



LAKEHAVEN WATER AND SEWER DISTRICT Job Description

POSITION TITLE GIS ANALYST III - IT (SENIOR) (LEVEL 13)	
DEPARTMENT: INFORMATION TECHNOLOGY	SUPERVISOR: GIS SUPERVISOR
FLSA STATUS: NON-EXEMPT	INCUMBENTS(S):
SII CODE: 5306	REVISION DATE: 2022-03-22
REPRESENTED BY: AFSCME	REVIEW DATE:

JOB SUMMARY:

This is an experienced lead position demonstrating effective communications skills and technical expertise in GIS, CAD, engineering related work, contract plan preparation, and performance of technical tasks and projects for the District. Responsible for acquiring, creating, maintaining, and analyzing geospatial and tabular geographic information system (GIS) data and metadata. Responsible for and manages the District's record drawings, maps, exhibits, and tasks or projects as assigned. Prepares, reviews and archives project documents including correspondence, worksheets, plans, maps and exhibits. Serves as the District's technical resource for and coordinates with District departments, sections, external agencies, consultants, engineers and others on GIS, computer-aided-drafting (CAD), plan preparation, facility record and data management; and keeps current with regulations, standards, related technologies and accepted best practices pertaining to the District's GIS and CAD.

Work is generally performed under general supervision.

ESSENTIAL JOB FUNCTIONS:

- Maintains regular, predictable attendance.
- Physical ability to conform with all safety requirements.
- Performs administrative GIS tasks, including coordination with Information Services (IS) staff, data stewards and other stakeholders for GIS server management and security, preservation of GIS data integrity, development of standard operating procedures and associated work flows for data updates and validation, and support of other data management and reporting software and tools.
- Performs technical GIS tasks, including data editing; review and incorporation of external data and imagery; GIS-based analysis; and support of GIS-based programs.
- Serves as technical lead(s) for all GIS related requests and queries.
- Responsible for and coordinates GIS, CAD System, and engineering projects with other District staff, consultants, developers and their engineers, surveyors, architects and contractors as well as representatives of other agencies, as appropriate.
- Assists in the development and administration of adopted, GIS and CAD operating budgets.
- Assists staff by clearly articulating orally and in writing, the standards, policies and

procedures for use of the District's GIS, CAD software, and related programs.

- Under the direction of GIS Supervisor, researches, compiles and prepares and/or reviews electronic and printed communications, maps, graphics, agreements, easements and/or other documents in response to customer inquiries, and/or in support of other District staff, consultants or external agencies.
- Resolves and provides assistance and training on matters relating to preparation, and management of plans, exhibits, and similar record or reference documents, and utilization of GIS and CAD capabilities.
- Assists other engineering technicians with technical duties and developing solutions.
- Responsible for: preparing exhibits as requested using ArcGIS, AutoCAD and/or other markup and collaboration software (e.g., Bluebeam) as appropriate and available.

ADDITIONAL DUTIES AND RESPONSIBILITIES:

- Designs improvements and prepares plans for projects as directed.
- Coordinates with other staff for export of geospatial and cartographic GIS information, and import and incorporation of Geographic Positioning System (GPS)-acquired coordinate information into GIS.
- Under the direction of GIS Supervisor, coordinates with Information Systems (IS) and Operations staff with enhanced integration of GIS and Cityworks Asset Management System, ITpipes TV inspection software, and District permitting and billing software.
- Assists with conducting meetings with consultants, developers and their agents, District staff and/or external-agency representatives.
- Responsible for document management, including filing, scanning of print and reformatting electronic media such as technical and project records, permits, reports and related documents, and identifying, sorting and preparing documents for archiving.
- Meets and consults with citizens, customers, private engineering consultants, construction contractors, land owners/developers, lawyers, representatives of other governmental agencies, and other interested parties concerning the planning, design, construction and management of public works projects and smaller engineering related assignments.
- Performs administrative tasks including planning, preparation of forms and reports, database development, revisions and maintenance, budget assistance, and other tasks as assigned.
- Prepares, reviews and processes project plans and related documents to ensure conformance with the District's standards, policies and procedures, and applicable rules and regulations of jurisdictional agencies.
- Checks and maps parcels, rights-of-way, easements and legal descriptions in connection with District facilities, improvement districts, service area and corporate boundaries, watersheds, and other areas and improvements as necessary.
- Provides GIS and CAD training for District staff.
- Develops specifications for GIS or CAD projects as necessary.
- Participates in local and regional user group meetings to provide District perspective and acquire information on GIS initiatives, capabilities, and projects.
- May function as the intergovernmental liaison and District representative for project review, development/implementation, and public meetings.
- Performs or delegates other duties as assigned.

