INFORMATION SYSTEMS PROGRAMMING ENGINEER V

NATURE AND VARIETY OF WORK

This is senior level lead administrative, professional and technical software engineering work. Incumbents work with a great deal of independence in supervising the work of subordinate software development personnel in the design, development, and implementation of software applications, and, managing and performing software development and maintenance activities. Work is performed under the general direction of a designated supervisor and evaluated in terms of adherence to established rules, policies and regulations, and, overall contribution to departmental goals and objectives.

EXAMPLES OF WORK (ILLUSTRATIVE ONLY)

Plans, organizes, and supervises software development activities.

Manages software projects.

Develops long-term strategic goals for software and database development in conjunction with end users, managers, clients, and other stakeholders.

Writes software policies, standards, guidelines, processes, and procedures.

Collaborates on the design of redundant systems, policies, and procedures for disaster recovery to ensure effective availability, protection, and integrity of data and software assets.

Manages the deployment of new applications, software, and database products, services, protocols, standards, and/or enhancements to existing applications throughout the enterprise.

Supervises systems development life cycle phases and tasks.

Plans and implements capacity and resource expansion to ensure scalability of systems and databases.

Writes software according to design specifications and standards.

Designs functional specifications for databases and software applications.

Ensures that new software integration and development projects meet business, functional and system requirements and compliance.

Assigns and evaluates work requirements and outputs.

Analyzes technical specifications of applications under consideration to determine its intended functionality.

Leads subordinate application developers in all phases of work.

Collaborates with analysts, designers, and system owners in the testing and deployment of new software programs and applications.

Evaluates proposals in order to identify potential problem areas and makes recommendations.

Submits recommendations for the development of the budget.

Writes management reports.

Willingly and cooperatively performs tasks and duties which may not be specifically listed in the class specification or position description, but which are within the general occupational category and responsibility level typically associated with the employee's class of work.

REQUIRED KNOWLEDGE, SKILLS AND ABILITIES

Extensive knowledge of standard computer operating environments.

Extensive knowledge of screen and user interface design concepts.

Extensive knowledge of the systems development lifecycle.

Ability to design, develop, and install enhancements and upgrades to systems and application software.

Ability to supervise the work of software development staff.

Knowledge of automated software and system management tools.

Extensive knowledge of system and software quality assurance best practices and methodologies.

Ability to demonstrate technical fluency in programming languages.

Extensive knowledge of project management and lifecycle models.

Extensive knowledge of database design and file management techniques.

Knowledge of current database software, protocols, and standards.

Ability to establish and maintain effective working relationships with other technical staff, vendors, and customers.

Ability to communicate effectively, both orally and in writing, with internal and external customers.

Ability to independently and as a member of a team.

Ability to demonstrate excellence in customer service.

MINIMUM QUALIFICATIONS

Master's degree in computer science, mathematics, or business or public administration, or a closely related field, plus four (4) years of experience in information technology programming, in which at least two (2) years must have involved lead/supervisory duties; or an equivalent combination of education, training, and experience.