Network Engineer-Central
Job Description

JOB INFORMATION

Job Title:	Network Engineer-Central
Auburn Title:	Network Engineer - Central
Job Code:	MA43
FLSA Classification:	Exempt
Salary Grade:	IT07 $55,300 - $94,000
Organizational use restricted to the following divisions:	155 - Office of Info Technology

JOB FAMILY AND FUNCTION

Job Family:	Information Technology
Job Function:	Network Operations & Maintenance

Family Description

This job family manages or performs work associated with analysis, design, implementation, operation, deployment, and support of the organization's information technology resources (including computer hardware, operating systems, communications, software applications, data processing and security), telecommunication systems, and software/database products by internal staff, outsourcing staff, or consultants. Activities include developing information technology strategies, polices and plans; maintenance and use of information technology resources; training and supporting technology users; telecommunications network planning, operations and site acquisition; programming software/database products for sale to external customers; developing PC, online, and mobile games; and internet product management & operations.

Function Description

Responsible for the operation and maintenance of telecom infrastructure and/or network components to drive network efficiency and availability. Maintains network quality standards to achieve optimal levels of operation and KPI targets. Tracks and monitors network traffic and performance to ensure minimal interruption to network transmission and/or network switches. Corrects network problems effectively and in a timely manner. Drives initiatives, industrialization, and efficiencies to network facilities for improvements (i.e., enhancements, updates, upgrades, and new systems). Establishes tools and procedures to monitor network performance.

JOB SUMMARY

Under general supervision, provides functional and empirical analysis related to the planning, design, installation, and implementation of the University network infrastructure supporting University applications, systems, and Internet connectivity. Responsible for custom configurations of edge and core systems and leads complex projects. Monitors network performance and resolves complex problems. Anticipates and mitigates potential attacks through network or other connections to ensure the security of University network and connected systems. Works with end users, departments, and vendors to resolve network capacity, hardware, software, and security issues on edge and distribution equipment. (Employee must work in central IT unit. Exceptions require CIO prior approval.)

KEY RESPONSIBILITIES

	% TIME
• Researches, analyzes, designs, configures, tests, installs, and supports the University's network routing, switching, monitoring, and management hardware and software. Supports and maintains LAN, WAN, and/or metro networks.	20%
• Performs moderately complex network modeling, analysis, and capacity building. Designs and implements systems to scale and to provide fault tolerance. Provides network communications site planning and management.	15%

• Plans, coordinates, and implements network security measures with guidance from Senior Network Engineers and in accordance with best practices and University policy. Provides and works on edge and distribution network hardware and software to secure mission critical systems and to provide secure access. May assist Senior Network Engineers on core network hardware and software.	15%
• Maintains network monitoring, management, and access software for wired and wireless networks. Adapts and modifies existing software or develops software to meet specific needs. Tests hardware and software to determine efficiency, reliability, and compatibility with existing system and makes purchase recommendations.	10%
• Monitors network and performance to ensure network availability to all system users and performs necessary maintenance to support network availability. Works with end users and vendors to resolve network hardware and software issues.	10%
• Researches and recommends network technologies, hardware, and software to support secure, high-speed delivery of voice, data, and video traffic across all areas of the University for wired and wireless devices.	10%
• Specifies technical standards and participates in procurement evaluations.	10%
• Perform other related duties as assigned by the supervisor.	10%

The above key responsibilities are representative of major duties of positions in this job classification. Specific duties and responsibilities may vary based upon departmental needs. Other duties may be assigned similar to the above consistent with the knowledge, skills and abilities required for the job. Not all of the duties may be assigned to a position and the percent of time spent on each duty varies based on department needs.

MINIMUM QUALIFICATIONS

To perform this job successfully, an individual must be able to perform the minimum requirements listed below. The requirements listed below are representative of the skill, and/or ability required. Reasonable accommodations may be made to enable individuals with disabilities to perform the key responisibilities.

Minimum Education and Experience

Education Level	Field of Study		Years of Experience	Area of Experience	
Bachelor's Degree	No specific discipline. Degree in IT or related field preferred.	And	3	Relevant IT experience in the analysis and administration of network infrastructure, preferably in a university setting.	Or
Associate's Degree	No specific discipline. Degree in IT or related field preferred.	And	7	Relevant IT experience in the analysis and administration of network infrastructure, preferably in a university setting.	Or
High School/GED	General education	And	11	Relevant IT experience in the analysis and administration of network infrastructure, preferably in a university setting.	

Minimum Skills and Abilities

Description	Proficiency	
In-depth knowledge of computer engineering, network architecture, and network hardware.	Intermediate	And
Ability to build, configure and deploy routers, wireless, and new switches.	Intermediate	And
Knowledge of routers and switchers.	Intermediate	And
Ability to recognize, analyze, and solve a variety of problems.	Intermediate	And
Ability to effectively communicate technical concepts to a non-technical audience.	Intermediate	

Minimum Technology

Technology	Technology Details	
Strong technical aptitude and computer skills.		And
LAN/WAN		

Minimum Licenses and Certifications

Licenses/Certifications	Licenses/Certification Details	Time Frame	
None Required.			

Approved Date: 11/10/2019