



Office of Human Resources  
IT Systems Administrator Senior - CI1450  
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### General Statement of Duties

Performs full performance professional information technology work planning and coordinating the installation and configuration of operating system hardware and software and user application software; maintaining and repairing complex problems with system hardware and software; and modifying operating system hardware and software to increase performance and meet technical design requirements.

### Distinguishing Characteristics

The Senior IT System Administrator is distinguished from the Staff IT System Administrator, which performs entry level professional information technology (IT) work installing and configuring operating system hardware and software and user application software; assists with the maintenance and repair of routine problems with system hardware and software.

The Senior IT System Administrator is also distinguished from the Associate IT System Administrator, which performs standard level professional information technology work installing and configuring operating system hardware and software and user application software; maintains and repairs routine to complex problems with system hardware and software.

Finally, the Senior IT System Administrator is distinguished from the IT System Architect, which performs full performance information technology work in the planning, designing, developing, and monitoring of information systems utilized within an agency or throughout the city. Additionally, the IT System Architect possess knowledge, skills, and abilities in highly specialized areas (such as Windows, UNIX, Telecommunications, Data Network, and/or Storage Area Network), which provides strong support for the planning, designing, and developing functions performed by the position.

### Essential Duties

Plans and coordinates the setup, installation, and configuration of the operating system (including hardware and software), new software releases, and upgrades.

Monitors, tunes, diagnoses, and resolves complex operating system, application, and database problems; monitors network performance to determine future requirements.

Troubleshoots, maintains, and repairs complex problems, typically related to system failures, with servers, hardware, operating systems, security, applications, database structures, and data protection.

Implements and documents a backup and recovery process and leads capacity planning for a specific data system.

Plans, coordinates, and implements security measures to protect data, software, and hardware.

Develops, tests, and implements complex scripts to automate common functions or system operations.

Consults with users to identify existing system problems then evaluates and recommends various software and hardware solutions to meet user needs.

Analyzes equipment performance records to determine the need for repair or replacement. Recommends changes to improve systems and network performance, and determines hardware or software requirements related to such changes.

Develops, maintains, and publishes complex custom reports.

Consults with users to identify new business requirements then evaluates and recommends software and hardware solutions to meet user needs.

By position, performs lead work over subordinate employees or project management duties.

Performs other related duties as assigned.

Employees may be re-deployed to work in other capacities in their own agencies or in other City agencies to support core functions of the City during a City-wide emergency declared by the Mayor.

Any one position may not include all of the duties listed. However, the allocation of positions will be determined by the amount of time spent in performing the essential duties listed above.

### **Competencies**

**Attention to Detail** – Is thorough when performing work and conscientious about attending to detail.

**Customer Service** - Interacts with customers in a friendly and professional manner, works to resolve issues quickly and effectively, and is knowledgeable about products and services.

**Oral Communication** – Expresses information to individuals or groups effectively; taking into account the audience and nature of the information; makes clear and convincing oral presentations; listens to others, attends to nonverbal cues and responds appropriately.

**Problem Solving** – Identifies problems; determines accuracy and relevance of information; uses sound judgment to generate and evaluate alternatives, and to make recommendations.

**Technical Competence** – Uses knowledge that is acquired through formal training or extensive on-the-job experience to perform one's job; works with, understands, and evaluates technical information related to the job; advises others on technical issues.

**Technology Application** – Uses machines, tools, instruments, or equipment effectively; uses computers and computer applications to analyze and communicate information in the appropriate format.

**Written Communication** – Composes, reviews, edits, and issues written materials for diverse audiences and communicates purpose in a succinct and organized manner that is appropriate for context, time, and place.

### **Knowledge & Skills**

Knowledge of efficient learning techniques to acquire and apply new knowledge and skills; uses training, feedback, or other opportunities for self learning and development.

Knowledge of data processing hardware, monitors, operating system software, application programming and system configuration sufficient to be able to perform the duties related to the work assignment.

Knowledge of current networking and computer trends and technology.