EDUCATION AND EXPERIENCE:

- Four (4) year degree in GIS is desirable, or Two (2) year degree - AA in Civil Engineering Technology or GIS, AND six (6) years of increasingly responsible experience; four (4) years of which must have been directly related to water/wastewater engineering, design and/or plan preparation using GIS operations, and AutoCAD; OR an equivalent combination of education and experience.

- Additional desirable experience held by job candidates includes a minimum of three (3) years of experience with Web and/or Esri GIS application design and programming, four (4) years of Python (or any other scripting) language experience, experience using SQL Server, ArcGIS API for JavaScript, and customizing Web AppBuilder widgets.

KNOWLEDGE SKILLS AND ABILITIES:

- Thorough knowledge of the principals of GIS, its uses and applications.
- Working knowledge of AutoDesk Infrastructure Design Suite (Civil 3D, Map, etc.) and associated software, and their use for District projects, maps, exhibits, and GIS.
- Working knowledge of Esri software and its use in the management, maintenance and development of the District’s GIS and related programs.
- General working knowledge of GIS application development and programming
- Working knowledge of computer systems, MS Office and related technologies.
- Working knowledge of accepted professional civil engineering, drafting and cartographic practices, contract administration, inspection practices, basic surveying principles and practices and permitting processes relating to water and sewer facilities design and construction.
- General understanding of design, construction and maintenance of water/sanitary sewer underground utilities, as well as water well or water filtration facilities and wastewater treatment facilities.
- Demonstrated knowledge interpreting legal descriptions and converting to COGO.

GENERAL REQUIREMENTS:

- Ability to communicate courteously, effectively, tactfully, and maintain confidentiality.
- Demonstrate good written and oral communications skills.
- Ability to carry out oral and written instructions.
- Ability to organize and prioritize workload.
- May perform task/job duties of other work unit positions in order to balance workload and/or cross train personnel.
- Proficiency with common office practices, equipment and software.
- Follow all safety requirements set forth by District policy, State and Federal codes.
- Follow all District Policies and Procedures.
- Other duties as assigned.

SPECIAL REQUIREMENTS:

- Must have valid WA State Driver's license.
- GISP (GIS Professional) certification desired.

WORK ENVIRONMENT:

- Work is generally performed in an office environment.
- May require shift, weekend and holiday work as required by emergency or work assignment.
- Anticipated to respond in emergency situations.

MACHINERY, TOOLS, EQUIPMENT, PERSONAL PROTECTIVE EQUIPMENT:

PHYSICAL DEMANDS:

N: Never (not at all)

O: Occasional (1-33% of the time)

F: Frequent (34%-66% of the time)

C: Constant (67%-100% of the time)

STRENGTH: Sedentary Light Medium Heavy Very Heavy

	Frequency	Comments	
Sitting	C		
Standing	O		
Walking	O		
Driving	O		
Lifting: 25 lbs.	O		
Carrying: 25 lbs.	O		
Push/Pull: 25 lbs.	O		
Climbing Stairs/Ladders	O		
Working at Heights/Balancing	O		
Bending at Waist	O		
Twisting at Waist	O		
Crouching/Kneeling	O		
Crawling	O		
Reaching	O		
Repetitive Motion	F		
Handling/Grasping	O	Pinch Grasp %	Whole Hand Grasp %
<i>Comments for line above:</i>			
Fine Finger Manipulation	C		
Talking	F		
Hearing	C	Indoors %	Outdoors %
Seeing	C		
Temperature Extreme	N		
<i>Comments for line above:</i>			
Vibration	O		
Other			

The statements contained herein reflect general details as necessary to describe the principal functions of this job, the level of knowledge and skill typically required, and the scope of responsibility, but should not be considered an all-inclusive listing of work requirements. Individuals

may perform other duties as assigned including work in other functional areas to cover absences or relief, to equalize peak work periods or otherwise to balance the workload.

This job description does not constitute an employment agreement and may be changed or amended at any time to meet the needs of the District.