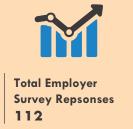
### Systems Security Analyst - California, 2018

Responsible for the analysis and development of the integration, testing, operations, and maintenance of systems security.

NICE Framework Category: Operate and Maintain

**Specialty Area:** Systems Analysis







of employers reported having the System Security Analyst work role

#### **Temporary jobs**



Education & Work Experience	Soft Skills	Certifications
<b>58%</b> Bachelor's degree and <b>45%</b> 3 to 5 years of experience	46% Problem Solving 38% Teamwork/Collaboration 31% Quality Assurance & Control	43% Certified Information Systems Secutiry Professional (CISSP) 42% CISCO Certified Network Associate (CCNA) 42% Microsoft Certified System Administrator (MCSA)

#### Cyber Defense Analyst - California, 2018

Uses data collected from a variety of cyber defense tools (e.g., IDS alerts, firewalls, network traffic logs) to analyze events that occur within their environments for the purposes of mitigating threats.

of mitigating threats.

NICE Framework Category: Protect and Defend

Specialty Area: Cyber Defense Analysis



Total Employer
Survey Repsonses
118

#### **Permanent jobs**



of employers reported having the Cyber

Defense Analyst work role

Education & Work Experience	Soft Skills	Certifications
47% Bachelor's degree and 44% 3 to 5 years of experience	47% Problem Solving 44% Troubleshooting	47% CISCO Certified Network Professional (CCNP) 41% Microsoft Certified System Administrator (MCSA) 40% CISCO Certified Network Associate (CCNA)

### **Cyber Defense Infrastructure Support Specialist**

- California, 2018

Tests, implements, deploys, maintains, and administers the infrastructure hardware and software.

NICE Framework Category: Protect and Defend

Specialty Area: Cyber Defense Infrastructure Support



Total Employer
Survey Repsonses
112





**Temporary jobs** 



of employers
reported having the
Cyber Defense
Infrastructure
Support Specialist
work role

Education & Work Experience	Soft Skills	Certifications
<ul><li>51% Bachelor's degree</li><li>and</li><li>39% 3 to 5 years of experience</li></ul>	<ul><li>53% Problem Solving</li><li>45% Troubleshooting</li><li>39% Teamwork/Collaboration</li></ul>	<ul> <li>44% Certified Information</li> <li>Systems Security Professional (CISSP)</li> <li>42% Microsoft Certified System</li> <li>Administrator (MCSA)</li> <li>41% CISCO Certified Network</li> <li>Professional (CCNP)</li> </ul>

#### Vulnerability Assessment Analyst - California, 2018

Performs assessments of systems and networks within the network environmentor enclave and identifies where those systems/networks deviate from acceptable configurations, enclave policy, or local policy. Measures effectiveness of defense.

NICE Framework Category: Protect and Defend

Specialty Area: Vulnerability Assessment and Management



Total Employer
Survey Repsonses
119

#### Permanent jobs



**Temporary jobs** 



of employers
reported having the
Cyber Defense
Infrastructure
Support Specialist
work role

Education & Work Experience	Soft Skills	Certifications
40% Bachelor's degree and 42% 1 to 2 years of experience	46% Problem Solving 33% Communication Skills	41% CISCO Certified Network Associate (CCNA)  40% Microsoft Certified System Administrator (MCSA)  40% Certified Information Systems Security Professional (CISSP)

### Cyber Defense Forensics Analyst - California, 2018

Analyzes digital evidence and investigates computer security incidents to derive information in support of system/network vulnerability mitigation.

