CRYPTOGRAPHER/CRYPTANALYST
AKA
ENCRYPTION EXPERT

DEGREE REQUIRED?
Yes
Master’s Degree
Focusing on Mathematics or Computer Science is Encouraged

MEDIAN SALARY
+$100,000

JOB GROWTH
21%

SOFT SKILLS
Intelligent, Analytical & Creative
Capable of Tackling Complex Mathematical Problems
Trustworthiness

COMMUN JOB DUTIES
- Protect important information from interception, copying, modification and/or deletion
- Evaluate, analyze and target weaknesses in cryptographic security systems and algorithms
- Design robust security systems to prevent vulnerabilities
- Develop statistical and mathematical models to analyze data and solve security problems
- Test computational models for reliability and accuracy
- Investigate, research and test new cryptology theories and applications
- Probe for weaknesses in communication lines (e.g. wireless network, secure telephone, cellphones, email, etc.)
- Ensure message transmission data (e.g. wireless network, secure telephone, cellphones, email, etc.) are not illegally accessed or altered in transit
- Decode cryptic messages and coding systems for military, political and/or law enforcement agencies

CAREER PROFILE:
CRYPTOGRAPHER/CRYPTANALYST
Focusing on Mathematics or Computer Science is Encouraged
FIND YOUR PATH TO CYBER

CYBER.ORG offers grant-funded cyber curricula, professional development, and career resources. Our goal is to empower educators and grow the cyber workforce of tomorrow.
DEGREE REQUIRED?

NO
Certification(s) encouraged but not essential
Experience can supplement

MEDIAN SALARY

+$67,000

JOB GROWTH

10%

SOFTWARE SKILLS

Curiosity & Persistence
Strong Communication
Information Use
Critical Thinking

COMMON JOB DUTIES

- Find and navigate the dark web
- Process crime scenes
- Conduct interviews of victims, witnesses, and/or suspects
- Examine recovered data for information
- Fuse computer network attack analyses with criminal and counterintelligence investigations and operations
- Determine whether a security incident is indicative of a violation of law that requires specific legal action
- Identify elements of proof of the crime
- Identify, collect, and seize documentary or physical evidence, to include digital media and logs associated with cyber intrusion incidents, investigations, and operations
- Provide criminal investigative support to trial counsel during the judicial process
- Prepare reports to document the investigation
FIND YOUR PATH TO

CYBER

CYBER.ORG offers grant-funded cyber curricula, professional development, and career resources. Our goal is to empower educators and grow the cyber workforce of tomorrow.

www.CYBER.org  info@CYBER.org  @cyberdotorg  @cyber_dot_org  @cyberdotorg  linkedin.com/company/cyberorg
DEGREE REQUIRED?

No

Bachelor’s Degree in Cybersecurity or Computer Science is a plus though

MEDIAN SALARY

+$80,000

JOB GROWTH

+20%

SOFTWARE SKILLS

Capable of Handling Stress
Flexible
Problem-Solving
Analytical
Good Communication

COMMON JOB DUTIES

▶ Actively monitor systems and networks for intrusions
▶ Identify security flaws and vulnerabilities
▶ Perform security audits, risk analysis, network forensics and penetration testing
▶ Perform malware analysis and reverse engineering
▶ Develop a procedural set of responses to security problems
▶ Establish protocols for communication within an organization and dealings with law enforcement during security incidents
▶ Create a program development plan that includes security gap assessments, policies, procedures, playbooks, training and tabletop testing
▶ Produce detailed incident reports and technical briefs for management, admins and end-users
▶ Liaison with other cyber threat analysis entities

CYBER.DEFENSE
INCIDENT
RESPONDER

for more info

CYBER.ORG
THE ACADEMIC INITIATIVE OF THE CYBER INNOVATION CENTER
FIND YOUR PATH TO CYBER

CYBER.ORG offers grant-funded cyber curricula, professional development, and career resources. Our goal is to empower educators and grow the cyber workforce of tomorrow.
DEGREE REQUIRED?
Yes
Bachelor’s Degree in Cybersecurity or Computer Science
[Master’s Degree in Computer Forensics helps]

