



Office of Human Resources
IT Systems Analyst Senior - LI2373

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General Statement of Duties

Performs full performance level professional work analyzing, refining and documenting the business requirements of City department and agency customers included in the development, implementation and production of integrated technology software systems. Creates functional and technical specifications for systems to meet business requirements, while ensuring the integrity of the technical design process. Serves as the end-to-end authoritative technical resource on the business requirements and information needs of customer departments and agencies in all phases of the application and system development life cycles.

Distinguishing Characteristics

This class is the highest level in the Information Technology Systems Analyst class series. It is distinguished from the standard or intermediate level – Associate Information Technology Systems Analyst – by the full performance level of work performed in this class.

All classes in this series are distinguished from the Business Analyst class by the nature of the knowledge requirements needed to successfully perform the assigned work. Positions in the Business Analyst class are responsible for performing business process analysis and redesign. By position, this class also documents the functional business requirements of an assigned business area for IT professionals engaged in applications development. Such positions may require a sophisticated user's knowledge of particular IT business applications and skill in using them, but they do not require broader technical knowledge of IT systems, concepts and methods.

Positions in the Information Technology Systems Analyst class series are assigned work for which technical knowledge of IT systems, technology development concepts and methods, enterprise resource planning (ERP) or other software solutions is required as well as knowledge of the concepts, methods and principles of business process analysis and redesign. Classes in the Information Technology Systems Analyst class series, in addition to writing functional specifications describing the business requirements of a particular area, lead the system logical design process, participate in the technical design of databases, programs and processes and produce documentation which includes technical design specifications for the development of business applications.

The Information Technology Systems Analyst class series is also distinguished from the Information Technology Developer class series and the Information Technology Systems Administrator class series. Classes in the Information Technology Developer class series are assigned professional programming responsibilities and/or non-programming responsibilities whose successful performance requires technical programming knowledge. Classes in the Information Technology Systems Administrator class series perform professional work installing, maintaining, modifying and testing computer network hardware and software.

Essential Duties

Plans and performs business process analysis of major business activities and functions in assigned departments and agencies and guides the subsequent design and implementation or improvement of integrated technology solutions.

Serves as team lead for assigned larger and/or non-routine projects, working with cross-functional teams to address and analyze business requirements and automated systems issues, along with other developmental aspects of assigned projects.

Leads and/or performs requirements gathering, functional decomposition, workflow analyses and logical system design tasks necessary to provide a complete solution for resolving business problems and exploiting integrated technology opportunities. Depending on business areas, applications supported and applicable technologies, this may include:

- performing packaged software gap analysis.
- performing system set up and configuration activities.
- performing work flow analysis and/or implementing workflow automation.
- designing/prototyping user interfaces.
- designing and creating reports or data marts.
- performing systems analysis and logical design activities such as data modeling, entity-relationship diagramming, CRUD (create, revise, update and delete) analysis and logical database design.
- performing object oriented analyses such as domain analysis, event lists, class models, business use cases and activity diagrams.
- creating technical design specifications.

Coordinates and participates in the planning, development and implementation of automated business systems in an effort to align information technology solutions with customer business requirements and initiatives.

Identifies business application and integrated technology opportunities and solutions for resolving business problems.

Reviews and obtains approval of IT service delivery designs, business application and automation prototypes and design specifications.

Plans and executes unit, integration and acceptance testing; writes departmental and agency system documentation; develops and writes training documentation and trains department and agency customers.

Develops or assists with the development of cost estimates, cost/benefit analyses and IT project justifications; develops or assists with the development of funding requests and proposals.

Identifies security and application access needs for department and agency customers; assists with the development of departmental and agency security definitions and profiles; assists with the maintenance of security authorizations; and identifies and develops recommendations for other system controls.

Advises customers on best practices, application customizations and interface strategies. Designs customizations where needed in collaboration with the customer and the technical team.

Coordinates pilot and roll out planning, user enhancement requests and defect tracking.

Utilizes generic tools to analyze and manage data.

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

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.

Reading - Understands and interprets written material, including technical material, rules, regulations, instructions, reports, charts, graphs, or tables; applies what is learned from written material to specific situations.

Reasoning - Identifies rules, principles, or relationships that explain facts, data, or other information; analyzes information and makes correct inferences or draws accurate conclusions.

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.

Technical Problem Solving - Troubleshoots, diagnoses, analyzes, and identifies system malfunctions to determine the source and cause of the problem.

Working with People - Shows respect for the views and contributions of other team members. Shows empathy, listens, supports, and cares for others, and reconciles conflict

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 methods, metrics, tools and techniques of business process reengineering.

Knowledge of the business value of information and the processes for making data available and useful to decision-makers.

Knowledge of systems development life cycle (SDLC) concepts used to plan, develop, implement, operate and maintain information systems, including knowledge of computer-aided software engineering (CASE) tools.

