



CAREER PROFILE

Security Engineer

Cybercrime:

A crime that involves a computer, a network or the internet.

Malicious Hacking:

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

Our world is using computers for more things every day, but sometimes there are events—natural disasters, power outages, **cybercrimes** or **malicious hacking**—that cause people not to be able to use technology. **Security Engineers** design computer systems that are ready for when these disruptions happen.

WHAT IS A SECURITY ENGINEER?

Security Engineers 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 productive.

CAREER OUTLOOK

- More and more connected devices mean an increase in cybercrime.
- There will be many job openings for Security Engineers into the future!
- **Projected job growth:** 5% (2018–2028)
- **Average salary range:** \$59,000–\$138,000/year



CAREER PROFILE

Security Engineer

AM I ...

- Curious?
- Confident?
- Organized?

DO I ...

- Like to solve problems and puzzles?
- Work well in teams?
- Like computers?
- Like to continuously learn?

IS THIS A GOOD CAREER FOR ME?

Security Engineers are:

- Curious problem solvers.
- Confident team players.
- Able to quickly make connections.
- Excited about computing.
- Organized.

HOW DO I BECOME A SECURITY ENGINEER?

You will need to:

- Take classes in math, science, and technology.
- Study multiple areas of security to develop a well-rounded perspective of the industry.
- Learn to code.
- Practice building a website.
- Develop your communication and teamwork skills.
- Understand how computers, networks and software work.
- Get job experience working with computers and networks.