MEDIAN SALARY
+$70,000

JOB GROWTH
+28%

SOFT SKILLS
Curiosity & Insight
Strong Communication
Ability to Write Reports & Explain Evidence, Potentially in Front of Lawyers & Judges

COMMON JOB DUTIES
- Conduct data breach and security incident investigations
- Recover and examine data from computers and electronic storage devices
- Dismantle and rebuild damaged systems to retrieve lost data
- Identify additional systems/networks compromised by cyber attacks
- Compile evidence for legal cases
- Draft technical reports, write declarations and prepare evidence for trial
- Give expert counsel to attorneys about electronic evidence in a case
- Advise law enforcement on the credibility of acquired data
- Train law enforcement officers on computer evidence procedures
- Keep abreast of emerging technologies, software and methodologies
FIND YOUR PATH TO CYBER

CYBER.ORG offers grant-funded cyber curricula, professional development, and career resources. Our goal is to empower educators and grow the cyber workforce of tomorrow.

www.CYBER.org  info@CYBER.org  @cyberdotorg  @cyber_dot_org  @cyberdotorg  linkedin.com/company/cyberorg
**Career Profile: Cyber Legal Advisor**

**Degree Required?**
- Yes
- Juris Doctorate Degree is required

**Median Salary**
- $92,000

**Job Growth**
- 28%

**Soft Skills**
- Good communicator
- Good listener
- Approachable
- Interpersonal skills

**Common Job Duties**
- Advocate for an organization in legal and legislative proceedings
- Evaluate contracts
- Evaluate regulations, policies and procedures
- Interpret and apply laws
- Resolve conflicts in policies and procedures
- Maintain a working knowledge of relevant constitutional issues
- Evaluate the impact of changes to laws and regulations
- Help implement changes to laws
- Provide legal guidance to management, personnel, or clients
FIND YOUR PATH TO CYBER

CYBER.ORG offers grant-funded cyber curricula, professional development, and career resources. Our goal is to empower educators and grow the cyber workforce of tomorrow.
CAREER PROFILE: CYBER SECURITY ENGINEER

DEGREE REQUIRED?
Yes
Bachelor’s Degree in Cybersecurity or Computer Science

MEDIAN SALARY
+$90,000

JOB GROWTH
+20%

SOFTWARE SKILLS
Complex Problem Solving
Creativity
Strong Communication
Ability to Work in a Team
Capable of Handling Stress

COMMON JOB DUTIES
▶ Create new ways to solve existing production security issues
▶ Configure and install firewalls and intrusion detection systems
▶ Perform vulnerability testing, risk analyses and security assessments
▶ Develop automation scripts to handle and track incidents
▶ Investigate intrusion incidents, conduct forensic investigations and mount incident responses
▶ Collaborate with colleagues on authentication, authorization and encryption solutions
▶ Evaluate new technologies and processes that enhance security capabilities
▶ Test security solutions using industry standard analysis criteria
▶ Respond to information security issues during each stage of a project’s lifecycle
▶ Define, implement and maintain corporate security policies
FIND YOUR PATH TO CYBER

CYBER.ORG offers grant-funded cyber curricula, professional development, and career resources. Our goal is to empower educators and grow the cyber workforce of tomorrow.
CAREER PROFILE:
INFORMATION SYSTEMS SECURITY MANAGER

DEGREE REQUIRED?
Yes
Bachelor’s Degree in Cybersecurity or Computer Science

MEDIAN SALARY
$110,000

JOB GROWTH
+20%

SOFT SKILLS
- Strong Leadership
- Good Communication
- Efficient Multi-tasker
- Creative Problem Solver
- Comfortable Delegating

COMMON JOB DUTIES
- Manage organizational resources (time, money, personnel, etc.) to support security goals and policies
- Create and execute strategies to improve the reliability and security of IT projects
- Define, implement and maintain corporate security policies and procedures
- Spearhead vulnerability audits, forensic investigations and mitigation procedures
- Respond immediately to security-related incidents and provide a thorough post-event analysis
- Manage a diverse team of security administrators, analysts and IT professionals
- Advise leadership on organization’s cybersecurity status
- Institute organization-wide training in security awareness, protocols and procedures
- Assess, test and select new security products and technologies
FIND YOUR PATH TO CYBER

