

**MONTGOMERY COUNTY GOVERNMENT, VIRGINIA  
POSITION DESCRIPTION**

**TITLE: GIS ANALYST**

**GENERAL DESCRIPTION**

The essential function of the position within the organization is to create maps and drawing for the Montgomery County Public Service Authority (PSA) and the public that allow for the examination, dissemination, formation, and analysis of spatial and database information relative to public water and sanitary sewer systems and projects. The position is responsible for creating and maintaining spatial data, geodatabases, modeling and analyzing geospatial data, collecting GIS field data, and providing advanced level program support to PSA end users. The position works under general supervision of PSA engineering staff and may independently developing work methods and sequences.

**PRIMARY DUTIES:** *This list represents the essential tasks performed by the position. Employees may be assigned additional duties by management as required.*

Creating and maintaining spatial data.

Collecting GIS field data.

Modeling, analyzing, correlating, and evaluating public water and sanitary sewer data.

Maintaining external and internal websites for viewing and extracting public water and sanitary sewer data.

Updating, revising, and maintaining public water and sanitary sewer maps.

Extracting, manipulating, and customizing data from engineering project drawings and/or other databases.

Developing water and sanitary sewer project drawings in AutoCad or similar software packages.

Compilation of reports based upon collected data.

**DATA RESPONSIBILITY:** *Data refers to information, knowledge, and conceptions obtained by observation, investigation, interpretation, visualization, and mental creation. Data are intangible and include numbers, words, symbols, ideas, concepts, and oral verbalizations.*

Compiles, examines, or evaluates data or information and possibly recommends action based on results.

**PEOPLE RESPONSIBILITY:** *People refers to individuals who have contact with or are influenced by the position.*

Provides assistance to people to achieve task completion; may instruct or assign duties to coworkers.

**INVOLVEMENT WITH THINGS:** *Things refers to inanimate objects such as substances, materials, machines, tools, equipment, work aids, or products. A thing is tangible and has shape, form, and other physical characteristics.*

Leads or handles machines and office equipment involving moderate latitude for judgment regarding attainment of standard or in selecting appropriate items.

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**ASSETS RESPONSIBILITY:** *Assets responsibility refers to the responsibility for achieving economies or preventing loss within the organization.*

Requires some responsibility for achieving minor economies and/or preventing minor losses through the handling of or accounting for materials, supplies, or small amounts of money.

**SAFETY OF OTHERS:** *Safety of others refers to the responsibility for other people's safety, either inherent in the job or to assure the safety of the general public.*

Requires no responsibility for the safety and health of others.

**MATHEMATICAL REQUIREMENTS:** *Mathematics deals with quantities, magnitudes, and forms and their relationships and attributes by the use of numbers and symbols.*

Uses practical application of fractions, percentages, ratios and proportions, measurements, or logarithms; may use algebraic solutions of equations and equalities, deductive geometry, and/or descriptive statistics.

**COMMUNICATIONS REQUIREMENTS:** *Communications involves the ability to read, write, and speak.*

Reads technical instructions, charts, and/or procedures manuals; composes routine reports and completes job forms; speaks compound sentences using standard grammar.

**COMPLEXITY OF WORK:** *Complexity of work addresses the analysis, initiative, ingenuity, creativity, and concentration required by the position and the presence of any unusual pressures.*

Performs skilled work involving rules/systems with almost constant problem solving; requires normal attention with short periods of concentration for accurate results and occasional exposure to unusual pressure.

**IMPACT OF DECISIONS:** *Impact of decisions refers to consequences such as damage to property, loss of data or property, exposure of the organization to legal liability, or injury or death to individuals.*

Makes decisions with moderately serious impact - affects work unit and may affect other units or citizens.

### **EDUCATION AND EXPERIENCE REQUIREMENTS**

**EDUCATION REQUIREMENTS:** *Education requirements refers to job specific training and education required for entry into the position.*

Requires bachelor's degree in Engineering, Computer Science or a related field. Must have a working knowledge of AutoCad and ArcGIS.

**LICENSES, CERTIFICATIONS, AND REGISTRATIONS REQUIRED:** *Licenses, certifications, and registrations refers to professional, state, or federal licenses, certifications, or registrations required to enter the position.*

Valid Virginia drivers license

**EXPERIENCE REQUIREMENTS:** *Experience refers to the amount of work experience that is required for entry into the position that would result in reasonable expectation that the person can perform the tasks required by the position.*

Requires two years of related experience.

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### **AMERICANS WITH DISABILITIES REQUIREMENTS**

**PHYSICAL DEMANDS:** *Physical demands refers to the requirements for physical exertion and coordination of limb and body movement.*

Requires sedentary work involving standing or walking for brief periods, exerting up to 50 pounds of force on an occasional basis, and some dexterity in operating machines and office equipment.

**UNAVOIDABLE HAZARDS:** *Unavoidable hazards refers to unusual conditions in the work environment that may cause illness or injury.*

The position is exposed to no unusual environmental hazards.

**SENSORY (ADA) REQUIREMENTS:** *Sensory requirements refers to hearing, sight, touch, taste, and smell necessary to perform the tasks required by the position efficiently.*

The position requires normal visual acuity and field of vision, hearing, speaking, and color perception.

### **AMERICANS WITH DISABILITIES ACT COMPLIANCE**

The Montgomery County Government of Virginia is an Equal Opportunity Employer. ADA requires the County to provide adequate accommodations to qualified persons with disabilities. Prospective and current employees are encouraged to discuss ADA accommodations with management.