MAINE MARITIME ACADEMY
A College of Engineering, Management, Science, and Transportation

NETWORK SECURITY ENGINEER

POSITION OVERVIEW

Reporting to the CTO, the Network Security Engineer manages enterprise network security architecture, infrastructure, standards, training and safeguards in order to protect Academy data resources and assets.

DUTIES

- Designs, maintains, and executes vulnerability testing processes and security breach mitigation tactics.
- Assists in the selection of appropriate controls, control objectives, and activities to achieve policy goals and regulatory compliance.
- Designs, configures, implements, and maintains all security platforms and associated software including routers, switches, firewall, VPNs, WAF, NIDPS, SIEM, anti-SPAM, anti-virus, anti-malware, cryptology systems and MDM.
- Designs, reviews, and continuously assesses firewall, intrusion detection/prevention, SIEM, VPN, SSL, application control, anti-virus and other network component policies and underlying systems.
- Performs security reconnaissance on assets, gathering intelligence to identify and respond to potential security threats and vulnerabilities of moderate organizational risk and complexity, ensuring appropriate threat mitigation procedures are followed.
- Responsible for major security platform upgrades and changes.
- Coordinates and oversees third party penetration testing and security audits.
- Maintains up to date baselines for secure configuration and operation of all systems infrastructure.
- Performs security analysis of new and existing security applications and operating systems including hosted solutions. Applies standards to new

installations before they transition from development to production environments.

- Performs regular analysis of all infrastructure systems to assess security vulnerabilities and needs.
- Provides periodic vulnerability testing and leads remediation projects.
- Coordinates and oversees log analysis for external monitoring services provider.
- Monitors data security systems to identify security events and leads event response efforts.
- Interfaces with external vendors to assess network access requests and ensure that they meet adopted standards and best practices.
- Collaborates with CTO to create policies, procedures and best practices.
- Assists with network maintenance and troubleshooting.
- Assists with resolution of network related help desk tickets and issues.
- Responsible for all security related training for the institution.
- Other duties as assigned.

SKILLS

- Excellent customer service skills and the ability to work well with both internal (Academy) customers as well as external entities.
- Ability to keep up to date with quickly changing field of network security.
- Knowledgeable with industry standards and best practices for network and data security.
- Strong organizational and time management skills.
- Exceptional troubleshooting ability required to solve non-routine, complex problems as they arise.
- Computer hardware and software skills are required.
- Ability to troubleshoot and repair hardware and software.
- Critical thinking skills.
- Analytical and technical aptitude to focus on identification and resolution of root causes of issues; holistic approach.
- Ability to work in a team oriented, collaborative environment is required.

This job description reflects the general duties of the job but is not a detailed description of all duties which may be inherent to the position. The Academy may assign reasonably related additional duties to individual employees consistent with policy and collective bargaining agreements.

QUALIFICATIONS

- 5 years of prior experience in a complex computing environment is required.
- AS or BS in Engineering or Technology field is required.
- CISSP certification or ability to obtain within 6 months of hire is required.
- CEH, CHFI, Network+, or other additional security and network certifications are preferred.
- Strong written and oral communications skills are required.

WORKING CONDITIONS

- Environment can be stressful, competing projects and demands
- Frequent bending and twisting in awkward positions
- Frequent contact with students, parents and external entities
- Some lifting of moderately heavy equipment for various reasons
- Occasional weekend and evening work required

	Maine Maritime Academy Position Factor Evaluation		
	Job Title: Network Security Engineer	Job Code:	
	Wage Grade: 25	Total Points: 546	
	Factor	Degree	Points
1	Knowledge and Skill	8	288
2	Effort		
	A. Mental and Visual Effort	5	40
	B. Physical Effort	3	30
3	Responsibility for Cost Control	5	40
4	Responsibility for Others		
	A. Injury to Others	2	16
	B. Supervisory Responsibility	3	24
	C. Sensitive Information and Records	5	40
5	Working Conditions	2	20
6	Responsibility for External and Internal Relations	6	48
	Date of last reclassification: 11-24-2021		