

## **GIS TECHNICIAN II**

**DISTINGUISHING FEATURES OF THE CLASS:** This is specialized technical work of a moderately complex nature involving the use of Geographic Information System (GIS) technology primarily in the planning and development of computer-generated maps and GIS databases. The work differs from that of a GIS Technician in the degree of independent responsibility and complexity of assignments. The work is performed under the general supervision of the Director, GIS, and work guidance (e.g. lead work) may be provided to others. Does related work as required.

### **TYPICAL WORK ACTIVITIES:**

Develops and/or oversees the development of computer-generated maps and/or GIS databases, products and applications;

Provides technical assistance, including instruction, database development and basic programming to staff and other County departments;

Provides input in the development of policies and procedures by gathering information and making effective recommendations;

Collects and analyzes GPS data, as well as provides instruction in the use of GPS software and hardware;

Oversees and participates in the analysis of spatial data and conducts field work, as necessary;

Oversees the completion of computer-generated maps and the GIS database and coordinates the development of same;

Provides assistance to the general public in the viewing of existing map products and aerial photography;

Develops procedures for file management, security, documentation and distribution of computer-generated maps and GIS data;

Researches and provides input for the acquisition of GIS data, software and hardware, when appropriate;

Meets with outside consultants with respect to the development of GIS applications;

Prepares and presents GIS demonstrations to County personnel and the public;

Prepares reports and memoranda on specific GIS studies, including maps, graphs and tables;

Attends workshops and seminars to keep current with emerging GIS technology.

### **FULL PERFORMANCE KNOWLEDGE, SKILLS, ABILITIES AND PERSONAL CHARACTERISTICS:**

Good knowledge of the general principles and techniques of Geographic Information Systems (GIS), as applicable to County, municipal and regional government; good knowledge of ArcGIS and/or ArcView software; good knowledge of GIS-related software, including remote sensing, GPS, desktop mapping, publishing, web and database applications; good knowledge of GIS fundamentals, including geocoding, address matching, topology, interpolation of linear and non-linear data and relational databases; working knowledge of GIS programming languages; ability to gather, develop, maintain and analyze vector and raster data as well as non-spatial data; ability to analyze departmental needs and/or department operations and to customize computer mapping and graphics applications accordingly; ability to understand and interpret complex written materials; ability to communicate effectively both orally and in writing; ability to establish and maintain cooperative relationships with others.

(over)

**MINIMUM QUALIFICATIONS:** A Bachelor's degree in Geography, Geology, Environmental Science, Planning or comparable curriculum and three (3) years of work experience in the development and/or maintenance of GIS programs in a large scale government, corporate or academic setting.

**NOTES:**

1. Graduation from high school or possession of an equivalency diploma and additional years of work experience in the use of GIS technology may be substituted for college on a year-for-year basis, up to a maximum of four (4) years.
2. A Master's degree in Geography, Geology, Environmental Science, Planning, or comparable curriculum may be substituted for one (1) year of the required experience.
3. Three (3) additional years of work experience in the development and/or maintenance of GIS programs in a large scale government, corporate or academic setting may be substituted for the specialized Bachelor's degree (i.e., a Bachelor's degree in any other major will be required).

**PROMOTION:** One (1) year of permanent status as a GIS Technician I.