Careers Outlook for Majors in Computer Information Systems

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 Computer Information Systems as one of the educational requirements.

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

- computer and information systems managers
- information security analysts.

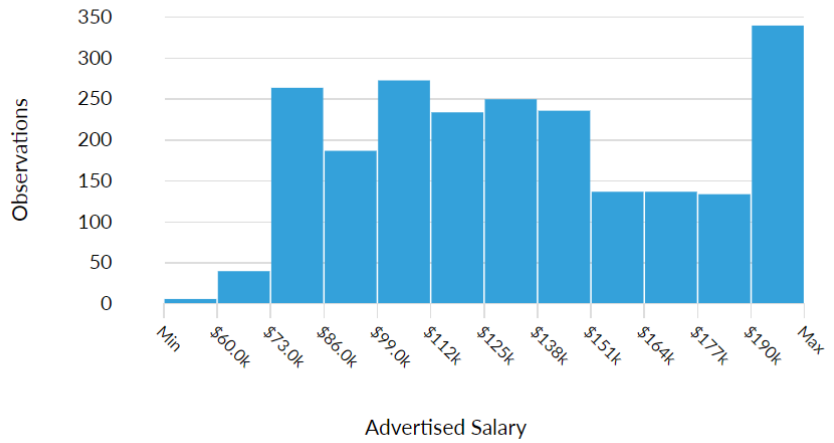# 2 Number of Unique Postings

There were 10,527 unique job postings:

San Diego County	Los Angeles County	Orange County	Riverside County	Imperial County	Unique Postings
2,535	5,746	2,060	172	14	**10,527**

Occupation (SOC)	Total/Unique (Aug 2021 - Jul 2022)	Posting Intensity	Unique Postings Trend (Aug 2021 - Jul 2022)
💼 Information Security Analysts	22,746 / 7,964	3 : 1	
💼 Computer and Information Systems Managers	8,373 / 2,563	3 : 1	

3 Median Advertised Salary

There are 2,226 advertised salary observations (21% of the 10,527 matching postings).

$126.7K
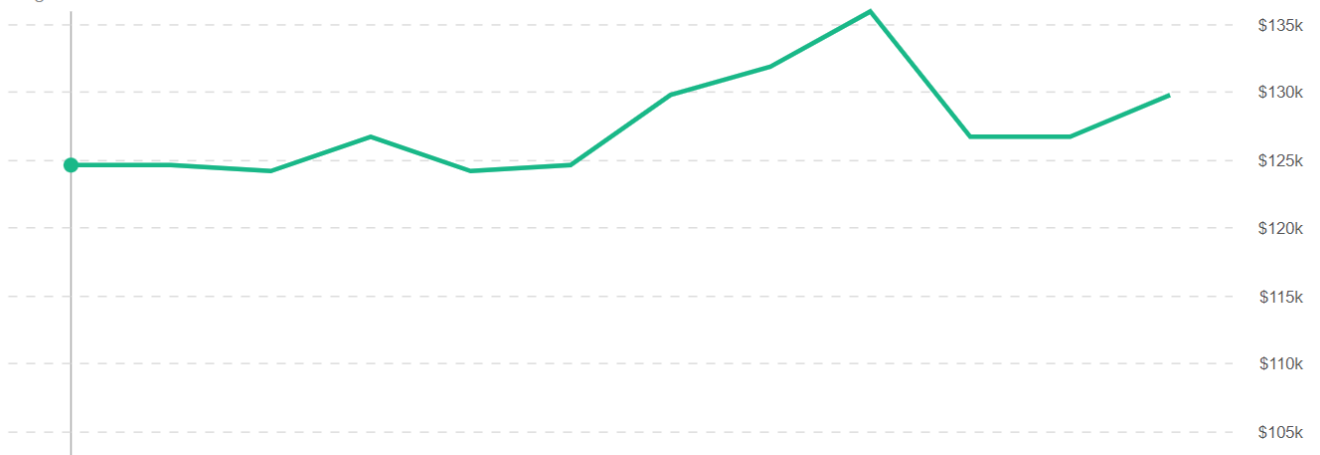
Median Advertised Salary

4 Advertised Wages Trend

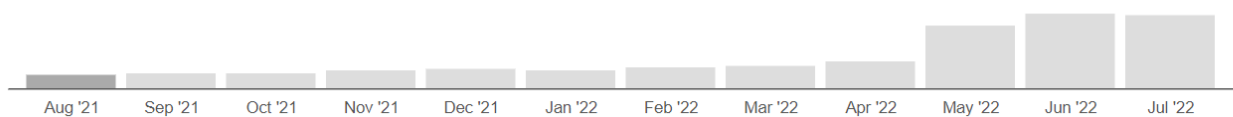Advertised Wage Trend ?

