Source: Labor Insight (Burning Glass Technologies)

Occupation Analysis - Cyber / Information Security Engineer / Analyst

Designs systems that protect the security of large databases, including databases with customer information and patient files. Examines client computer systems, identifies weak points in security, develops and implements new systems, monitors and responds to security issues.

Common job titles: Information Security Analyst, Security Engineer, Security Analyst, Cyber Security Analyst, Senior Security Engineer

Active Selections: ID, Cyber / Information Security Engineer / Analyst

Overview

Job Metrics

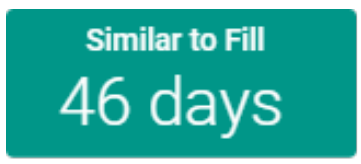
Job Postings

Last 12 Months

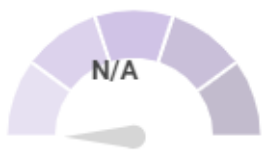
Projected Growth

10 Years

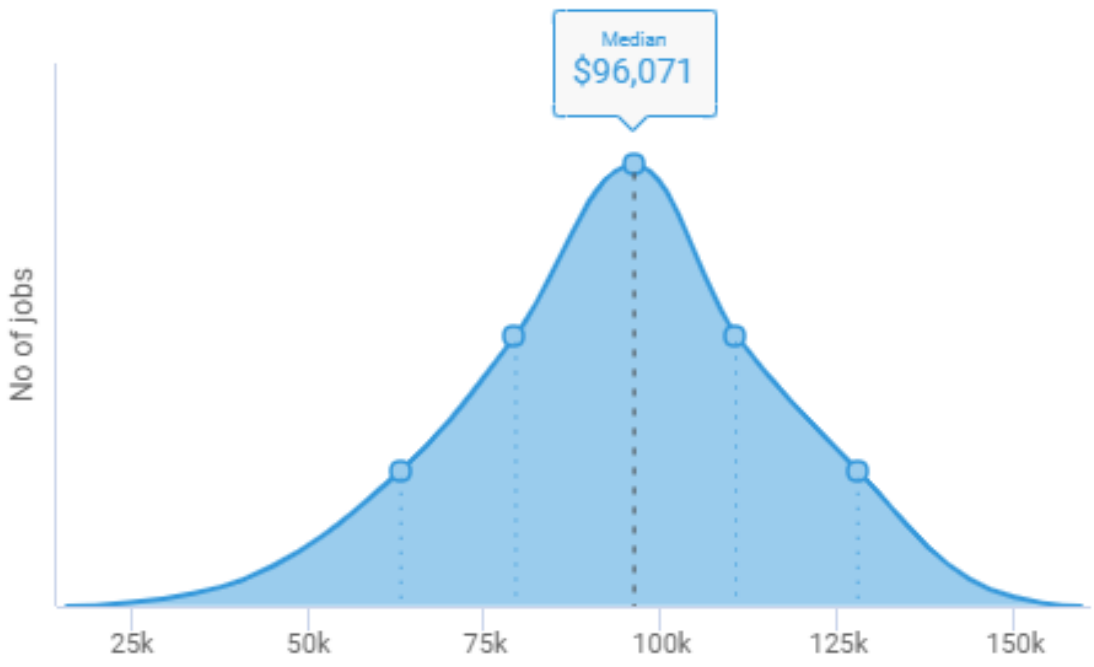
Time To Fill



Location Quotient



Salary Overall



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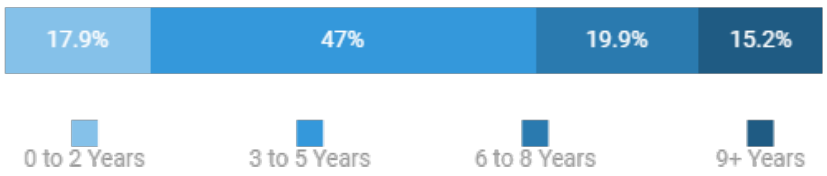
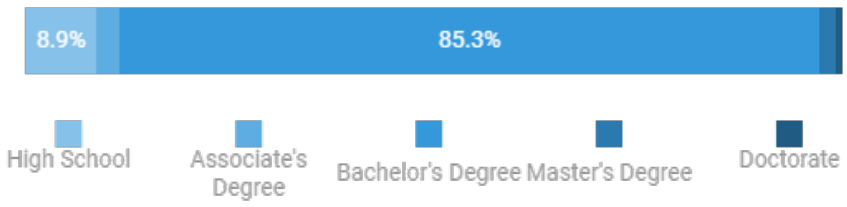
Job Qualifications

Years of Experience



Education Level



Certification

	Occasionally	Sometimes	Often
		Frequency Requested	
Certified Information Systems Security Professional (CISSP)	○	◉	○
Certified Information Systems Auditor (CISA)	○	◉	○
SANS/GIAC Certification	○	◉	○
Certified Information Security Manager (CISM)	○	◉	○
CompTIA Security+	◉	○	○
Information Systems Certification	◉	○	○
Security Clearance	◉	○	○
Cisco Certified Security Professional	◉	○	○
IT Infrastructure Library (ITIL) Certification	◉	○	○
Certified in Risk and Information Systems Control	◉	○	○

Top Skills

Specialized Skills

Information Security
Information Systems
Linux
Network Security
Python
Cryptography
Project Management

Baseline Skills

Communication Skills
Teamwork / Collaboration
Problem Solving
Research
Planning
Written Communication
Writing

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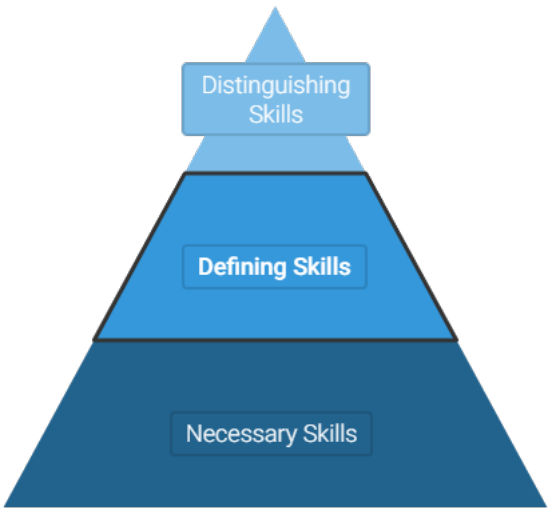
Skills Explorer

Occupational Skills for Cyber / Information Security Engineer / Analyst



An occupation's Defining skills represent the day-to-day tasks and responsibilities of the job. An employee needs these skills to qualify for and perform successfully in this occupation.

Skill	Skill Type	Occupational Skills Category	Salary Premium	Job Postings Requesting Last 12 months	Projected Growth 2 Years	Location Quotient
Information Security	Specialized	Defining		497		0.9
Information Systems	Specialized	Defining		199	-3.4%	0.7
Network Security	Specialized	Defining		172	-6.8%	0.8
NIST Cybersecurity Framework	Specialized	Defining		131		0.8
Vulnerability assessment	Software and Programming	Defining		130	+3.9%	1.0
Security Operations	Specialized	Defining		128	+7.9%	0.9
Penetration Testing	Specialized	Defining		103	+7.5%	0.9
Threat Analysis	Specialized	Defining		76	+13.8%	0.8
Intrusion detection	Specialized	Defining		74	-9.7%	0.8
Information Assurance	Specialized	Defining		64	-7.0%	0.6

Learn more about Occupational Skill Categories

Top Requested Skills for Cyber / Information Security Engineer / Analyst

Skill	Skill Type	Occupational Skills Category	Salary Premium	Job Postings Requesting	Projected Growth 2 Years	Location Quotient
Information Security	Specialized	Defining		497		0.9
Communication Skills	Baseline	NA		336		0.7
Teamwork / Collaboration	Baseline	NA		218		0.7
Problem Solving	Baseline	NA		209		0.9
Research	Baseline	NA		205		0.9
Information Systems	Specialized	Defining		199	-3.4%	0.7
Planning	Baseline	NA		196		0.9

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Linux	Software and Specialized	Necessary		190	-2.3%	0.9
Network Security	Specialized	Defining		172	-6.8%	0.8
Python	Software and Specialized	Necessary	✓	155	+24.5%	0.9
Cryptography	Specialized	Necessary		133	+1.0%	0.9
Project Management	Specialized	Necessary		133	-8.9%	0.9
NIST Cybersecurity Framework	Specialized	Defining		131		0.8
Vulnerability assessment	Software and Programming	Defining		130	+3.9%	1.0
Security Operations	Specialized	Defining		128	+7.9%	0.9
Written Communication	Baseline	NA		113		0.9
Writing	Baseline	NA		112		0.7
Troubleshooting	Baseline	NA		111		0.7
Penetration Testing	Specialized	Defining		103	+7.5%	0.9
Authentication	Specialized	Necessary		99	+2.0%	0.9
Presentation Skills	Baseline	NA		97		1.1
Risk Assessment	Specialized	Necessary		96	+0.9%	1.0
UNIX	Software and Programming	Necessary		92	-24.6%	0.9
Customer Service	Specialized	Necessary		90	+7.6%	0.7
System Administration	Specialized	NA		89	-4.0%	1.1
Health Insurance Portability and Accountability Act (HIPAA)	Specialized	Necessary		88	+0.5%	0.9
Detail-Oriented	Baseline	NA		78		0.7
Cyber Security Knowledge	Specialized	Distinguishing		77	+34.7%	1.4
Threat Analysis	Specialized	Defining		76	+13.8%	0.8
Intrusion detection	Specialized	Defining		74	-9.7%	0.8
Vulnerability analysis	Specialized	Distinguishing		74	+2.3%	1.1

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Java	Software and Programming	Necessary	✓	73	-6.8%	0.8
Software Development	Software and Programming	Necessary	✓	71	+8.4%	0.7
ISO 27001	Specialized	NA		70	+10.0%	1.0
Organizational Skills	Baseline	NA		69		0.7
Technical Writing / Editing	Specialized	NA		69	-6.7%	1.2
Building Effective Relationships	Baseline	NA		68		0.8
Cybersecurity Assessment	Specialized	Distinguishing	✓	67	+31.4%	1.2
Information Assurance	Specialized	Defining		64	-7.0%	0.6
Microsoft Active Directory	Specialized	NA		64	-12.7%	0.8
Risk Management	Specialized	Necessary		63	+3.8%	0.6
Budgeting	Specialized	NA		61	-5.2%	0.9
Creativity	Baseline	NA		60		0.7
Network Engineering	Specialized	NA		60	-6.2%	0.8
Transmission Control Protocol / Internet Protocol (TCP / IP)	Specialized	NA		58	-7.6%	0.8
Software as a Service (SaaS)	Software and Programming	NA		58	+23.5%	1.1
Microsoft PowerShell	Software and Programming	NA		55	+32.9%	0.7
Data Security	Specialized	NA		55	+2.5%	0.8
Microsoft Office	Software and Programming	NA		54	-1.9%	0.6
Microsoft Excel	Software and Programming	NA		51		0.6