**NICE Framework Category:** Investigate

**Specialty Area:** Digital Forensics



**Forensics Analyst** 

work role





11% ase in the 2 months of employers reported having the Cyber Defense

#### **Temporary jobs**



Education & Work Experience	Soft Skills	Certifications
48% Bachelor's degree and 40% 1 to 2 years of experience	38% Problem Solving 30% Comminication Skills	48% Microsoft Certified System Administrator (MCSA 40% Certified Information Systems Security Professional (CISSP)) 37% CISCO Certified Network Professional (CCNP)

		Award of less than 1 academic	Award of at least 1 but less than 2 academic	Associate	Award of 2 but less than 4 academic	Bachelor's	Post- master's	Master's	Post- baccalaureate	Doctor's degree research/	Grand
Educational Institution	Region	year	years	degree	years	degree	certificate	degree	certificate	scholarship	Total
Cybersecurity Focuse	ed	27	5	16	0	4	0	7	2	0	61
City College of San Francisco	Bay Area	1	0	1	0	0	0	0	0	0	2
College of San Mateo	Bay Area	1	1	1	0	0	0	0	0	0	3
Contra Costa College	Bay Area	1	0	0	0	0	0	0	0	0	1
Foothill College	Bay Area	1	0	0	0	0	0	0	0	0	1
Fresno City College	Bay Area	1	0	0	0	0	0	0	0	0	1
Gavilan College	Bay Area	1	0	1	0	0	0	0	0	0	2
Los Medanos College	Bay Area	1	1	1	0	0	0	0	0	0	3
Naval Postgraduate School	Bay Area	0	0	0	0	0	0	2	2	0	4
Ohlone College	Bay Area	1	0	0	0	0	0	0	0	0	1
University of San Francisco	Bay Area	0	0	0	0	0	0	1	0	0	1
Mt San Jacinto Community	Inland Empire/		•	•	•	•	•	_	0	^	,
College District	Desert Region	1	0	0	0	0	0	0	0	0	1
Azusa Pacific University	Los Angeles/Orange County	0	0	0	0	1	0	0	0	0	1
Charter College-Canyon Country	Los Angeles/Orange County	0	1	0	0	0	0	0	0	0	1
Citrus College	Los Angeles/Orange County	1	0	0	0	0	0	0	0	0	1
Coastline Community College	Los Angeles/Orange County	1	0	1	0	0	0	0	0	0	2
Cypress College	Los Angeles/Orange County	1	0	0	0	0	0	0	0	0	1
Learnet Academy Inc	Los Angeles/Orange County	1	0	0	0	0	0	0	0	0	1
Long Beach City College	Los Angeles/Orange County	1	0	0	0	0	0	0	0	0	1
Mt San Antonio College	Los Angeles/Orange County	0	0	1	0	0	0	0	0	0	1
Mt Sierra College	Los Angeles/Orange County	0	0	0	0	1	0	0	0	0	1
Santa Ana College	Los Angeles/Orange County	1	0	0	0	0	0	0	0	0	1
University of Southern California	Los Angeles/Orange County	0	0	0	0	0	0	1	0	0	1
West Los Angeles College	Los Angeles/Orange County	1	0	0	0	0	0	0	0	0	1
California Miramar University	San Diego/Imperial	1	0	0	0	0	0	0	0	0	1
Coleman University	San Diego/Imperial	0	0	1	0	1	0	0	0	0	2
Imperial Valley College	San Diego/Imperial	1	0	1	0	0	0	0	0	0	2
National University	San Diego/Imperial	0	0	0	0	0	0	1	0	0	1
San Diego City College	San Diego/Imperial	1	0	1	0	0	0	0	0	0	2
Southwestern College	San Diego/Imperial	1	1	1	0	0	0	0	0	0	3
University of San Diego	San Diego/Imperial	0	0	0	0	0	0	2	0	0	2
Cuesta College	South Central Coast	0	1	1	0	0	0	0	0	0	2
Santa Barbara City College	South Central Coast	0	0	1	0	0	0	0	0	0	1
Columbia College	Central California	1	0	0	0	0	0	0	0	0	1
American River College	Far North	1	0	1	0	0	0	0	0	0	2
Asher College	Far North	1	0	0	0	0	0	0	0	0	1
Cosumnes River College	Far North	1	0	1	0	0	0	0	0	0	2

		Award of less than 1 academic	Award of at least 1 but less than 2 academic	Associate	Award of 2 but less than 4 academic	Bachelor's	Post- master's	Master's	Post- baccalaureate	Doctor's degree research/	Grand
Educational Institution	Region	year	years	degree	years	degree	certificate	degree	certificate	scholarship	Total
Cybersecurity Focus											
Sacramento City College	Far North	1	0	1	0	0	0	0	0	0	2
Shasta College Sierra College	Far North	1	0	0	0	0	0	0	0	0	1 2
University of Phoenix -		•				-	-		-		
California	N/A	0	0	0	0	1	0	0	0	0	1
Includes Aspects of	Cybersecurity	105	41	66	0	20	0	19	5	2	258
Berkeley City College	Bay Area	1	0	0	0	0	0	0	0	0	1
California State University-East Bay	Bay Area	0	0	0	0	0	0	1	0	0	1
City College of San Francisco	Bay Area	2	0	0	0	0	0	0	0	0	2
Cogswell College	Bay Area	0	0	0	0	1	0	0	0	0	1
College of Marin	Bay Area	0	0	1	0	0	0	0	0	0	1
College of San Mateo	Bay Area	0	0	1	0	0	0	0	0	0	1
Contra Costa College	Bay Area	2	0	1	0	0	0	0	0	0	3
De Anza College	Bay Area	2	2	2	0	0	0	0	0	0	6
Diablo Valley College	Bay Area	1	1	1	0	0	0	0	0	0	3
Foothill College	Bay Area	1	0	3	0	0	0	0	0	0	4
Fresno City College	Bay Area	2	1	2	0	0	0	0	0	0	5
Gavilan College	Bay Area	1	0	1	0	0	0	0	0	0	2
Golden Gate University- San Francisco	Bay Area	1	0	0	0	1	0	1	0	0	3
Las Positas College	Bay Area	1	0	1	0	0	0	0	0	0	2
Los Medanos College	Bay Area	1	1	1	0	0	0	0	0	0	3
Merritt College	Bay Area	1	0	0	0	0	0	0	0	0	1
_			1	1	0	0	0	0	0	0	
Mission College	Bay Area	2	'	'	U	U	U	U	U	U	4
Naval Postgraduate School	Bay Area	0	0	0	0	0	0	2	2	0	4
Ohlone College	Bay Area	2	1	1	0	0	0	0	0	0	4
San Jose City College	Bay Area	2	1	2	0	0	0	0	0	0	5
Santa Clara University	Bay Area	0	0	0	0	1	0	0	0	0	1
Santa Rosa Junior College	Bay Area	2	1	0	0	0	0	0	0	0	3
Skyline College	Bay Area	0	1	1	0	0	0	0	0	0	2
Solano Community College	Bay Area	0	1	1	0	0	0	0	0	0	2
University of San Francisco	Bay Area	0	0	0	0	1	0	1	0	0	2
Chaffey College	Inland Empire/ Desert Region	2	1	0	0	0	0	0	0	0	3
Moreno Valley College	Inland Empire/ Desert Region	1	0	0	0	0	0	0	0	0	1
Mt San Jacinto Community College District	Inland Empire/ Desert Region	2	2	0	0	0	0	0	0	0	4
Norco College	Inland Empire/ Desert Region	1	0	0	0	0	0	0	0	0	1

