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Job Specifications

Senior Water Resources Engineer

Division/Department: Engineering Division/Water Resources Department

Reports To: Water Resources Department Manager

Type of Position: Full-time Part-time

Hours: 40/week

Status: Exempt Nonexempt

General Statement

This position is responsible for providing engineering support and analysis for Northern Water and the Subdistrict, focusing on project operations modeling, water resources planning, and hydrologic modeling.

Duties and Responsibilities

- Solves operational problems on projects. Responsible for timely solutions.
- Assigns and directs work of professional and technical personnel, provide technical guidance and quality control checks.
- Provides engineering support for Northern Water and Subdistrict projects, policies, water supply development, water conservation, and drought planning.
- Conducts operation analyses of project operations using water resource planning models, and work collaboratively with other department staff in preparing models for planning studies and investigations.
- Conducts hydrologic studies and investigations using existing water resource planning models.
- Responsible for the development and implementation of software tools to implement complex forecasting, runoff, and demand models, including both surface and groundwater operations models.
- Provide engineering support for Northern Water and Subdistrict projects in the areas of water supply planning, water operations, hydrologic forecasting, water resources policy, and water rights analysis.
- Other duties as assigned.

Training Experience and Education Requirements

Training Experience Required

- Minimum of eight years water resources or related professional work experience.

Education Required

- B.S. in Water Resources Engineering, Civil Engineering, Environmental Engineering, or Agricultural Engineering. MS Preferred.

Knowledge, Skills, and Abilities

Extensive knowledge in the areas of:

- Water Resources Engineering principles and fundamentals and their relevant applications to Northern Water and Subdistrict projects and operations.
- Understands and can demonstrate application of complex water rights, hydrologic modeling, and river/reservoir operations engineering studies and analyses.
- Water Resources modeling applications such as Riverware, MODSIM, StateMod, MODFLOW, CSU IDSCU and CSU-AWAS is preferred.
- Spreadsheet/database applications, statistical programs, and program languages, Geographical Information Systems (GIS), and word processing programs.
- Statistical and probability applications relevant to water resources related problems.
- Climate and hydrologic systems.
- Familiarity with the operation of the C-BT and Windy Gap Projects is desired.
- Colorado water law.
- Administration of South Platte River Basin and Colorado River Basin water rights.

Skills:

- Public speaking.
- Report writing.
- Organizational skills such as team concepts, task scheduling, and task prioritization.
- Working independently.

Physical Requirements

- Walking and climbing stairs daily.
- Sustained operation of keyboard devices.
- Prolonged sitting, standing, and walking in performance of daily activities.
- Ability to lift, drag, or push boxes, paper, and documents weighing up to 25 pounds.

Reasonable accommodations will be made to enable qualified individuals with disabilities to perform the essential functions.

License, Certificate, or Credential Requirements

- Professional Engineering License (PE) required
- Valid driver's license

Other Requirements

- Maintains a personal appearance appropriate for job position and image of Northern Water.

This job description in no way states or implies that these are the only duties to be performed by this employee.

Northern Water is an equal opportunity employer.