MAPPING TECHNOLOGIST

DISTINGUISHING FEATURES OF THE CLASS: The work involves responsibility for the creation, data input, mapping and maintenance of the Geographic Information System (GIS) and applications such as computer mapping, database development, programming, and support systems for use on a GIS database. The incumbent also performs a variety of office and field assignments in connection with departmental related projects. The work is performed under the general supervision of the department head or another member of management.

TYPICAL WORK ACTIVITIES: (Illustrative Only)

- Responsible for the management of mapping information and development of Geographic Information Systems/System layer including web services;
- Participates in and provides project leadership in the development, implementation and maintenance of Geographic Information Systems for use by City departments;
- Receives and responds to requests for GIS support by providing technical assistance to users/department personnel and assists in defining the practical aspects of GIS applications;
- Performs technical GIS analysis, project management & support;
- Develops and maintains GIS infrastructure & security;
- Trains end users in use GIS applications and technologies;
- Ensures the quality of contractor prepared mapping materials;
- Prepares and publishes maps for consumption on the Internet;
- Explores new mapping technologies and applications;
- Enters and retrieves information in an automated information system;
- Does related work as required.

REQUIRED KNOWLDEGE, SKILLS, ABILITIES AND PERSONAL CHARACTERISTICS:

- Good knowledge of automated mapping standards and systems;
- Working knowledge of GIS and CAD tools for the production of high accuracy base maps;
- Working knowledge of the principles and practices of drafting and graphics;
- Working knowledge of acceptable methods of data collection, analysis, and interpretation;
- Working knowledge of open source mapping technologies;
- Working knowledge of relational databases such as MS-SQL and MySQL;
- Working knowledge of ArcGIS;
- Ability to prepare and analyze data in a wide variety of digital formats;

- Ability to convey GIS/spatial information to non-GIS/technical people (i.e. Communication, Written, Oral, and Cartographic);
- Ability to install and configure mapping server and infrastructure in both a Windows and Linux Environment;
- Physical condition commensurate with the requirements of the position.

MINIMUM QUALIFICATIONS:

A. Graduation from a regionally accredited or NYS registered college or one accredited by the NYS Board of Regents to grant degrees with a Bachelor's Degree (or higher) in Planning, GIS, Surveying or Computer Science which must have included or been supplemented by credited courses in Geographic Information Systems or Cartography; **OR**

B. Graduation from a regionally accredited or NYS registered college or one accredited by the NYS Board of Regents to grant degrees with an Associate's degree in Planning, GIS, Surveying or Computer Science which must have included or been supplemented by credited courses in Geographic Information Systems or Cartography and two (2) years of full-time paid experience (or it's part-time equivalent) working with Geographic Information Systems; **OR**

C. Graduation from high school, or possession of a high school equivalency diploma, and four (4) years of full-time paid experience (or it's part-time equivalent) working with Geographic Information Systems.

NOTE:

- A valid NYS Driver's License is required at the time of appointment and for the duration of employment.

- The terms of employment may require the use of an employee's personal vehicle for transportation.

- Position may require ability to work Saturdays, Sundays, and holidays; and able to work shift assignments during the day, evening and nights.

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