



Introduction



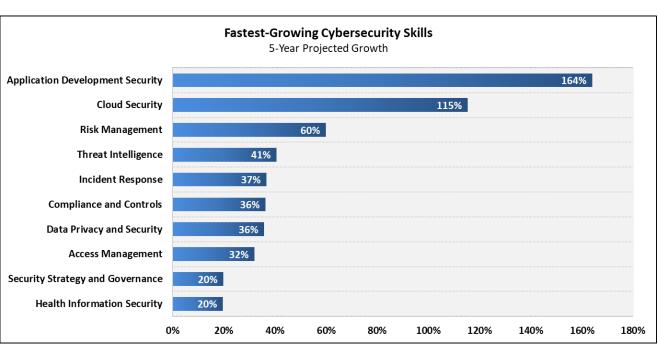
THE FUTURE IS DIGITAL...AND SCARY

Every day, more of our lives move online. Whether it's our appliances, our vehicles, or our election systems, we increasingly blur our digital and physical realities. This can bring dramatic increases in productivity and efficiency, but it also introduces dramatic new risks. Cybercriminals can turn any digital tool into a digital weapon, and there is no shortage of evidence that our digital information is under siege. This means we need well-trained cybersecurity professionals with the skills necessary to protect us against an ever-evolving set of cyber threats.

NEW THREATS REQUIRE NEW SKILLS

As cybercriminals constantly reinvent both themselves and the tools used to attack our digital infrastructure, cybersecurity workers must also reinvent their skillsets to keep pace.

But this is easier said than done: It requires workers and their employers to anticipate and prepare today for the skill needs of tomorrow.



To help organizations, training providers, and individuals pinpoint the skills needed to prepare for the future of cybersecurity, Burning Glass analyzed its database of over 1 billion historical job records and projected the five-year growth rates for skills across the cybersecurity landscape. The following report shows the cybersecurity skill areas with the highest projected growth and can be used to inform targeted skill development for individuals and teams concerned with protecting the future of our digital world.

¹ Burning Glass has made previous findings from this research available in a series of reports, and publishes cybersecurity insights in real-time on the website Cyberseek.org

Key Findings



The fastest-growing skill areas are associated with building secure digital infrastructure from the ground up. Application Development Security and Cloud Security are far and away the fastest-growing skill areas in cybersecurity, with projected 5-year growth of 164% and 115%, respectively. This underscores the shift from retroactive security strategies to proactive security strategies.

High-growth skills come with high salaries. The fastest-growing cybersecurity skill areas come with significant salary premiums for workers proficient in these skills. On average, these skills come with salary premiums of up to \$15,000 or higher. This means workers have a strong financial incentive to build these skills, while employers have a strong incentive to train existing workers in these emerging skillsets.

Fast-growing cybersecurity skills are not just for IT professionals. While many of the fastest-growing cybersecurity skills are technical in nature, some are in high-demand outside of traditional cybersecurity or IT roles. One of the largest roles requiring Data Privacy and Security skills, for example, is Attorney, and most of the top jobs requesting health information security skills range from cybersecurity engineers to health care administrators and even insurance sales agents. This creates hybrid roles that must blend cybersecurity skills within their existing responsibilities.

