AUBURN
Human Resources

Network Engineer-Central

Job Description

JOB INFORMATION

Job Code	MA43
Job Description Title	Network Engineer-Central
Pay Grade	IT07
Range Minimum	$64,310
33rd %	$79,310
Range Midpoint	$86,820
67th %	$94,320
Range Maximum	$109,330
Exemption Status	Exempt
Approved Date:	11/19/2019 2:14:07 PM
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JOB FAMILY AND FUNCTION

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

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.)

RESPONSIBILITIES

- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- Specifies technical standards and participates in procurement evaluations.

The responsibilities listed above show the typical duties for jobs in this classification. Actual tasks may differ depending on the department's needs. Other similar duties may be assigned with discretion of the supervisor.

Not every duty will apply to every position, and the amount of time spent on each task can change based on department needs.

SUPERVISORY RESPONSIBILITIES

Supervisory Responsibility	May be responsible for training, assisting or assigning tasks to others. May provide input to performance reviews of other employees.

MINIMUM QUALIFICATIONS

To be eligible, an individual must meet all minimum requirements which are representative of the knowledge, skills, and abilities typically expected to be successful in the role. For education and experience, minimum requirements are listed on the top row below. If substitutions are available, they will be listed on subsequent rows and may only to be utilized when the candidate does not meet the minimum requirements.

MINIMUM EDUCATION & EXPERIENCE

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

Substitutions Allowed for Education	Yes

Substitution allowed for Education: When a candidate has the required experience, but lacks the required education, they may normally apply additional relevant experience toward the education requirement, at a rate of two (2) years relevant experience per year of required education.

MINIMUM KNOWLEDGE, SKILLS, & ABILITIES

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

MINIMUM LICENSES & CERTIFICATIONS

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

PHYSICAL DEMANDS & WORKING CONDITIONS

Physical Demands Category:	Other

PHYSICAL DEMANDS

Physical Demand	Never	Rarely	Occasionally	Frequently	Constantly	Weight
Standing			X			
Walking				X		
Sitting				X		
Lifting	X					
Climbing			X			
Stooping/ Kneeling/ Crouching			X			
Reaching			X			
Talking					X	
Hearing					X	
Repetitive Motions				X		
Eye/Hand/Foot Coordination				X		

WORKING ENVIRONMENT

Working Condition	Never	Rarely	Occasionally	Frequently	Constantly
Extreme cold				X	
Extreme heat				X	
Humidity				X	
Wet				X	
Noise				X	
Hazards				X	
Temperature Change				X	
Atmospheric Conditions				X	
Vibration				X	

Vision Requirements:

Ability to see information in print and/or electronically and distinguish colors.