

INFORMATION TECHNOLOGY PROGRAMMING ENGINEER IV

NATURE AND VARIETY OF WORK

This is advanced technical software and applications development work. Incumbents work independently and are responsible for applications development projects and performing software development and maintenance activities. Work is performed under the supervision of a higher level programming engineer or designated supervisor, and evaluated for technical adequacy and accuracy and through an appraisal of the effectiveness with which the information needs of departments are fulfilled.

EXAMPLES OF WORK (ILLUSTRATIVE ONLY)

Ensures operating procedures for a variety of applications development activities and work assignments are accomplished.

Develops project plans, establishes timelines, and ensures project completion and deadlines are met.

Leads complex, large scale projects.

Conducts requirements analysis and writes software requirements, functional specifications, formal user and technical documentation for software systems.

Designs software applications utilizing modeling tools.

Designs and develops file structures according to application requirements.

Writes program code and applications and ensures design specifications and standards are met.

Oversees the development of system tests and conversion plans.

Researches and resolves production problems.

Collaborates with network administrators, business analysts, and software engineers to assist in resolving problems with software products or systems.

Ensures training requirements are met and assists with end user training for software systems.

Writes reports for management and/or team members on the status of the programming process.

Writes data processing instructions for operating personnel.

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

Thorough knowledge of standard computer operating environments.

Thorough knowledge of database concepts.

Thorough knowledge of screen and user interface design concepts.

Experience with modeling tools.

Experience in software development.

Thorough knowledge of software development life cycle methodologies.

Ability to lead development team through the software development life cycle process.

Thorough knowledge of project management practices.

Ability to identify, troubleshoot, and correct production processing problems.

Ability to provide technical guidance to subordinate applications developers.

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

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

Ability to work independently and as a member of a team.

Ability to demonstrate excellence in customer service.

MINIMUM QUALIFICATIONS

Bachelor's Degree in computer science, mathematics, business or public administration, or a closely related field, plus at least three (3) years of experience in information technology programming with at least one (1) year of project lead responsibilities; or an equivalent combination of education, training and experience.