

**MOUNTAIN REGIONAL WATER
JOB DESCRIPTION**



Job Title: Water Resources Engineering Intern

Effective: 10/22/2026

Department: Engineering and Development

Pay Grade: 8

GENERAL PURPOSE

Assists the Engineering and Development Department with engineering, water resource analysis, and system planning tasks. Working directly with the Staff Engineer, this role focuses heavily on maintaining, updating, calibrating, and running simulations on the District's hydraulic model, alongside supporting water supply projections, water loss tracking, and asset management data.

SUPERVISION RECEIVED

Receives direct supervision and project guidance from the Staff Engineer, under general oversight from the District Engineer.

ESSENTIAL JOB FUNCTIONS

Assists the Staff Engineer with updating, maintaining, and calibrating the District's hydraulic model, including integrating new developments, maintaining settings and controls, and running extended period simulations including water quality analysis.

Runs hydraulic model simulations to perform fire flow availability analyses and assess system capacity for proposed developments and capital improvement projects.

Collects, organizes, and integrates field test data, such as pressure logger records and hydrant flow tests, to calibrate hydraulic model.

Assists with collecting and analyzing system production and customer demand data for annual supply and demand reporting and state regulatory compliance.

Supports water loss tracking and energy performance analysis for pump stations in coordination with the Staff Engineer and Technology team.

Assists in attributing and verifying infrastructure data between GIS, hydraulic modeling software, and the District's asset management program.

Prepares maps, exhibit drawings, technical memos, and reports to document modeling results and engineering evaluations.

Assists in the building and support of the District's asset management program, including asset data collection, attribute verification, and supporting the integration and implementation of the District Enterprise Asset Management (EAM) software solution.

Accompanies engineering and operations staff in the field to assist with site reviews as needed.

Attends meetings as needed or required.

MINIMUM QUALIFICATIONS

1. Currently enrolled in an accredited college or university pursuing a Bachelor's Degree (typically Junior or Senior standing) or Master's Degree in Civil Engineering, Environmental Engineering, Water Resources Engineering, or a related field.

AND

Completion of foundational coursework in fluid mechanics, pipe hydraulics, hydrology, or water resources.

OR

An equivalent combination of education and experience

2. Knowledge, Skills, and Abilities:

Knowledge of basic engineering practices and principles related to water resources and hydraulics.

Knowledge of hydraulic modeling software (such as WaterGEMS, InfoWater, or EPANET) and GIS applications.

Knowledge of data analysis tools and spreadsheet software. Ability to read and comprehend detailed plans, utility maps, standard drawings, and engineering documents.

Ability to communicate effectively, both verbally and in writing, and to assist in preparing technical reports and summaries.

Ability to establish and maintain effective working relationships with District staff and project partners.

Ability to work independently and in a team environment.

3. Special Qualifications (Certifications, Licenses)

Must possess a valid Utah Driver's License.

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.