

## CITY OF SAN JOSE

**SYSTEMS APPLICATIONS PROGRAMMER II (F/T) (1341)**  
**SYSTEMS APPLICATIONS PROGRAMMER II (P/T) (1342)**

CLASS PURPOSE

Under general supervision, performs programming analytic work of moderate difficulty. Performs related work as required.

TYPICAL DUTIES AND RESULTS (Any one position may not include all the duties listed, nor do the examples cover all the duties which may be performed.)

Implements the appropriate use of PC and network operating systems technology for efficient management of information.

Reviews and analyzes a wide range of program specifications of average scope and complexity for completeness, compatibility and feasibility.

Prepares detailed documentation and operating instructions for programs of moderate to difficult scope and complexity.

Converts program specification requirements into basic logic patterns through the use of block diagrams, flow charts or other appropriate graphic means.

Prepares flow charts and translates same into machine-run diagram and computer programs.

Confers with Operations, user department personnel, superiors or other technical employees to resolve difficult areas including program intent, input-output requirements, and the use of internal checks and control.

Selects and prepares input data which will verify a program's intended effectiveness.

Reviews and rewrites programs of average scope and complexity, including vendor-supplied software packages, to increase operating efficiency or to update programs to new requirements.

Confers with computer operators in testing and de-bugging programs. Interprets machine halts and corrects error conditions of average scope and complexity.

Assists higher level Programmers by performing programming duties of a limited scope within a larger framework under general supervision.

May train less experienced staff; may also train staff of user departments in systems use; writes user instructions.

Participates in systems design with emphasis in programming.

DISTINGUISHING CHARACTERISTICS

This is the second level in the Systems Applications Programmer Series and incumbents are expected to be able to perform all normal programming functions related to standard jobs not involving unusual applications. Incumbents receive routine analytic assignments as well as straightforward programming work.

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## **SYSTEMS APPLICATIONS PROGRAMMER II (P/T) (1342)**

### QUALIFICATIONS

#### Minimum Knowledges, Skills, and Abilities

Knowledge of the principles of systems applications programming and program documentation procedures.

Knowledge of fundamentals of systems design.

Knowledge of the use of internet technology.

Knowledge of and ability to use graphic user interface technology or application development tools.

Knowledge of and ability to use client/server technology.

Ability to read, interpret, and prepare flow charts.

Ability to prepare test programs; establish and maintain effective working relations with others; express oneself clearly, both orally and in writing.

#### Competency Knowledges, Skills, and Abilities

Knowledge of the principles of program specifications and governmental functions, machine/systems capabilities, program documentation, and citywide/corporate databases.

Knowledge of and ability to implement the use of wireless communication technology.

Ability to write computer programs of average difficulty; analyze a given program and rewrite it to different requirements or to increase operating efficiency.

Ability to use computer programs involved in the performance of job functions.

#### Training and Experience

Any combination of training and experience equivalent to successful completion of advanced undergraduate course work from an accredited college or university in computer science, business administration or related field and two (2) years of computer systems applications programming experience.