

CLASS TITLE: SENIOR SOFTWARE ENGINEER

PURPOSE OF THE CLASSIFICATION: Under direction performs systems analysis and design, programming, and maintenance support for data processing and data communications applications of large size and major complexity; and other related required duties.

ESSENTIAL TASKS:

- Coordinates, evaluates, conceptualizes, and designs and maintains computer applications/systems that are characterized as large in size and major complexity, to provide business, scientific and engineering needs and solutions
- Supervisors and leads over developers and analysts
- Initiates evaluation of existing systems and programming logic and revising, where necessary, to insure effective utilization of data processing or hardware resources and optimal performance levels
- Develops bid specs, project charters, and purchase plans
- Ability to manage and train staff on version control systems
- Examines, monitors and recommends solutions to applications and systems
- Researches, analyses and provides recommendations and findings to management
- Ensures City policies are followed with respect to documentation and development standards
- 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: Graduation from an accredited college or university with a bachelor's degree in computer sciences, industrial engineering, mathematics, statistics, business administration, accounting or other related fields, including or supplemented by advanced coursework in computer sciences, and five (5) years' experience in systems analysis and computer programming; or an equivalent combination of training and experience per Personnel Policies and Procedures, Section 128.

Knowledge, Abilities and Skills: Comprehensive knowledge of methods, procedures, and techniques used in systems analysis and design and programming; considerable knowledge of business and/or organizational systems with an emphasis on statistics, planning, procedures, training and motivation; and good knowledge of state-of-the-art data processing and data communication technology and its application. Good knowledge of at least four recognized computer languages, with the ability to program in two. Considerable ability to oversee and review server-side processes, server development and server management. Knowledgeable in web areas including but not limited to (NET, SQL, SharePoint or JavaScript). Ability to work independently and to recognize, analyze, and solve complex programming problems; ability to analyze issues and to formulate sound concepts; ability to train others in basic programming work or related activities; ability to effectively communicate both verbally and in writing; ability to create and conduct technical presentations; and the ability to utilize the highest level of interpersonal skill in order to understand, select, develop and motivate people at any level within or outside the organization.

Physical Requirements: Physical requirements include arm and hand steadiness and finger dexterity enough to use a keyboard and telephone; occasional lifting up to 50 pounds; occasional carrying up to 20 pounds; may be subject to walking or sitting for extended periods of time, standing, reaching, handling, twisting, and climbing; and vision, speech, and hearing sufficient to perform the essential tasks.

Licenses and Certificates: Possession of a valid Oklahoma Class "D" Driver's License.

WORKING ENVIRONMENT: Working environment is primarily indoors, with some traveling to various City locations to provide computer related assistance.

Class Code: 3013

EEO Code: E-02

Pay Code: IS-44

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Group: Clerical and Administrative

Series: Data Processing and Information Services

Effective Date: May 9, 2018