Careers Outlook for Majors in Electrical Engineering

i n t h e

San Diego/Los Angeles/Orange/Riverside/Imperial Counties

Source: Lightcast™
for the time period AUG 2021 to JULY 2022

College of Science, Technology, Engineering, and Mathematics

California State University San Marcos

Contents

1 About

The data is based on The Analyst software by Lightcast™ for active full-time positions (32 hours or more) posted from AUG 2021 to July 2022 in the San Diego/Los Angeles/Orange/Riverside/ Imperial Counties advertised for a Bachelor's degree in Electrical Engineering as one of the educational requirements.

We used the 2018 Standard Occupational Classifications (SOC) for:

- electrical engineers
- computer hardware engineers
- electronics engineers, except computers
- electrical and electronic engineering technicians.

2 Number of Unique Postings

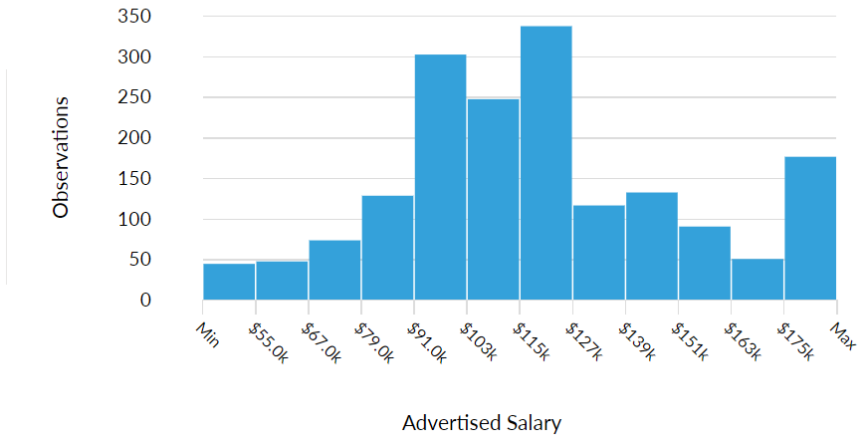There were 10,190 unique job postings:

San Diego County	Los Angeles County	Orange County	Riverside County	Imperial County	Unique Postings
3,153	4,722	2,149	166	0	**10,190**

Occupation (SOC)	Total/Unique (Aug 2021 - Jul 2022)	Posting Intensity	Unique Postings Trend (Aug 2021 - Jul 2022)
💼 Electrical Engineers	19,680 / 6,502	3 : 1	
💼 Electronics Engineers, Except Computer	6,165 / 2,091	3 : 1	
💼 Computer Hardware Engineers	3,637 / 1,146	3 : 1	
💼 Electrical and Electronic Engineering Technologists and Technicians	1,981 / 451	4 : 1	

3 Median Advertised Salary

There are 1,742 advertised salary observations (17% of the 10,190 matching postings).
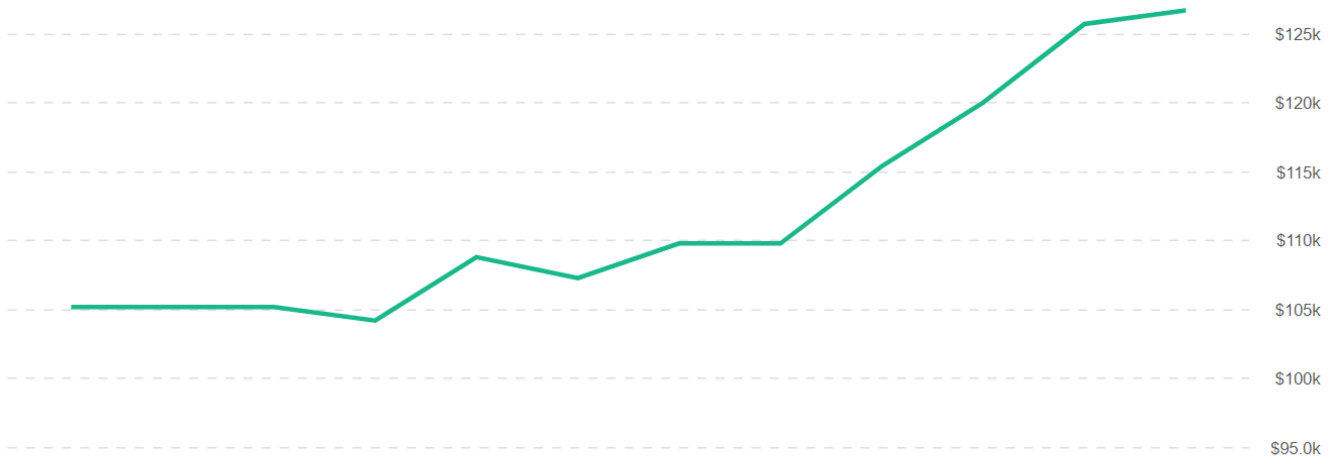
$114.9K

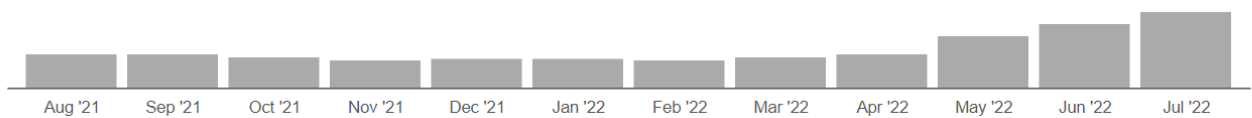Median Advertised Salary

4 Advertised Wages Trend

Advertised Wage Trend ❓

▲ **20.4%** Aug 2021 – Jul 2022   6M **1Y** 3Y CUSTOM

$115k Median

1,743 Job Postings

5 Unique Postings Trend

6 Education Breakdown

Example: "A.A. or B.A. or equivalent work or educational experience preferred" will be counted in both Associate's Degree and Bachelor's Degree categories.