Educational Institution	Region	Award of less than 1 academic year	Award of at least 1 but less than 2 academic years	Associate degree	Award of 2 but less than 4 academic years	Bachelor's degree	Post- master's certificate	Master's degree	Post- baccalaureate certificate	Doctor's degree research/ scholarship	Grand Total
Includes Aspects of	Cybersecurity (	ontinued	)								
Riverside City College	Inland Empire/ Desert Region	3	0	0	0	0	0	0	0	0	3
University of Redlands	Inland Empire/ Desert Region	0	1	0	0	0	0	0	0	0	1
ABCO Technology	Los Angeles/ Orange County	3	0	0	0	0	0	0	0	0	3
Advanced Computing Institute	Los Angeles/ Orange County	0	0	1	0	0	0	0	0	0	1
Brand College	Los Angeles/ Orange County	2	0	0	0	0	0	0	0	0	2
California Career School	Los Angeles/ Orange County	1	0	0	0	0	0	0	0	0	1
California Intercontinental University	Los Angeles/ Orange County	0	0	0	0	1	0	0	0	1	2
Cerritos College	Los Angeles/ Orange County	1	0	1	0	0	0	0	0	0	2
Citrus College	Los Angeles/ Orange County	1	0	1	0	0	0	0	0	0	2
Coastline Community College	Los Angeles/ Orange County	2	0	2	0	0	0	0	0	0	4
Cypress College	Los Angeles/ Orange County	2	0	0	0	0	0	0	0	0	2
East Los Angeles College	Los Angeles/ Orange County	1	0	0	0	0	0	0	0	0	1
Fullerton College	Los Angeles/ Orange County	1	0	0	0	0	0	0	0	0	1
Glendale Community College	Los Angeles/ Orange County	2	0	1	0	0	0	0	0	0	3
Irvine Valley College	Los Angeles/ Orange County	1	0	1	0	0	0	0	0	0	2
Long Beach City College	Los Angeles/ Orange County	3	1	2	0	0	0	0	0	0	6
Los Angeles City College	Los Angeles/ Orange County	3	0	0	0	0	0	0	0	0	3
Los Angeles Pierce College	Los Angeles/ Orange County	2	0	1	0	0	0	0	0	0	3
Loyola Marymount University	Los Angeles/ Orange County	0	0	0	0	1	0	0	0	0	1
Mt San Antonio College	Los Angeles/ Orange County	1	0	2	0	0	0	0	0	0	3
Mt Sierra College	Los Angeles/ Orange County	0	0	0	0	1	0	0	0	0	1
PCI College	Los Angeles/ Orange County	1	0	0	0	0	0	0	0	0	1
Pepperdine University	Los Angeles/ Orange County	0	0	0	0	1	0	0	0	0	1
Saddleback College	Los Angeles/ Orange County	2	0	1	0	0	0	0	0	0	3

		Award of less than 1 academic	Award of at least 1 but less than 2 academic	Associate	Award of 2 but less than 4 academic	Bachelor's	Post- master's	Master's	Post- baccalaureate	Doctor's degree research/	Grand
Educational Institution	Region	year	years	degree	years	degree	certificate	degree	certificate	scholarship	Total
Includes Aspects of		ntinued	)								
Santa Ana College	Los Angeles/ Orange County	2	0	0	0	0	0	0	0	0	2
Santa Monica College	Los Angeles/ Orange County	0	1	1	0	0	0	0	0	0	2
Trident University International	Los Angeles/ Orange County	0	0	0	0	0	0	1	1	0	2
University of California- Irvine	Los Angeles/ Orange County	0	0	0	0	1	0	1	0	1	3
University of Southern California	Los Angeles/ Orange County	0	0	0	0	0	0	2	0	0	2
Vanguard University of Southern California	Los Angeles/ Orange County	0	0	0	0	1	0	0	0	0	1
West Los Angeles College	Los Angeles/ Orange County	2	2	2	0	0	0	0	0	0	6
Ashford University	San Diego/Imperial	0	0	0	0	1	0	0	0	0	1
California Miramar University	San Diego/Imperial	1	0	0	0	0	0	0	0	0	1
Coleman University	San Diego/Imperial	0	0	1	0	1	0	1	0	0	3
Cuyamaca College	San Diego/Imperial	0	1	1	0	0	0	0	0	0	2
Grossmont College	San Diego/Imperial	3	3	3	0	0	0	0	0	0	9
MiraCosta College	San Diego/Imperial	1	1	2	0	0	0	0	0	0	4
National University	San Diego/Imperial	1	0	0	0	2	0	4	0	0	7
Palomar College	San Diego/Imperial	2	1	2	0	0	0	0	0	0	5
Point Loma Nazarene University	San Diego/Imperial	0	0	0	0	1	0	0	0	0	1
San Diego City College	San Diego/Imperial	1	0	0	0	0	0	0	0	0	1
Southwestern College	San Diego/Imperial	1	1	1	0	0	0	0	0	0	3
Allan Hancock College	South Central Coast	1	0	1	0	0	0	0	0	0	2
Antelope Valley College	South Central Coast	1	1	1	0	0	0	0	0	0	3
California Lutheran University	South Central Coast	0	0	0	0	0	0	2	0	0	2
College of the Canyons	South Central Coast	1	1	1	0	0	0	0	0	0	3
Cuesta College	South Central Coast	1	0	0	0	0	0	0	0	0	1
Laurus College	South Central Coast	1	0	0	0	0	0	0	0	0	1
Moorpark College	South Central Coast	1	1	1	0	0	0	0	0	0	3
Oxnard College	South Central Coast	1	1	1	0	0	0	0	0	0	3
Santa Barbara City College	South Central Coast	0	1	1	0	0	0	0	0	0	2
Ventura Adult and Continuing Education	South Central Coast	0	2	0	0	0	0	0	0	0	2
Modesto Junior College	Central California	1	0	0	0	0	0	0	0	0	1
Reedley College	Central California	1	0	1	0	0	0	0	0	0	2
San Joaquin Delta College	Central California	1	0	1	0	0	0	0	0	0	2
West Hills College- Lemoore	Central California	1	0	0	0	0	0	0	0	0	1

