

GEOGRAPHIC INFORMATION SYSTEMS MANAGER

JOB CODE:	3090
LOCATION:	Tioga County Information Technology and Communication Services (ITCS)
CLASSIFICATION:	Competitive
SALARY:	Management/Confidential
ADOPTED:	3/05; Revised 4/05, 01/20, 8/20 Tioga Co. Personnel & Civil Service and County Legislature (Reso 120-05)

DISTINGUISHING FEATURES OF THE CLASS: This position is responsible for the formulation of policies, business practices, and the overall development and management of the County's Geographic Information Systems (GIS) Program. The incumbent will supervise related technical activities, and provide for the planning and implementation of County-wide GIS infrastructure, system design, projects, and applications. GIS will include: computer systems, cartographic, photogrammetric, spatial information and related data. The incumbent will develop agreements, contracts and systems for acquisition and/or use of this information. The GIS Manager will work with County departments and municipalities to implement programs and procedures incorporating the use of GIS technology and spatial information into their operations, and to ensure that data can be interfaced and shared in an appropriate and cooperative manner. This position will act as a principle representative and manager within the GIS community to assist in the coordination of regional and New York State based GIS initiatives. The work is performed under the general direction of the Chief Information Officer with allowance for a high level of autonomy and independent judgment when carrying out the responsibilities of the position. Supervision is exercised over a small number of subordinate GIS-related positions. Does related work as required.

TYPICAL WORK ACTIVITIES:

- Coordinates County-wide GIS programs involving the cooperation and participation of County departments and municipalities and determines policies and priorities within the programs in conjunction with the county's GIS Advisory Board;
- Coordinates departmental and intergovernmental committees related to the design, development, population, and use of GIS databases and related cartographic issues;
- Develops and implements contracts related to GIS projects, data acquisition, and other related GIS activities with County departments, other public entities, and private agencies;
- Works with state and local public officials as well as private agencies to explore program opportunities in support of local GIS cartography and databases;
- Coordinates with the Real Property Tax Service Office for the maintenance of County Tax Maps and other information;
- Works with ITCS staff on the continual development/improvement of systems to provide access by various County departments;
- Provides leadership and technical expertise in the development of GIS projects within various County departments and external organizations;
- Develops long-term plan applications, business practices and annual operating plans with input from various county departments, ITCS and GIS-related staff, and municipalities;
- Develops and applies an evaluation strategy designed to improve the efficiency and operations of the GIS Program;
- Insures customer satisfaction, provides feedback to customers on status of requests;
- Communicates with dissatisfied customers to better implement future requests and solve immediate problems;
- Assists the Director of Information Technology and Communication Services with budgetary and other financial activities to secure operating and personnel resources to implement the GIS program's long range goals and annual objectives;
- Assists the Director of Information Technology and Communication Services in the research and preparation of applications for state, federal and private grants;
- Analyzes GIS user needs and system resources for the purpose of developing project specifications, flow charts, schedules, and programming from inception to conclusion;
- Promotes policies and systems for public access to County records and GIS data;
- Incorporates current GIS management practices related to data acquisition and maintenance programs;
- Evaluates and make recommendations on policy to improve databases linked to the GIS;
- Develops and links databases pertaining to property, demography, infrastructure and related information to a county reference base map;

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- Promotes procedures to standardize databases and protocols for inclusion into the County's geographic information system and data repository;
- Plans and oversees the procurement of aerial photography and GIS data for the support of mapping and cartographic functions;
- Develops and recommends policies to improve the accuracy of the County's reference base maps;
- Directly supervises subordinate GIS positions other support staff assigned to the design, development (including data entry), and production of GIS applications and techniques;
- Develops and maintains work production schedules;
- Develops a curriculum for GIS training for staff within various County departments and conducts or oversees training in group sessions or one-on-one as-needed basis;
- Coordinates the work of support staff in providing analytical services to County departments;
- Promotes the use and understanding of Tioga County's GIS program and related technology through a public information and educational campaign including public presentations, demonstrations, the writing of articles, and interaction with the community.

FULL PERFORMANCE KNOWLEDGE, SKILLS, ABILITIES AND PERSONAL CHARACTERISTICS: Thorough knowledge of mapping, database and related software necessary to perform and supervise tasks associated with the design, development, management and maintenance of a county or enterprise GIS; thorough knowledge of principles and practices of geographic information systems development and planning; thorough knowledge of methodologies and approaches in developing GIS applications for use by various County Departments; thorough knowledge of advanced GIS and cartographic concepts and terminology; excellent verbal and written communication skills; good interpersonal skills necessary to communicate with diverse public interests to facilitate meetings and/or negotiate difficult issues pertaining to inter-municipal arrangements or county-wide GIS concerns; ability to read and interpret, scientific, technical and policy related reports; ability to plan and supervise the work of support staff; ability to prepare well-constructed oral and written communications, reports, contracts, etc.; ability to maintain good rapport with staff, state and local public officials and the general public; ability to train GIS users and work effectively with people at different skill levels; physical condition commensurate with the demands of the position.

MINIMUM QUALIFICATIONS EITHER:

- a) Graduation from a regionally accredited or New York State registered college or university with a Master's degree in Natural Resources, Geography, Photogrammetry, Cartography, Regional Planning, Public Administration, or related field **AND** two (2) years of full-time experience involving geographical information system policy, planning, and/or development, one (1) year of which was in either a supervisory capacity or in a project leadership role which involved the coordination of work groups and / or overall responsibility of meeting project goals; **OR**
- b) Graduation from a regionally accredited or New York State registered college or university with a Bachelor's degree in Natural Resources, Geography, Photogrammetry, Cartography, Regional Planning, Public Administration, or related field **AND** four (4) years of full time experience involving geographical information system policy, planning and/or development, two (2) years of which was in either a supervisory capacity or in a project leadership role which involved the coordination of work groups and / or overall responsibility of meeting project goals; **OR**
- c) An equivalent combination of training and experience equal to, or higher than that described in a) and b) above.