



State of Iowa

## Environmental Engineer - Wastewater

<b>SALARY</b>	\$28.52 - \$44.25 Hourly \$2,281.60 - \$3,540.00 Biweekly \$59,321.60 - \$92,040.00 Annually	<b>LOCATION</b>	Des Moines - 50319 - Polk County, IA
<b>JOB TYPE</b>	Full-time	<b>JOB NUMBER</b>	24-02422
<b>AGENCY</b>	542 Iowa Department of Natural Resources	<b>OPENING DATE</b>	01/22/2024
<b>CLOSING DATE</b>	2/6/2024 11:59 PM Central	<b>LINKEDIN TAG</b>	#LI-POST
<b>POINT OF CONTACT</b>	Satya Chennupati, satya.chennupati@dnr.iowa.gov, 515-725-8436	<b>TO APPLY</b>	The Department of Natural Resources encourages all applicants to upload a current resume and cover letter to their online application.

### Job Description

**Only applicants who meet the Minimum Qualification Requirements and Selective Requirements (listed below) will be placed on the eligible list.**

The Department of Natural Resources encourages all applicants to upload a current resume and cover letter to their online application to demonstrate how your qualifications and experience best fit the critical competencies, essential functions and job duties of this position. College or university students that are pending graduation in May 2024 with a Bachelor's Degree are eligible to apply for this position.

The Iowa Department of Natural Resources presents an exciting opening for a wastewater engineer who embodies technical proficiency, a strong customer-centric approach, and a keen eye for detail. We invite you to join our Wastewater Engineering team in the role of an Environmental Engineer to contribute to the preservation of water quality. This position is situated within the Wastewater Engineering Section of the Environmental Services Division's Water Quality Bureau. As a wastewater engineer, you will play a pivotal role in our engineering team, dedicated to safeguarding the environment and public health. Your responsibilities will encompass the critical tasks of reviewing construction permit applications, managing wastewater treatment and collection system infrastructure projects, which include approving engineering planning reports, antidegradation alternatives analyses, plans and specifications. You will also be responsible for granting construction permits primarily for the Clean Water State Revolving Loan Fund (CWSRF) funded wastewater projects and some non-funded wastewater projects.

The successful municipal wastewater project managers will be responsible for the following job duties:

Clean Water State Revolving Loan Fund (CWSRF) municipal wastewater project management including -

1. Facility Plan Approval:

- Conduct technical evaluations of facility plans to assess design adequacy, compliance with design standards, adherence

to state and federal regulations, and meeting siting requirements.

- Collaborate with municipalities and their consultants, and coordinate with relevant agencies as needed, while following the permitting process manual.
- Work in conjunction with DNR field offices, Waste Load Allocation staff, and NPDES staff to address project-specific and siting issues.
- Coordinate with municipalities, various funding agencies for funding eligibility including CWSRF and approval.
- Prepare accurate and appropriate technical comments to assure conformance with design standards and sound engineering practices.
- Process variances, offering reasonable and justified recommendations in accordance with rules.

## 2. Review and Approve Construction Permit Applications:

- Ensure that projects adhere to currently adopted design standards.
- Document reviews and comments, communicate clear and concise feedback to project owners and consultants, and resolve technical issues as necessary.
- Adhere to the prescribed process in the permitting process manual.
- Issue construction permits.
- Conduct site visits to treatment facilities for inspections and report compilation.

## 3. General Project Management:

- Manage assigned projects in accordance with the permitting process manual.
- Utilize a web-based tracking system for administrative project information management.
- Maintain project schedules by conducting timely reviews and responses.
- Collaborate with applicants, their representatives, citizens, and other agencies to expedite project approvals.
- Other technical projects as assigned.

## 4. Non-SRF municipal wastewater project management:

- Process non-SRF projects including the technical review of engineering reports and construction permit applications using the permitting process manual as applicable.
- Issue construction permits.
- Conduct construction inspections and compile reports.

