



Security Engineer

CAREER OUTLOOK ²

The increasing number of connected devices means an increase in cybercrime. There will be many job openings for **security engineers** in the future!

Projected job growth:
5% (2020–2030)

Average salary range:
\$116,780/year

Cybercrime

Any crime that involves a computer and a network or the internet.

Hacking

Trying to get into a network, computer, or device without permission.

With our world's dependency on technology and computers, certain disruptions, such as natural disasters, **cybercrimes**, or **hacking** pose a real threat to internet security. **Security engineers** design computer systems that are ready for when these disruptions happen.

WHAT IS A SECURITY ENGINEER? ¹

Security engineers are complex problem solvers who predict and solve problems *before* they happen so they can design systems to prevent the problems. They also design the security rules and procedures that companies follow. Security engineers teach employees how to follow the rules so the company's business stays safe and efficient.

IS SECURITY ENGINEER A GOOD CAREER FOR ME?

Security engineers are:

- curious problem solvers
- confident team players
- good at following directions and procedures
- excited about computing
- organized

¹ <https://www.careerexplorer.com/careers/security-engineer/>

² <https://www.bls.gov/ooh/computer-and-information-technology/computer-network-architects.htm#tab-6>



Security Engineer

AM I...

- Curious?
- Confident?
- Organized?

DO I...

- Like to solve problems?
- Work well in teams?
- Like to follow procedures step by step?
- Like computers?

HOW DO I BECOME A SECURITY ENGINEER?

You will need to:

- take classes in math, science, and technology.
- develop your communication and teamwork skills.
- study computer science and computer programming in college.
- get job experience working with computers and networks.