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(ISC)² Cybersecurity Workforce Study 2021

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(ISC)² Hellenic Chapter, Board Member

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- (ISC)² = International Information Systems Security Certification Consortium, established in 1989
 - Non-profit consortium of information security industry leaders
 - Supports security professionals throughout their careers
 - Global Standard for information security: (ISC)² CBK®
 - Over 160,000 certified professionals; over 170 countries
 - 270 members in Greece, established in 2015



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A diverse group of six professionals (three men and three women) are standing in a modern office environment. They are all smiling and looking towards the camera. The man in the center-left is holding a laptop, and the woman in the center-right is holding a document. The background shows large windows and office furniture.

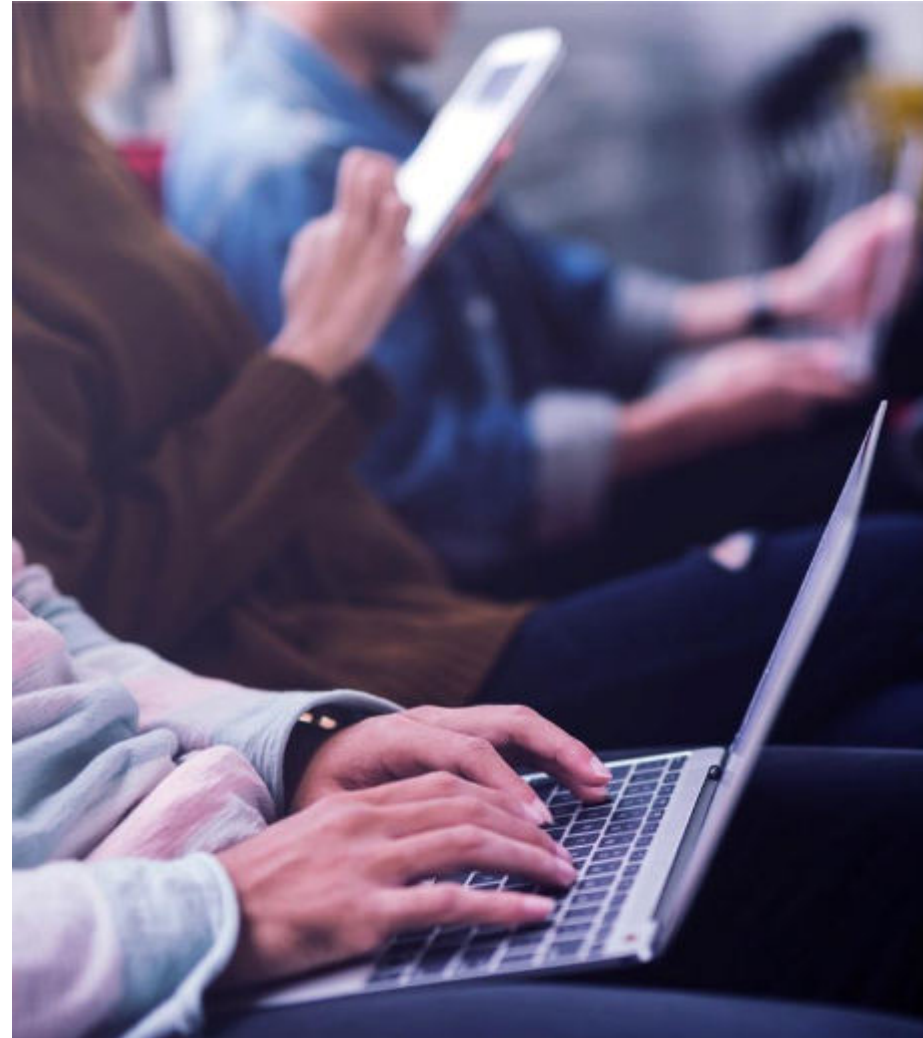
EDUCATE & CERTIFY
the world's security
professionals

Professional Development Institute

Self-paced online learning

- Immersive, Express and Lab courses
- Interactive, engaging and timely
- Modular content combined with interactive activities
- Written content, videos, interactive labs, case studies, assessments and more

www.isc2.org/development





High growth – Number of professionals

	2019	2020	2021	%2020-2021
Germany	133.000	175.159	464.782	↑ 165%
Singapore	43.000	57.765	92.744	↑ 61%
Europe	543.000	830.187	1.086.146	↑ 31%
United States	804.700	879.157	1.142.462	↑ 30%
GLOBAL	2.802.700	3.484.971	4.192.255	↑ 20%



