

CYBERSECURITY BY THE NUMBERS

A special report from the University of San Diego's online cybersecurity master's degree program.

THE GLOBAL CYBERCRIME EPIDEMIC HAS TRIGGERED A CYBERSECURITY CALL TO ARMS.

Trillions of dollars are at stake as organizations across all industries seek millions of skilled cybersecurity professionals to fight the good fight.

THE CYBERCRIME CRISIS

Along with extraordinary progress, the worldwide adoption of digital technology has brought far greater vulnerability to high-tech attacks.



\$6 trillion

Estimated **annual cost of global cybercrime** by 2021

60 million

Number of Americans affected by **identity theft** over the last several years

39%

Percentage of senior executives surveyed by PwC who are confident they have **adequate safeguards** in place to deal with cyber threats



\$3.92 million

Average **cost of a data breach** in 2019 (highest cost by country: U.S. at \$8.19 million; highest cost by industry: health care at \$6.45 million)

“ There are only two types of companies: Those that have been hacked and those that will be hacked. ”

Robert S. Mueller III
Former FBI director

CYBERSECURITY TALENT SHORTAGE

Amid the ongoing explosion of data breaches and cybercrime, demand for cybersecurity professionals with the right experience and education far outpaces the supply.

35 million

Estimated number of **unfilled cybersecurity positions** worldwide by 2021

59%

Percentage of survey respondents who say their companies are at **moderate or extreme risk of cybersecurity attacks** due to the severe cybersecurity talent shortage

1.7 million

Results on Google for search term **“cyber security jobs \$100,000”**

46%

Percentage of **cybersecurity professionals contacted weekly by recruiters**, regardless of whether they are actively looking for a job.

“ Unfortunately the pipeline of security talent isn't where it needs to be to help curb the cybercrime epidemic. ”

Robert Herjavec
Founder and CEO of Herjavec Group and a panelist on ABC's "Shark Tank"

CYBERSECURITY CAREER OUTLOOK

The talent shortage has created a "seller's market" for skilled cybersecurity professionals, with countless organizations across all industries paying six-figure salaries for top talent.

\$500,000

Earning potential for top cybersecurity executives and elite bug bounty hunters.

0%

Unemployment rate across the cybersecurity jobs landscape.



\$130,000

Average salary for a **cybersecurity architect**.

79%

Percentage of ISSA/ESG survey respondents who agree or strongly agree that they are **happy as a cybersecurity professional**.

“ Every IT position is also a cybersecurity position now. ”

Steve Morgan
Founder and CEO of Cybersecurity Ventures and Cybercrime Magazine

EDUCATION: A COMPETITIVE EDGE

Experience is considered essential in cybersecurity; earning a master's degree expands one's career opportunities and gives the degree holder a valuable competitive edge in the job market.



\$102,231

Average annual salary with a cybersecurity master's degree, according to ZipRecruiter

15%

Percentage of **cybersecurity consultant positions** that require a graduate degree



20

Number of months it takes to earn a master's degree through the **University of San Diego**

“ Part of our role in helping to train current and future generations of cybersecurity professionals is to conduct research and collaborate with key industry stakeholders to ensure that our curriculum is cutting edge and that our training aligns with the workplace needs of employers. ”

Dr. Michelle Moore
Academic director, University of San Diego's Master of Science in Cyber Security Operations

SOURCES

Monster.com
ZipRecruiter.com
Lifelock.com
CSOnline.com
Cyberseek.org

Trimpwire.com
IBM.com
Cybersecurity Ventures
HerjavecGroup.com
PricewaterhouseCoopers

International Risk Management Institute
ISSA.org
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KnowB4.com
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