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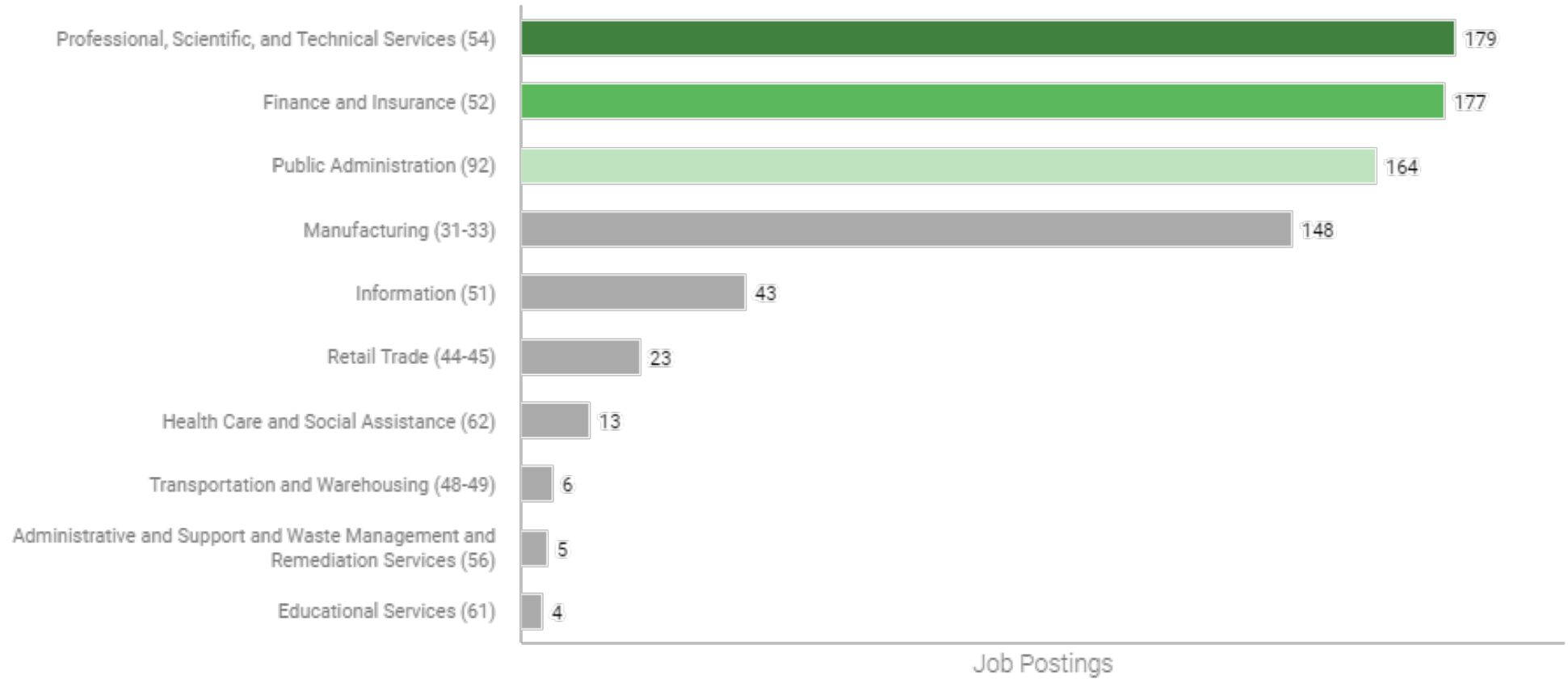
Employers & Industries

