

GIS TECHNICIAN II

DISTINGUISHING FEATURES OF THE CLASS: This is specialized technical work of a moderately complex nature involving the use of Geographic Information System (GIS) technology primarily in the planning and development of computer-generated maps and GIS databases. The work differs from that of a GIS Technician I in the degree of independent responsibility and complexity of assignments. The work is performed under the general supervision of a higher-level GIS administrator and work guidance (e.g., lead work) may be provided to others. Does related work as required.

TYPICAL WORK ACTIVITIES:

Develops and/or oversees the development of computer-generated maps and/or GIS databases, products and applications;

Provides technical assistance, including instruction, database development and basic programming to staff and other County departments;

Provides input in the development of policies and procedures by gathering information and making effective recommendations;

Collects and analyzes GPS data, as well as provides instruction in the use of GPS software and hardware;

Oversees and participates in the analysis of spatial data and conducts field work, as necessary;

Oversees the completion of computer-generated maps and the GIS database and coordinates the development of same;

Provides assistance to the general public in the viewing of existing map products and aerial photography;

Develops procedures for file management, security, documentation, and distribution of computer-generated maps and GIS data;

Researches and provides input for GIS hardware and software, including acquisition of GIS data;

Meets with outside consultants with respect to the development of GIS applications;

Prepares and presents GIS demonstrations to County personnel and the public;

Prepares a variety of reports, including those related to specific GIS studies, including maps, graphs, and tables;

Attends workshops and seminars to keep current with emerging GIS technology.

FULL PERFORMANCE KNOWLEDGE, SKILLS, ABILITIES AND PERSONAL CHARACTERISTICS:

Good knowledge of the general principles, practices and techniques of Geographic Information Systems (GIS), as applicable to County, municipal and regional government; good knowledge of software (ArcGIS, ArcView); good knowledge land and other spatial data, aerial photography, remote sensing, GPS, desktop mapping, publishing, web and database applications; good knowledge of GIS fundamentals, including geocoding, address matching, topology, interpolation of linear and non-linear data and relational databases; working knowledge of GIS programming languages; ability to gather, develop, maintain and analyze vector and raster data as well as non-spatial data; ability to analyze departmental needs and to customize computer mapping and graphics applications; ability to understand and interpret complex written materials; ability to prepare reports, including those related to GIS; ability to communicate effectively both orally and in writing; ability to establish and maintain cooperative relationships with others.

MINIMUM QUALIFICATIONS: A Bachelor's degree in Geographic Information Systems (GIS), Geography, Geology, Environmental Science, Planning or comparable curriculum and three (3) years of work experience in the development and/or maintenance of GIS programs or applications.

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NOTES:

1. Three (3) additional years of work experience in the development and/or maintenance of GIS programs and applications may be substituted for the specialized Bachelor's degree (i.e., a Bachelor's degree in any other major will be required).
2. A Master's degree or higher in Geographic Information Systems (GIS), Geography, Geology, Environmental Science, Planning, or comparable curriculum may be substituted for one (1) year of the required experience.

PROMOTION: One (1) year of permanent status as a GIS Technician I.