MOUNTAIN REGIONAL WATER
JOB DESCRIPTION

Job Title: **Staff Engineer** Effective: ~~07/23~~ /25

Department: **Engineering** Pay Grade: 19

GENERAL PURPOSE

Provides engineering services to the District as required: assists in all water system design activities for the District; implementation of water quality programs; manages federal, state, and local regulatory requirements; complete various District engineering analyses as required. Assists the District Engineer on specific engineering tasks as assigned.

SUPERVISION RECEIVED

Receives direction from the District Engineer.

ESSENTIAL JOB FUNCTIONS

Assists the District Engineer with all water system design activities for the District including system expansion due to customer growth, facility upgrades, new facility design.

Prepares technical studies, reports and applications pertaining to planning, construction and permitting of water facilities.

Assists in District distribution water quality programs. Works with the Operations Director, ~~and~~ Distribution System Manager, and District Engineer in the design and direction of distribution water quality improvement programs and regulatory requirements.

Lead external development plan and project review. Aid development construction

administration with Project Coordinator working towards District acceptance of new system infrastructure. Review development plats and ensure necessary easements are in place to protect District infrastructure.

Maintains and updates the District's hydraulic model. Prepares complex models and analysis of District water facilities and new development.

Responds to external fire flow analyses as required.

Ensures the District is meeting all federal, state, and local regulatory and compliance requirements. Maintains relationships with Utah's Division of Drinking Water. Reports on, and prepares for, changes in drinking water regulations.

Manages annual Summit County Concurrency Program including reports, analysis, and coordination with Project Coordinator.

Assist with District capital projects focusing on distribution system infrastructure. Develop project design, scope, schedule, and budgets. Coordinates with engineering consultants as required.

Performs capital project construction administration. These tasks focus on distribution system infrastructure and include bidding assistance, submittal review, site inspections, pay requests, change orders, and working towards final completion of projects.

Assists with pump selection and performance evaluation at District booster pump stations. Implement pump performance tracking to identify replacements and maintenance as needed.

Manage annual supply and demand reporting for internal District projections and Utah Division of Water Rights compliance. Annual review of pump station and storage capacity utilizing system demand data.

Assists the Technology and Energy Department with water loss tracking and analysis.

Assists in the building and ongoing support of the District asset management program to minimize cost and risk of owning and operating assets over their life cycle while meeting service standards for customers.

Coordinates across departments to assess asset status, needs, risks, goals and progress. Facilitate long range strategic planning and maintenance of key water infrastructure assets. Incorporate this analysis into District Capital Improvement Plans to optimize District assets.

Attends meetings as needed or required.

MINIMUM QUALIFICATIONS

1. Bachelor's Degree in Civil Engineering, Environmental Engineering or related engineering field.

   AND

   A minimum of three years' experience as an engineer in a drinking water related field

   OR

   An equivalent combination of education and experience

2. Knowledge, Skills, and Abilities:

   Knowledge of engineering practices and principles related to design, construction, operation, and maintenance of water facilities.

   Knowledge of water production, storage, treatment, and distribution guidelines and practices.

   Knowledge of state and federal rules and regulations pertaining to water facilities.

   Knowledge of laboratory procedures and sampling techniques.

   Knowledge of current computer and technological developments in water including hydraulic modeling, SCADA, and GIS applications.

   Ability to communicate effectively, both verbally and in writing, and to prepare complex, written studies, plans, correspondence, and reports, both timely and accurately.

   Ability to work independently.

   Ability to read and comprehend detailed plans and engineering documents.

   Ability to establish and maintain effective working relationships with engineers, contractors, developers and District staff.

3. Special Qualifications (Certifications, Licenses)

   Professional Engineer's (PE) License is preferred

WORK ENVIRONMENT

Performs in:

1. A typical office setting with appropriate climate controls. Tasks require variety of physical activities, not generally involving muscular strain, such as walking, standing, stooping, sitting, or reaching. Rapid work speed sometimes required; attention to detail. Common eye, hand, finger, leg and foot dexterity exist. Mental application utilizes memory for details, verbal instructions, emotional stability, discriminating thinking and some creative problem solving;

2. The outdoor mountainous environment. Tasks require a variety of physical activities related to site inspections and construction management in rough terrain.

3. While performing the duties of this job, the employee is occasionally required to sit, stand, climb, balance, stoop, kneel, crouch, crawl, walk, run, jump; to use hand to finger, handle, or operate objects, tools, or controls, and reach with hand and arms. The employee is occasionally required talk, hear, taste and smell.

   Specific vision, abilities required by this job includes close vision, distance vision, color vision, peripheral vision, depth perception, and the ability to adjust focus.

   Mental application utilizes memory for details, verbal instructions, emotional stability, and creative problem solving.