

TITLE: Environmental Analyst – Data Scientist

EMPLOYER: NEIWPCCE, Wannalancit Mills, 650 Suffolk Street, Suite 410, Lowell, MA 01854.

LOCATION: NYS DEC, Division of Water, 625 Broadway, Albany, NY 12233.

BACKGROUND INFORMATION: NEIWPCCE is a regional commission that helps the states of the Northeast preserve and advance water quality. We engage and convene water quality professionals and other interested parties from New England and New York to collaborate on water, wastewater, and environmental science challenges across the regions, ecosystems, and areas of expertise. NEIWPCCE is committed to fostering, cultivating, and preserving a culture of diversity, equity, and inclusion.

JOB SUMMARY: The NEIWPCCE Environmental Analyst will assist with Division of Water (DOW) data management and tool development, data analysis, and data system development and support to ensure compliance with state and federal reporting requirements. Responsibilities include identifying, compiling, cleaning, validating, organizing, and analyzing data utilizing a variety of tools. Development of routine queries, data models, and processes to enhance the consistency and accuracy data analysis and reporting. Assist with supporting data management of DOW's information systems. Assist DOW program staff to improve program implementation through data management tools and processes. Help to develop data governance guidelines and procedures.

DUTIES AND RESPONSIBILITIES:

- Collaborate with DOW staff to improve program implementation.
- Understand and compile data from internal and quality-assured external data sources.
- Design tools to optimize data mining, cleaning, validation, and analysis.
- Perform data queries and data analysis.
- Develop tools and testing frameworks to ensure data accuracy.
- Support management of data systems.
- Create reports and presentations that detail findings, recommendations, and solutions.
- Document data models and processes and provide training.
- Perform data queries and data analysis using SQL, python, R or other programming language.
- Support DOW staff: respond to inquiries and requests for information, including, querying information systems to produce reports to support the annual reports, potential enforcement cases, FOIL requests and other requests for information.
- Assist in the development and implementation of BWRM and Division of Water programs, and associated technical documents, presentations, and other reports.

SUPERVISORY CONTROLS: Incumbent operates with substantial independence of action and delegation of professional decisions within their area of activity. Job performance is evaluated by Robert Curtis, NYSDEC, in consultation with the NEIWPCCE Project Manager.

The incumbent will rely on their ability, expertise, and commitment to excellence. They will also build NEIWPCCE's culture which focuses on honesty, ethical behavior, personal integrity, respect for others, transparency, hard work, and collaborative teamwork.

Incumbents of positions at this level exercise direct supervision (i.e., not through an intermediate level supervisor) over, assign work to, review the performance of 1-5 professional personnel; and exercise indirect supervision (i.e., through an intermediate level supervisor) over 6-15 professional and/or technical personnel.

RECOMMENDED QUALIFICATIONS:

Education

A bachelor's degree in data science, computer science, statistics, information systems, natural resources, environmental science, mathematics, or related degree.

Experience

Applicants must have at least three years of full-time, or equivalent part-time, technical or professional experience of which at least one year must have been in a professional capacity.

Personal Characteristics

- Naturally prone to action with a focus toward continuous improvement and is committed to contributing to the overall success of NEIWPC.
- Ability to build collaborative relationships across NEIWPC and our partners.
- Approachable and diplomatic in all interactions.
- Able to manage change and articulate the “value case” for it.
- A team player who is inclusive and willing to help others.
- Dependable and capable of fostering trust.
- Accepts responsibility and is accountable for results.
- Ability to write concisely to express thoughts clearly and to develop ideas in logical sequence.
- Ability to exercise discretion in handling confidential information.
- Excellent organizational skills and the ability to prioritize key deliverables.

Special Knowledge and Skills

- Experience using SQL, python, or R.
- Experience creating extract, transform, and load (ETL) pipelines.
- Experience with database management and data modeling.
- Experience developing reproducible data analyses.
- Strong analytical background, and a commitment to data integrity and accuracy.
- Knowledge of environmental contaminants and their behavior in the environment.
- Familiarity with statistical and data mining techniques and when to use them.
- Experience developing standard operating procedures.
- Excellent interpersonal and oral communication skills; comfortable with public speaking.

Requirements

- A valid driver's license and access to own transportation required.
- Attendance is mandatory in the Lowell office for a one-day orientation and at the annual All Staff Meeting (held the last Thursday and Friday in March each year).
- This is a full-time position. This position requires incumbent to be in the office or at the assigned work location Monday – Friday for the first six months of employment. After six months of employment, this position may be eligible for a partial telework schedule, subject to approval and determined by program and office needs. Telework schedules are authorized by the Executive Director.

SALARY: Salary dependent upon level of experience and qualifications.

BENEFITS: Benefits provided but not included in salary range: vacation, personal and sick leave, health, dental, disability and life insurance, retirement plan. This position requires the incumbent to work five days a week, 7 ½ hours per day, except for approved compensatory time.