



Optimizing Your Cyber Career Opportunities

CYBER PATHWAYS

Exploring access to high quality career pathways aligned to the needs of employers



[Cyber Apprenticeships](#)

[Youth Initiatives](#)



WHEN YOU HEAR "CYBER PROFESSIONAL" WHAT DO YOU IMMEDIATELY THINK OF?



There is an unprecedented demand for cybersecurity professionals across all industries. Frequent threats to digital infrastructure highlight a critical need for proactive strategies to protect that infrastructure.



Hacker / Attacker /
Black Hat / Red Team



Defender / Response /
White Hat / Blue Team

WHAT ARE YOU MOST INTERESTED IN?



WHAT'S IN CYBER HIGH DEMAND?

Protecting Digital Infrastructure

Application development security and cloud security are projected to be the fastest-growing skill areas in cybersecurity and are integral components of a job related to building a secure digital infrastructure. The most common occupations that integrate these skills include *Software Developer, Cybersecurity Engineer, Systems Engineers, and Cloud Architect*



Reference

PATHWAYS TO CYBER SUCCESS

SIGNIFICANT RETURNS ON INVESTMENT FOR APPRENTICESHIP PROGRAM EMPLOYERS

Highly skilled, highly productive, highly retainable

**BLENDED
APPROACH**



Traditional Pathways

Employer or self-sponsored education, certificates, certifications, OJT, and re-training / retainment scenarios



Apprenticeship Pathways

Partner networks across academia, technology firms, training entities, non-profits, and commercial or government employers





WHO'S WHO IN THE APPRENTICESHIP ECOSYSTEM?

Apprenticeship.gov

Apprenticeship is your proven solution for recruiting, training, and retaining world-class cybersecurity talent.

NICE Cybersecurity Apprenticeship Program Finder



A competitive edge in having a pool of passionate people on a path to improvement and success

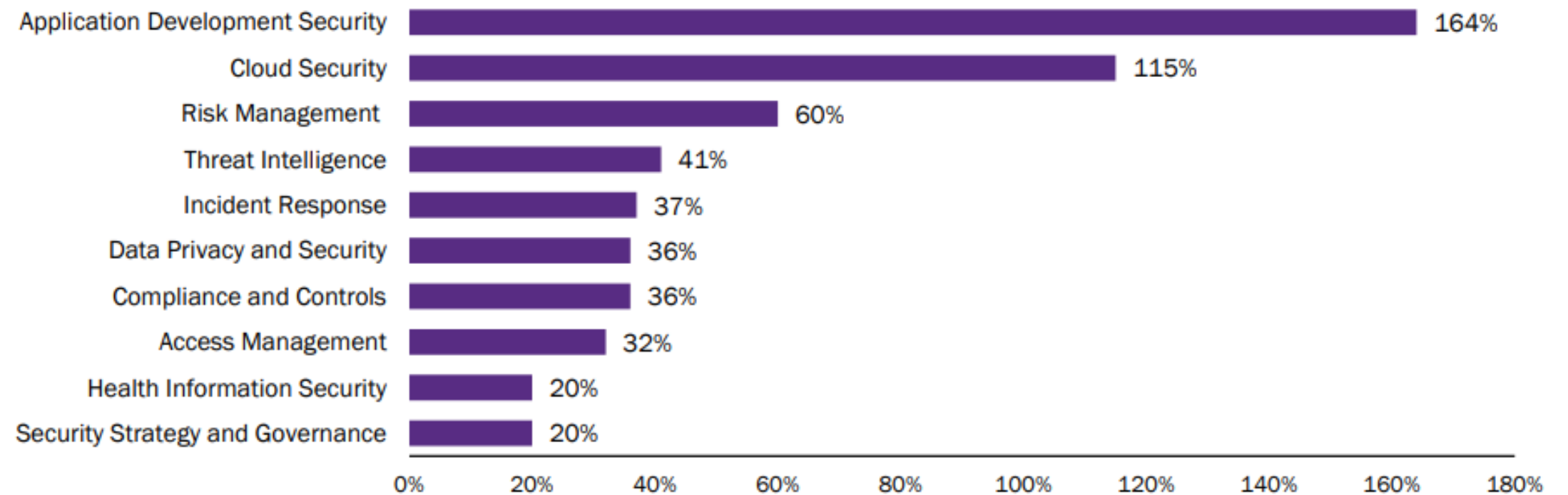


Opportunity

Cybersecurity Demand Signals

Reference

Five-Year Projected Growth in Cybersecurity Skill Areas²



Risk management and **threat intelligence** skills are also critical to securing digital infrastructure, and are projected to grow by 60% and 41% over the next five years respectively. These skills are important for roles such as *Cybersecurity Analyst*, *Security Intelligence Analyst*, and *Vulnerability Analyst*. These occupations often do not require advanced college degrees or extensive experience, which makes registered apprenticeships a great solution to train workers in these skills.