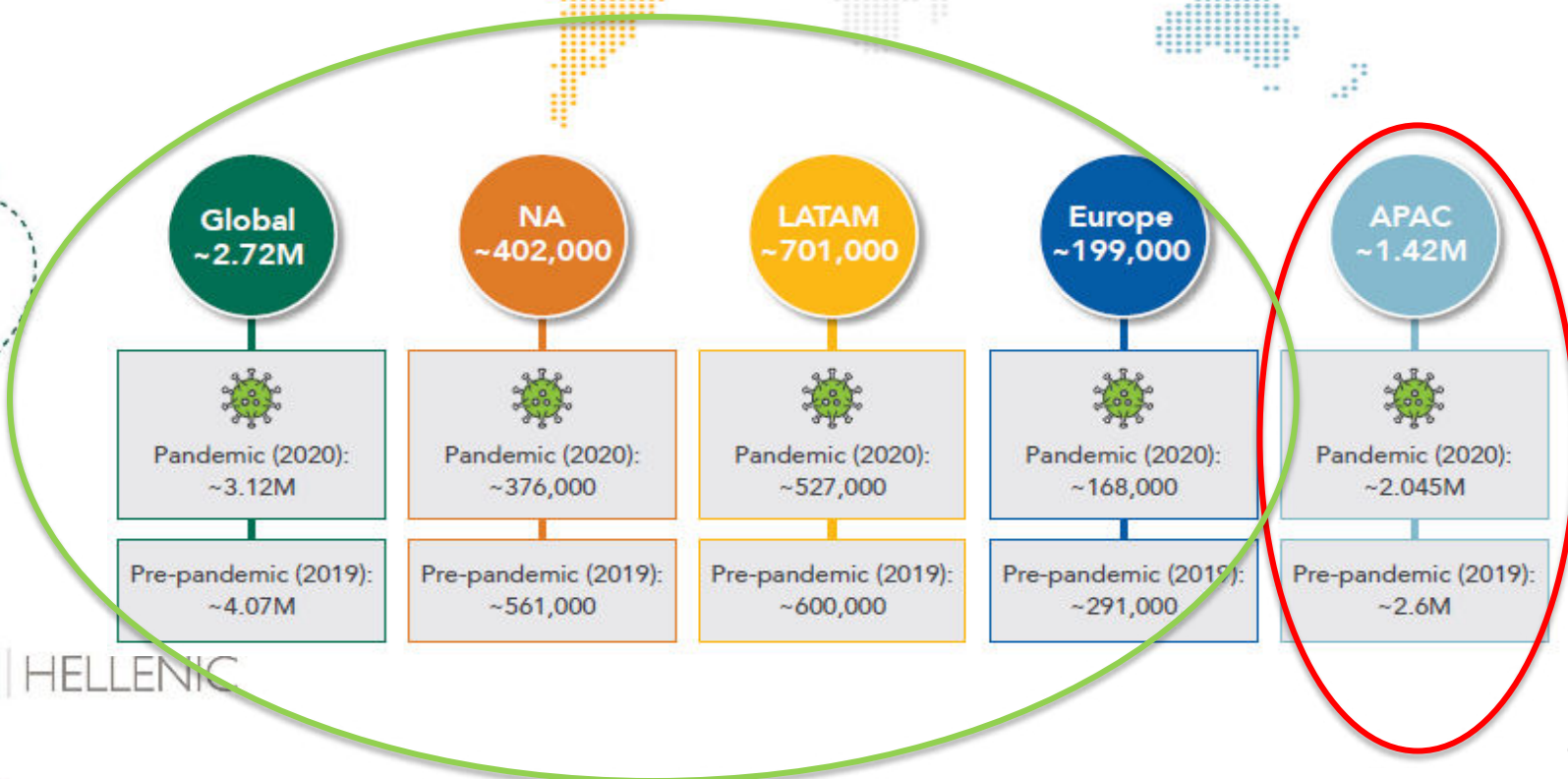
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2.72 MILLION Workforce Gap



