

GIS TECHNICIAN III

DISTINGUISHING FEATURES OF THE CLASS: This is specialized technical work of complex nature responsible for the use of Geographic Information System (GIS) technology for the planning and development of computer-generated maps and GIS databases. The work differs from that of a GIS Technician II in the independence of some decision-making responsibility and the complexity of assignments. The work is performed under the direct supervision of a higher-level GIS administrator and work guidance (e.g., lead work) may be provided to lower-level GIS staff. Does related work as required.

TYPICAL WORK ACTIVITIES:

Develops and oversees computer-generated maps and GIS databases, products and applications;
Provides technical assistance and interact with County departments, and users regarding a County-wide (GIS) program that generates spatial information (e.g. land-use database, etc.);
Customizes databases for individual applications using diverse data structures in an enterprise environment and may coordinate the implementation of applications;
Develops complex queries for the application of the County's system in order to meet the needs of users;
Assists in developing and implementing quality control procedures and methods and audit database usage in order to ensure compliance with GIS technology and program standards;
Assists with the maintenance and productions of land base parcel dataset (e.g. tax maps);
Oversees and participates in the analysis of spatial data and conduct field work;
Prepares and provides GIS instruction and demonstrations to County personnel and the public;
Develops procedures for file management, security, documentation, and distribution of computer-generated maps and GIS data and suggests changes as needed;
Researches and provides recommendations of GIS hardware and software, including acquisition of GIS data;
Reviews, interprets, and coordinates the use of legal documents (e.g., legal descriptions of deeds, surveys) and use pertinent technology to ensure the accuracy of tax maps (e.g., ownership, subdivision);
Meets with outside consultants with respect to the development of GIS applications;
Consults with County Clerk's office, Real Property Tax office, and local assessors to maintain tax maps;
Provides troubleshooting and support to county departments on all GIS-related programs and issues;
Oversees and completes GIS related projects and ensures compliance with established project objectives;
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;
May assist in the development of the Rockland County GIS program by researching and analyzing pertinent information such as emerging GIS technology, reviews current policies and procedures and provides recommendations, assesses needs of users, maintains databases, etc.

FULL PERFORMANCE KNOWLEDGE, SKILLS, ABILITIES AND PERSONAL CHARACTERISTICS:

Thorough knowledge of the principles, practices and techniques of Geographic Information System (GIS), applicable to County, municipal and regional government; thorough knowledge of GIS software (e.g. ArcGIS, ArcView); good knowledge of 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; good 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 coordinate GIS related projects;

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ability to understand and interpret complex written material; 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 four (4) years of work experience in the development, implementation and/or maintenance of GIS programs or applications.

NOTE: A Master's degree or higher in Geographic Information Systems (GIS), Geography, Geology, Environmental Science, Planning, or comparable curriculum may be substituted for two (2) years of the required experience.

PROMOTION: Two (2) years of permanent status as a GIS Technician II.