Role Models

These gains are important not only for current women cybersecurity professionals but also for future generations. The more women who succeed in cybersecurity, the more likely they are to attract other women into the field



Leaders by Nature

Compared to men, higher percentages of women cybersecurity professionals are reaching positions such as chief technology officer (7% of women vs. 2% of men), vice president of IT (9% vs. 5%), IT director (18% vs. 14%) and C-level/ executive (28% vs. 19%), based on findings in the 2018 (ISC)² Cybersecurity Workforce Study. The figures show that women are forging a path to management

Advancement of Women Within Cybersecurity

All of a sudden Cyber took on a whole new range...

"All of a sudden, cyber took on a whole new range. Now it's how you educate your children. It's how you ensure that you have proper health care," said the Defense Department's Undersecretary of Defense for Acquisition CISO Katie Arrington. "We're working from home on computers, and we need that capability to think in the holistic picture of what cyber means."



✓ What We Learned from COVID-19

The value of soft skills necessary for a successful career in the field, particularly in cyber leadership roles. These include problem-solving, critical thinking and negotiation skills, as well as the ability to build and maintain relationships.

What Action Can You Can Take Today Towards Achieving Your Cyber Career Goal Today?

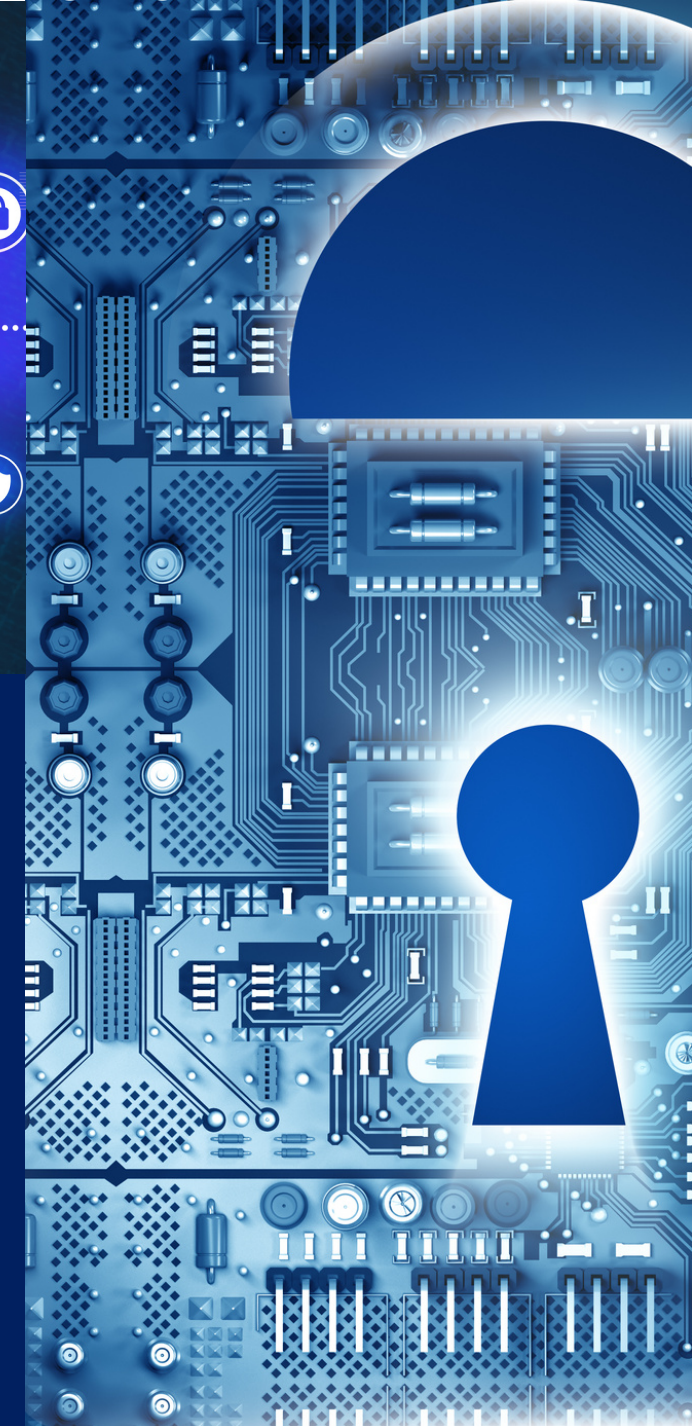
“You are [the] essential ingredient in our ongoing effort to reduce Security Risk

-- *Kirsten Manthorne*



Which Pathway is
for YOU?

Opportunity is knocking, which door
will you open?





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THANK YOU

Exploring access to high quality career pathways aligned to the needs of employers

