



SC – PAY GRADE 16

## **GIS PROGRAMMER ANALYST I**

### **DUTIES AND FEATURES OF THE CLASS**

The incumbent in this class performs duties related to the development, enhancement, and application of the County's Geographic Information Systems (GIS) resources. Incumbent is responsible for assisting in designing, maintaining, and implementing services and project support related to ArcGIS desktop, ArcGIS Pro, web and mobile applications. Exercises skills and knowledge of application design, scripting, data conversion, data management and security, problem solving, communication and critical thinking.

### **EXAMPLES OF WORK**

Conducts complex geospatial and geographic network inquiries and disseminates the results via the web; resolves network routing; creates and publishes GIS services; designs, develops, and maintains web-based geospatial applications; creates scripts to convert, manipulate and load data into files compatible with a variety of software applications; uses ArcGIS Web AppBuilder, ArcGIS Python API, HTML, CSS, ArcGIS JavaScript API, SQL, and other tools to implement, support and/or automate GIS solutions; provides technical assistance for County staff and stakeholders related to the operation of GIS applications; performs other duties as assigned.

### **REQUIRED KNOWLEDGE SKILLS AND ABILITIES**

Strong knowledge and skills in the ESRI ArcGIS platform (ArcGIS Online, ArcSDE, ArcGIS Server, ArcGIS Desktop, ArcGIS Pro); strong knowledge of HTML, CSS, JavaScript, Python, SQL; ability to design, code, document, test, debug and maintain computer application programs; ability to read, edit and maintain existing code; ability to develop and test desktop, mobile, server, and cloud based GIS applications; ability to create and maintain web-based applications and materialize GIS-related mapping projects for County staff; knowledge of the methods and techniques used for automated data conversion, data analysis and interpretation, mapping, and reporting results, map research, compilation, drafting, editing, and replication; ability to prepare, produce and maintain computer-generated maps and cartographic products as well as maintain automated maps and other data accurately and systematically; ability to prioritize, plan, design, coordinate and lead projects; ability to conduct research and field work pertaining to mapping and geographic information projects; ability to establish and maintain effective working relationships with department heads, staff, general public and representatives from other agencies; ability to understand and work from oral and written directions; ability to adapt, learn and implement new GIS technologies as the industry evolves.

## **QUALIFICATIONS**

Minimum of Bachelor's Degree with at least one (1) year experience in automated mapping, Geographic Information Systems, cartography, geography, planning, civil engineering, surveying or computer-aided design and drafting; experience with ArcGIS suite background is required; excellent verbal and written communication skills; excellent organizational and customer service skills; proficient in Microsoft Office (Outlook, Word, Excel); experience in reading plans and plots is preferred.

## **ADDITIONAL REQUIREMENTS**

- Direct Deposit Required
- 35-hour work week (Monday - Friday)
- Pre-Employment Background Screening
- Pre-Employment Drug/Alcohol Testing

Revised 3/2020