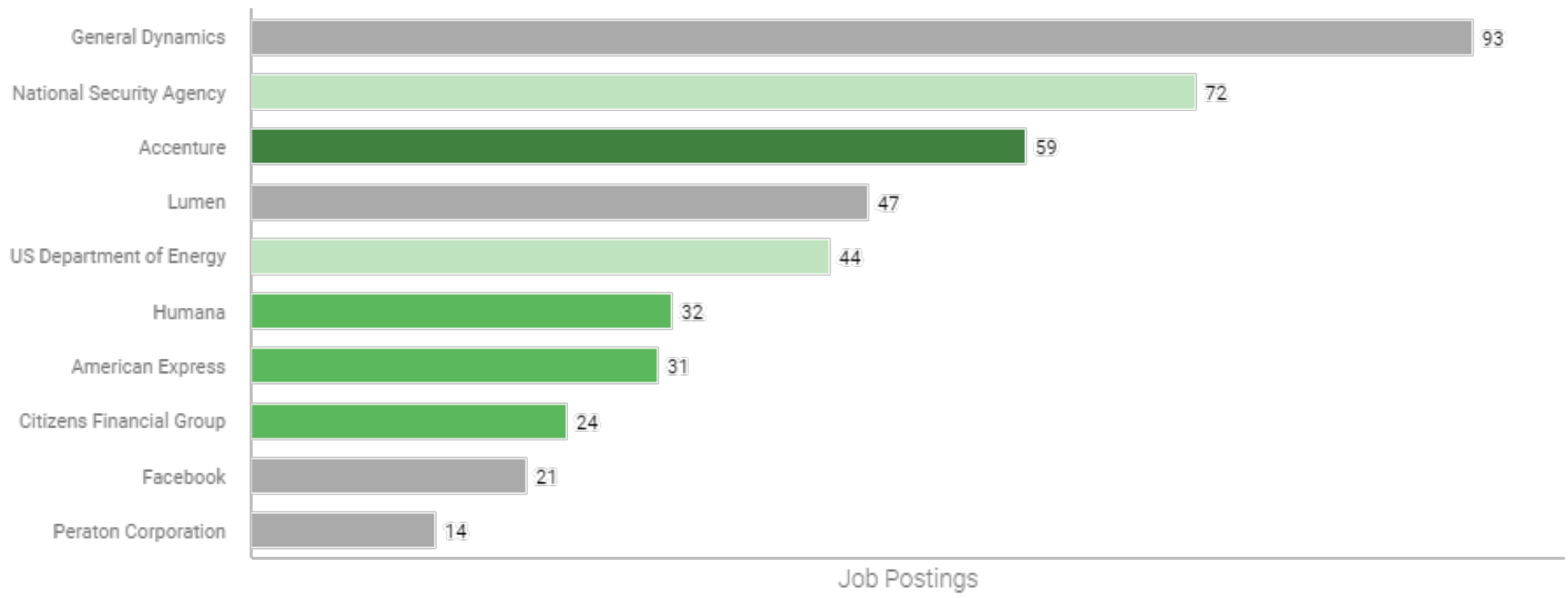
Top Industries

2digit



Top Employers

-



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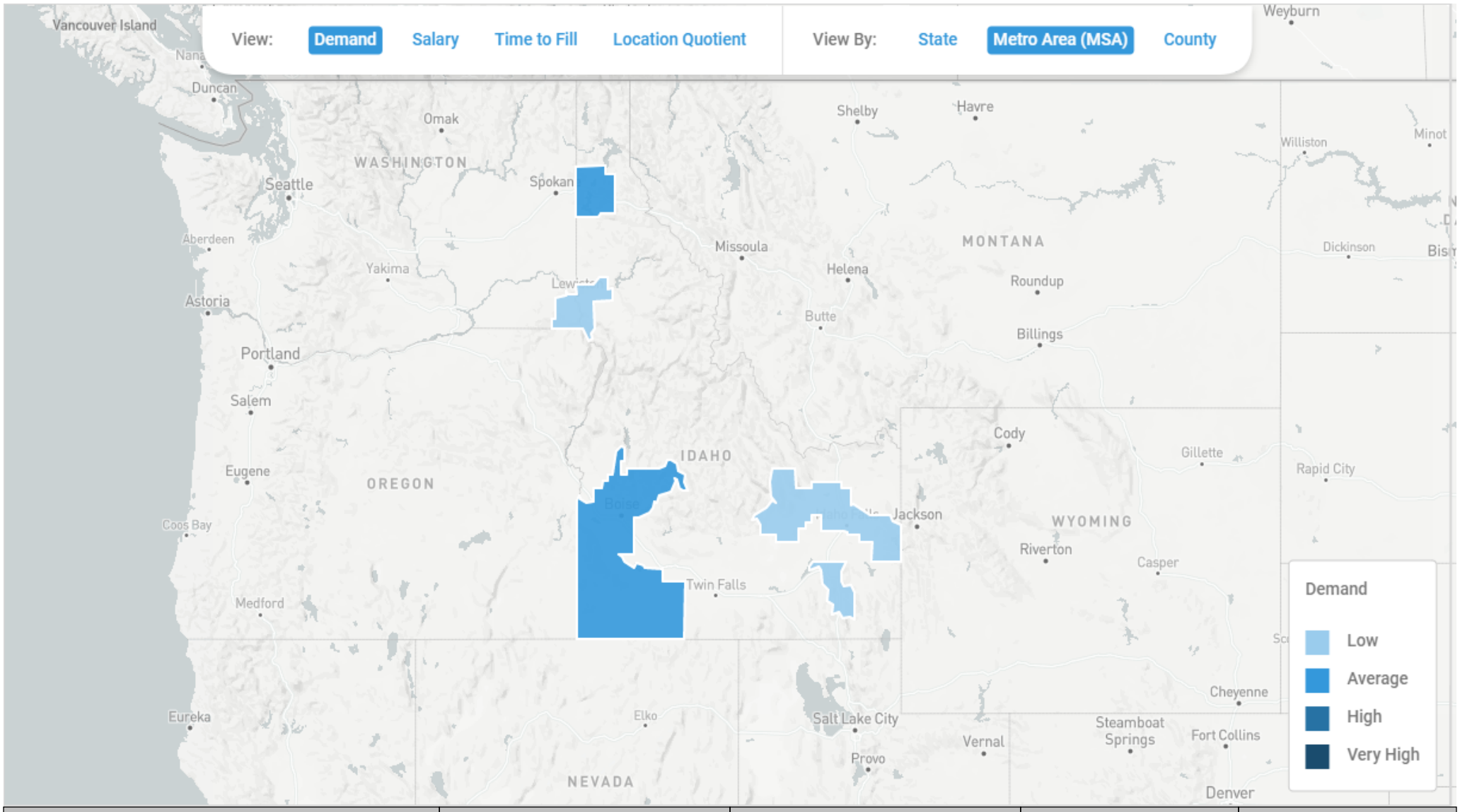
Top Locations



