

CAREER PROFILE:

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

COMMON 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





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CYBER CRIME INVESTIGATOR



DEGREE REQUIRED?

NO

Certification(s) encouraged
but not essential
Experience can supplement

MEDIAN SALARY

+\$67,000

JOB GROWTH

10%

SOFT 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





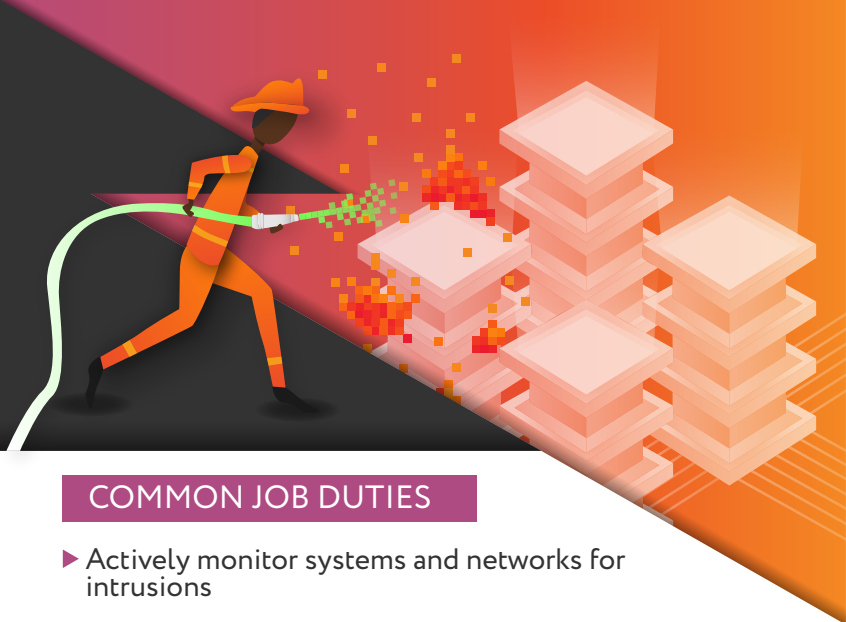
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CYBER DEFENSE INCIDENT RESPONDER



DEGREE REQUIRED?

No

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

MEDIAN SALARY

+\$80,000

JOB GROWTH

+20%

SOFT 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





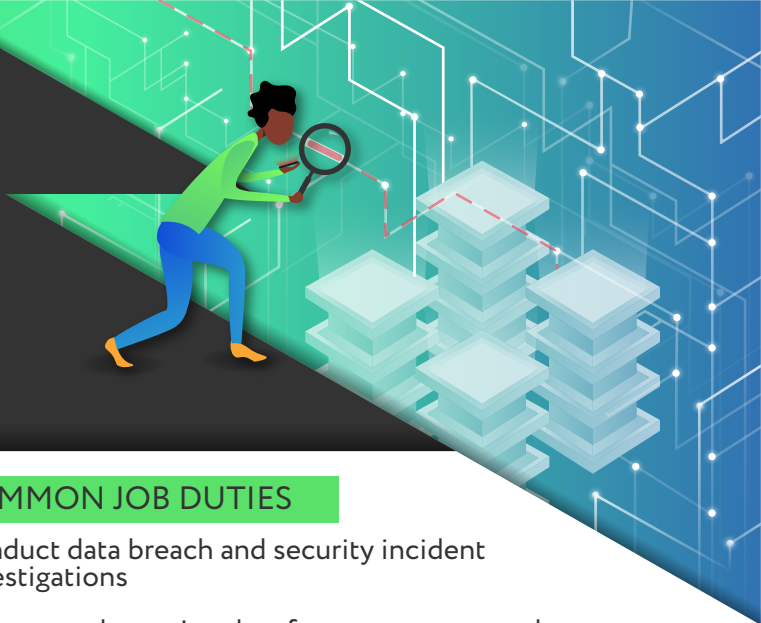
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CYBER FORENSICS EXPERT



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





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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





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CYBER SECURITY ENGINEER



DEGREE REQUIRED?

Yes

Bachelor's Degree
in Cybersecurity or
Computer Science

MEDIAN SALARY

+\$90,000

JOB GROWTH

+20%

SOFT 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





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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





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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




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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%

SOFT 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





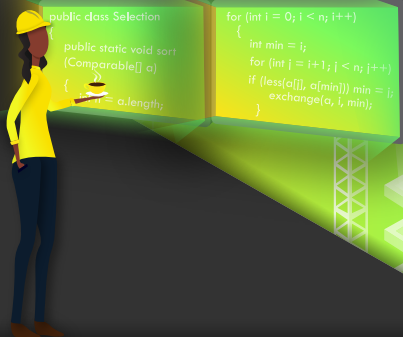
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SOFTWARE DEVELOPER



DEGREE REQUIRED?