Source: (ISC)² Cybersecurity Workforce Study, 2021

Gap in professionals 2019-2021



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The Study

...survey data from 4.753 cybersecurity professionals throughout

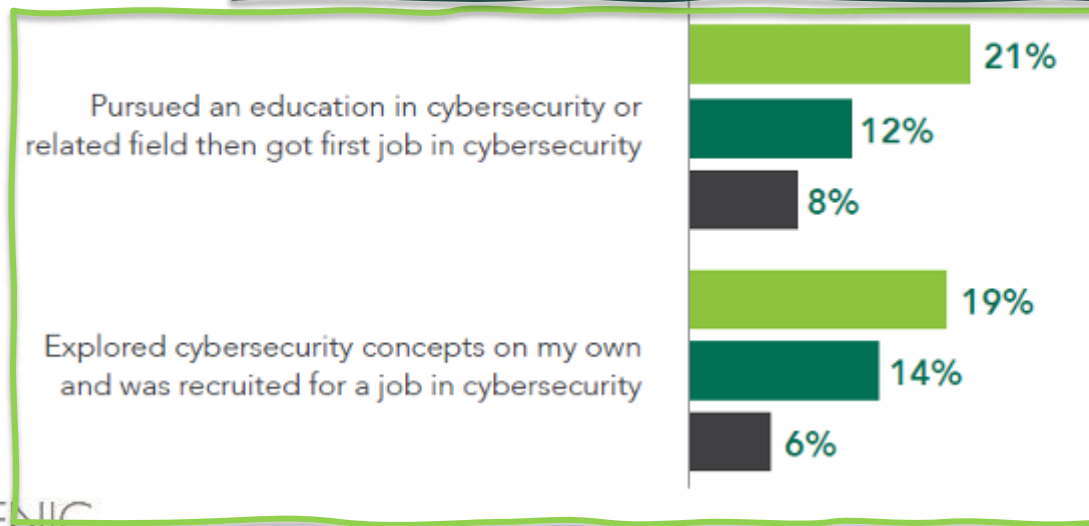
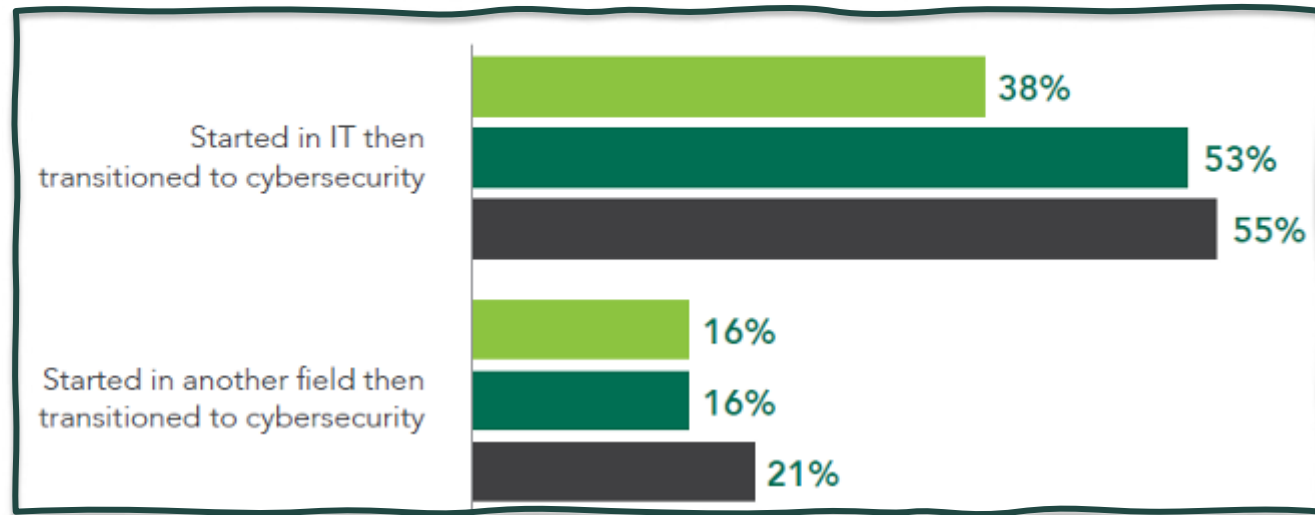
- North America,
- Europe,
- Latin America (LATAM) and
- Asia-Pacific (APAC)



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Pathway to Cybersecurity

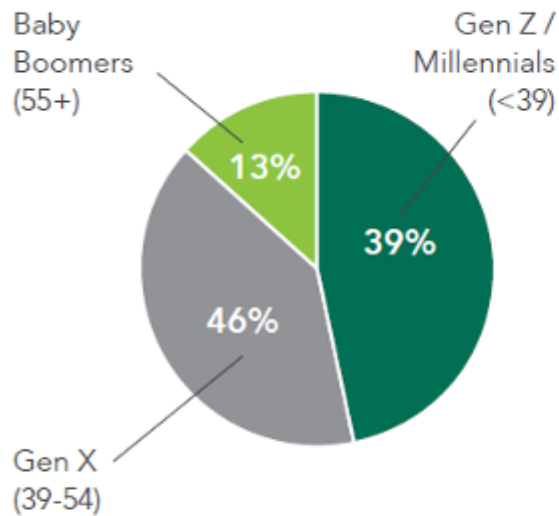
■ Gen Z / Millennials (<39) ■ Gen X (39-54) ■ Baby Boomers (55+)



