

PROGRAMMER / ANALYST (GIS)

DISTINGUISHING FEATURES OF THE CLASS:

This is a more advanced position in the programmer series with programming tasks and projects of greater scope and difficulty than those assigned to other programmers. The position also involves entry-level systems analysis tasks, including working on subsystems of large projects or complete systems work for smaller projects. The position differs from other Programmer / Analyst positions in that it specializes in applications working with the Geographical Information System (GIS). Work is performed under the general supervision of a higher level employee. Supervision of others may be a function of the position.

TYPICAL WORK ACTIVITIES:

The following is indicative of the level and types of activities performed by incumbents in this title. It is not meant to be all inclusive and does not preclude a supervisor from assigning activities not listed which could reasonably be expected to be performed by an employee in this title.

1. Codes GIS applications using GIS software macro languages, COM compliant development languages such as Visual Basic, and RDBMS software through the use of SQL;
2. Makes modifications to existing GIS applications;
3. Imports data into GIS database, maintaining established standards for level of accuracy;
4. Develops related internet applications;
5. Prepares user and computer operating instructions;
6. Assists in developing and conducting training programs for GIS related system users;
7. Keeps abreast of GIS technology, networking and platform dependent technical issues and applies to work as necessary.

FULL PERFORMANCE KNOWLEDGE, SKILLS AND ABILITIES:

Knowledge of GIS programming languages and techniques sufficient to develop, modify and document a wide range of applications;

Knowledge of the current principles, practices, methods, techniques and capabilities of high speed electronic data processing for both mainframes and networked microcomputers sufficient to code and link GIS applications within a complex system of platforms;

Knowledge of the principles and practices of systems analysis sufficient to independently develop small projects under the general supervision of others;

Ability to understand and follow complex oral and written instructions;

Ability to communicate effectively, both orally and in writing;

Ability to establish and maintain effective working relationships;

Ability to develop and carry out training programs for users of developed applications;

Personal characteristics necessary to perform the duties of the position;

Physical condition commensurate with the demands of the position.

PROGRAMMER / ANALYST (GIS) (Cont'd)

MINIMUM QUALIFICATIONS:

Graduation from high school or possession of a high school equivalency diploma AND:

- EITHER: (A) Graduation from a regionally accredited or New York State registered college or university with a Bachelor's degree in Geographical Information Systems (GIS), geography, urban planning, or a closely related field and AND one (1) year of paid work experience which primarily involved working in GIS and web-based programming languages;
- OR: (B) Graduation from a regionally accredited or New York State registered college or university with an Associate's degree in GIS, geography, or a closely related field and AND three (3) years of work experience as indicated in (A) above;
- OR: (C) An equivalent combination of education and experience between the limits of (A) and (B) above.

SPECIAL REQUIREMENT:

An appointing authority may require the possession of a New York State Driver License at time of appointment.

ADOPTED: 01/01/00
REVISED: 03/01/00
 06/08/15