



# CLASS TITLE | SENIOR SOFTWARE ENGINEER

PAY GRADE: IS-44 | [www.cityoftulsa.org/pay](http://www.cityoftulsa.org/pay)

Class Code: 3013

Effective Date: 02/07/2024

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

## 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
- Supervises and leads over developers and analysts (some positions)
- 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
- Reports 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 the following criteria or an equivalent combination of training and experience per Personnel Policies and Procedures, Section 100:

- (a) Completion of one hundred twenty (120) hours from an accredited college or university;
- and,**
- (b) Five (5) years of experience in systems analysis and computer programming

## Knowledge, Abilities and Skills:

Knowledge of:

- 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
- 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
- Knowledgeable in web areas including but not limited to (NET, SQL, MS Power Platform or JavaScript)

Ability to:

- Considerable ability to oversee and review server-side processes, server development and server management
- Work independently and to recognize, analyze, and solve complex programming problems
- Analyze issues and to formulate sound concepts
- Train others in basic programming work or related activities
- Effectively communicate both verbally and in writing
- Create and conduct technical presentations



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- Utilize the highest level of interpersonal skill in order to understand, select, develop and motivate internal and external customers

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 license.

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

**EEO Code: E-02**

**Group: Clerical and Administrative**

**Series: Data Processing and Information Services**