## **Essential Functions**

1. Apply state-design standards, engineering principles and practices to manage wastewater treatment and conveyance design and operation practices.
2. Review technical, administrative, and regulatory documents to ensure compliance with permitting rules and requirements.
3. Interpret and comprehend technical project documents and information effectively.
4. Conduct in-depth technical reviews of projects and provide constructive feedback.
5. Perform complex civil and environmental engineering calculations.
6. Utilize educational background, knowledge, and experience in civil and environmental engineering principles to fulfill job responsibilities.
7. Utilize personal computers for document creation and generate reports using databases.
8. Work independently with minimal supervision.
9. Communicate fluently and tactfully, both in written and oral English, to engage with permittees, consulting engineers, stakeholders, and the public.
10. Prepare and deliver technical presentations to stakeholders.
11. Travel to remote sites for meetings and inspections, operating state vehicles or personal vehicles, and demonstrating mobility to inspect construction sites in challenging terrains.

12. Demonstrate initiative, provide excellent customer service, collaborate effectively in a team, and uphold high standards of ethical conduct.

13. Adapt to change, handle work pressures, and manage difficult situations with resilience and composure.

### **Critical Job Competencies**

Position Specific Competencies: Accountability, Interpersonal Skills, High Productivity, Attention to Detail, Communication Skills, Computer Skills, Customer Focus, Integrity, Problem Solving, Project Management, Self-Management, Team Player, and Technical Engineering Skills.

### **What You Get From Us:**

What You Get From Us:

- A competitive pay plan and rewarding work.
- Insurance benefits that start the first of the month following 30 days of employment. (Premiums can start as low as \$61/month for single and \$205/month for family coverage).
- Separate vacation and sick leave accruals that start on the first day and can roll over annually.
- Nine paid holidays/year.
- Employee Assistance Program.
- Iowa Public Employee Retirement System (IPERS) retirement package with employer match.
- Optional deferred compensation (457/401A) plan with employer match.
- Professional training opportunities.
- Flexible schedules and opportunities for hybrid telework (as approved by supervisor).
- Family friendly and professional work environment.
- Employee Discount Programs (vision, cellular, fitness, recreation, season passes, travel, counseling).

Bachelor of Science degree in Engineering required. Preference will be given to degree in Civil or Environmental Engineering. December graduates are encouraged to apply – please ensure your anticipated graduation date and relevant coursework are clearly communicated in your resume/cover letter.

Additional preference may be given to those with related work experience in design and/or design review of wastewater/water collection and treatment systems or advanced coursework and advanced degree in wastewater engineering.

Valid Class C driver's license in order to drive a state vehicle or personal vehicle and travel for job duties.

The starting salary for new state (Executive Branch) employees is expected to be at the base of the pay range. Additional salary increases may occur after the first six months, and then annually (if applicable). The State's total compensation package features an outstanding set of employee benefits that are worth about 30% of your total compensation. Visit the [DAS website](#) for more benefit information.

For more information about DNR Employment Opportunities and position specific notices, please visit the [DNR Employment website](#).

The State of Iowa is an Equal Employment Opportunity Employer.

Iowa DNR Mission:

To conserve and enhance our natural resources in cooperation with individuals and organizations to improve the quality of life in Iowa and ensure a legacy for future generations.

## Selectives

### 097 Civil Engineering

6 months' experience, 12 semester hours, or a combination of both in one or more of the following:

- Survey crew
- Construction inspector
- Professional civil engineer
- Must be able to read blueprints, plans, and/or specifications.

**OR**

### 182 Environmental Engineering

6 months' experience, 12 semester hours, or a combination of both in the area of engineering that is centered on the technology concerned with the reduction of pollution, contamination, and deterioration of the surroundings in which humans live.

**OR**

### 650 Sanitary Engineering

6 months' experience, 12 semester hours, or a combination of both in the engineering discipline concerned with the improved sanitation of human communities – such as assuring a supply of healthy drinking water, treatment of waste water and removing garbage from inhabited areas.

## Minimum Qualification Requirements

Graduation from an accredited college or university with a Bachelor's Degree in Environmental, Sanitary, Civil, Chemical, Nuclear, Mechanical, Industrial, Agricultural, Biomedical, or Public Health Engineering;

OR

Licensure as a Professional Engineer by the Iowa Board of Engineering Examiners.

