



Code: 2073
Family: Technical Engineering
Service: Health and Welfare
Group: Inspectional
Series: Energy and Environmental Protection

CLASS TITLE: ENVIRONMENTAL ENGINEER III

CHARACTERISTICS OF THE CLASS

Under general supervision, supervises and participates in the enforcement of federal, state, and municipal environmental protection laws, and performs related duties as required

ESSENTIAL DUTIES

- Assigns, coordinates, and supervises the work of professional and technical personnel engaged in enforcing environmental protection laws
- Reviews site inspection reports submitted by staff for completeness and appropriateness of findings, actions taken, and recommendations for correcting violations
- Supervises re-inspections to ensure violations are corrected
- Coordinates and provides technical assistance to other City departments and sister agencies at field emergencies and environmental incidents
- Oversees the enforcement of citations and remediation recommendations to violators of the City's Environmental Protection Code
- Assists and directs staff in conducting inspections of repeat and gross Environmental Protection Act (EPA) violations
- Participates in the development of guidelines and procedures to standardize the conduct of environmental inspections
- Trains and coordinates training for staff in new or modified techniques of detecting and assessing environmental pollutants
- Participates in and supervises staff engaged in reviewing permit applications, and planning for the installation of industrial processing equipment and control devices to ensure compliance with environmental protection laws and regulations
- Performs engineering calculations to determine the emission rates of various pollutants
- Prepares comprehensive statistical and narrative reports of inspection and remediation activities
- Investigates complaints of alleged EPA violations
- Testifies in court as an expert witness on environmental issues
- Makes recommendations for the purchase of new equipment

NOTE: *The list of essential duties is not intended to be inclusive; there may be other duties that are essential to particular positions within the class.*

MINIMUM QUALIFICATIONS

Education, Training, and Experience

- Graduation from an accredited college or university with a Bachelor's degree in Environmental Engineering or a directly related field, plus three years of work experience in environmental engineering, or an equivalent combination of education, training and experience provided that the minimum degree requirement is met

Licensure, Certification, or Other Qualifications

- A valid State of Illinois driver's license is required.

WORKING CONDITIONS

- General office environment
- Exposure to outdoor weather conditions
- Some exposure to industrial fumes and hazardous chemicals

EQUIPMENT

- Standard office equipment (e.g., telephone, printer, photocopier, fax machine, calculator)
- Computers and peripheral equipment (e.g., personal computer, computer terminals, hand-held computer, scanner)
- Scientific calculators

PHYSICAL REQUIREMENTS

- Ability to walk and stand for extended or continuous periods of time

KNOWLEDGE, SKILLS, ABILITIES, AND OTHER WORK REQUIREMENTS**Knowledge**

Considerable knowledge of:

- *environmental hazards and related abatement methods
- *environmental inspection, research, and analysis methods and techniques
- *applicable safety principles, methods, practices, and procedures
- *applicable environmental engineering methods, theories, principles, and procedures
- *applicable federal, state, and local laws, regulations, and guidelines

Moderate knowledge of:

- applicable computer software packages and applications
- supervisory methods, practices, and procedures

Knowledge of applicable City and department policies, procedures, rules and regulations

Other knowledge as required for successful performance in the Environmental Engineer II class series

Skills

- ACTIVE LEARNING - Understand the implications of new information for both current and future problem-solving and decision-making
- ACTIVE LISTENING - Give full attention to what other people are saying, taking time to understand the points being made, ask questions as appropriate, and not interrupt at inappropriate times
- CRITICAL THINKING - Use logic and reasoning to identify the strengths and weaknesses of alternative solutions, conclusions, or approaches to problems
- MATHEMATICS - Use mathematics to solve problems
- COMPLEX PROBLEM SOLVING - Identify complex problems and review related information to develop and evaluate options and implement solutions
- JUDGEMENT AND DECISION MAKING - Consider the relative costs and benefits of potential actions to choose the most appropriate one

Other skills as required for successful performance in the Environmental Engineer II class series

Abilities

- COMPREHEND ORAL INFORMATION - Listen to and understand information and ideas presented through spoken words and sentences
- SPEAK - Communicate information and ideas in speaking so others will understand
- COMPREHEND WRITTEN INFORMATION - Read and understand information and ideas presented in writing
- WRITE - Communicate information and ideas in writing so others will understand
- REASON MATHEMATICALLY - Choose the right mathematical methods or formulas to solve a problem
- REASON TO SOLVE PROBLEMS - Apply general rules to specific problems to produce answers that make sense
- REACH CONCLUSIONS - Combine pieces of information to form general rules or conclusions (includes finding a relationship among seemingly unrelated events)

Other abilities as required for successful performance in the Environmental Engineer II class

All employees of the City of Chicago must demonstrate commitment to and compliance with applicable state and federal laws, and City ordinances and rules; the City's Ethics standards; and other City policies and procedures.

The City of Chicago will consider equivalent foreign degrees, accreditations, and credentials in evaluating qualifications.

* May be required at entry.

City of Chicago
Department of Human Resources
April, 2017
DL added March, 2021