iducational Institution	Region	Award of less than 1 academic year	Award of at least 1 but less than 2 academic years	Associate degree	Award of 2 but less than 4 academic years	Bachelor's degree	Post- master's certificate	Master's degree	Post- baccalaureate certificate	Doctor's degree research/ scholarship	Grand Total
Includes Aspects of	Cybersecurity		)								
American River College	Far North	3	0	2	0	0	0	0	0	0	5
Asher College	Far North	1	2	2	0	0	0	0	0	0	5
College of the Redwoods	Far North	0	1	1	0	0	0	0	0	0	2
Cosumnes River College	Far North	2	0	1	0	0	0	0	0	0	3
Folsom Lake College	Far North	2	0	0	0	0	0	0	0	0	2
MTI College	Far North	1	0	1	0	0	0	0	0	0	2
Sacramento City College	Far North	2	3	1	0	0	0	0	0	0	6
Shasta College	Far North	2	1	1	0	0	0	0	0	0	4
Sierra College	Far North	1	0	1	0	0	0	0	0	0	2
Yuba College	Far North	1	0	0	0	0	0	0	0	0	1
Computer Training Academy	N/A	1	0	0	0	0	0	0	0	0	1
DeVry University- California	N/A	0	0	1	0	1	0	2	2	0	6
Institute of Technology	N/A	0	1	0	0	0	0	0	0	0	1
University of Phoenix- California	N/A	2	0	1	0	4	0	1	0	0	8
ikely Includes Cyber	rsecurity	229	126	272	2	137	- 1	65	8	18	85
Academy of Art University	Bay Area	0	0	1	1	2	0	1	1	0	6
Argosy University-San Francisco Bay Area	Bay Area	0	0	1	0	1	0	0	0	0	2
Argosy University-The Art Institute of California-San Francisco	Bay Area	0	1	1	0	1	0	0	0	0	3
Argosy University-The Art Institute of California- Silicon Valley	Bay Area	0	1	1	0	1	0	0	0	0	3
Berkeley City College	Bay Area	2	1	3	0	0	0	0	0	0	6
Cabrillo College	Bay Area	3	3	4	0	0	0	0	0	0	10
California State University-East Bay	Bay Area	0	0	0	0	1	0	1	0	0	2
California State University-Monterey Bay	Bay Area	0	0	0	0	2	0	0	0	0	2
Canada College	Bay Area	1	0	1	0	0	0	0	0	0	2
Chabot College	Bay Area	1	0	4	0	0	0	0	0	0	5
City College of San Francisco	Bay Area	4	0	2	0	0	0	0	0	0	ć
Cogswell College	Bay Area	0	0	0	0	1	0	0	0	0	1
College of Alameda	Bay Area	1	0	1	0	0	0	0	0	0	2
College of Marin	Bay Area	2	0	2	0	0	0	0	0	0	4
College of San Mateo	Bay Area	1	1	3	0	0	0	0	0	0	5
Contra Costa College	Bay Area	2	0	2	0	0	0	0	0	0	4
De Anza College	Bay Area	3	3	4	0	0	0	0	0	0	10
Diablo Valley College	Bay Area	3	1	3	0	0	0	0	0	0	7