For additional information, please click on this [link to view the job description. \(Download PDF reader\)](#)

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### Agency

State of Iowa

### Agency

542 Iowa Department of Natural Resources

### Address

Wallace State Office Building  
502 E 9th St, 4th Floor  
Des Moines, Iowa, 50319

### Website

<http://www.iowadnr.gov/>

## Environmental Engineer - Wastewater Supplemental Questionnaire

\*QUESTION 1

Do you understand that the answers to all of the following questions must be truthful, honest, and accurate to the best of your ability? Please read all questions and answers thoroughly and make sure you understand them completely. **Ensure the answers to your questions match the information filled out on your application and the attachments you have uploaded. If the answers to your questions are inconsistent with your application information or uploaded attachments, you will be given zero points for the question.** Knowingly misrepresenting the facts when submitting any information related to an application, examination, certification, appeal, or any other facet of the selection process will result in your disqualification from this application and future employment with the state of Iowa.

- Yes - I understand and agree.
- No

**\*QUESTION 2**

**PLEASE READ CAREFULLY**

Have you filed a registration statement pursuant to the federal Foreign Agents Registration Act of 1938, as amended, 22 U.S.C. §611 et seq?

- No - I have NOT filed a registration statement pursuant to the federal Foreign Agents Registration Act of 1938, as amended, 22 U.S.C. §611 et seq
- Yes - I HAVE filed a registration statement pursuant to the federal Foreign Agents Registration Act of 1938, as amended, 22 U.S.C. §611 et seq

**\*QUESTION 3**

Have you graduated from an accredited college or university with a Bachelor's Degree in Environmental, Sanitary, Civil, Chemical, Nuclear, Mechanical, Industrial, Agricultural, Biomedical, or Public Health Engineering?

- Yes
- No

**\*QUESTION 4**

Do you currently hold a Licensure as a Professional Engineer by the Iowa Board of Engineering Examiners?

- Yes
- No

**\*QUESTION 5**

Does your application demonstrate that you have 6 months' experience, 12 semester hours, or a combination of both in one or more of the following:

- Survey crew;
- Construction inspector;
- Professional civil engineer?

Must be able to read blueprints, plans, and/or specifications.

- Yes
- No

**\*QUESTION 6**

If you answered "Yes" to the question above - please list exactly HOW you meet it: list exact classes and credit hours, employer, dates and hours per week and exact duties. Please do not paste or state - See application or resume. If you answered no to the question above please type in "No" in the box below.

**\*QUESTION 7**

Does your application demonstrate that you have 6 months' experience, 12 semester hours, or a combination of both in Environmental Engineering, the area of engineering that is centered on the technology concerned with the reduction of pollution, contamination, and deterioration of the surroundings in which humans live?

- Yes  
 No

**\*QUESTION 8**

If you answered "Yes" to the question above - please list exactly HOW you meet it: list exact classes and credit hours, employer, dates and hours per week and exact duties. Please do not paste or state - See application or resume. If you answered no to the question above please type in "No" in the box below.

**\*QUESTION 9**

Does your application demonstrate that you have 6 months' experience, 12 semester hours, or a combination of both in Sanitary Engineering, the engineering discipline concerned with the improved sanitation of human communities – such as assuring a supply of healthy drinking water, treatment of waste water and removing garbage from inhabited areas?

- Yes  
 No

**\*QUESTION 10**

If you answered "Yes" to the question above - please list exactly HOW you meet it: list exact classes and credit hours, employer, dates and hours per week and exact duties. Please do not paste or state - See application or resume. If you answered no to the question above please type in "No" in the box below.

**\*QUESTION 11**

After reviewing the list of essential functions for the Iowa Department of Natural Resources position you are applying for, please answer the following question: Based on the list of essential functions listed within the job announcement, are you able to perform the essential functions of this position, with or without a reasonable accommodation?

- Yes  
 No

**\*QUESTION 12**

Reference Checks: If you are one of the top candidates for this position, the Hiring Team may wish to contact the references provided by you or any others we deem appropriate in order to verify your current or prior employment for the purpose of evaluation of your qualifications for the above position. Any information obtained through a reference check shall be kept confidential to the extent allowed under the Iowa Open Records Act (Iowa Code chapter 22). Please list below three professional business references, including at least one current or former supervisor. Please provide name, title, organization, relationship to you, phone, email, and full address of the reference. You may attach these to your application or type them in the box provided below.

\* Required Question