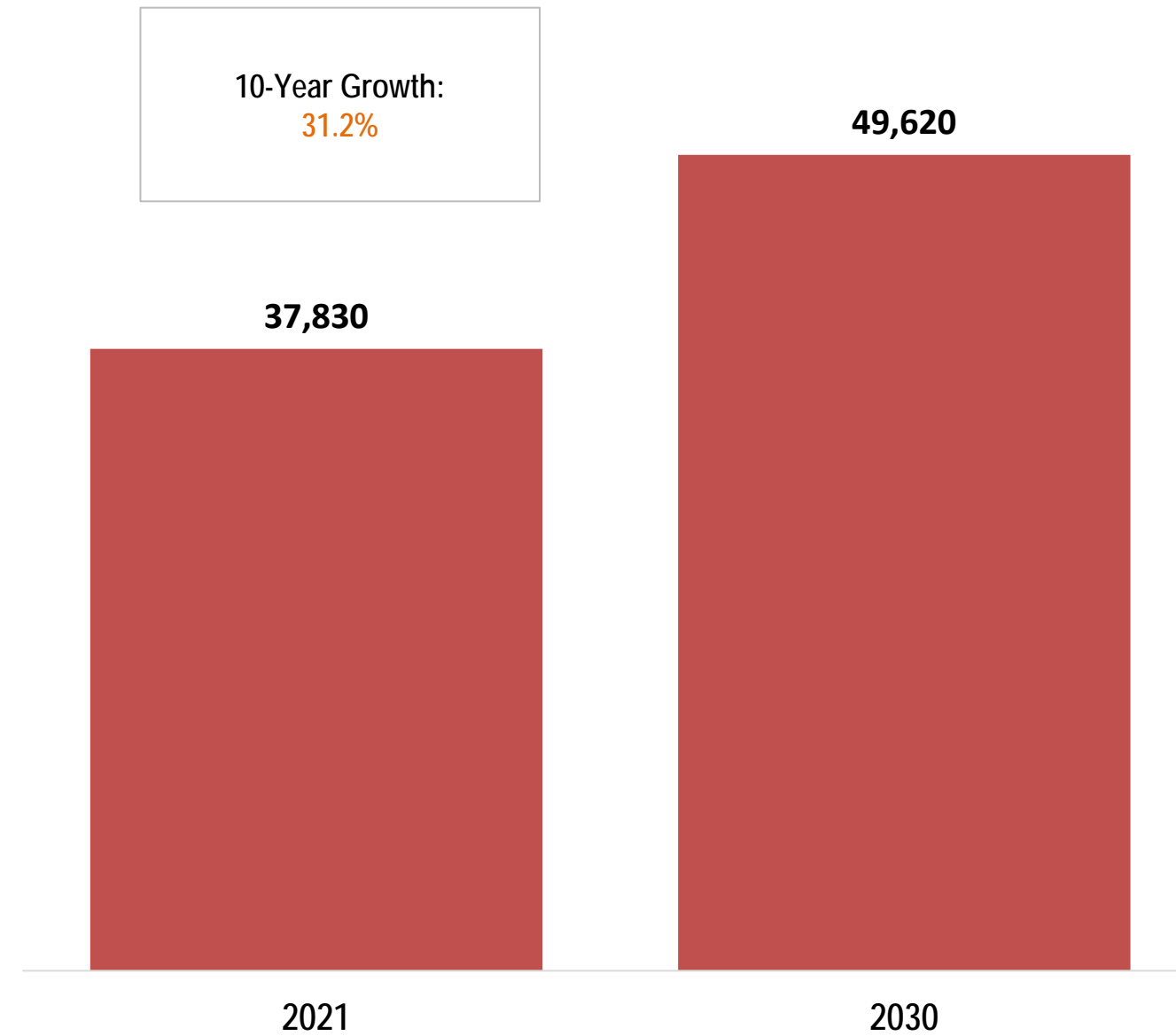
## Forecasted Employment Growth *Los Angeles County, 2021 - 2030*



