# CRYPTOGRAPHER

# CRYPTOGRAPHER

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

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## 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**

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## DEGREE NOT REQUIRED
However, degrees, certifications, and experience are encouraged

## MEDIAN SALARY
$67,000+

# CYBER DEFENSE
# INCIDENT RESPONDER

# CYBER DEFENSE
## INCIDENT RESPONDER

**Serves as a first responder to security incidents in order to limit damage and prevent future incidents**

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

## MEDIAN SALARY
$80,000+

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# CYBER FORENSICS
# EXPERT

# EXPERT

**Analyzes data evidence from computers, networks, and other storage devices to investigate cyber crime**

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## DEGREE REQUIRED
Bachelor's degree in cybersecurity or computer science at minimum

## MEDIAN SALARY
$70,000+

CYBERSECURITY & INFRASTRUCTURE SECURITY AGENCY

CISA

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# CYBER LEGAL
# ADVISOR

# CYBER LEGAL ADVISOR

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

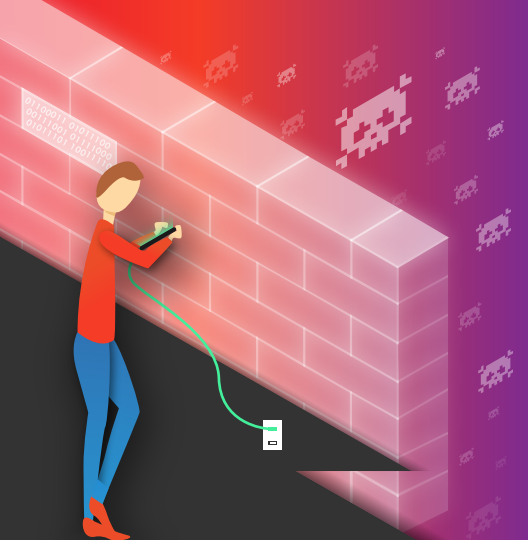## DEGREE REQUIRED
Juris Doctorate degree is required.

## MEDIAN SALARY
$92,000+

CISA
CYBERSECURITY & INFRASTRUCTURE SECURITY AGENCY

CYBER.ORG
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# CYBERSECURITY
# ENGINEER

## CYBERSECURITY
# ENGINEER

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

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## DEGREE REQUIRED
Bachelor's degree in cybersecurity or computer science

## MEDIAN SALARY
$90,000+

MULTI-DISCIPLINED
LANGUAGE ANALYST

# LANGUAGE ANALYST

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

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## DEGREE REQUIRED

Master's degree focusing on mathematics or computer science is encouraged

## MEDIAN SALARY

$55,000

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# IT PROJECT
## M A N A G E R

# IT PROJECT MANAGER

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

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## DEGREE REQUIRED

Bachelor's degree in systems management, strategic planning, or engineering & technology

## MEDIAN SALARY

$97,000+

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# INFORMATION SYSTEMS
# SECURITY MANAGER

# INFORMATION SYSTEMS SECURITY MANAGER

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

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## DEGREE REQUIRED
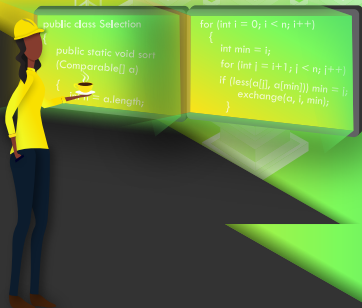Bachelor's degree or higher in cybersecurity or computer science

## MEDIAN SALARY
$110,000+



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public class Selection

public static void sort
(Comparable[] a)

= 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

# SOFTWARE DEVELOPER

**Designs, tests, and creates software**

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## DEGREE REQUIRED
Master's degree focusing on mathematics or computer science is encouraged
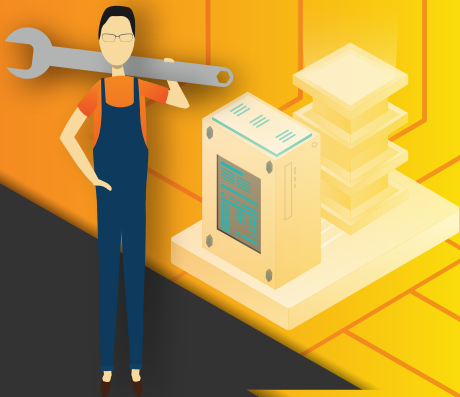
## MEDIAN SALARY
$70,000+

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# TECHNICAL SUPPORT SPECIALIST