Yes

Associate's Degree

(A Bachelor's or Master's in
Computer Science is Encouraged)

MEDIAN SALARY

\$70,000

JOB GROWTH

24%

SOFT SKILLS

Good Communicator

Able to Work on a Team

Analytical

Meet Deadlines

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




for more info



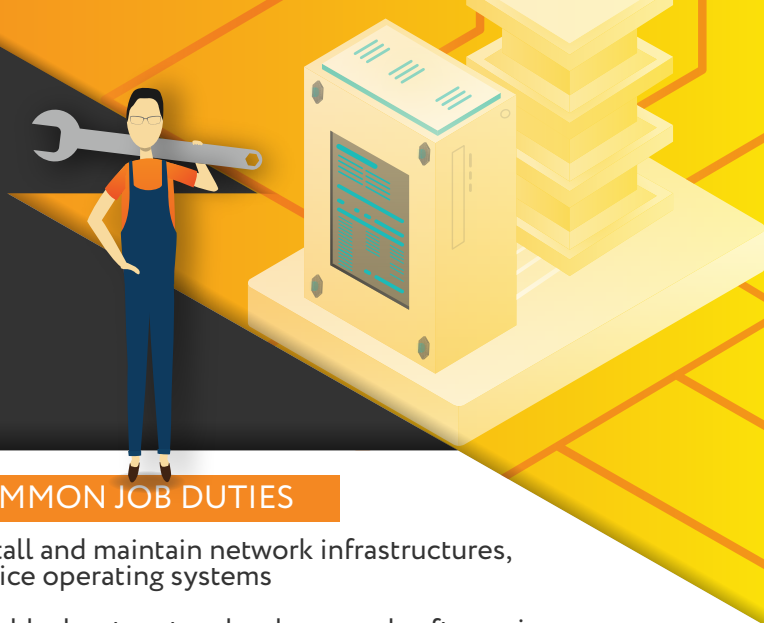
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TECHNICAL SUPPORT SPECIALIST



DEGREE REQUIRED?

NO

Certification(s) encouraged
but not essential
Experience can supplement

MEDIAN SALARY

\$50,000

JOB GROWTH

11%

SOFT 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





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VULNERABILITY ASSESSMENT ANALYST

AKA
VULNERABILITY ASSESSOR



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





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CYBER OPERATOR



DEGREE REQUIRED?

Yes

Bachelor's in Computer
Science/Engineering
Certification(s) recommended

MEDIAN SALARY

+\$100,000

JOB GROWTH

20%

SOFT 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




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SYSTEM TESTING & EVALUATION SPECIALIST



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





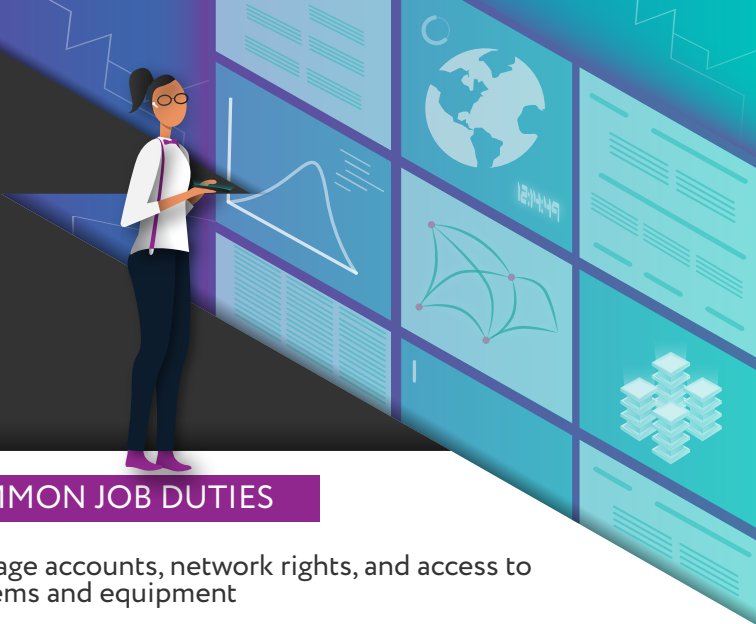
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SYSTEMS ADMINISTRATOR



DEGREE REQUIRED?

No

However, Bachelor of Science in
IT/Network Administration
recommended

MEDIAN SALARY

+\$62,000

JOB GROWTH

+8%

SOFT 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





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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





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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




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KNOWLEDGE MANAGER



DEGREE REQUIRED?

No

But Bachelor's Degree
is recommended
Certifications encouraged

MEDIAN SALARY

\$75,000

JOB GROWTH

11%

SOFT SKILLS

Multitasking
Leadership
Big-picture vision
Responsible

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





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PEN TESTER



DEGREE REQUIRED?

Yes

Bachelor's Degree
in Cybersecurity or
Computer Science

MEDIAN SALARY

\$85,000

JOB GROWTH

30%

SOFT 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





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THREAT & WARNING ANALYST



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




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