CYBER.ORG offers grant-funded cyber curricula, professional development, and career resources. Our goal is to empower educators and grow the cyber workforce of tomorrow.

www.CYBER.org info@CYBER.org @cyberdotorg @cyber_dot_org @cyberdotorg linkedin.com/company/cyberorg
CAREER PROFILE:

IT PROJECT MANAGER

DEGREE REQUIRED?
Yes
Bachelor’s Degree in Systems Management, Strategic Planning, Engineering & Technology, or Related Field

MEDIAN SALARY
+$97,000

JOB GROWTH
12%

SOFT SKILLS
Leadership & Team Building
Resource Management
Technology Use
Systems Thinking

COMMON JOB DUTIES
- Develop methods to monitor and measure risk, compliance, and assurance efforts
- Provide advice on project costs, design concepts, or design changes
- Review or conduct audits of information technology (IT) programs and projects
- Manage end-to-end customer service
- Gather feedback on customer satisfaction and internal service performance to foster continual improvement
- Develop supply chain, system, network, performance, and cybersecurity requirements
- Identify and address cyber workforce planning and management issues (e.g. recruitment, retention, and training)
- Lead and oversee budget, staffing, and contracting
- Draft and publish supply chain security and risk management documents

for more info

CYBER.ORG
THE ACADEMIC INITIATIVE OF THE CYBER INNOVATION CENTER
FIND YOUR PATH TO

CYBER

CYBER.ORG offers grant-funded cyber curricula, professional development, and career resources. Our goal is to empower educators and grow the cyber workforce of tomorrow.
CAREER PROFILE: MULTI-DISCIPLINED LANGUAGE ANALYST

DEGREE REQUIRED?

Yes
Bachelor’s Degree in target language is encouraged if applicant is not a native speaker

MEDIAN SALARY

$55,000

JOB GROWTH

42%

SOFTWARE SKILLS

Good Communicator
Detail-oriented
Analytical
Identify contexts & subtleties in written & verbal communications

COMMON JOB DUTIES

- Analyze and process information using language and cultural expertise
- Compile and interpret data for intelligence
- Assess a target’s motivation and frame of reference for intelligence context
- Analyze metadata to look for patterns, anomalies, or events
- Identify cyber threat tactics
- Identify foreign languages and dialects in initial source data
- Help optimize the development of language processing tools
- Analyze social network activities
- Translate voice and graphic data
- Identify cyber or technology-related terminology used in target languages

for more info

CYBER.ORG
THE ACADEMIC INITIATIVE OF THE CYBER INNOVATION CENTER
FIND YOUR PATH TO CYBER

CYBER.ORG offers grant-funded cyber curricula, professional development, and career resources. Our goal is to empower educators and grow the cyber workforce of tomorrow.

www.CYBER.org  info@CYBER.org  @cyberdotorg  @cyber_dot_org  @cyberdotorg  linkedin.com/company/cyberorg
SOFTWARE DEVELOPER

DEGREE REQUIRED?
Yes
Associate’s Degree
(A Bachelor’s or Master’s in Computer Science is Encouraged)

MEDIAN SALARY
$70,000

JOB GROWTH
24%

COMMON JOB DUTIES

- Develops, creates, maintains, and write/code computer applications, software, or utility programs
- Design, implement, and test software
- Assist in the development of a company-wide software security strategy
- Facilitate meetings and workshops to define client processes and needs
- Create new software systems or forensic tools
- Participate in the life-cycle development of software systems using different methodologies
- Design and build proof-of-concept prototype solutions
- Institute programming techniques that are free from logical design and technical implementation flaws
- Gain a thorough knowledge of attack vectors that may be used to exploit software
- Support software deployments to customers

