G.I.S. (GEOGRAPHIC INFORMATION SYSTEM) ANALYST

DISTINGUISHING FEATURES OF THE CLASS: This is professional work involving the use of GIS in environmental, hydrological and land use analyses for Delaware County's Department of Planning and Economic Development. Work will focus on Delaware County's phosphorus reduction program in the New York City Watershed and will also involve a variety of planning, economic development and environmental projects. Duties are performed under the general supervision of the County Planning Director or his/her designee with leeway allowed for the exercise of independent decision-making. Supervision may be exercised over the work of administrative staff. Does related work as required.

TYPICAL WORK ACTIVITIES: **(Illustrative Only)** Performs statistical analysis and land use analyses, locates suitable sites for businesses and industry, and performs environmental and hydrological modeling with the GIS; Technically plans and executes GIS projects in conjunction with phosphorus reduction and various County Planning and Economic Development projects; Creates and manipulates environmental data for use in the County's GIS database; Uses Global Positioning System (GPS) equipment to collect and process site specific GIS data; Interface with Information Technology creating maps, analyzing data for planning practices, collecting and organizing data for map making and processing data for inclusion in the GIS platform; Assists with town planning advisory services; Updates and maintains department webpage; Prepares maps of spatial data and analyses for various audiences including department staff, governmental officials and other agencies; Prepares and maintains a variety of complex written records and reports; Attends meeting and conferences as assigned; Performs general office duties as required.

FULL PERFORMANCE KNOWLEDGE, SKILLS, ABILITIES AND PERSONAL CHARACTERISTICS: Thorough knowledge of Arc Info and ArcView GIS software products; Thorough knowledge of web design and webpage development; Good knowledge of the GIS and its use in conducting spatial analysis and in support of environmental and hydrological modeling and land use analyses; Good knowledge of statistical analyses; Good knowledge of GIS terminology; Good knowledge of raster data sets and raster GIS software; Good knowledge of database programming Microsoft access and excel; Familiarity with GPS data collection and post data processing; Ability to prepare and maintain complex records and reports; Ability to work independently; Sound judgment; Initiative; Dependability; Physical condition commensurate with the demands of the position.

MINIMUM QUALIFICATIONS: Either

A. Graduation from a regionally accredited or New York State registered college with a bachelor's degree in GIS/CAD, Computer Information Systems or Information Technology with related computer training and (1) one year of fulltime paid experience in GIS/CAD applications; OR

B. Graduation from a regionally accredited or New York State registered college with a bachelor's degree in a related field and (1) one year of GIS/CAD experience.

C. Graduation from a regionally accredited or New York State registered college with an associate's degree in GIS/CAD, Computer Information Systems, Information Technology or related field with (3) three years' related computer training including (2) two years' of GIS/CAD experience.

Adopted 3/24/00
Reviewed 2/14/01; 2/18/14
Revised 8/17/22; 10/27/22