CRYPTOGRAPHER
CRYPTOGRAPHER

Makes and breaks codes to protect digital information by developing algorithms, ciphers, and other encryption methods

DEGREE REQUIRED
Master’s degree focusing on mathematics or computer science is encouraged

MEDIAN SALARY
$100,000+

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CYBER CRIME INVESTIGATOR
CYBER CRIME INVESTIGATOR

Collects data to investigate crimes that take place on networks, devices, and in cyberspace

DEGREE NOT REQUIRED

However, degrees, certifications, and experience are encouraged

MEDIAN SALARY

$67,000+
Serves as a first responder to security incidents in order to limit damage and prevent future incidents

DEGREE NOT REQUIRED
However, a bachelor’s degree in cybersecurity or computer science is encouraged

MEDIAN SALARY
$80,000+
CYBER FORENSICS EXPERT
Analyses data evidence from computers, networks, and other storage devices to investigate cyber crime

**Degree Required**
Bachelor’s degree in cybersecurity or computer science at minimum

**Median Salary**
$70,000+
"Deserves it! I daresay he does. Many that live deserve death. And some that die deserve life. Can you give it to them? Then do not be too eager to deal out death in judgement. For even the very wise cannot see all ends. I have not much hope that..."
CYBER LEGAL ADVISOR

Provides informed legal advice about the internet or internet-related technologies

DEGREE REQUIRED
Juris Doctorate degree is required.

MEDIAN SALARY
$92,000+
CYBERSECURITY ENGINEER
CYBERSECURITY ENGINEER

Develops computer systems that can withstand cyber attacks and incidents, such as infrastructure failures or natural disasters

DEGREE REQUIRED
Bachelor’s degree in cybersecurity or computer science

MEDIAN SALARY
$90,000+
MULTI-DISCIPLINED LANGUAGE ANALYST
MULTI-DISCIPLINED
LANGUAGE ANALYST

Applies language and cultural expertise to voice, sound, and graphic media to identify cyber threats

DEGREE REQUIRED
Master’s degree focusing on mathematics or computer science is encouraged

MEDIAN SALARY
$55,000
IT PROJECT MANAGER

Manages complex technical projects, ensuring they are completed within time, budget, and specification constraints

DEGREE REQUIRED
Bachelor’s degree in systems management, strategic planning, or engineering & technology

MEDIAN SALARY
$97,000+
INFORMATION SYSTEMS SECURITY MANAGER

Oversees personnel, security audits, and threat assessments to comply with all security policies and procedures

DEGREE REQUIRED
Bachelor’s degree or higher in cybersecurity or computer science

MEDIAN SALARY
$110,000+
public class Selection

public static void sort(Comparable[] a)
{
    int n = a.length;
    for (int i = 0; i < n; i++)
    {
        int min = i;
        for (int j = i+1; j < n; j++)
            if (less(a[j], a[min])) min = j;
        exchange(a, i, min);
    }
}
SOFTWARE DEVELOPER

Designs, tests, and creates software

DEGREE REQUIRED
Master’s degree focusing on mathematics or computer science is encouraged

MEDIAN SALARY
$70,000+
Provides advice and assistance to individuals or businesses with technical, hardware, and software system projects or problems

DEGREE NOT REQUIRED
Certifications and experience encouraged

MEDIAN SALARY
$50,000
VULNERABILITY ASSESSMENT ANALYST
VULNERABILITY ASSESSMENT ANALYST

Searches systems for weaknesses and presents findings in a vulnerability assessment

DEGREE NOT REQUIRED
Real-world experience is valued, though formal education is a plus

MEDIAN SALARY
$75,000
CYBER OPERATOR
CYBER OPERATOR

Navigates networks to locate and track specified targets

DEGREE REQUIRED
Bachelor’s degree in computer science and/or certifications recommended

MEDIAN SALARY
$100,000+

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SYSTEM ADMINISTRATOR

Manages networks, accounts, and access to systems and equipment to maintain organizational security

DEGREE NOT REQUIRED
However, bachelor’s degree in IT/network administration is recommended

MEDIAN SALARY
$62,000+
SYSTEM TESTING & EVALUATION SPECIALIST
SYSTEM TESTING & EVALUATION SPECIALIST

Tests hardware, software, and networks for compliance with specifications and requirements

DEGREE NOT REQUIRED
However, certifications are recommended

MEDIAN SALARY
$47,000+
INFORMATION ASSURANCE ANALYST
INFORMATION ASSURANCE ANALYST

Safeguards various types of files and stored data and performs regular security checks

DEGREE REQUIRED
Bachelor’s in Cybersecurity or Computer Science

MEDIAN SALARY
$100,000
PEN TESTER

Identifies and attempts to exploit weaknesses in computer networks and systems

DEGREE REQUIRED
Bachelor’s in Cybersecurity or Computer Science

MEDIAN SALARY
$85,000+
KNOWLEDGE MANAGER
Identifies and protects intellectual assets like employee expertise and organizational knowledge

DEGREE NOT REQUIRED
However, Bachelor’s Degree is recommended

MEDIAN SALARY
$75,000+
THREAT & WARNING ANALYST
THREAT & WARNING ANALYST

Uses gathered intelligence to counter incoming threats and prevent potential threats

DEGREE REQUIRED
Bachelor’s in Cybersecurity or Computer Science

MEDIAN SALARY
$119,000+
Develops detailed plans of cyber operations and leads teams in executing the plans

DEGREE NOT REQUIRED
However, Bachelor’s Degree is recommended

MEDIAN SALARY
$83,000+
Chief Information Security Officer

Develop and implement information security programs, including procedures and policies designed to protect an organization from internal and external threats

Degree Required
Master’s Degree Required, additional certifications are strongly encouraged

Median Salary
$200,000+
CLOUD ARCHITECT
Oversee construction of cloud infrastructures and other applications. Create plans for implementing new computer network technologies

DEGREE NOT REQUIRED
Certification Required
AWS Cloud Architect or Google Certified Professional Cloud Architect

MEDIAN SALARY
$137,000+
FACILITY SECURITY OFFICER

Manage and enforce facility DoD security programs & requirements, including multiple classified contracts

DEGREE REQUIRED
BA/BS Required as well as additional certifications & security clearance

MEDIAN SALARY
$75,000+
SUPPLY CHAIN RISK MANAGER
SUPPLY CHAIN RISK MANAGER

Analyze organization’s supply chain, uncover inefficiencies, and perform hardware and software reverse engineering

DEGREE REQUIRED
Bachelor’s Degree Required

MEDIAN SALARY
$85,000+
Inspires students to find their place in cybersecurity while training the next generation of cybersecurity professionals.

DEGREE REQUIRED
Bachelor’s Degree Required

Access Cybersecurity Curriculum

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