Source: CA EDD, EMSI Lightcast, Estimates from LAEDC



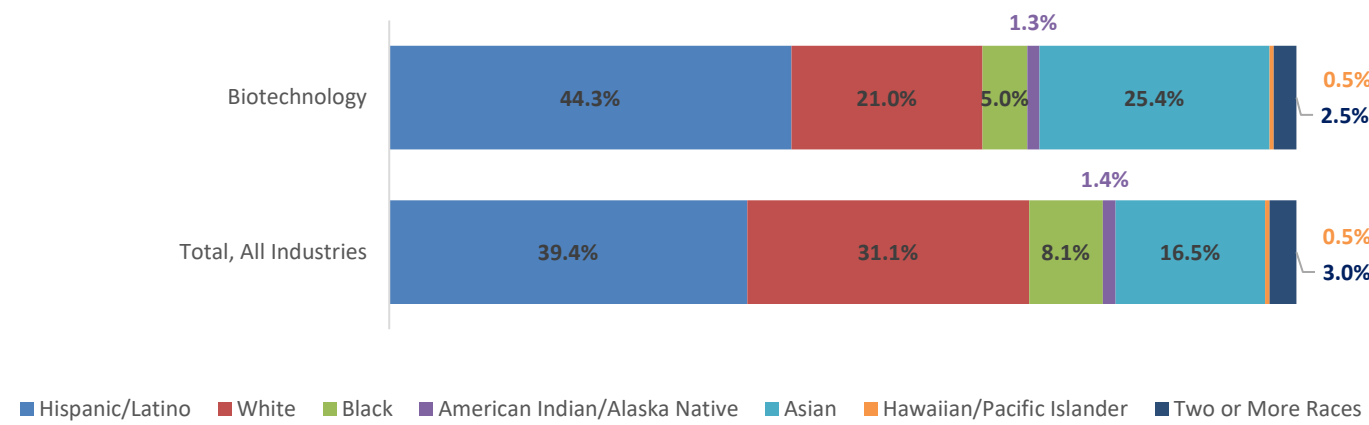
## Forecasted Employment Growth *Los Angeles County, 2021 - 2030*



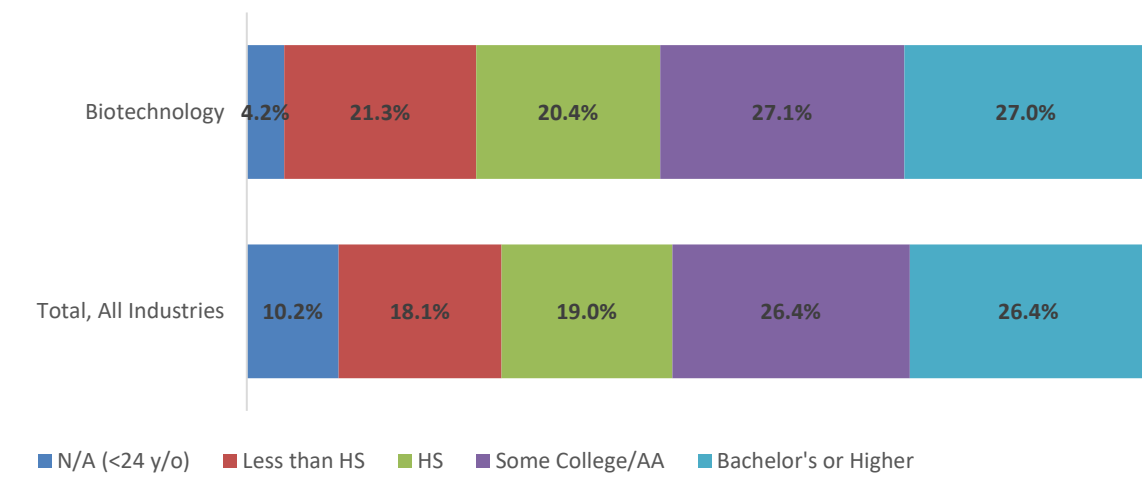
Source: CA EDD, EMSI Lightcast, Estimates from LAEDC

