



State of Iowa
Environmental Engineer Senior

SALARY	\$34.69 - \$53.41 Hourly \$2,775.20 - \$4,272.80 Biweekly \$72,155.20 - \$111,092.80 Annually	LOCATION	Des Moines - 50321 - Polk County, IA
JOB TYPE	Full-time	JOB NUMBER	24-04156
AGENCY	542 Iowa Department of Natural Resources	OPENING DATE	06/06/2024
CLOSING DATE	6/18/2024 11:59 PM Central	LINKEDIN TAG	#LI-POST
POINT OF CONTACT	Satya Chennupati, satya.chennupati@dnr.iowa.gov, 515-725-8436	TO APPLY	The Iowa Department of Natural Resources encourages all applicants to upload a resume and cover letter to the online application.

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 Department of Natural Resources encourages all applicants to upload a current resume and cover letter to their online application.

The Department of Natural Resources is looking for a senior professional engineer to manage and coordinate the state sewage sludge (biosolids) program and serve as the lead for the non-funded municipal wastewater construction permit program in the Wastewater Engineering Section to ensure projects comply with the water quality standards and nutrient reduction strategy. The goal of this role is to enhance Iowa's water quality to promote safe recreation, tourism, economic development and jobs growth throughout the state.

The Biosolids Coordinator role includes being the technical expert for the State of Iowa providing senior technical leadership and engineering oversight of biosolids land application regulatory program, permitting, and the development and updating of program regulations. The Coordinator works in cooperation with the US Environmental Protections Agency to implement the program and provides regulatory and technical assistance to all internal and external stakeholders.

This position is also responsible for providing senior leadership, engineering oversight and technical review of wastewater construction permit applications for complex and major municipal wastewater treatment and conveyance systems in the non-funded wastewater construction permit program and some projects in the Clean Water State Revolving Loan Fund (CWSRF) program, serving as a lead technical advisor for the non-funded construction permit program and coordinating assignment of non-funded wastewater projects to engineering staff. This position will also be responsible for mentoring, training, assessing growth, reviewing work of new and existing environmental engineering staff and sign off on their work.

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Essential Functions

- Applies state design standards, engineering principles and engineering practices dealing with wastewater treatment and conveyance design and operation.
- Understand and Review technical, administrative, and regulatory documents to assure projects comply with CWSRF regulations, permitting rules and requirements.
- Read and understand technical documents and information for projects.
- Use of personal computer for document development and develops reports using databases.
- Works independently with minimal supervision.
- Fluent and tactful communications both written and verbal in English to communicate with permittees, consulting engineers, stakeholders and the public.
- Travels to remote sites for meetings and inspections driving a state vehicle or personal vehicle and mobility to inspect construction sites in rugged terrain.
- Performs detailed project technical review and prepare comments for projects.
- Performs complex civil and environmental engineering calculations.
- Proficient with the necessary technical knowledge and experience to apply good engineering practices and state design standards in reviewing projects.
- Prepares and makes technical presentations to stakeholders.
- Demonstrates initiative, customer service and team orientation and display high standards of ethical conduct.
- Adjusts to change, work pressures or difficult situations without undue stress.
- Provide technical leadership to the section staff and lead design standards development and updates, draft rules and present at commissions and Administrative Rules Review Committee (ARRC).

Critical Job Competencies

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

1. Bachelor of Science degree in Engineering required. Preference will be given to degree in Civil or Environmental Engineering. Additional preference will 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.

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

1. Licensed Professional Engineer license in Civil or Environmental Engineering.

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.
- 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.
- Family friendly and professional work environment.
- Employee Discount Programs (vision, cellular, fitness, recreation, season passes, travel, counseling)
- The State's total compensation package features benefits that are worth about 30% of your total compensation. For a list of additional benefits, please visit the DAS website for more information.

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

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 Opportunity Employer.

The DNR seeks to hire individuals who wish to support our mission, which is to conserve and enhance our natural resources in cooperation with individuals and organization, 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.

AND

760 **Wastewater** 6 months' experience in wastewater treatment which includes any of the following: • Design of wastewater treatment systems including controlled discharge lagoons, aerated lagoons, activated sludge treatment systems, or on-site systems for municipalities or industries or, • Issuing or preparing wastewater discharge operation permits for point source discharges of domestic wastewater or industrial discharges or, • Experience in calculating wasteload allocations or water quality based permit limits for point sources discharges

AND

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.

AND

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.

Minimum Qualification Requirements

Graduation from an accredited college or university with a Bachelor's Degree in Environmental, Sanitary, Civil, Chemical, Nuclear, Mechanical, Industrial, Agricultural, or Public Health Engineering and three years of full-time professional work in environmental engineering;

OR

an equivalent combination of education and experience substituting thirty semester hours of accredited graduate level course work in Environmental, Sanitary, Civil, Chemical, Mechanical, Industrial, Agricultural, or Public Health Engineering for

each year of the required experience to a maximum substitution of two years;

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

Additional Qualification Requirements

Licensure as a Professional Engineer to practice in Iowa may be required at the option of the employing department within one year of employment.

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 Senior 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, or Public Health Engineering? IF YES How many years do you have of full-time professional work in environmental engineering?

- I do not have a Bachelor's Degree in Environmental, Sanitary, Civil, Chemical, Nuclear, Mechanical, Industrial, Agricultural, or Public Health Engineering
- No full time professional work experience in environmental engineering
- Less than two years of full time professional work experience in environmental engineering
- Two years to less than three years of full time professional work experience in environmental engineering
- Three or more years of full time professional work experience in environmental engineering

*QUESTION 4

How many years do you have of a combination of full time professional work experience in environmental engineering and GRADUATE level (post bachelor's degree) course work in Environmental, Sanitary, Civil, Chemical, Mechanical, Industrial, Agricultural, or Public Health Engineering?

30 semester hours equals one year of experience. Applicants may substitute a MAXIMUM of 60 semester hours (2 year) of graduate level course work in the designated areas

- I do not have any of the combined graduate education and/or experience
- Less than two years of full time professional work experience in environmental engineering
- Two years to less than three years of full time professional work experience in environmental engineering
- Three or more years of full time professional work experience in environmental engineering

*QUESTION 5

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

- Yes
 No

***QUESTION 6**

(Licensed Professional Engineer – Iowa Board of Engineering Examiners)

For more information visit <https://plb.iowa.gov/board/engineers-land-surveyors>

- Yes
 No

***QUESTION 7**

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 8**

Does your application demonstrate that you have 6 months' experience in wastewater treatment which includes any of the following:

- Design of wastewater treatment systems including controlled discharge lagoons, aerated lagoons, activated sludge treatment systems, or on-site systems for municipalities or industries or,
- Issuing or preparing wastewater discharge operation permits for point source discharges of domestic wastewater or industrial discharges or,
- Experience in calculating wasteload allocations or water quality based permit limits for point sources discharges?

- Yes
 No

***QUESTION 9**

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 10**

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 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