



CLASS SPECIFICATION

Class Code: 60015840
Date Established: 08/1993
Last Reviewed: 10/2021
Last Revised: 10/2021
Last Title Change: 05/2006
FLSA: exempt
Probation: 12 months

SENIOR TECHNOLOGY SYSTEMS DEVELOPER

DEFINITION

Under general supervision, provides continuing user support by identifying and analyzing problems, determining the feasibility of solutions, and designing new computer applications; and performs related work as required.

EXPERIENCE AND TRAINING REQUIREMENTS

A bachelor's degree from an accredited college or university in computer information systems, geographic information systems or a closely related field, AND three years of full-time experience as a systems developer, two years of which included systems analysis and design; OR an equivalent combination of education and experience.

LICENSE OR CERTIFICATE

A valid driver's license may be required at the time of appointment.

DISTINGUISHING CHARACTERISTICS

Incumbents in this classification perform the full range of system and application development assignments. This classification is distinguished from the Technology Systems Developer I and II by its focus on systems analysis and serving as a team leader with project management responsibility. This class provides for a GIS option in which incumbents would be required to perform specialized duties related to that option. This class also allows for additional specialized experience and training requirements based on the area of assignment.

SUPERVISION EXERCISED

May function as a team or project lead providing technical leadership and direction to project teams.

EXAMPLES OF DUTIES *(The following is used as a partial description and is not restrictive as to duties required.)*

Meet with departmental staff to gather and analyze information regarding current and projected information technology through staff interviews, conduct of workflow studies, cost/benefit analysis, and hardware and software research.

Provide lead direction in a specific technology services program or project; train staff to ensure activities are performed within established standards and regulations; conduct needs assessments and develop goals and objectives for program activities.

Determine requisite needs and recommend the purchase of the development of new applications, modification of existing applications, or upgrading of automated information systems.

Prepare written and oral presentations for user departments and Technology Services management staff, presenting alternatives and their feasibility.

Coordinate implementation of new automated systems and applications with user departments, including development and implementation of testing procedures, preparation of program specifications, and development of user procedures.

Coordinate user training on system operations, establish system security and access rights, and communicate system capabilities.

Provide continuing support for system operations, including troubleshooting failures and resolving problems regarding system malfunctions.

Provide project management, which includes responsibility for project planning and estimation of resources, project assignments, conversion, and implementation.

Assist departments with the development of long-range information technology plans by identifying potential problems, new technology available, and cost/benefits of options.

Coordinate interactions between Technology Services staff, vendors, consultants, and users in developing solutions to user problems.

GIS Option:

Perform above duties with emphasis on Geographic Information System applications.

Perform analytical computer modeling utilizing data from a variety of sources to produce requested maps and reports.

Spatial database development and analysis of GIS systems.

Develop Internet and intranet web pages for GIS products.

Create cartographic products, analyze data, create reports, and provide results using verbal and written communication.

JOB RELATED AND ESSENTIAL QUALIFICATIONS

Full Performance *(These may be acquired on the job and are needed to perform the work assigned.)*

Knowledge of:

Operating methods and procedures for Washoe County data processing equipment and software, including methods used in the development of computer programs, documentation, and procedural manuals.

Operations, functions, and computer applications of assigned departments.

Departmental/division policies and procedures.

Ability to:

Perform the full range of application and specification development, including analysis of user needs and development and modification of user applications to meet those needs.

GIS Option:

Knowledge of:

Operating methods and procedures for Washoe County GIS database and software, including methods used in the development of spatial applications, documentation, and procedural manuals.

GIS applications of assigned departments.

Department/division policies and procedures.

Ability to:

Perform the full range of GIS application and specification development, including analysis of user needs and development and modification of user applications to meet those needs.

Entry Level (*Applicants will be screened for possession of these through written, oral, performance, or other evaluation methods.*)

Knowledge of:

Principles, methods and techniques of information technology development, design, implementation, and systems analysis.

Common programming languages.

Job planning, budget monitoring, scheduling, and prioritization techniques.

Program specification development, computer programming, and documentation techniques.

Local area networks and personal computers.

Ability to:

Analyze work systems and design information technology and develop specifications, including hardware and software selection.

Develop tests to validate systems and program designs.

Recognize and troubleshoot software and hardware problems.

Prepare system documentation and operating procedures manuals.

Prepare and present detailed oral and written reports.

Maintain effective working relationships with department staff and representatives of other departments.

GIS Option:

Knowledge of:

Principles, methods, and techniques of geographic information technology application development, design, implementation, analysis, and documentation.

Principles and practices of cartography which includes knowledge of photogrammetry and remote sensing.

Ability to:

Perform difficult and complex GIS professional and technical work including spatial relational database development and complex application development and design.

SPECIAL REQUIREMENTS (*Essential duties require the following physical skills and work environment.*)

Ability to sit for extended periods. Ability to frequently stand, walk, stoop, and kneel. Ability to use data processing and associated equipment. Ability to work in an environment with controlled temperatures.

This class specification is used for classification, recruitment and examination purposes. It is not to be considered a substitute for work performance standards.