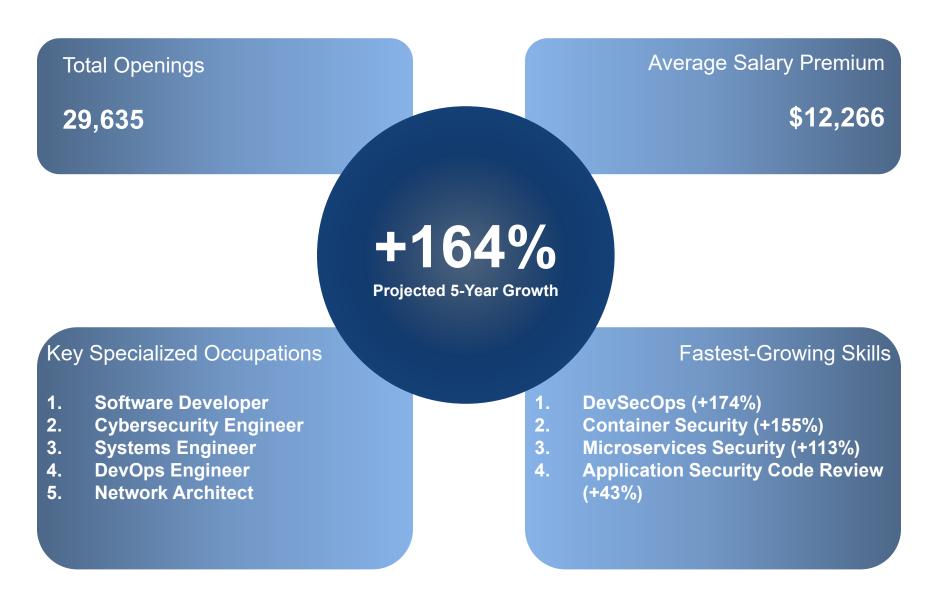
Each fast-growing skill area has specialty skills growing even faster. Within each skill area, there are subspecialties that are projected to grow even faster than the skill area overall. DevSecOps, for example, is within the broader Application Development Security skill area and is projected to grow faster than any other subspecialty, at 174% over the next five years. Every skill area has at least one sub-specialty projected to grow 50% or more over the next five years, demonstrating the rapid evolution in all corners of the cybersecurity landscape.



Top 10 Fastest-Growing Cybersecurity Skills for 2021

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Application Development Security