Education Level ❓	Unique Postings	% of Total
No Education Listed	0	0%
High school or GED	197	2%
Associate degree	338	3%
Bachelor's degree	10,190	100%
Master's degree	4,977	49%
Ph.D. or professional degree	2,268	22%

7 Experience Breakdown

Example: "2-3 years" includes postings that request
"at least 2 years of experience" OR "at least 3 years of experience."

Minimum Experience ❓	Unique Postings
No Experience Listed	1,887
0 - 1 Years	398
2 - 3 Years	1,927
4 - 6 Years	2,993
7 - 9 Years	1,681
10+ Years	1,304

8 Who's Hiring

Company	Total/Unique (Aug 2021 - Jul 2022)	Posting Intensity	Unique Postings Trend (Aug 2021 - Jul 2022)
Northrop Grumman	2,934 / 743	4 : 1	
Boeing	1,887 / 686	3 : 1	
Raytheon Technologies	1,618 / 633	3 : 1	
General Atomics	1,220 / 491	2 : 1	
Qualcomm	1,865 / 385	5 : 1	
Jobot	1,887 / 303	6 : 1	
L3Harris Technologies	467 / 221	2 : 1	
Space Exploration Technologies	540 / 211	3 : 1	
CyberCoders	393 / 139	3 : 1	
Supernal	443 / 139	3 : 1	

9 Top Cities Posting

City	Total/Unique (Aug 2021 - Jul 2022)	Posting Intensity	Unique Postings Trend (Aug 2021 - Jul 2022)
San Diego, CA	8,533 / 2,345	4 : 1	
Los Angeles, CA	4,231 / 1,309	3 : 1	
Irvine, CA	2,265 / 895	3 : 1	
El Segundo, CA	2,579 / 888	3 : 1	
Pasadena, CA	653 / 265	2 : 1	
Anaheim, CA	647 / 232	3 : 1	
Carlsbad, CA	496 / 221	2 : 1	
Hawthorne, CA	517 / 206	3 : 1	
Redondo Beach, CA	925 / 206	4 : 1	
Torrance, CA	550 / 191	3 : 1	

10 Top Posted Job Titles

Job Title	Total/Unique (Aug 2021 - Jul 2022)	Posting Intensity	Unique Postings Trend (Aug 2021 - Jul 2022)
Electrical Engineers	4,426 / 1,452	3 : 1	
Controls Engineers	900 / 309	3 : 1	
Principal Electrical Engineers	814 / 298	3 : 1	
Hardware Engineers	751 / 240	3 : 1	
Electrical Design Engineers	576 / 166	3 : 1	
Electronics Engineers	548 / 163	3 : 1	
FPGA Engineers	291 / 140	2 : 1	
Principal Engineers	378 / 129	3 : 1	
Radio Frequency Engineering Managers	503 / 124	4 : 1	
Radio Frequency/Microwave Engineers	453 / 104	4 : 1	

11 Top Industries

Industry	Total/Unique (Aug 2021 - Jul 2022)	Posting Intensity	Unique Postings Trend (Aug 2021 - Jul 2022)
Manufacturing	13,724 / 4,233	3 : 1	
Professional, Scientific, and Technical Services	5,929 / 2,005	3 : 1	
Administrative and Support and Waste Management and Remediation Services	5,604 / 1,608	3 : 1	
Information	656 / 235	3 : 1	
Construction	669 / 189	4 : 1	
Wholesale Trade	415 / 164	3 : 1	
Retail Trade	233 / 123	2 : 1	
Utilities	330 / 86	4 : 1	
Health Care and Social Assistance	194 / 77	3 : 1	
Transportation and Warehousing	184 / 66	3 : 1	

12 In-Demand Skills

12.1 Top Specialized Skills

Skills	Postings	% of Total Postings
Electrical Engineering	5,958	58%
Electronics	2,203	22%
Simulations	2,099	21%
Computer Science	1,988	20%
Test Equipment	1,708	17%
Radio Frequency	1,689	17%
MATLAB	1,660	16%
Computer Engineering	1,655	16%
Field-Programmable Gate Array (FPGA)	1,650	16%
Systems Engineering	1,591	16%

12.2 Top Common Skill

Skills	Postings	% of Total Postings
Communications	4,894	48%
Troubleshooting (Problem Solving)	2,797	27%
Leadership	2,340	23%
Management	2,206	22%
Mathematics	2,060	20%
Problem Solving	1,732	17%
Operations	1,556	15%
Presentations	1,295	13%
Written Communication	1,277	13%
Coordinating	1,268	12%

12.3 Top Software Skills

Skills	Postings	% of Total Postings
MATLAB	1,659	16%
Field-Programmable Gate Array (FPGA)	1,650	16%
C++ (Programming Language)	1,446	14%
Python (Programming Language)	1,437	14%
C (Programming Language)	1,227	12%
Firmware	912	9%
Microsoft Office	893	9%
Microsoft Excel	871	9%
AutoCAD	864	8%
VHSIC Hardware Description Language (VHDL)	713	7%