



CLASS TITLE | SECURITY ENGINEER III— IT SECURITY SERVICES

PAY GRADE: IS-44| www.cityoftulsa.org/pay

Class Code: 2090

Effective Date : 08/17/2022

****THIS CLASSIFICATION INCLUDES PAY INCREASE OPPORTUNITIES - OUTLINED BELOW****

PURPOSE OF THE CLASSIFICATION: Under general direction, architects, designs, implements, maintains information system security controls and countermeasures, including maintaining an up-to-date understanding of information technology networking and infrastructure, particularly as it pertains to network and cyber security, performs security design reviews for solutions selected as candidates for implementation in our network, ensuring controls are in place and managed properly to meet legal and regulatory compliance of all network and system infrastructures, and validating and testing security architecture and design solutions to produce detailed engineering specifications with recommended vendor technologies; and performs other related assigned duties.

ESSENTIAL TASKS:

- Architects Security System Infrastructure
- Plans and designs endpoint security tools and associated policies
- Performs administration of security tools and products on-prem, private cloud, or multi-cloud environments
- Recommends security enhancements to management
- Investigates system anomalies which are indications of network intrusion or data exfiltration.
- Conducts scans of networks to find vulnerabilities
- Plans and designs new security products and procedures
- Leads the City's Cyber Incident Response and Recovery activities
- Researches data for City of Tulsa departmental and personnel investigations
- Works closely with other Information Technology staff, vendors, and internal customers to optimize and support the security tools and systems
- Cross-trains Security Engineer I and Security Engineer II employees on the use of security products and procedures
- Must report to work on a regular and timely basis

Reasonable accommodations may be made to enable individuals with disabilities to perform the essential tasks.

QUALIFICATIONS:

Training and Experience: Must meet one of the following options or an equivalent combination of training and experience per Personnel Policies and Procedures, Section 128:

1. (a) Completion of 120 hours from an accredited college or university including coursework in management information systems, computer science, information technology, information systems, or other related fields relevant to the essential tasks listed in this job description; **and**,
(b) Five (5) years' experience relevant to the essential tasks listed in this job description, preferably experience in enterprise-class systems analysis, systems administration, systems administration, server administration, or network administration; **or**,
2. (a) Graduation from high school or possession of a General Education Development (GED) certificate; **and**
(b) Six (6) years' experience relevant to the essential tasks listed in this job description; **and**,
(c) Possession of a current industry accepted certification in three (3) of the following:
1) Security+; or



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- 2) Server+; or
- 3) Network+; or
- 4) Certified Information Systems Security Professional (CISSP); or
- 5) Cisco Certified Network Associate (CCNA); or
- 6) Cisco Certified Network Professional (CCNP); or
- 7) Cisco Certified Internetwork Expert (CCIE); or
- 8) Microsoft Azure Certification

PAY INCREASE OPPORTUNITY

Employee will be eligible for the equivalent of a one (1) step increase upon completion of one (1) additional certification, listed in Training and Experience, not previously submitted, as approved by management and one (1) year employment in the position.

Knowledge, Abilities and Skills:

Knowledge of:

- Comprehensive knowledge of an Enterprise Infrastructure Applications and Systems, Expert knowledge of cyber threats and response tactics
- Comprehensive knowledge of endpoint protection
- Comprehensive knowledge of identity management
- Comprehensive knowledge of intrusion detection systems
- Comprehensive knowledge of intrusion prevention systems
- Comprehensive troubleshooting methods used with information systems and infrastructure-type applications
- Comprehensive knowledge of operational characteristics and capabilities of applicable systems management applications
- Comprehensive knowledge of various enterprise-level solutions
- Comprehensive knowledge of personal computers and edge devices
- Comprehensive knowledge of basic-level scripting

Ability to:

- Ability to troubleshoot and analyze fundamental systems/infrastructure applications/issues
- Ability to communicate verbally and in writing with all levels of customers
- Ability to document advanced technical information in a concise and understandable format
- Ability to cross-train customers
- Ability to perform basic scripting

Physical Requirements: Physical requirements include arm and hand dexterity enough to use a keyboard and telephone; occasional lifting and carrying up to 50 pounds; may be subject to sitting for extended periods, walking, standing, reaching, bending, kneeling, handling, and twisting; and vision, speech, and hearing sufficient to perform the essential tasks.

Licenses and Certificates: Possession of a valid Oklahoma Class "D" Driver License. Possession of three (3) appropriate professional certifications, as approved by management, not previously submitted., as listed under Training and Experience, within one (1) year of date of hire.



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WORKING ENVIRONMENT: The working environment is primarily indoors in an office setting; it may require some travel to various City locations to provide computer-related assistance; and on-call, after-hour support for assigned production systems.

EEO Code: E-02

Group: Clerical and Administrative

Series: Data Processing and Information Services