



State of Iowa

Environmental Engineer - Wastewater

SALARY	\$29.38 - \$45.58 Hourly \$2,350.40 - \$3,646.40 Biweekly \$61,110.40 - \$94,806.40 Annually	LOCATION	Des Moines - 50313 - Polk County, IA
JOB TYPE	Full-time	JOB NUMBER	24-04496
AGENCY	542 Iowa Department of Natural Resources	OPENING DATE	07/08/2024
CLOSING DATE	7/22/2024 11:59 PM Central	LINKEDIN TAG	#LI-POST
POINT OF CONTACT	Satya Chennupati, satya.chennupati@dnr.iowa.gov, 515-725-8436		

Job Description

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

The Iowa Department of Natural Resources has an exciting opportunity for a wastewater engineer who demonstrates technical skills, customer focus and a detail-oriented team player to join the Wastewater Engineering team in the role of an Environmental Engineer and help protect water quality. This vacancy is in the Wastewater Engineering Section of the Environmental Services Division's Water Quality Bureau. As a wastewater engineer, you will have the distinct opportunity to be an integral part of the engineering team that protects the environment and public health by providing engineering/technical review of construction permit applications and management of wastewater treatment and collection system infrastructure projects including approval of engineering planning reports, antidegradation alternatives analyses, plans and specifications and approve construction permits for non-funded wastewater projects and some Clean Water State Revolving Loan Fund (CWSRF) funded wastewater projects.

The successful candidate will be responsible for the following job duties -

Municipal wastewater project management including:

Facility Plan approval:

- Technical review of facility plans addressing adequacy of design basis, conformance with design standards, state and federal rules, regulations, and standards and siting requirements.
- Follow the permitting process manual coordinating with cities and their consultants and other agencies as necessary.
- Coordinate activities with DNR field offices, Waste Load Allocation staff, and NPDES staff on project specific and siting issues. Coordinate with cities and various funding agencies for eligibility
- Prepare accurate and appropriate technical comments to assure conformance with design standards and sound engineering practices.

- Process variances making reasonable and justified recommendations in accordance with rules.

Review and approve construction permit applications:

- Projects will conform to current adopted design standards.
- Document reviews and comments made, transmit clear and concise comments to the project owner and consultant. Meet as necessary to resolve technical issues.
- Follow the prescribed process in the permitting process manual.
- Issue construction permits.
- Site visits to treatment facilities to conduct inspections and compile reports

General Project Management:

- Manage assigned projects according to the permitting process manual.
- Use web-based tracking system for administrative management of project information.
- Perform professional project contacts and document actions
- Maintain project schedules by timely reviews and responses.
- Coordinate with applicants, their representatives, citizens and other agencies to expedite project approvals.

Other related duties as assigned which may include CWSRF assisted projects:

- Process CWSRF projects including the technical review of engineering reports and construction permit applications using the permitting process manual as applicable.
- Coordinate with municipalities, various funding agencies for funding eligibility including CWSRF and approval.
- Issue construction permits.
- Conduct construction inspections and compile reports.
- Other technical projects as assigned.

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, in both 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:

- 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.
- 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.

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.

The Department of Natural Resources encourages all applicants to upload a current resume and cover letter to their DAS on-line application.

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.

Applicants are strongly encouraged to attach a Resume/Cover Letter to the online application to demonstrate how your qualifications and experience best fit the critical competencies, essential functions and job duties of this position.

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. \(Download PDF reader\)](#).

Agency

State of Iowa

Agency

542 Iowa Department of Natural Resources

Address

6200 Park Ave
STE 200
Des Moines, Iowa, 50321

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 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 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. Neglecting to thoroughly answer this question may result in disqualification.

- Yes
- No

***QUESTION 7**

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 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. Neglecting to thoroughly answer this question may result in disqualification.

Yes

No

***QUESTION 9**

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 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. Neglecting to thoroughly answer this question may result in disqualification.

Yes

No

***QUESTION 11**

Essential Functions of the Position: 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? Please indicate your response.

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