

SENIOR PROGRAMMER ANALYSTDEFINITION

Under direction, contributes to one or more specialized phases of application systems analysis and programming and/or data base design, programming and management, and provides technical consulting on complex projects.

ESSENTIAL FUNCTIONS INCLUDE BUT ARE NOT LIMITED TO

Formulates and defines systems scope and objectives on medium to large size projects. Prepares estimates of schedule, cost, and resource requirements for development and/or maintenance related projects. Devises or modifies procedures to solve complex problems considering computer equipment capacity and limitation, operating time and form of desired results. Prepares detailed specifications from which programs will be written. Analyzes systems and designs, codes, tests, debugs, documents, and maintains programs with a predefined standard methodology. Designs and develops graphical user interfaces, business rules, reporting, program processing, and data base interfaces. May serve as coordinator and liaison between users and computer operators during production; assigns, supervises, coordinates and reviews the work of principal subordinates and resolves problems arising from work in progress May perform quality assurance review responsibilities. May work on mainframe, mini, and micro host computers. Performs other related functions as assigned.

DISTINGUISHING FEATURES OF THE CLASS

This is the journey level class of the computer programmer series in the Information Services Division. This class is distinguished from the next lower class, Programmer Analyst, by the level of expertise required for applications systems analysis and programming or database management. It's distinguished from the next higher class of Principal Programmer Analyst in that the Principal serves as a project or team leader and assumes responsibility for the most complex assignments.

RECOMMENDED MINIMUM QUALIFICATIONS

Three years experience as a fully qualified programmer with an emphasis on one or more of the specialized assignments (Visual Basic, Oracle, Web) or using Open Systems technology using relational databases including hands on experience in commercial quality development and maintenance. Graduation from an accredited four-year college or university in Computer Science, Information Systems, Data Processing or extensive coursework in computer programming, data base design and development, and client/server systems or any equivalent combination of experience and training that provides the knowledge, skills and abilities listed below.

DESIRABLE KNOWLEDGE, SKILLS AND ABILITIES

Knowledge of: various computer programming languages appropriate to specific business applications or specialized assignments; business processes; operating systems, program libraries, compilation, linkage, overlays, system calls, and database design.

Technical knowledge of: MS Visual Basic, MS SQL Server, Web programming using the VisualInterdev suite; DBMS; Oracle ver. 7.x/8.x and NT/Windows2000 operating system; Oracle Enterprise/2000, Oracle SQL*DBA, Oracle Workgroup/2000, Developer/2000, Designer/2000, and Oracle SQL*Net; ODBC and ActiveX technology; relational and object oriented data base design and programming; data base management theory and practice. Knowledge of Rapid Application Development (RAD) is desired

Skill in: use of tools and techniques of commercial grade programming and data base design; manipulation of electronic devices, computers and a variety of keyboards.

Ability to: code using Structured Query Language (SQL) and Transaction SQL; develop scripts and perform general system maintenance tasks; work efficiently on existing documented systems; work well both independently and as part of a team; perform tasks related to all phases of applications systems analysis and programming; exercise good judgment in decision making; operate with discretion while performing duties which involve highly sensitive data and access to confidential decision processes; analyze system requirements, determine user needs and prepare application requirements, software design descriptions, test procedures and user manuals; establish and maintain effective working relationships with customers, co-workers, vendors, and management at all organizational levels; communicate clearly and effectively both orally and in writing recognize and respond to alarm sounds and equipment-generated signals;

SPECIAL REQUIREMENTS

Possession and retention of a valid California Class C driver's license.

PHYSICAL REQUIREMENT: ability to lift and carry objects weighing up to 40 pounds;

CHARACTERISTICS OF SUCCESSFUL PERFORMERS

The successful performer is flexible when working with others and can adapt as a leader or as part of a team. They are methodical problem solvers and possess excellent decision making skills. Tactful and diplomatic, they use discretion when dealing with sensitive or confidential data.

Change title from Programmer Analyst per Council Resolution No. 74-30,
effective 3-16-74

Class specification prepared and approved: 7/01

ADA Approved: 06/02