## Biotechnology Industry Demographics *Los Angeles County, 2021*

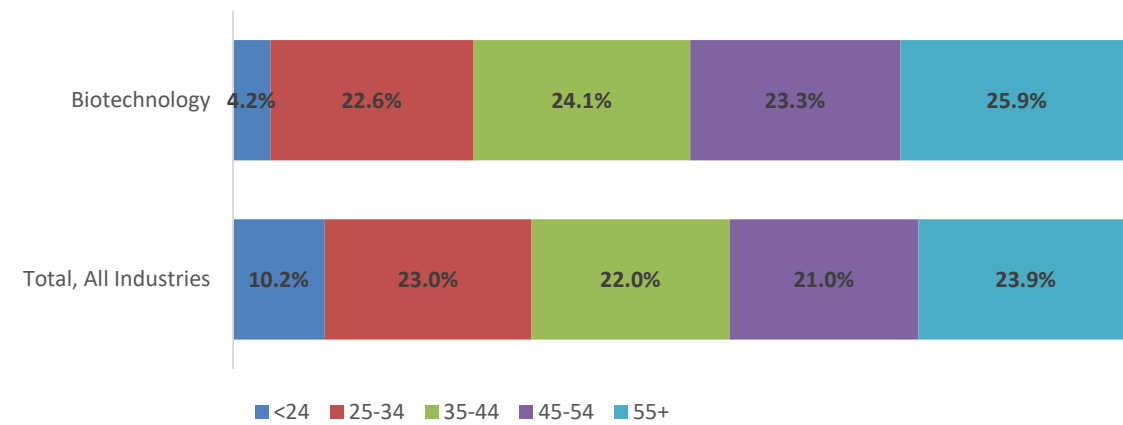
Race of Workers 2021



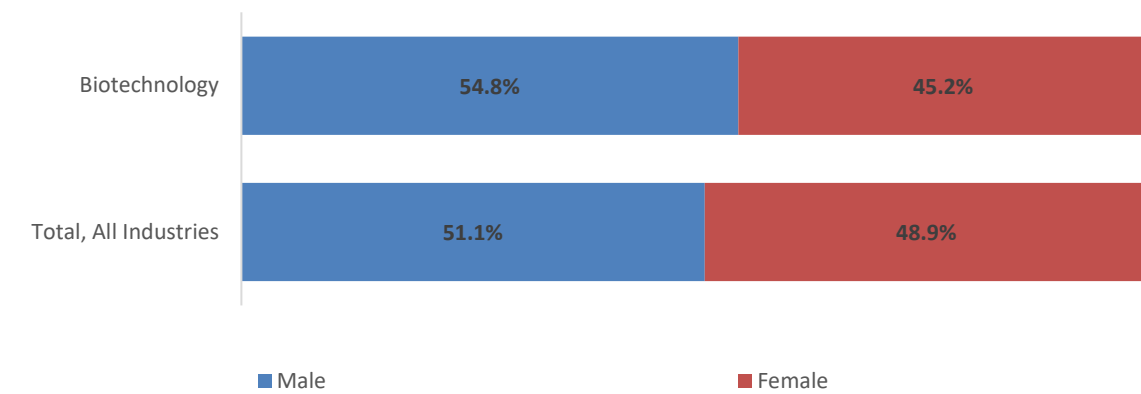
Educational Attainment of Workers 2021



Age of Workers 2021



Gender of Workers 2021



**Luke Meyer**

**Director**

**LA Center of Excellence for  
Labor Market Research**

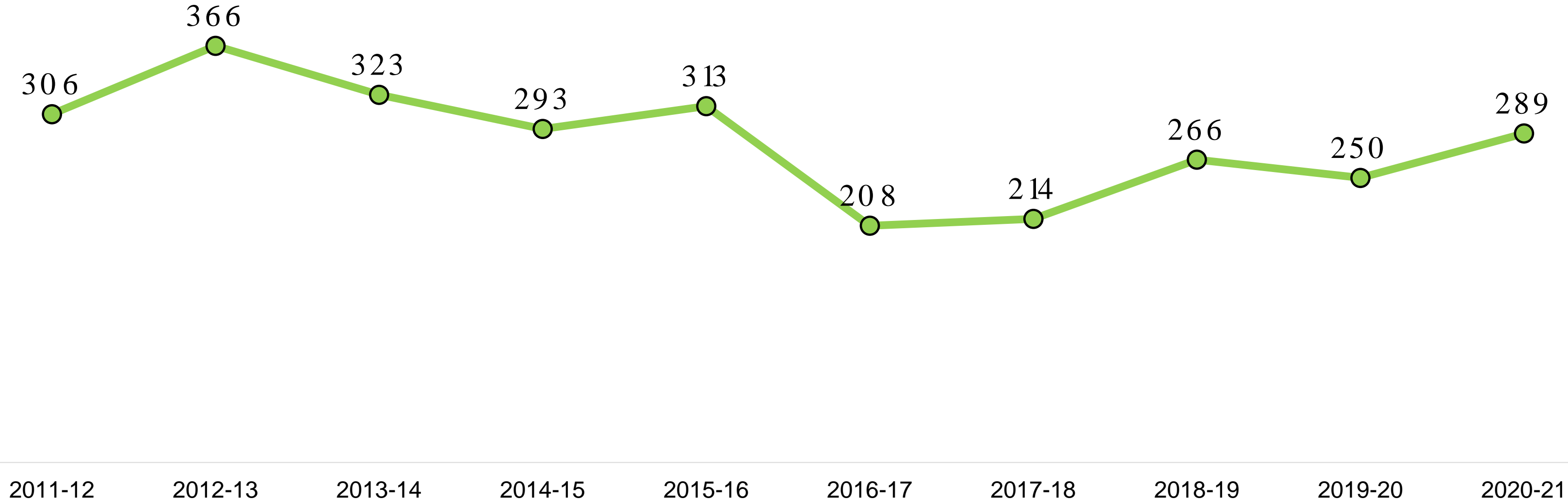
*hosted at Mt. San Antonio College*

Five community college programs have historically prepared students for careers involved in the Life Sciences –  
Biotechnology sector:

- Biotechnology and Biomedical Technology (0430.00)
- Biomedical Instrumentation (0934.60)
- Electron Microscopy (0934.70)
- Chemical Technology (0954.00)
- Laboratory Science Technology (0955.00)

Since the 2011 -12 academic year, there have been more than 2,800 enrollments in courses related to Life Sciences – Biotechnology.

LA Student Enrollments  
Life Sciences - Biotechnology Sector



Between 2018 and 2021, community colleges in the region conferred an average of 93 awards across these five training programs in the Life Sciences – Biotechnology sector, rising steadily over the last three years.

TOP	Program	2018-19 Awards	2019-20 Awards	2020-21 Awards	3-Year Average
0430.00	Biotechnology and Biomedical Technology	60	81	67	69
0934.60	Biomedical Instrumentation	17	7	17	14
0954.00	Chemical Technology	8	4	6	6
0955.00	Laboratory Science Technology	2	1	5	3
0934.70	Electron Microscopy	3	-	-	1
<b>LA Supply Total/Average</b>		<b>90</b>	<b>93</b>	<b>95</b>	<b>93</b>



# Community Colleges Offering Biotechnology Programs

Currently, 13 LA community colleges offer programs in Biotechnology:

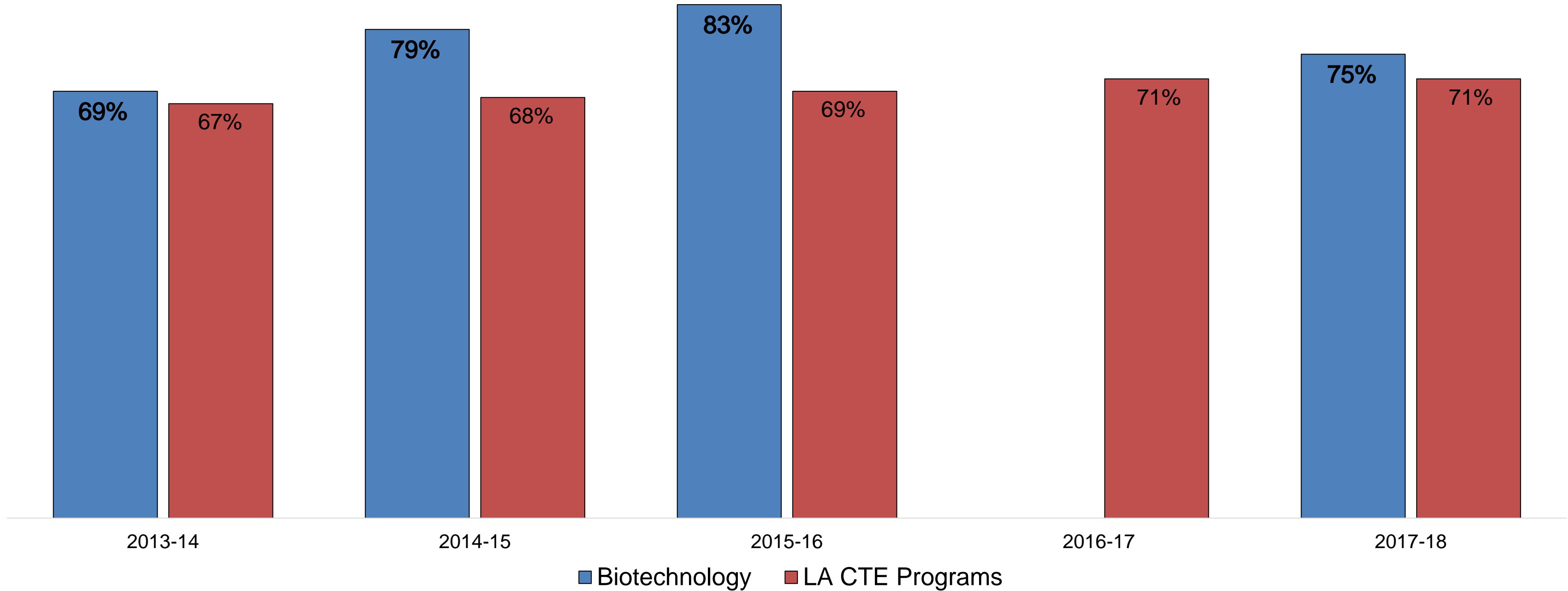
Citrus	Compton	East LA	Glendale	L.A. Harbor
L.A. Mission	L.A. Pierce	L.A. Trade-Tech	L.A. Valley	Mt. San Antonio
	Pasadena	Rio Hondo	West L.A.	

A few community colleges in the region are currently in the process of finalizing and launching new programs related to biotechnology, some scheduled to begin as early as spring semester of 2023:

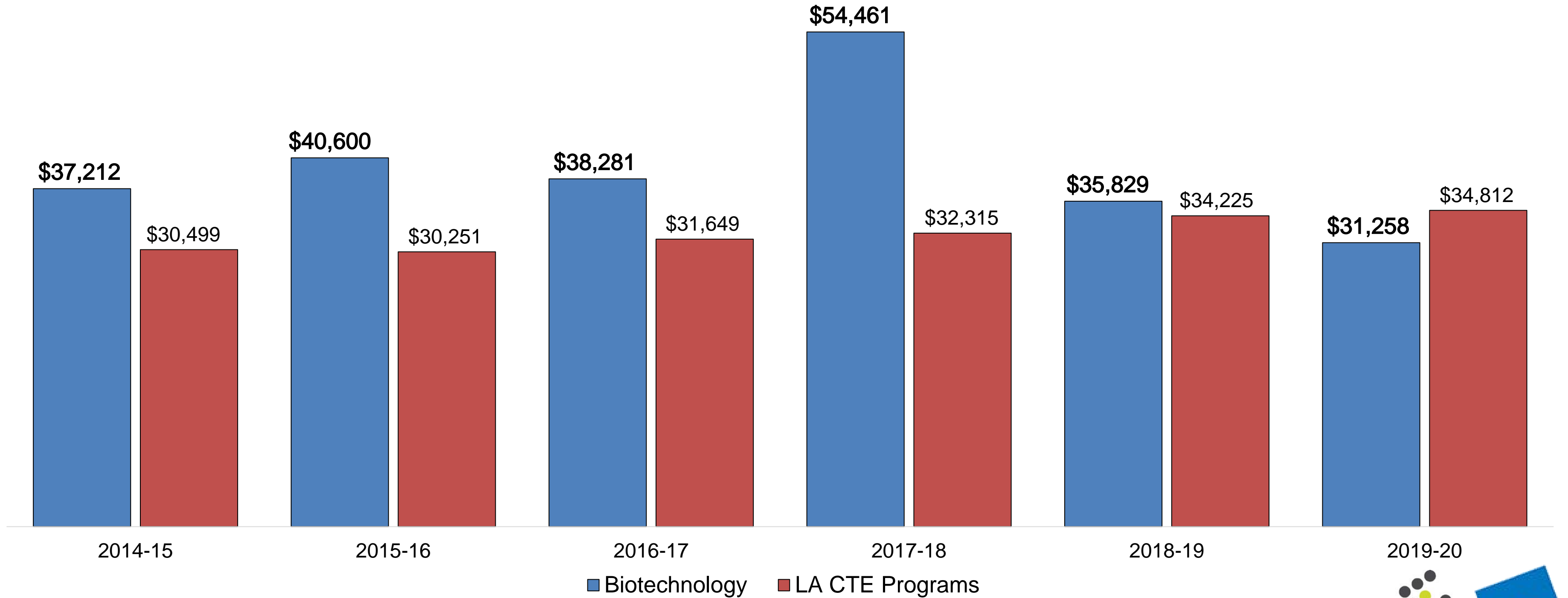
- **Cerritos** – Associate, Certificate
- **El Camino** – Associate, Certificate
- **L.A. City** – Certificate
- **Santa Monica** – Associate, Certificate



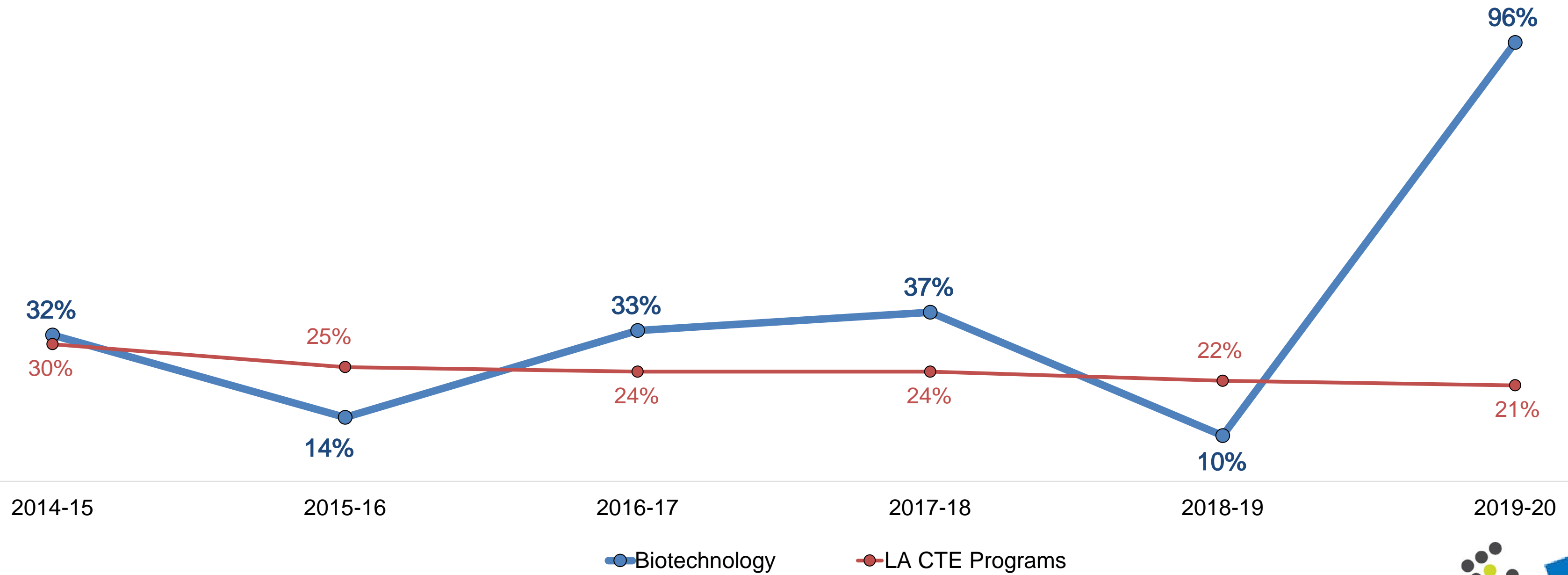
## Job Closely Related to Field of Study



