Cybersecurity Workforce Demand

GLOBALLY, the shortage of cybersecurity professionals is estimated to be **2.72 Million**

Source: (ISC)² Cybersecurity Workforce Study, 2021

The most important technical skills:
- **25%** Cloud Security
- **17%** Data Analysis
- **14%** Coding/Programming

Source: 2021 Cybersecurity Career Pursuers Study

On average, **50%** of hiring managers surveyed generally do not believe their applicants are well qualified and an additional **16%** are either unable or uncomfortable making the determination.

Source: ISACA State of Cybersecurity 2021: Part 1: Global Update on Workforce Efforts, Resources, and Budgets

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Source: 2021 Cybersecurity Career Pursuers Study

How long does it take a cybersecurity professional to become proficient?
- **25%** Between 2-3 Years
- **35%** Between 3-5 Years
- 17% More Than 5 Years
- **16%** Between 1-2 Years
- **16%** Don’t Know/No Opinion

Source: The Life and Times of Cybersecurity Professionals 2021

**597,767** total cybersecurity job openings

**1,053,468** total employed cybersecurity workforce

Source: CyberSeek, November 2021

**13.5% Growth**

Computer and mathematical occupations will grow much faster than the average job during 2016–2026


On average, cybersecurity workers make **23%** more in the private sector than in the federal government—although pay is comparable at the entry level.

Source: Securing a Nation: Improving Federal Cybersecurity Hiring in the United States, 2021

**16%** Of respondents state that on average it takes **6 or more months** to fill a new cybersecurity position

Source: ISACA State of Cybersecurity 2021: Part 1: Global Update on Workforce Efforts, Resources, and Budgets

Top cybersecurity job titles:
- Cybersecurity Analyst
- Cybersecurity Manager
- Cybersecurity Consultant
- Software Developer
- Systems Engineer
- Network Engineer
- Penetration & Vulnerability Tester
- Systems Administrator
- Cybersecurity Specialist

Source: CyberSeek, November 2021

Top areas of professional development being pursued:
- Cloud Computing Security
- Risk Assessment, Analysis and Management
- DevSecOps
- Governance, Risk Management and Compliance (GRC)
- Threat Intelligence Analysis
- Application Security
- Security Engineering
- Security Administration
- Security Analysis
- Artificial Intelligence/Machine Learning

Source: (ISC)² Cybersecurity Workforce Study, 2021

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