# TECHNICAL SUPPORT SPECIALIST

**Provides advice and assistance to individuals or businesses with technical, hardware, and software system projects or problems**

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## DEGREE NOT REQUIRED
Certifications and experience encouraged

## MEDIAN SALARY
$50,000

CYBERSECURITY & INFRASTRUCTURE SECURITY AGENCY
CISA

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# VULNERABILITY ASSESSMENT ANALYST

# VULNERABILITY ASSESSMENT ANALYST

**Searches systems for weaknesses and presents findings in a vulnerability assessment**

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## DEGREE NOT REQUIRED

Real-world experience is valued, though formal education is a plus

## MEDIAN SALARY
$75,000

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# CYBER
## OPERATOR

# CYBER
## OPERATOR

**Navigates networks to locate and track specified targets**

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

### MEDIAN SALARY
$100,000+

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CISA
CYBERSECURITY & INFRASTRUCTURE SECURITY AGENCY

# SYSTEM
## ADMINISTRATOR

# SYSTEM
## ADMINISTRATOR

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

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

## MEDIAN SALARY
$62,000+

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# SYSTEM TESTING &
# EVALUATION
# SPECIALIST

# SYSTEM TESTING &
# EVALUATION
# S P E C I A L I S T

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

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## DEGREE NOT REQUIRED
However, certifications are recommended

## MEDIAN SALARY
$47,000+

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# INFORMATION ASSURANCE ANALYST

# INFORMATION
# ASSURANCE
# ANALYST

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

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## DEGREE REQUIRED
Bachelor's in Cybersecurity or Computer Science

## MEDIAN SALARY
$100,000

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PEN

TESTER

# P E N
## T E S T E R

**Identifies and attempts to exploit weaknesses in computer networks and systems**

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## DEGREE REQUIRED
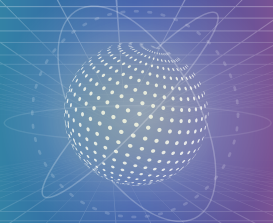Bachelor's in Cybersecurity or Computer Science

## MEDIAN SALARY
$85,000+

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# KNOWLEDGE MANAGER

# KNOWLEDGE
# MANAGER

**Identifies and protects intellectual assets like employee expertise and organizational knowledge**

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## DEGREE NOT REQUIRED
However, Bachelor's Degree is recommended

## MEDIAN SALARY
$75,000+



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# THREAT &
# W A R N I N G
# 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+

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# CYBER OPS PLANNER

# CYBER OPS PLANNER

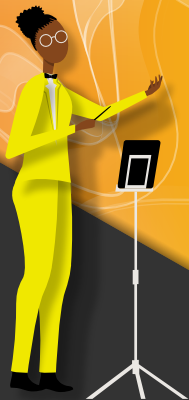**Develops detailed plans of cyber operations and leads teams in executing the plans**

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## DEGREE NOT REQUIRED

However, Bachelor's Degree is recommended

## MEDIAN SALARY

$83,000+

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# CHIEF INFORMATION SECURITY OFFICER

# CHIEF

## INFORMATION
## SECUIRTY
## 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+

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# CLOUD
## ARCHITECT

# CLOUD
# ARCHITECT

Oversee construction of cloud infrastructures and other applications. Create plans for implementing new computer network technologies

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

## MEDIAN SALARY
$137,000+

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# FACILITY
## SECURITY OFFICER

# F A C I L I T Y
## 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+

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# SUPPLY CHAIN
# RISK MANAGER

# SUPPLY CHAIN RISK MANAGER

Analyze organization's supply chain, uncover inefficiencies, and perform hardware and software reverse engineering
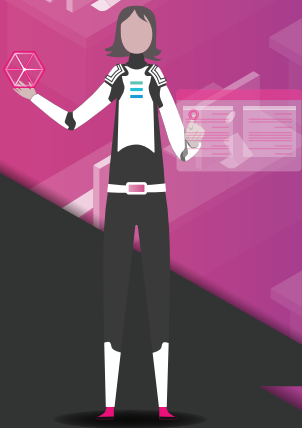
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## DEGREE REQUIRED
Bachelor's Degree Required

## MEDIAN SALARY
$85,000+

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# CYBER
## INSTRUCTOR

# CYBER
## INSTRUCTOR

Inspires students to find their place in cybersecurity while training the next generation of cybersecurity professionals.

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### DEGREE REQUIRED
Bachelor's Degree Required

Access Cybersecurity Curriculum



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