Median Annual Earning for SWP Exiting Students



Median Change in Earnings for Exiting SWP Students



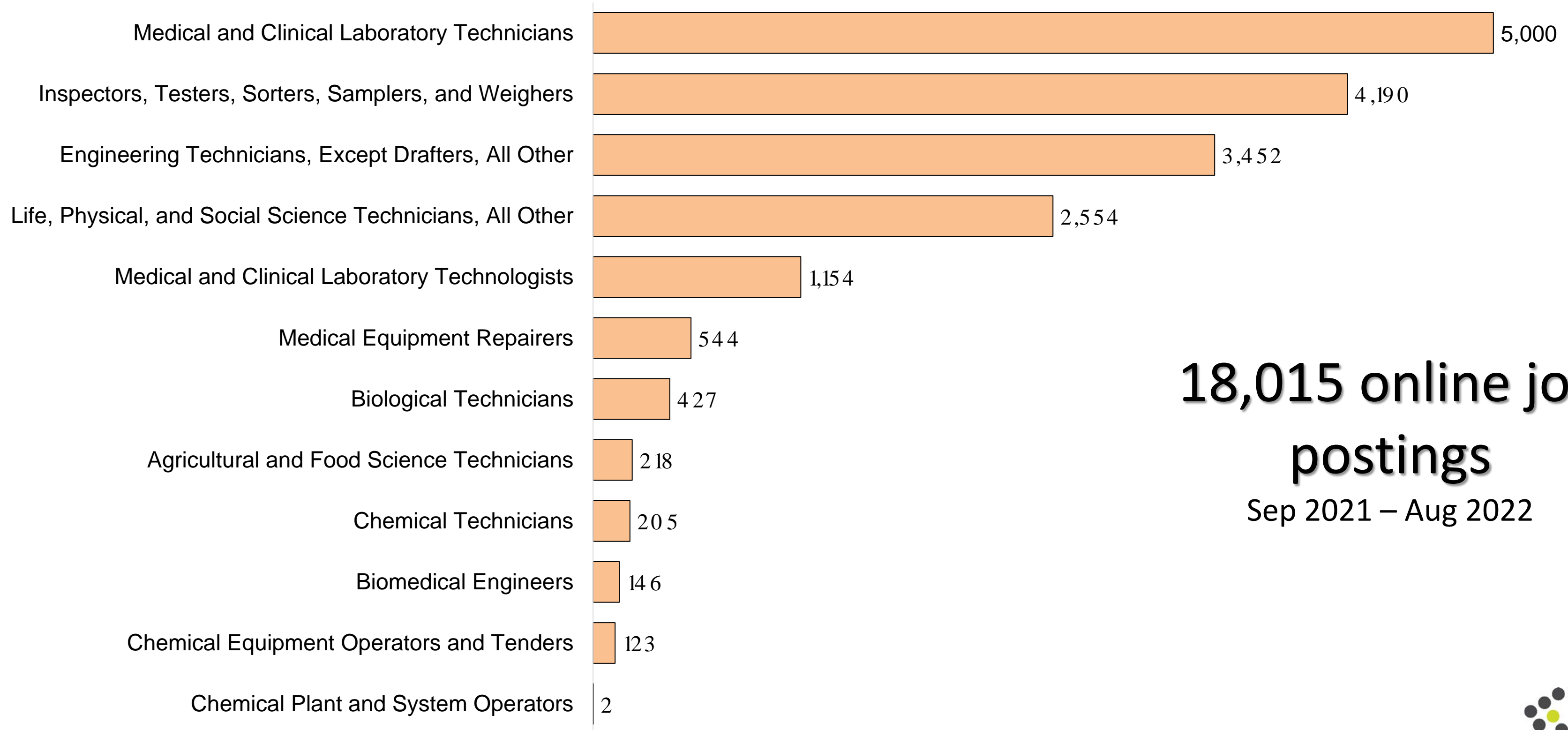
# BIOSCIENCE

## REGIONAL PROGRAM ADVISORY

# Target Occupations

Occupation (SOC)	2021 Jobs	2026 Jobs	5-Year % Change	Annual Job Openings	Entry - Level Hourly Earnings (25 <sup>th</sup> Percentile)	Median Hourly Earnings	Experienced Hourly Earnings (75 <sup>th</sup> Percentile)
Inspectors, Testers, Sorters, Samplers, and Weighers (51-9061)	16,197	14,060	(13%)	1,802	\$16.58	\$18.72	\$27.56
Clinical Laboratory Technologists and Technicians (29-2018)	7,471	7,828	5%	553	\$22.21	\$28.53	\$37.62
Life, Physical, and Social Science Technicians, All Other (19-4099)	2,353	2,409	2%	299	\$21.57	\$28.58	\$35.95
Engineering Technologists and Technicians, Except Drafters, All Other (17-3029)	2,062	2,036	(1%)	190	\$22.94	\$29.72	\$38.18
Chemical Technicians (19-4031)	1,772	1,731	(2%)	190	\$17.93	\$22.80	\$28.57
Medical Equipment Repairers (49-9062)	1,598	1,580	(1%)	165	\$21.57	\$28.39	\$43.76
Biological Technicians (19-4021)	1,172	1,237	6%	162	\$17.24	\$22.37	\$28.98
Chemical Equipment Operators and Tenders (51-9011)	1,446	1,305	(10%)	138	\$17.71	\$22.92	\$28.97
Food Science Technicians (19-4013)	364	348	(4%)	45	\$18.22	\$22.51	\$28.98
Bioengineers and Biomedical Engineers (17-2031)	460	455	(1%)	28	\$35.84	\$47.25	\$60.44
