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Northern Water
220 Water Avenue
Berthoud, CO 80513 careers@northernwater.org Preferred

Posted: July 19, 2019
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Job Specifications

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

Under direct supervision of the Water Resources Department Manager, this entry level position provides engineering support and analysis for Northern Water and the Municipal Subdistrict, focusing on water resources engineering, water resources planning modeling, and hydrologic modeling.

Duties and Responsibilities

- Assists with water resources planning and water operations studies from concept to completion.
- Analyze, gather and assemble data to assist in identifying engineering and planning problems.
- Analyze routine technical, engineering and operational problems.
- Assist with the development of independent water resources planning models using appropriate software and data inputs.
- Performs studies and operational analyses with water resource planning models developed by Northern Water personnel or by outside contractors.
- 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.
- Perform other duties as assigned.

Training Experience and Education Requirements

Training Experience Required

- No related work experience required. One to three years water resources or related professional work experience preferred.

Education Required

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

Knowledge, Skills, and Abilities*General familiarity and knowledge in the following areas:*

- Engineering fundamentals and general principles for water resources engineering.
- Experience with 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.
- Microsoft Office products such as Excel, Access, Word, and PowerPoint.
- Statistical and probability applications relevant to water resources related problems.
- System and reservoir operations modeling.
- 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

- The Fundamentals of Engineering (FE) certificate or the ability to pass the FE within two years of hire date
- 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.