Metro Area (MSA)	Job Postings Last 12 months	Median Salary	Time to Fill Days	Location Quotient
Boise City, ID	628	$96k	47	1.0
Coeur d'Alene, ID	79	$89k	37	0.7
Idaho Falls, ID	73	$96k	50	1.2
Pocatello, ID	16	$94k	47	0.5
Lewiston, ID-WA	5	$78k	N/A	0.3

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Related Jobs

Cyber / Information Security Engineer / Analyst at a Glance

Salary

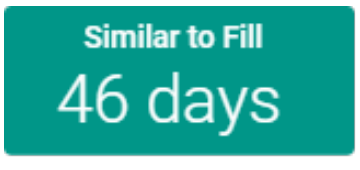
Job Postings

Last 12 Months

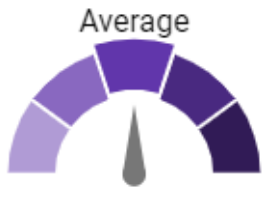
Projected Growth

10 Years

Time To Fill



Location Quotient



Source: Burning Glass analysis of Bureau of Labor Statistics and state projections

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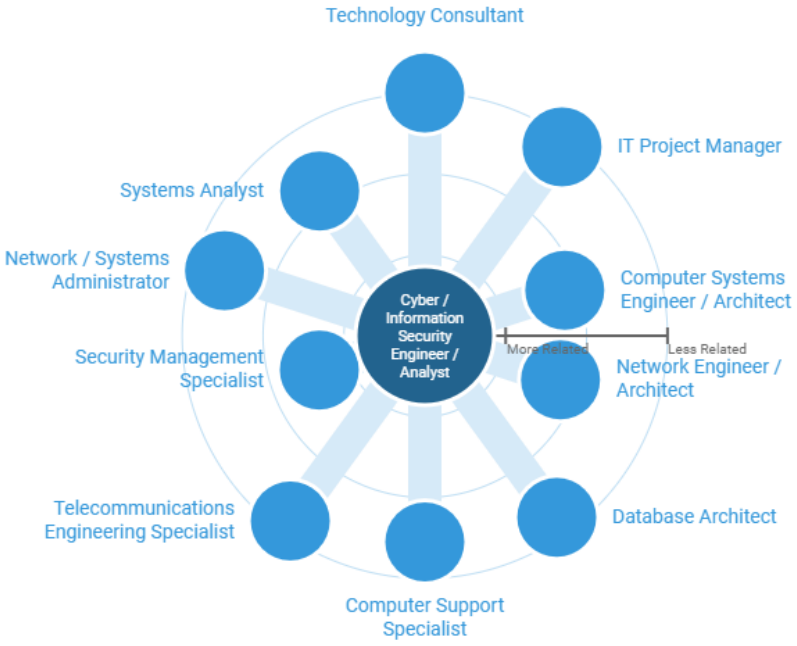
Related Jobs



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