



WEST DES MOINES WATER WORKS POSITION DESCRIPTION

Position Title:	Civil Engineer II	Department:	Engineering/Water Production
Supervisor:	Principal Engineer or Superintendent	Bargaining Unit:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Category:	<input checked="" type="checkbox"/> Exempt <input type="checkbox"/> Non-Exempt	Supervises:	up to 4 employees

Summary Description:

Under general supervision, manages water infrastructure projects from concept/design through construction; prepares, reviews and modifies civil engineering plan specifications for such projects; works with contractors and staff on public works-related topics; responds to general and/or project-specific inquiries from customers; performs engineering studies for the utility and related work as required.

Duties and Responsibilities (All):

- Performs budgeting, design, detail, and drafting of in-house projects and review and oversight of design using any outside consultants.
- Assists with identification, preparation, and budgeting for Capital Improvement projects.
- Responds to public inquiries regarding Water Works projects and infrastructure.
- Maintains electronic and physical files of engineering information.
- Maintains a positive working relationship with supervisor, subordinates, and coworkers.
- Attends meetings as required.
- Manages Water Works projects as assigned.
- Performs field inspections, surveys and studies, provides departmental representation as needed.
- Prepares, signs, and seals plans and specifications for Water Works projects.
- Performs other duties as assigned.

Duties and Responsibilities (Distribution):

- Updates and utilizes Geographic Information Systems (GIS) and other resources to perform analysis of engineering-related data. Maintains and updates the water distribution GIS model. Serves as the main point of contact for internal and external users of the WDMWW GIS Database.
- Coordinates Water Works response to Iowa One Call Design Information Requests.
- Reviews City right-of-way permits and provides timely comments on potential impacts to WDMWW infrastructure.
- Represents WDMWW at weekly City Development Review meeting, coordinates WDMWW response, and provides timely comments on potential projects.
- Supervises and provides field support to Engineering Technicians and Utility Locator.

Duties and Responsibilities (Water Production):

- Provides detailed oversight and project management of the construction of water production projects and ensures projects stay within the approved budget to maintain effective and efficient operations and quality service to all customers.
- Provides assistance with source water protection efforts.
- Provides input in the planning and construction of capital projects to accomplish water production objectives.

- Seeks opportunities to research and optimize the treatment process.
- Attends CIWW meetings as assigned.
- Assists with treatment plant tours and public outreach.

Licenses and Certifications:

- Possess and maintain a valid Iowa Driver's license or equivalent mobility.
- Possess and maintain an Iowa Professional Engineering License or ability to receive reciprocity within 6 months of Employment.
- Iowa DNR Grade 2 Water Distribution Operator and Grade 2 Water Treatment Operator certificates are preferred, but not required.

Education/Experience:

- Bachelor's degree in civil engineering, construction engineering, or closely related field.
- Four years in civil engineering, drafting, surveying, design work and/or construction management.

Skills:

- Proficiency with PC's and computer software and applications, including Microsoft Outlook, Word, Excel, PowerPoint and Adobe Acrobat / Bluebeam Revu
- Knowledge of local, state and federal regulations concerning the design and construction of public works and/or water utility projects
- Accurate mathematical skills.
- Effective oral and written communication skills.
- Ability to work efficiently with little direct supervision, take initiative.
- Sound judgment, problem solving, and decision-making abilities.
- Ability to convey technical concepts to people with limited technical knowledge. Ability to understand and follow verbal and written instructions.
- Ability to establish and maintain effective working relationships with supervisors, subordinates, co-workers, City staff, Central Iowa Water Works (CIWW) staff, and other WDMWW employees.
- Ability to represent the WDMWW in a professional manner to citizens and outside agencies.

Skills (Distribution):

- Proficiency with Computer Aided Drafting (CAD) drafting methods; significant knowledge of Geographic Information Systems (GIS) technology; significant knowledge of the principles and practices of drafting and mapping; knowledge of the methods of surveying; knowledge of materials testing.
 - Preference may be given for experience in MicroStation, InfoWater, and ArcPro.
- Proficiency with interpreting plans and specifications for water distribution systems.

Skills (Water Production):

- Skill in applying engineering principles to the design, construction, operation, and maintenance of a water treatment plant.
- Knowledge and skill in the operation of a complex water treatment system and in the construction, maintenance, and repair of a complex water treatment system.
- Proficiency with interpreting plans and specifications for water treatment systems.

Working Conditions:

- Primarily Office Environment. Occasional Field Visits.
- Long periods of sitting, standing and walking over uneven terrain.
- Constant talking, hearing, near and far sight acuity, field of vision, concentration, handling, dexterity, and good judgment.
- Frequent stooping, handling and writing ability.
- Occasional exposure to traffic, noise and hazards associated with construction sites.
- Occasional exposure to weather, including heat, cold, rain, snow, and wind.
- Intermittent balancing, kneeling, crouching, and reaching.

- Ability to routinely lift, carry, push and/or pull 30 pounds. Occasional ability to do the same for up to 50 pounds.

Note:

This position description should not be construed to imply that these requirements are the exclusive standards of the position. Incumbents will follow any other instructions and perform any other related duties as may be required. The Water Works may revise this position description at any time. The position description is not to be considered as a contract of employment, as this position is and remains at-will.