SOFT SKILLS
Good Communicator
Able to Work on a Team
Analytical
Meet Deadlines

for (int i = 0; i < n / 2; i++)
for (int j = i + 1; j < n; j++)
if (less(a[i], a[j]))
exchange(a[i], a[j]);

for (int i = 0; i < n / 2; i++)
for (int j = i + 1; j < n; j++)
if (less(a[i], a[j]))
exchange(a[i], a[j]);

assert(comparable(a));
for (int i = 0; i < n; i++)
for (int j = i + 1; j < n; j++)
if (less(a[i], a[j]))
exchange(a[i], a[j]);

assert(comparable(a));
FIND YOUR PATH TO CYBER

CYBER.ORG offers grant-funded cyber curricula, professional development, and career resources. Our goal is to empower educators and grow the cyber workforce of tomorrow.

www.CYBER.org  info@CYBER.org  @cyberdotorg  @cyber_dot_org  @cyberdotorg  linkedin.com/company/cyberorg
DEGREE REQUIRED?

NO
Certification(s) encouraged but not essential
Experience can supplement

MEDIAN SALARY

$50,000

JOB GROWTH

11%

SOFTWARE SKILLS
Complex Problem Solving
Systems Thinking
Attention to Detail
Resource Management

COMMON JOB DUTIES

- Install and maintain network infrastructures, device operating systems
- Troubleshoot system hardware and software issues
- Analyze incident data for emerging trends
- Develop and deliver technical training to users and other customers
- Diagnose and resolve customer-reported system incidents, problems, and security events
- Make recommendations based on trend analysis for changes to software and hardware to enhance user experience
- Install and configure hardware, software, and other equipment for system users that adheres to security standards
- Administer accounts, network rights, and access to systems and equipment
- Perform asset management/inventory of information technology (IT) resources

for more info
FIND YOUR PATH TO CYBER

CYBER.ORG offers grant-funded cyber curricula, professional development, and career resources. Our goal is to empower educators and grow the cyber workforce of tomorrow.
DEGREE REQUIRED?  
No

Real-world experience is much more valued than a degree, though a degree won’t hurt

MEDIAN SALARY
$75,000

JOB GROWTH
+20%

SOFT SKILLS
Alternative Problem Solving  
Curious & Creative  
Attention to Detail  
Strong Communication  
Interest in Hacking

COMMON JOB DUTIES

- Identify critical flaws in applications and systems that cyber attackers could exploit
- Conduct vulnerability assessments for networks, applications and operating systems
- Conduct network security audits and scanning on a predetermined basis
- Use automated tools (e.g. Nessus) to pinpoint vulnerabilities and reduce time-consuming tasks
- Use manual testing techniques and methods to gain a better understanding of the environment and reduce false negatives
- Develop, test and modify custom scripts and applications for vulnerability testing
- Compile and track vulnerabilities over time for metrics purposes
- Write and present a comprehensive Vulnerability Assessment and maintain a database
- Supply hands-on training for network and systems administrators

VULNERABILITY ASSESSMENT ANALYST  
AKA  
VULNERABILITY ASSESSOR
FIND YOUR PATH TO CYBER

CYBER.ORG offers grant-funded cyber curricula, professional development, and career resources. Our goal is to empower educators and grow the cyber workforce of tomorrow.
**CAREER PROFILE:**

**CYBER OPERATOR**

**DEGREE REQUIRED?**
Yes
Bachelor’s in Computer Science/Engineering Certification(s) recommended

**MEDIAN SALARY**
+$100,000

**JOB GROWTH**
20%

**SOFTWARE SKILLS**
Critical Thinking
Excellent Communication (written and verbal)
Analytical

**COMMON JOB DUTIES**
- Analyze network architecture, tools and procedures for ways to improve performance
- Identify potential points of strength and vulnerability within a network
- Collect and process information on wireless networks and connected devices
- Deploy, test, and utilize network tools
- Monitor and track diagnostic information on network health
- Operate and maintain automated systems for gaining access to networks
- Collaborate with development organizations to create and deploy the tools needed to achieve objectives
- Conduct exploitation testing of devices and networks
FIND YOUR PATH TO CYBER

CYBER.ORG offers grant-funded cyber curricula, professional development, and career resources. Our goal is to empower educators and grow the cyber workforce of tomorrow.
DEGREE REQUIRED?
No
Certification(s) recommended; experience can supplement

