



# STEM Careers

## Ethical Hacker

**Job Description:** Evaluate network system security by conducting simulated internal and external cyberattacks by using adversary tools and techniques. Attempt to breach and exploit critical systems and gain access to sensitive information to assess system security.

### What does an Ethical Hacker do?

- Conduct network and security system audits to evaluate risk and develop prevention strategies
- Test the security of systems by attempting to gain access to networks, web-based applications, or computers
- Investigate security incidents by using computer forensics, network forensics, root cause analysis, or malware analysis
- Develop security penetration testing processes, such as wireless, data networks, and telecommunication security tests
- Develop and execute tests that simulate the techniques of known cyber threat actors
- Design security solutions to address known device vulnerabilities

### Your Interests:

- Do you like problem solving?
- Are you interested in working with computer software and hardware?
- Are you interested in protecting private information for consumers and companies?

### Outlook: BRIGHT

Average Salary - \$45.80 hourly, \$95,270 annually

Projected Job Openings - 37,500 in the next 10 years

### Education/Program of Study:

- Most entry level positions require a bachelor's degree.
- Degree paths include computer engineering and other related fields.

Sources:

<https://www.onetonline.org/link/summary/15-1299.04>