

SYSTEMS SOFTWARE INTEGRATOR

NATURE OF WORK

This is responsible application, technical work supporting the development of advanced relational database, Web-based and GIS applications in conjunction with the corresponding application servers, databases and operating systems.

Work involves responsibility for modifying and maintaining the systems components such as application programs, servers, databases and operating systems. Work may also involve capacity planning; resource measurement and reporting; evaluation of new systems; and problem assistance and resolution. Application responsibility may include developing detailed design specifications, documentation and related customer information, programming and/or providing technical assistance to all levels of programming. May be assigned the database administrative functions for non DB2 databases. General supervision is received from a technical or an administrative superior. May assist in training other staff.

EXAMPLES OF WORK PERFORMED

Designs and develops customer systems for relational database, GIS and Web-based applications using the corresponding programming tools, databases, development procedures and computers (hardware); prepares documentation and conducts required testing of systems.

Analyzes, reviews and rewrites systems/programs to increase operating efficiency or to adapt to new requirements; conducts systems/programs maintenance activities.

Designs, develops and integrates database solutions into complex software solutions; integrates databases with Web services.

Participates in the evaluation and research of new databases, new software packages and new hardware tools.

Prepares utilization and system performance reports and statistics; monitors and makes recommendations for improvements.

Designs, implements and maintains complex data bases with respect to performance, organization, security and usage guidelines.

Researches and resolves problems reported by customers or staff; trains and acts as technical advisor for customers and staff.

Performs all duties within the established policies, standards and guidelines of the Information Services Division.

Performs related work as required.

DESIRABLE KNOWLEDGES, ABILITIES AND SKILLS

Thorough knowledge of micro-computer technologies.

Thorough knowledge of web-based development and web master activities.

Thorough knowledge of wireless technology and applications.

Thorough knowledge of relational database program development and administration, design and system integration technology.

Thorough knowledge of the principles, methods and techniques relating to the current versions of computer programming language used in Information Services.

Considerable knowledge of system analysis, programming and related functions.

Knowledge of middleware technology and of system development methodologies.

Ability to exhibit independent judgment and initiative in analyzing computer systems and to make sound recommendations and modifications.

Ability to utilize technical manuals relating to programming language, system operations and data base management.

Ability to establish and maintain effective working relationships with co-workers and customers.

Ability to manage multiple responsibilities concurrently.

Ability to communicate effectively both orally and in writing.

DESIRABLE TRAINING AND EXPERIENCE

Graduation from a senior high school or equivalent supplemented by an associates degree from a vocational or community college with course work in system analysis, programming and computer science plus considerable experience in relational database and Web-based systems, computer programming and/or complex systems analysis work.

MINIMUM QUALIFICATIONS

Graduation from a senior high school or equivalent supplemented by an associates degree from a vocational or community college with course work in system analysis, programming and computer science plus experience in relational database and Web-based systems, computer programming and/or complex systems analysis work; or any equivalent combination of training and experience which provides the desirable knowledge, abilities and skills.

Approved by: _____
Department Head Personnel Director