Clark Atlanta University
Job Description

Position Title	**Senior Network Security Engineer**
Department	**Office of Information Technology & Communications**
Reports To	**Network Services & Security Manager**

The following statements are intended to describe the general nature and level of work to be performed. They are not intended to be construed as an exhaustive list of all responsibilities, duties and skills required of personnel so classified. All duties listed are essential functions for the position. It is understood that other related duties may be assigned.

General Function (Description):

The Senior Network Security Engineer will oversee and participate directly in the design, implementation, support, deployment, and operation of all data networks security solutions for the organization. This individual will collaborate with system administration, database administration, IT development, and application support teams in order to implement practical solutions to secure CAU's internal and external network infrastructure, which includes the on-going maintenance and management of hardware and software that secures CAU's network, analyzing and troubleshooting problems and monitoring for network security problems and/or incidents. The roles/responsibilities will be split between (70%) Title III initiatives and (30%) university activities.

Examples of Duties and Responsibilities:

- Installation, configuration, maintenance and support of checkpoint firewalls, VPN, Website filtering devices, Impulse NAC and Remote Access Systems
- Network Traffic monitoring; early detection and fast reaction to unexpected "suspicious" situations (i.e. unusual traffic volume, port attacks, rogue devices in the network, etc.).
- Network design and security; web and network security exploit identification
- Intrusion detection/prevention and network traffic analysis; security event analysis and monitoring
- Monitor compliance with information security procedures and policies
- Regular penetration testing, reporting and issue resolution
- Integrate new network devices and wireless access points into the university information security infrastructure
- Monitor and maintain McAfee ePolicy Orchestrator Suite (Intrushield IDS/IPS, DLP, Antivirus Software)
- Specify wireless network and network core hardware and software standards
- Lead/participate in the configuring of network equipment access pointes, servers and PCs to ensure best practices approach to if information security
- Establish systems maintenance parameter with the goal of providing consistent, stable, secure high-performing data services to the University as a whole
- Liaising with colleagues on the development of new designs and standards
- Work with project teams to design and implement secure network connectivity solutions
- Provide an escalation path for operations and deployment staff to resolve problems
- Evaluate and certify new technologies or new versions of existing products
- Integrate new products into the infrastructure
- Act as escalation point to vendor to resolve problems

- Write and maintain technical documentation including design docs, test plans, project plans, procedures, incident reports and troubleshooting guides
- Other duties as assigned by the Manager of Network and Security Services

Knowledge, Skills and Abilities

- 5+ years of security engineering experience.
- Expert-level knowledge of Ethernet, TCP/IP, and other common networking technologies.
- Knowledge of Cisco Prime LAND Management Solutions.
- Financial and personnel management expertise and experience are also required.
- Advanced knowledge of TCP/IP networking, Routing Protocols, Layer 2/3 Switching, Physical and Data Link layer protocols, MPLS, HSRP V2, VSS, VTP, 802.1Q, Qos, VLANS, WLANS, VPN, Firewalls, Network Management SNMP, IP trunk, and troubleshooting tools such as solar winds.
- Knowledge of Cisco Meraki Wireless Technologies
- Strong understanding and experience with Quality of Service design and implementation.
- Strong troubleshooting skills with the ability to gather all relevant information, identify problems, and implement solutions quickly
- Excellent interpersonal skills and experience working in a team-oriented and collaborative environment.

Minimum Hiring Standards:

Education	Bachelor's Degree in Computer Science discipline or equivalent industry experience
Years of Experience Required	Five to ten years' experience in related position
Years of Management/Supervisor Experience	Minimum of two years managerial experience desired but not required

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