Agricultural Technicians (19-4012)	180	180	0%	23	\$16.31	\$19.63	\$27.36
Chemical Plant and System Operators (51-8091)	186	181	(3%)	19	\$16.10	\$19.76	\$21.75

Source: Lightcast, datarun 2022.3



**18,015 online job  
postings**

Sep 2021 – Aug 2022

**BIOSCIENCE**  
REGIONAL PROGRAM ADVISORY

**Employer Job Postings**

Job Title	Job Postings	Employer	Job Postings
Laboratory Technician	637	Cedars - Sinai	711
Quality Inspector	338	University Of California	257
Laboratory Assistant	284	Gilead Sciences	179
Quality Control Inspector	245	Anthem Blue Cross	176
Quality Assurance Specialist	207	Takeda Pharmaceuticals	175
Production Technician	194	University of Southern California	128
Quality Assurance Technician	194	Laboratory Corporation of America	114
Manufacturing Technician	184	Grifols	106
Quality Control Technician	164	Northrop Grumman	104
Medical Laboratory Technician	126	Integrated Resources Incorporated	94
Quality Assurance Inspector	122	The Boeing Company	93
Quality Technician	115	Quest Diagnostics	91

Source: Burning Glass

# CONTACT INFORMATION

**LUKE MEYER**

**(909) 274 -6106**

**[lmeyer7@mtsac.edu](mailto:lmeyer7@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!

[WWW.COMPETITIVETWORKFORCE.LA](http://WWW.COMPETITIVETWORKFORCE.LA)

For more information contact:

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Mariana Hernandez : [mariana.hernandez@laedc.org](mailto:mariana.hernandez@laedc.org)