Cloud Security





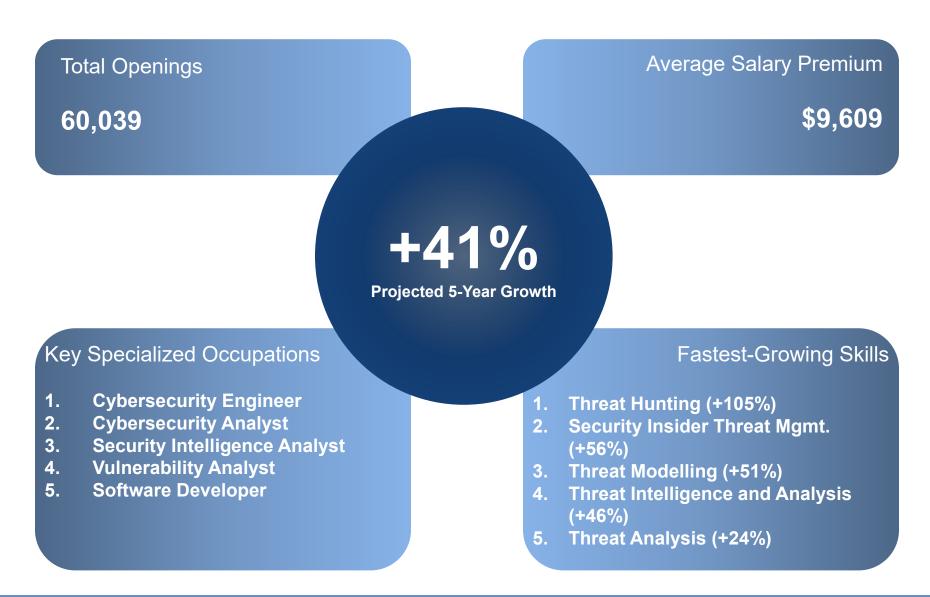
Risk Management





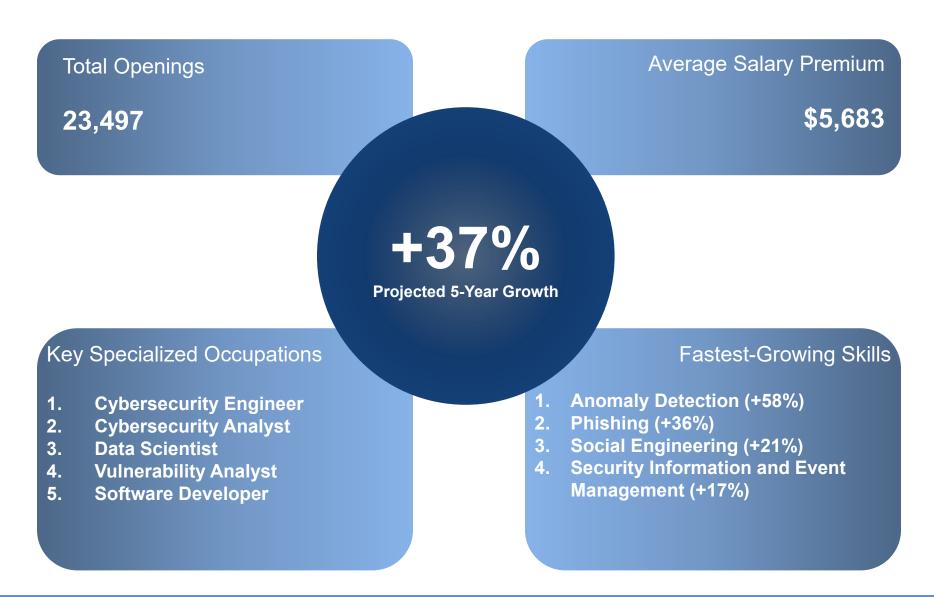
Threat Intelligence





Incident Response





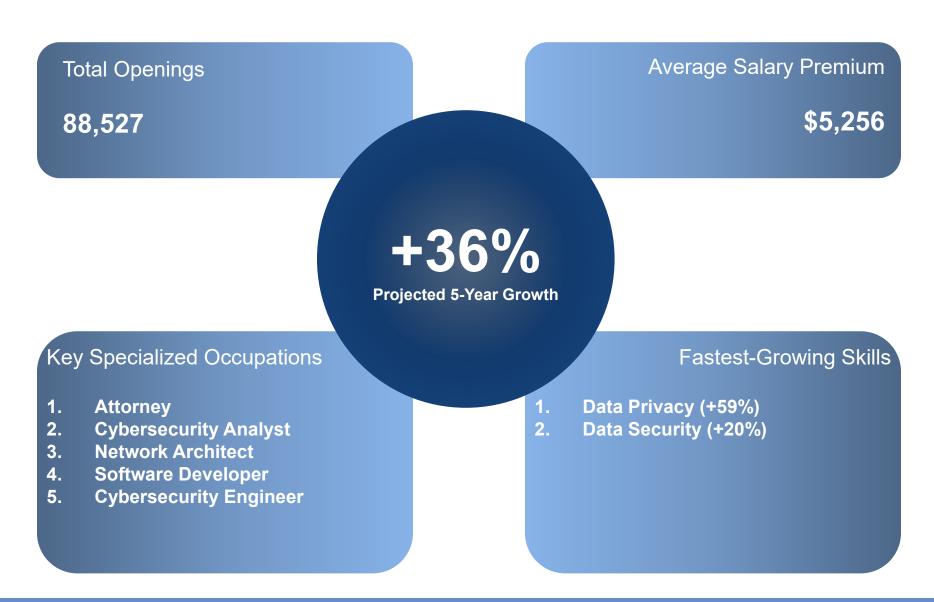
Compliance and Controls





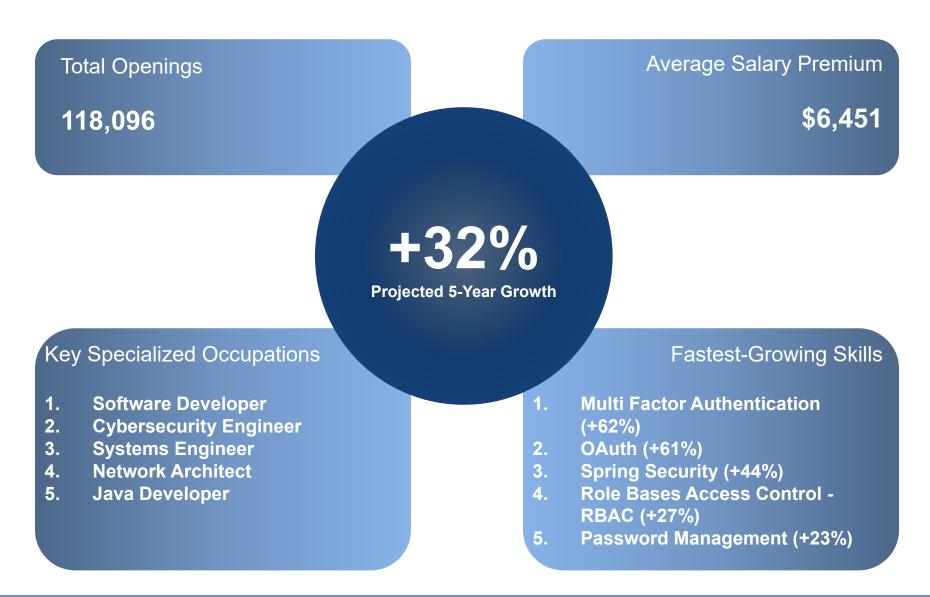
Data Privacy and Security





Access Management





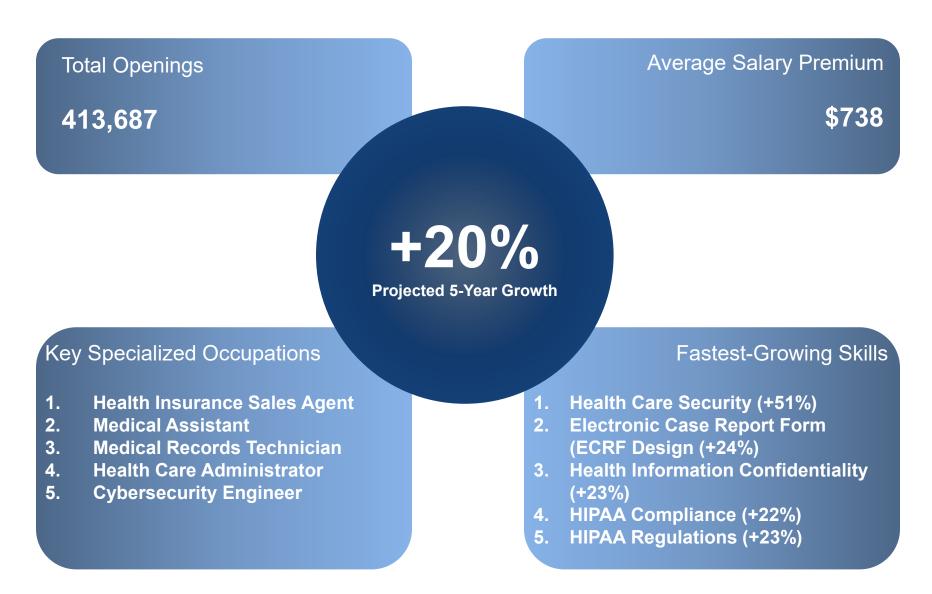
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Security Strategy and Governance



Health Information Security





METHODOLOGY



	First, Burning Glass mined its database of over 1 billion historical job records and over 17,000 unique skills to identify all skills related to the cybersecurity landscape.
	Next, Burning Glass assessed the projected growth of each of these skills by leveraging its proprietary projections of workforce demand growth for individual skills. These projections are informed by historical deman growth in online job postings, growth in prevalence among professional discussion groups, and growth in related web-based data sources. Burning Glass's skill projection model is over 90% accurate when compared with historical growth data.
	Burning Glass grouped all individual specialty skills with projected 5-year growth rates of 15% or higher into related skill areas. For example, Cloud Security Architecture and Public Cloud Security were both grouped into the "Cloud Security" skill area. Vendor-specific skills were removed from the analysis.
	Finally, Burning Glass compared the weighted average of the projected growth rates for these skill areas to identify the fastest-growing skill areas across the cybersecurity landscape. Burning Glass also assessed the average salary premia, total job openings, key occupations, and fastest-growing sub-specialty skills within each of these skill areas.



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