Knowledge of network system hardware, network operating system software, data communications equipment and user-oriented application software packages sufficient to be able to troubleshoot and solve problems.

Knowledge of specifications, uses, and types of computer or computer related equipment.

Knowledge of electronic circuit boards, processors, chips, and computer hardware and software, including applications and programming.

Knowledge of computer network, desktop, server, and mainframe operating systems and their applications.

### Level of Supervision Exercised

By position, performs lead work.

### Education Requirement

Bachelor's Degree in Computer Science, Information Systems, Business Administration, Mathematics or a related field.

### Experience Requirement

Three (3) years of professional Information Technology experience installing, maintaining, and/or modifying application software, operating system and/or network operating system software and associated hardware.

### Education & Experience Equivalency

One (1) year of the appropriate type and level of experience may be substituted for each required year of post-high school education.

Additional appropriate education may be substituted for the minimum experience requirements.

### Licensure & Certification

By position, requires a valid Driver's License at the time of application.

By position, must obtain Criminal Justice Information Services (CJIS) clearance within the probationary period.

Licenses and certifications must be kept current as a condition of employment.

### Working Environment

Work is primarily performed in an office setting and frequently at other locations for meetings. Work involves pressure due to multiple calls and inquiries and is subject to interruption.

### Level of Physical Demand

1-Sedentary (0-10 lbs.)

### Physical Demands

(Physical Demands are a general guide and specific positions will vary based on working conditions, locations, and agency/department needs.):

Agility: Ability to move quickly and easily.

Balancing: Maintaining equilibrium.

Carrying: Transporting or moving an object.

Color vision: Ability to distinguish and identify different colors.

Crawling: Moving about in a low or crouched position.

Crouching: Positioning body downward and forward.

Depth Perception: Ability to judge distances and space relationships.

Eye/Hand/Foot Coordination: Performing work through using two or more body parts or other devices.

Feeling: Perceiving attributes of objects by means of skin receptors, communication, or otherwise.

Field of Vision: Ability to sharply detect or perceive objects peripherally.  
Fine Dexterity: Sufficient coordination to operate a vehicle and manipulate objects.  
Fingering: Picking and pinching, through use of fingers or otherwise.  
Handling: Seizing, holding, grasping, through use of hands, fingers, or other means.  
Hearing/Talking: Perceiving and comprehending the nature and direction of sounds/ability to communicate ideas.  
Hearing: Perceiving and comprehending the nature and direction of sounds.  
Kneeling: Assuming a lowered position.  
Lifting: Moving objects weighing no more than 10 pounds from one level to another.  
Neck Flexion: Perceiving objects located above or below.  
Oral Comprehension: Ability to discern the meaning of oral speech.  
Pulling: Exerting force upon an object so that it is moving to the person.  
Pushing: Exerting force upon an object so that it moves away from the person.  
Reaching: Extending the hands and arms or other device in any direction.  
Repetitive motions: Making frequent or continuous movements.  
Sitting: Remaining in a stationary position.  
Standing: Remaining in a stationary position.  
Stooping: Positioning oneself low to the ground.  
Talking: Communicating ideas or exchanging information.  
Vision Far Acuity: Ability to perceive or detect objects clearly at 20 feet or more.  
Vision Near Acuity: Ability to perceive or detect objects at 20 inches or less.  
Vision: Ability to perceive animal behavior, comprehend signs, and detect color.  
Walking: Ability to move or traverse from one location to another.  
Written Comprehension: Ability to discern the meaning of written words.

### Background Check Requirement

Criminal Check  
Education Check  
Employment Verification  
By position, Motor Vehicle Record  
By position, must obtain Criminal Justice Information Services (CJIS) clearance within the probationary period.

### Assessment Requirement

None

### Probation Period

Six (6) months.

### Class Detail

**Pay Grade:** EX-12  
**FLSA Code:** Y  
**Established Date:** 9/21/2018  
**Established By:** LS  
**Revised Date:** 7/30/2023  
**Revised By:** AM  
**Class History:** 7/30/2023 – Revised licensure & certification and background checks.