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

Posted: January 20, 2020
By: LB
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By:

Job Description

Water Quality Engineer

Division/Department: Environmental Services Division / Water Quality Department

Reports To: Water Quality Manager

Type of Position: Full-time

Status: Exempt

General Statement

This position is responsible for assisting with the identification, assessment and resolution of water quality issues associated with Northern Water's projects. This position shall work with the Senior Water Quality Engineer and other Water Quality staff to support modeling, water quality analysis, technical studies and other activities.

Duties and Responsibilities

- With oversight and guidance from the Water Quality Manager or from Senior and Principal Water Quality Engineers, performs special studies, analyzes complex datasets, reports findings of water quality investigations and reviews and designs monitoring programs;
- Prepares detailed technical reports and analyses;
- Performs applied watershed and water quality modeling including setting up models for scenario simulations, input preparation, processing of model outputs, model validation, documentation of results and performing model upgrades as needed;
- Performs statistical and other data analyses;
- Prepares graphical and tabular data summaries;
- Develops new tools and methods to enhance reporting and assessment capabilities of the Water Quality Department;
- Represents Northern Water at water quality meetings;
- Presents findings and water quality information to a variety of audiences (staff, Board, consultants, constituents and partner agencies);
- Manages, handles and analyzes collected data;
- Maintains databases;
- Acts as a liaison with other data users and data generators;
- Provides assistance with the preparation and documentation of meetings;

- Provides Project Management for projects of moderate complexity;
- Manages consultants for projects of moderate complexity;
- Other duties as assigned.

Training Experience and Education Requirements

Education

- Bachelor's degree in Engineering (Civil, Environmental or Biosystems) with an emphasis on water resources, or watershed science or a related and associated field with course work related to the watershed and environmental sciences (e.g. hydrology, aquatic ecology, limnology, wetlands, soils, biogeochemistry, water quality modeling, water and wastewater treatment etc.).
- Master's degree required. PE desired.

Experience

- A minimum of five years' experience in, and knowledge of, water quality issues in Colorado.
- Database management, water quality modeling and scripting and coding.

Knowledge, Skills, and Abilities

Knowledge

- Water quality issues in Colorado, watershed-based planning and watershed management principles;
- The Clean Water Act and regulatory framework;
- Database management;
- Knowledge of water quality modeling platforms such as CEQUAL-W2 and RMSi/ADYN-RQUAL highly desirable;
- Proficient with data mining techniques and tools: knowledge of Tableau and R desirable;
- Knowledge of water and wastewater treatment processes and technologies highly desirable;
- Knowledge of limnology highly desirable.

Skills

- Proficient in MS Excel;
- Proficient in advanced water resource statistics and data mining techniques;
- Excellent quantitative, problem-solving skills;
- Excellent oral communication skills;
- Excellent organizational skills;

- Excellent technical writing skills required, as well as good analytical, and data management skills;
- Self-motivated;
- Attention to detail.

Abilities

- Manage technical problems of moderate complexity;
- Works well autonomously;
- Work well with others as a member of the team and with stakeholders.
- Apply engineering principles and rigorous scientific approaches;
- Work on multiple projects concurrently;
- Meet tight deadlines;
- Come up with creative technical solutions;
- Communicate highly technical content to non-technical audiences;
- Eagerness to learn.

Physical Requirements

- Requires sustained operation of keyboard devices.
- Requires prolonged sitting, standing, and walking in performance of daily activities.
- Lift, drag, or push boxes, paper, and documents weighing up to 25 pounds.
- Must be able to meet the physical requirements of a post job offer physical examination.

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

License, Certificate, or Credential Requirements

- Valid driver's license.
- PE desired.

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 employment opportunity employer.