MEDIAN SALARY
+$47,000

JOB GROWTH
+20%

SOFT SKILLS
Planning & organization
Problem-solving
Analytical
Systems thinking

COMMON JOB DUTIES
- Develop test plans to address specifications and requirements
- Analyze the results of software, hardware, or interoperability testing
- Test, evaluate, and verify hardware and/or software to determine compliance with defined specifications and requirements
- Install and maintain network infrastructure device operating system software (e.g., IOS, firmware)
- Make recommendations based on test results
- Perform developmental testing on systems under development
- Record and manage test data
- Validate specifications and requirements for testability

for more info
FIND YOUR PATH TO CYBER

CYBER.ORG offers grant-funded cyber curricula, professional development, and career resources. Our goal is to empower educators and grow the cyber workforce of tomorrow.
**CAREER PROFILE:**

**SYSTEMS ADMINISTRATOR**

**DEGREE REQUIRED?**

No

However, Bachelor of Science in IT/Network Administration recommended

**MEDIAN SALARY**

+$62,000

**JOB GROWTH**

+8%

**SOFTWARE SKILLS**

Strong Leader & Communicator

Organization

Problem-Solver

Analytical

**COMMON JOB DUTIES**

- Manage accounts, network rights, and access to systems and equipment
- Maintain baseline system security according to organizational policies
- Provide ongoing optimization and problem-solving support
- Install, update, and troubleshoot systems/servers
- Troubleshoot hardware/software interface and interoperability problems
- Oversee installation, implementation, configuration, and support of system components
- Manage system/server resources including performance, capacity, availability, serviceability, and recoverability
- Design group policies and access control lists to ensure compatibility with organizational standards, business rules, and needs
FIND YOUR PATH TO CYBER

CYBER.ORG offers grant-funded cyber curricula, professional development, and career resources. Our goal is to empower educators and grow the cyber workforce of tomorrow.
CAREER PROFILE:

CYBER OPS PLANNER

DEGREE REQUIRED?
No
But Bachelor’s Degree is recommended
Certifications encouraged

MEDIAN SALARY
+$83,000

JOB GROWTH
~20%

SOFT SKILLS
Adaptability
Good judgement
Teamwork
Good communicator

COMMON JOB DUTIES
- Develop detailed plans of cyber operations (cyber ops) and leads teams in executing the plans
- Communicate complex information, concepts, and ideas through verbal, written, or visual means
- Develop plans for how to handle potential cybersecurity crisis
- Use policy expertise to help develop, negotiate, and staff action plans for cyber ops
- Identify cyber intelligence gaps and shortfalls for cyber operational planning
- Document “lessons learned” that convey the results of events and/or exercises
- Maintain situational awareness of cyber-related intelligence requirements
- Prepare and present cyber ops briefings

for more info
FIND YOUR PATH TO CYBER

CYBER.ORG offers grant-funded cyber curricula, professional development, and career resources. Our goal is to empower educators and grow the cyber workforce of tomorrow.
CAREER PROFILE:
INFORMATION ASSURANCE ANALYST

DEGREE REQUIRED?
Yes
Bachelor’s in Cybersecurity or Computer Science
Master’s Degree Encouraged

MEDIAN SALARY
$100,000

JOB GROWTH
31%

SOFT SKILLS
Organized
Ability to Work Well Under Pressure
Analytical

COMMON JOB DUTIES
- Develop and implement plans to safeguard various types of files and stored data
- Configure, install, operate, & maintain hardware & software for an organization
- Develop new and evolve existing infrastructure and participate in technical research to identify industry best-practices
- Ensure all organization operating systems, software, & system hardware are protected, and compliant with rules & policies
- Perform regular security checks
- Verify the integrity and availability of all technological resources (servers, hardware, software, and other relevant systems)
- Review system and application logs to determine if backup procedures are functioning
- Maintain all relevant documentation related to information security
- Analyze organization’s information assurance policy

for more info
FIND YOUR PATH TO CYBER

CYBER.ORG offers grant-funded cyber curricula, professional development, and career resources. Our goal is to empower educators and grow the cyber workforce of tomorrow.
KNOWLEDGE MANAGER

DEGREE REQUIRED?