Knowledge of principles and methods to identify, analyze, specify and design technology solutions that meet the client's functional requirements, including translating functional requirements into technical requirements.

Knowledge of architectural methodologies for information systems or applications design and development.

Knowledge of database management systems and their application.

Knowledge of principles, methods and tools for analyzing and developing test and evaluation procedures.

Knowledge of the principles and methods of web technologies, tools and delivery systems.

Knowledge of reporting tools, including data transformation and business intelligence reporting tools, including online analytical processing (OLAP) tools.

Skill in utilizing the principles and practices of effective and persuasive communication to elicit information, negotiate problem resolution and/or garner support for various programs.

Skill in establishing and maintaining working relationships with both internal and external customers – other employees, organizations and the public.

Skill in mapping business processes and comparing those processes to industry best practices.

Skill in synthesizing complex technical information and communicating it clearly to non-technical audiences.

Skill in preparing documentation and complex reports which are clear, concise and present information in a well-organized and efficient manner in both written communications and oral presentations.

Skill in facilitating requirement meetings and in accurately compiling and managing requirements, issues and associated team action items.

Level of Supervision Exercised

By position, may performs project or operational leadwork. May supervise professional support staff or contract employees.

Education Requirement

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

Experience Requirement

Three (3) years of professional level experience working on an integrated technology software system development and/or production support team. Two (2) years of this experience must have included performing project leadwork for routine projects and/or projects that are limited in scope as a member of cross-functional teams to address and analyze business requirements and automated systems issues, along with other development al aspects of assigned projects.

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.

A combination of appropriate education and experience may be substituted for the minimum education and experience requirements.

Licensure & Certification

None

Working Environment

For DPL Positions Specifically:

Potential exposure to hazardous anesthetic agents, body fluids, and bio-wastes.

Atmospheric Conditions: conditions that affect the skin, eyes or respiratory system.

Potential exposure to cold temperature, cold enough to cause bodily discomfort.

Potential exposure to cold weather conditions (indoor/outdoor).

Potential exposure to conditions that affect the skin or respiratory system.

Potential exposure to dust.

Potential exposure to extreme temperature changes.

Potential exposure to hazardous conditions where there is a danger to life, body, and/or health.

Potential exposure to hazardous/toxic chemicals.

Potential exposure to hazards from electro/mechanical/power equipment.

Potential exposure to hazards of steam and heat.

Potential exposure to heat temperatures, hot enough to cause bodily discomfort.
 Potential exposure to hot and humid work environment.
 Potential exposure to housekeeping/cleaning agents/chemicals.
 Potential exposure to infection from disease-bearing specimens.
 Potential exposure to infections and contagious diseases.
 Potential exposure to odorous chemicals.
 Potential exposure to pesticides or fertilizers.
 Potential exposure to the risk of blood borne diseases.
 Potential exposure to temperature changes: variations in temperature from hot too cold.
 Potential exposure to temperature changes: variations in temperature from hot to cold.
 Potential exposure to unpleasant elements (accidents, injuries, and illness).
 Extreme cold conditions.
 Handles emergency or crisis situations.
 Noise sufficient to cause distraction or possible hearing loss.
 Personal Safety: aware of surroundings, people, and events.
 Pressure due to multiple calls and inquiries.
 Subject to long, irregular hours.
 Subject to many interruptions.
 Subject to burns and cuts.
 Subject to electrical and radiant energy hazards.
 Subject to hazards of flammable or explosive gases.
 Subject to injury from moving parts of equipment or vehicles.
 Subject to precarious or high locations.
 Subject to pressure for multiple calls, inquiries, and interruptions.
 Subject to varying and unpredictable situations.
 Subject to traffic, roadways, and pedestrians.
 Subject to vibrations and strain on the body to cause bodily harm if endured daily.
 Temperature Changes: variations in temperature from hot too cold.
 Temperature Changes: variations in temperatures from hot too cold when works in field.
 Wet: frequent contact with water or other liquid.
 Wet: frequent contact with water, liquid, chemicals, or sanitary sewage.
 Works in precarious or high locations

Level of Physical Demand

For DPL Positions Specifically:
 3-Medium (20-50 lbs.) to 4- Heavy Work (50-100 lbs.)

Physical Demands

For DPL Positions Specifically:

(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.
 Climbing: Ascending or descending an object or ladder.
 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.
 Hazards: Conditions where there is danger to life, body and/or health.
 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: By Position, may move objects 20-50 pounds, or 50-100 pounds from one level to another.
 Neck Flexion: Perceiving objects located above or below.
 Physical Strength: Exerts force to transport objects of 50 pounds or more.
 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.
 Stamina: Ability to work over long periods of time without tiring.
 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.
 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

Assessment Requirement

None

Probation Period

None

Class Detail

Pay Grade: EX-12
FLSA Code: Y
Established Date: 9/21/2018
Established By: LS
Revised Date:
Revised By:
Class History: