PROGRAMMER ANALYST, JAVA

DEFINITION

Performs systems analysis and programming, working with considerable independence on fairly complex systems and programs or on major segments of the most complex projects. Programming responsibilities span a range of platforms and development tools.

TYPICAL DUTIES

Designs information systems that require innovative and/or diversified approaches to the resolution of problems in the areas of data collection, data reduction and coding, systems controls, auditing, processing cycles, and inquiry and reporting.

Uses full capability of web based computing to assist in the design of information systems.

Confers with management, operating unit personnel, and customers to define the scope of the information requirements, and evaluate alternative approaches to improving information systems.

Assists with formulating logical statements of business problems and developing systems designs detailing sequences of operation, systems block diagrams, flowcharts and instructions, and computer programming standards and specifications.

Writes and maintains batch and on-line computer programs including reports and interfaces.

Prepares tests for programs, audits results, and corrects errors in program logic.

Analyzes existing systems and programming logic difficulties and takes corrective action.

Creates job control language for batch operations.

May design, develop, and maintain web and mobile applications.

May participate in the evaluation of new information technology equipment and software.

Performs related duties as assigned.

DISTINGUISHING CHARACTERISTICS AMONG RELATED CLASSES

A Programmer Analyst performs responsible systems analysis and programming on complex projects, assists higher-level programmer analysts on the most complex projects, and may provide work direction and technical assistance to assigned programming personnel.

A Senior Programmer Analyst, working independently or as a project leader, applies advanced technical proficiency in systems design and programming to the analysis of unusually complex management information problems and requirements and the design of improved information systems.

An Assistant Programmer Analyst performs routine programming and performs progressively more difficult assignments in problem analysis and systems design under the work direction of journey-level programming personnel.

SUPERVISION

General supervision is received from supervisory programming personnel. Functional supervision may be exercised over the work of Assistant Programmer Analysts.

CLASS QUALIFICATIONS

Knowledge of:

Principles of Software development life Cycle
Java EE architecture, including JSF/JSP, Oracle, Oracle BPEL, XML/XSD for SOAP web
    services and Ant using various Frameworks like Spring, Hibernate, and ADF
Report development tools such as Crystal Reports, Oracle Reports, Birt, SQL Server Reporting
    Services (SSRS), Tableau, etc.
Java relational database system
Development using PL/SQL, Tomcat and Weblogic, and Eclipse
Web application design and development
Principles of report, form, and screen design
Information technology concepts and capabilities
New trends in the field of information technology
Principles of program documentation
Systems analysis and applications design and data modeling techniques
Mobile application development framework such as Oracle MAF, Cordova, React, Xamarin,
    Vue.js, Angular.js, jQuery, and Kony
English usage, punctuation, and spelling

Ability to:

Analyze business methods and procedures and adapt them to information technology
Analyze existing manual and computerized procedures and develop improvements
Write and code difficult and complex programs or interfaces
Perform quality control analysis of code
Prepare block diagrams and flowcharts
Write clear and logical reports and instructions
Write clear and logical system documentation
Develop test data and analyze problems in programs
Provide technical assistance to staff members with lower-level technical skills
Express complex concepts orally, schematically, and in writing
Work effectively and independently on assigned projects
Work effectively and cooperatively with District personnel
Learn and apply new concepts in information technology
Learn the characteristics of new systems and update skills to adapt to changing technology
Communicate effectively orally and in writing

ENTRANCE QUALIFICATIONS

Education and Experience:

Graduation from a recognized college or university with a bachelor's degree in computer
information systems, computer science, or a closely related field, and two years of
programming experience in a web based environment with extensive experience in software
development, programming, and systems analysis and design for business applications
utilizing Java EE architecture. A Masters degree in Computer Science or closely related field
may substitute for two years of the experience requirement.

OR

Completion of a 30-semester unit certificate program or equivalent in computer information
systems, computer science, or a closely related field, and five years of experience in a web

based environment with extensive experience in software development, programming, and systems analysis and design for business applications utilizing Java EE architecture.

<div align="center">OR</div>

Two years of experience as an LAUSD Assistant Programmer Analyst programming in a Java-based environment utilizing PL-SQL programming objects and Oracle database objects.

Experience with project/personnel management in a team environment and distributed systems are desirable.

<u>Special</u>:

A valid California Driver License.
Use of an automobile.
Employees in this class are subject to call at any hour.

This class description is not a complete statement of essential functions, responsibilities, or requirements. Entrance requirements are representative of the minimum level of knowledge, skill, and/or abilities. To the extent permitted by law, management retains the discretion to add or change typical duties of a position at any time, as long as such addition or change is reasonably related to existing duties.

Revised
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JAP