No
But Bachelor’s Degree is recommended
Certifications encouraged

MEDIAN SALARY

$75,000

JOB GROWTH

11%

COMMON JOB DUTIES

- Help organizations to identify, document, and access intellectual assets like employee expertise, best practices, and organizational knowledge
- Perform information searches, knowledge mapping, and knowledge management
- Knowledge of laws, regulations, policies, and ethics as they relate to cybersecurity and privacy
- Ensuring compliance with Payment Card Industry and Personal Health Information data security standards
- Design, build, implement, and maintain a knowledge management framework that provides end-users access to the organization's intellectual capital
- Promote knowledge sharing between information owners/users through an organization's operational processes and systems
- Lead efforts to promote the organization's use of knowledge management and information sharing

SOFT SKILLS

Multitasking
Leadership
Big-picture vision
Responsible

for more info
FIND YOUR PATH TO CYBER

CYBER.ORG offers grant-funded cyber curricula, professional development, and career resources. Our goal is to empower educators and grow the cyber workforce of tomorrow.
**CAREER PROFILE:**

**PEN TESTER**

**DEGREE REQUIRED?**
Yes
Bachelor’s Degree in Cybersecurity or Computer Science

**MEDIAN SALARY**
$85,000

**JOB GROWTH**
30%

**SOFTWARE SKILLS**
- Ability to Learn Quickly
- Teamwork
- Strong Written & Verbal Communication

**COMMON JOB DUTIES**
- Identify and attempt to exploit weaknesses in computer networks and systems
- Simulate cyber attacks and data breaches to access secure information
- Bypass established security protocols and other network defenses
- Document process and create detailed reports of weaknesses in systems
- Ethically hack into computer networks and data servers
- Identify and configure tools to break into computers, networks, and servers
- Communicate exposed vulnerabilities and risk-level of computer systems and networks
- Educate organizations and staff on areas of risk and cyber-safety best practices
- Cooperate with upper-management and law enforcement

---

*CYBER.ORG*

THE ACADEMIC INITIATIVE OF THE CYBER INNOVATION CENTER
FIND YOUR PATH TO CYBER

CYBER.ORG offers grant-funded cyber curricula, professional development, and career resources. Our goal is to empower educators and grow the cyber workforce of tomorrow.
DEGREE REQUIRED?
Yes
Bachelor’s in Cybersecurity, IT, or Computer Science
Certifications Encouraged

MEDIAN SALARY
$119,000

JOB GROWTH
30%

SOFT SKILLS
Collaborative
Ability to Work Well Under Pressure
Analytical

COMMON JOB DUTIES
- Provide subject matter expertise to the development of cyber operations-specific indicators
- Monitor open source websites for hostile content directed towards organizational or partner interests
- Collaborate with intelligence analysts and targeting organizations involved in related areas
- Conduct in-depth research and analysis
- Use gathered intelligence to counter incoming threats and prevent potential threats
- Provide current intelligence support to critical internal/external stakeholders as appropriate
- Identify threat tactics and methodologies
- Provide evaluation and feedback necessary for improving intelligence production, intelligence reporting, collection requirements, and operations
FIND YOUR PATH TO CYBER

CYBER.ORG offers grant-funded cyber curricula, professional development, and career resources. Our goal is to empower educators and grow the cyber workforce of tomorrow.

www.CYBER.org @cyberdotorg @cyberdotorg linkedin.com/company/cyberorg
CAREER PROFILE: SUPPLY CHAIN RISK MANAGER

DEGREE REQUIRED? Yes
Bachelor’s Degree Required in Supply Chain Management or Cybersecurity

MEDIAN SALARY $85,000

JOB GROWTH 11%

COMMON JOB DUTIES

- Analyze organization’s supply chain, uncover inefficiencies, and establish best practices
- Research and test new hardware or software for useability and cybersecurity integrity
- Perform hardware and software reverse engineering
- Write analytically and present technical information to a non-technical audience
- Lead a multi-disciplined team effectively and efficiently
- Manage budgets and an organization’s resources
- Make recommendations for a company’s processes and procedures
- Maintain a current understanding of supply chain logistics and research upcoming technologies
- Manage cloud services and automation technologies to ensure data is secure

SOFT SKILLS

- Leadership
- Able to Multitask
- Organized
- Creative Problem Solving

for more info
FIND YOUR PATH TO CYBER

CYBER.ORG offers grant-funded cyber curricula, professional development, and career resources. Our goal is to empower educators and grow the cyber workforce of tomorrow.

www.CYBER.org @cyberdotorg @cyber_dot_org linkedin.com/company/cyberorg
CAREER PROFILE:
CLOUD ARCHITECT

DEGREE REQUIRED?
No Certification Required
AWS Cloud Architect or Google Certified Professional Cloud Architect

MEDIAN SALARY
+$137,000

JOB GROWTH
13%

SOFT SKILLS
Creativity
Critical Thinking
Able to Collaborate
Adaptability / Versatility

COMMON JOB DUTIES
- Collaborate with other engineers to create plans for implementing new computer network technologies
- Design the computer system or network, creating a blueprint and carefully detailing all aspects of its design
- Oversee construction of cloud infrastructures and other applications
- Perform daily tests to gauge the effectiveness of the computer system, identify areas in need of improvement and issues that slow the system down and make recommendations for upgrades
- Perform research on new technologies as they are developed to determine if they would be beneficial to the current systems
- Present recommendations for system upgrades, new strategies and new technologies to executive level colleagues
- Implement information security principals when creating and designing information systems in order to keep all classified and sensitive information secure

for more info
CYBER.ORG offers grant-funded cyber curricula, professional development, and career resources. Our goal is to empower educators and grow the cyber workforce of tomorrow.
DEGREE REQUIRED?
Yes
Master’s Degree Required
additional certifications are strongly encouraged

MEDIAN SALARY
$200,000

JOB GROWTH
13%

SOFT SKILLS
Leadership
Excellent Communication
Analytical Thinking
Wide Knowledge Base

COMMON JOB DUTIES
- Develop and implement an organization’s information security program to ensure their data remains secure
- Anticipate, assess, and actively manage new and emerging threats
- Respond to data breaches and other security incidents
- Develop policies and procedures to protect enterprise communications, systems, and assets from internal and external threats
- Work with other departments to align security initiatives with business goals
- Identify security objectives and metrics, and establish secure business and communication practices
- Communicate complex security concepts to both a technical and non-technical audience
- Have a strong understanding of information technology and security and research potential cyber threats and future cybersecurity technology

CYBER.ORG
THE ACADEMIC INITIATIVE OF THE CYBER INNOVATION CENTER
CYBER.ORG offers grant-funded cyber curricula, professional development, and career resources. Our goal is to empower educators and grow the cyber workforce of tomorrow.
CAREER PROFILE: FACILITY SECURITY OFFICER

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

MEDIAN SALARY
$75,000

JOB GROWTH
4%

SOFTWARE SKILLS
Problem Solving
Excellent Communication
Analytical Thinking
Collaboration

COMMON JOB DUTIES

- Manage and enforce facility DoD security programs & requirements, including multiple classified contracts
- Develop and implement policies relevant to security and emergency response drills, exercises and self-inspections to ensure compliance with regulatory requirements
- Follow regulations set by the NISPOM, JAFAN and ICD's
- Maintain document accountability for all classified materials and a non-classified COMSEC account.
- Assist with personnel/organizational briefings
- Verify clearance information in JPAS and enter debriefing and separation information into same
- Plan and lead security awareness training
- Coordinate personnel security processes and lead internal investigations of any facility incidents
- Maintain organized and strict documentation of all building staff and visitors

for more info

CYBER.ORG
THE ACADEMIC INITIATIVE OF THE CYBER INNOVATION CENTER
FIND YOUR PATH TO CYBER

CYBER.ORG offers grant-funded cyber curricula, professional development, and career resources. Our goal is to empower educators and grow the cyber workforce of tomorrow.