▲ **4.1%** Aug 2021 – Jul 2022
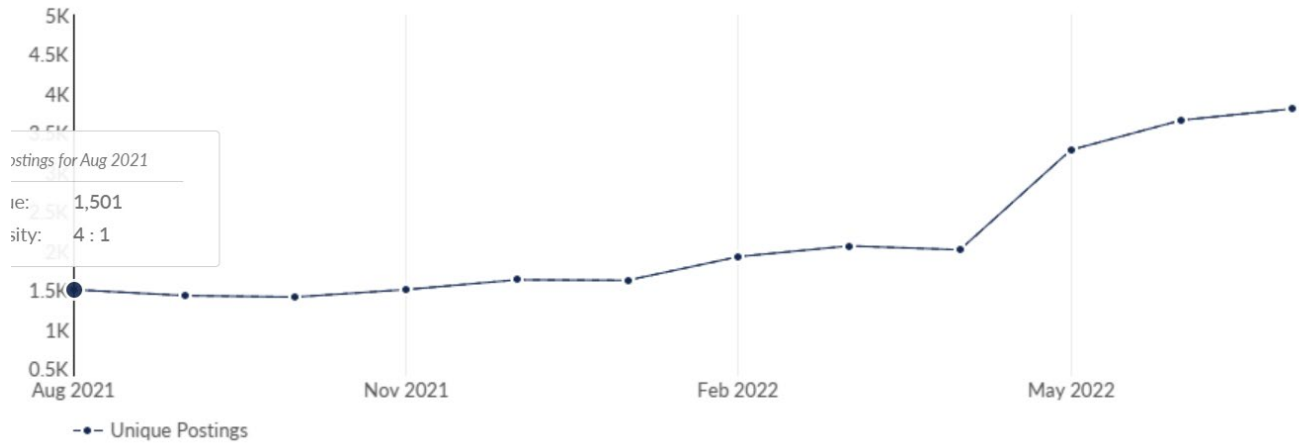
6M **1Y** 3Y CUSTOM

$125k Median

August 2021

190 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	629	6%
Associate degree	589	6%
Bachelor's degree	10,527	100%
Master's degree	3,483	33%
Ph.D. or professional degree	874	8%

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	1,744
0 - 1 Years	479
2 - 3 Years	1,557
4 - 6 Years	3,182
7 - 9 Years	1,730
10+ Years	1,835

8   Who's Hiring

Company	Total/Unique (Aug 2021 - Jul 2022)	Posting Intensity	Unique Postings Trend (Aug 2021 - Jul 2022)
Northrop Grumman	3,622 / 867	4 : 1	
KPMG	992 / 320	3 : 1	
Anthem Blue Cross	379 / 316	1 : 1	
Raytheon Technologies	649 / 288	2 : 1	
Deloitte	748 / 260	3 : 1	
Boeing	856 / 202	4 : 1	
Disney	611 / 186	3 : 1	
PricewaterhouseCoopers	453 / 145	3 : 1	
First American Financial	300 / 117	3 : 1	
Directv	365 / 116	3 : 1	

9 Top Cities Posting

City	Total/Unique (Aug 2021 - Jul 2022)	Posting Intensity	Unique Postings Trend (Aug 2021 - Jul 2022)
Los Angeles, CA	6,949 / 2,256	3 : 1	
San Diego, CA	6,626 / 2,145	3 : 1	
El Segundo, CA	2,457 / 888	3 : 1	
Irvine, CA	2,430 / 762	3 : 1	
Redondo Beach, CA	1,506 / 381	4 : 1	
Costa Mesa, CA	596 / 215	3 : 1	
Anaheim, CA	667 / 173	4 : 1	
Santa Ana, CA	567 / 171	3 : 1	
Palmdale, CA	527 / 165	3 : 1	
Burbank, CA	549 / 158	3 : 1	

10 Top Posted Job Titles

Job Title	Total/Unique (Aug 2021 - Jul 2022)	Posting Intensity	Unique Postings Trend (Aug 2021 - Jul 2022)
Security Engineers	1,304 / 426	3 : 1	
Cybersecurity Engineers	738 / 279	3 : 1	
Information Security Analysts	710 / 235	3 : 1	
Systems Security Engineers	496 / 216	2 : 1	
Information Systems Security Officers	918 / 214	4 : 1	
Directors of Information Technology	520 / 192	3 : 1	
Security Analysts	387 / 187	2 : 1	
Cloud Security Engineers	292 / 152	2 : 1	
Network Security Engineers	325 / 151	2 : 1	
Cybersecurity Analysts	415 / 148	3 : 1	

11 Top Industries

Industry	Total/Unique (Aug 2021 - Jul 2022)	Posting Intensity	Unique Postings Trend (Aug 2021 - Jul 2022)
Professional, Scientific, and Technical Services	7,958 / 2,819	3 : 1	
Manufacturing	8,130 / 2,349	3 : 1	
Administrative and Support and Waste Management and Remediation Services	2,665 / 990	3 : 1	
Finance and Insurance	2,367 / 975	2 : 1	
Information	2,264 / 735	3 : 1	
Health Care and Social Assistance	740 / 283	3 : 1	
Educational Services	700 / 255	3 : 1	
Wholesale Trade	499 / 177	3 : 1	
Retail Trade	464 / 176	3 : 1	
Public Administration	380 / 123	3 : 1	

12 In-Demand Skills

12.1 Top Specialized Skills

Skills	Postings	% of Total Postings
Computer Science	4,751	45%
Cyber Security	3,336	32%
Auditing	2,809	27%
Vulnerability	2,302	22%
Information Systems	2,143	20%
Risk Analysis	1,855	18%
Risk Management	1,675	16%
Automation	1,634	16%
Firewall	1,569	15%
Network Security	1,559	15%

12.2 Top Common Skills

Skills	Postings	% of Total Postings
Management	5,341	51%
Communications	5,249	50%
Leadership	3,878	37%
Operations	3,137	30%
Information Technology	2,938	28%
Planning	2,280	22%
Problem Solving	2,130	20%
Research	1,807	17%
Innovation	1,563	15%
Coordinating	1,519	14%

12.3 Top Software Skills

Skills	Postings	% of Total Postings
Firewall	1,569	15%
Python (Programming Language)	1,508	14%
Amazon Web Services	1,477	14%
Operating Systems	1,467	14%
Linux	1,320	13%
Microsoft Azure	1,186	11%
Microsoft Excel	1,079	10%
Security Information And Event Management (SIEM)	1,067	10%
Microsoft PowerPoint	913	9%
Microsoft Office	864	8%