

GEOGRAPHIC INFORMATION SYSTEM PROGRAMMER ANALYST 1**Nature of Work**

Under general supervision, at the entry level, performs technical work in geographic information systems (GIS) and will follow one of two career paths: 1) GIS analysis; 2) application design and programming. One of the above mentioned career paths or tracts will be emphasized. Work will involve design and maintenance of data resources and operation of GIS software within the context of programs and policy directives. Work will also include GIS analysis, application development, user support, and other GIS related activities. Performs related work as required.

Distinguishing Characteristics

This is entry level work where the incumbent is given less complex assignments and the work is reviewed regularly. However, as skills are demonstrated, the incumbent advances to less routine assignments and performing independently.

Examples of Work

- Performs GIS analysis.
- Analyzes user organization functional requirements and develop GIS application designs.
- Writes and tests GIS application programs; prepares documentation of GIS application programs.
- Prepares GIS application user manuals; trains user staff in the operation of GIS applications.
- Provides user support for GIS application programs.
- Performs GIS hardware and software operations; performs activities associated with implementation, operation, and enhancement of the GIS software.

Knowledge, Skills and Abilities

- Knowledge of GIS software used by employing agency.
- Knowledge of automated mapping and spatial information processing methods and techniques.
- Knowledge of the capabilities of automated mapping and geographic information processing systems.
- Knowledge of cartographic design and drafting principles and automated mapping.
- Knowledge of GIS hardware and software components, data communication, and network methods and techniques.
- Ability to support GIS application programs.

GEOGRAPHIC INFORMATION SYSTEM PROGRAMMER ANALYST 1 (CONT'D)**Knowledge, Skills and Abilities (cont'd)**

Ability to reason logically and to communicate effectively with system users to translate application concepts into system applications.

Ability to translate technical concepts and terminology in terms understandable to system users.

Ability to establish and maintain effective relationships with user departments, administrative officials, and employees.

Minimum Qualifications

Training: Bachelor's degree, including six semester hours in computer science or GIS from an accredited college or university. Preference may be given to those with degrees in geography, cartography, geology, forestry, natural or earth sciences, environmental sciences, engineering, engineering technology, mathematics, computer science, planning or a related field.

Substitution: A professional diploma from National Geospatial-Intelligence College of the National Geospatial-Intelligence Agency may substitute for the training.

Established: 03/16/95
Title Change: 04/18/02
Revised: 04/18/02, 2/10/10
Effective: 05/01/02