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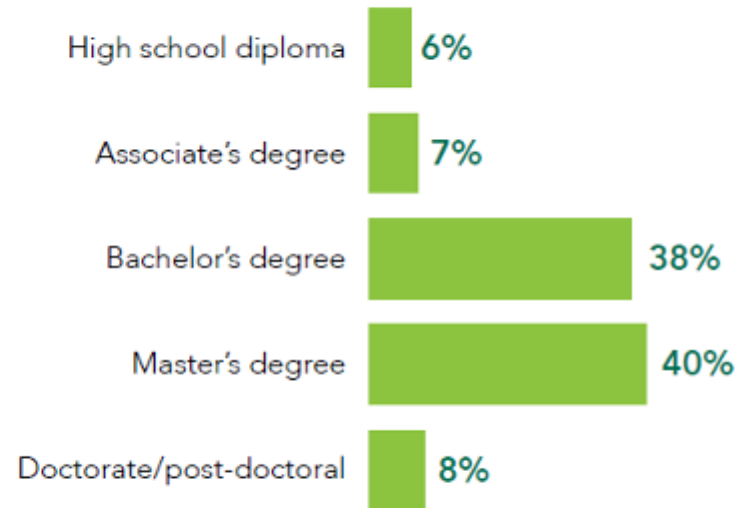
Cybersecurity Workforce Snapshot

AGE



EDUCATION

Highest Level of Education



Top Degrees

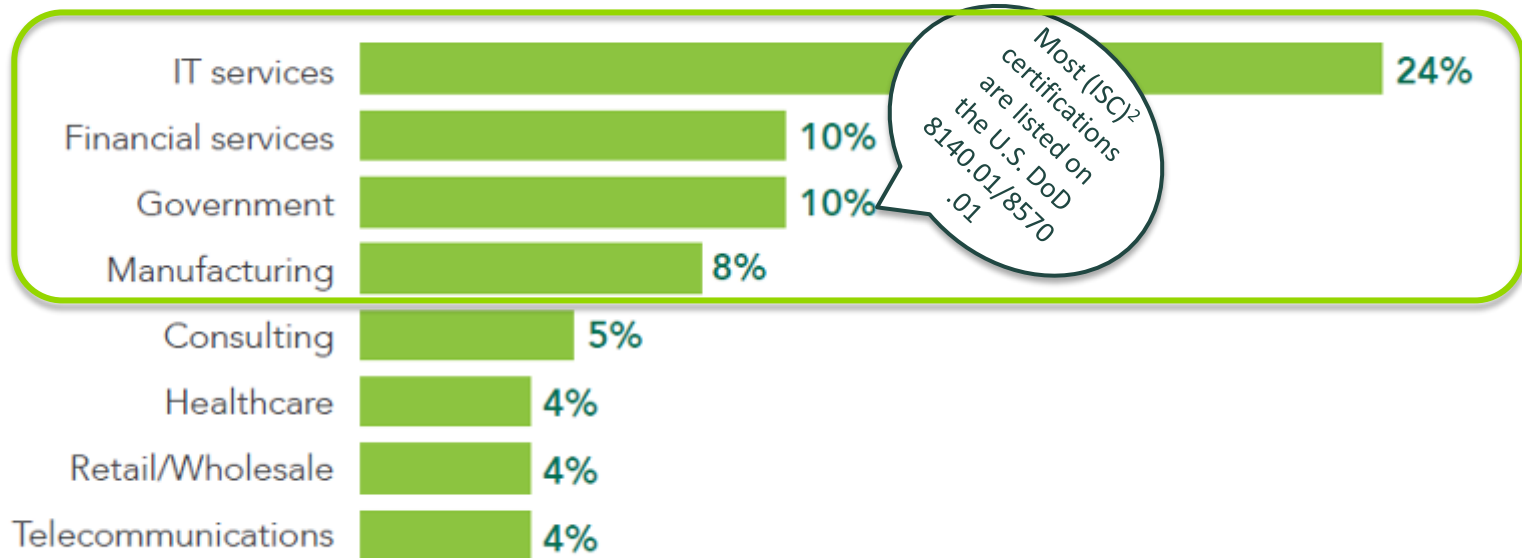
Computer and information sciences: **46%**
Engineering: **18%**
Business: **8%**



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Cybersecurity Workforce Snapshot

Industry Distribution



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Qualifications in need

equally important as cybersecurity certifications (32%)



38%

Strong problem-solving abilities



32%

Curiosity and eagerness to learn



32%

Strong communication skills



23%

Strong strategic thinking skills



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Professional Development Areas Pursued

CCSP coming soon to a theater near you



40%

Cloud computing security



26%

Risk assessment, analysis and management



25%

Artificial intelligence / machine learning



24%

Governance, risk management and compliance (GRC)



22%

Threat intelligence analysis



22%

DevSecOps



22%

Security engineering



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Some takeaways

- » Understand Your Gap; which roles do you need to fill?
- » Rethink How You Hire; expand your candidates' pool by evaluating prospects for non-technical qualifications
- » Put People Before Technology; organizations cannot spend their way out of the gap. They need to invest in people and build teams for long-term success
- » Embrace Remote Work; cybersecurity professionals want to continue working remotely. Also, remote work casts a much wider recruiting net.



Thank you !

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