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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 II

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 general supervision of the Water Resources Department Manager, this 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

- Manage and complete planning studies from concept to completion.
- Conducts the operation and maintenance of water resource planning models developed by Northern Water personnel or by outside contractors.
- Manage and develop independent water resources planning models using appropriate software and data inputs.
- Analyzes Colorado-Big Thompson Project operations and performs water resources investigations.
- Provides 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.
- Identify and analyze routine and complex technical, engineering and operational problems. Review and perform related studies, calculations and analyses.
- Perform other duties as assigned.

Training Experience and Education Requirements

Training Experience Required

- Minimum four 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

Knowledge in the following areas:

- Water Resources Engineering principles and fundamentals and their relevant applications to Northern Water and Subdistrict projects and operations.
- 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.
- 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

- Professional Engineering License (PE) required or the ability to obtain one within one year of employment
- 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.