



HUMAN RESOURCES DEPARTMENT

POSITION DESCRIPTION

TITLE: Senior GIS Technician **LAST UPDATED:** January 18, 2016
DEPARTMENT: Information Technology **JOB CLASS:**
REPORTS TO: GIS Coordinator **FLSA DESIGNATION:** Exempt

Summary: Under general supervision of the GIS Coordinator, oversees a variety of Geographic Information Systems (GIS) databases, documentation and map layers; manages data conversion for all new development in the city; coordinates citywide GPS program; inputs geographic data from a variety of sources and produces high quality outputs as needed.

The intent of this position description is to provide a representative summary of the major duties and responsibilities performed by incumbent(s) in this position. Incumbent(s) may not be required to perform all duties in this description and incumbent(s) may be required to perform position-related tasks other than those specifically listed in this description.

Essential Job Functions:

- Manages data conversion projects for all new development and maintains relationship with conversion vendor.
- Coordinates Citywide GPS program including procurement and management of devices, trains end users, organizes data collection efforts and processes GPS data.
- Maintains a variety of GIS layers and databases including street, parcel, subdivision, and utility data while adhering to organizational quality standards.
- Interprets and transfers data from source documents including digital and/or printed plats, record drawings, plans, profiles, and legal descriptions.
- Locates and compiles data sources.
- Collects and/or oversees collection of field data using GPS.
- Performs quality control for database maintenance; researches and corrects data issues.
- Provides technical support to city staff in the use of GIS related and integrated programs to accomplish and support intra-departmental and inter-departmental projects and programs.
- Drafts special project exhibits as needed by various City departments and divisions.
- Geocodes data files using GIS software.
- Designs and develops a variety of map layers and databases for City-wide GIS operations.
- Creates and maintains documentation for GIS feature classes, applications, and procedures
- Assists in establishing data preparation standards and procedures to ensure data standardization and integrity and to optimize section productivity.
- Creates and customizes existing program features using VBA.
- Operates and maintains data input/output devices.

Other Important Duties:

- Travels to off-site meetings, conferences and training.
- Regular and consistent attendance for the assigned work hours is essential.
- Performs other related duties as assigned.

Required Knowledge and Skills:

- Proficiency with ESRI ArcGIS software and extensions with a strong working knowledge of Traverses, Conversion Tools, ArcSDE, and database integration.
- Proficient with Trimble GPS Products, Terrasync and Pathfinder Office.
- Ability to read and interpret Construction and AsBuilt Plans.



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- Ability to read and interpret data from surveyors and engineers.
- Knowledge of the design, development, and manipulation of a GIS, Local and Wide Area Networks, Global Positioning Systems, databases and general office software.
- Knowledge of research and technical support techniques.
- Knowledge of City policies and procedures.
- Skill in effective oral and written communications.
- Skills in designing, developing, and maintaining documentation for GIS feature classes, applications, and procedures.
- Skill in effectively managing multiple projects, assignments and duties.
- Skill in resolving customer complaints and concerns.

Preferred Education, Experience, and Certifications:

- Bachelor's Degree or Certification in GIS, Geography, Planning or related field; **and** four (4) years experience with ArcGIS, SQL Server, Microsoft Office Products, Visual Basic and/or Python experience; **or** equivalent combination of education and experience.
- Must pass a pre-employment drug screen, criminal background check, MVR check and physical agility assessment.
- Must possess State of Texas Drivers License.

Environmental Factors and Conditions/Physical Requirements:

- Work is performed in office and outdoor environments.
- May be subject to repetitive motion such as typing, data entry and vision to monitor.
- May be subject to walking over rough terrain, bending, reaching, or kneeling while collecting field data.
- May be subject to exposure to extreme weather conditions
- Must be able to lift and carry 50 pounds.

Equipment and Tools Utilized:

- Equipment utilized includes personal computer, GPS, copier, calculator, fax machine, and other standard office equipment and department vehicles.

Approved By:

Signed by Susan Olson, IS and GIS Manager
Susan Olson, IS and GIS Manager

On 04/12/2013
Date

Shannon Allyn, Human Resources Generalist

04/12/2013
Date