



DEP INTERNSHIP PROGRAM

Job Posting

Posting #: BWSO-008-Modeling Unit Intern	#of Positions: 1
Posting Period: <u>February 2019- May 2019</u>	Category: Engineering
Bureau: BWSO	Salary: Unpaid
Office Title: Modeling Unit Intern	Status: Undergraduate

JOB DESCRIPTION

The NYC Department of Environmental Protection (DEP) enriches the environment and protects public health for all New Yorkers by providing 1.1 billion gallons of high quality drinking water, managing wastewater and stormwater, and reducing air, noise, and hazardous materials pollution. DEP is the largest combined municipal water and wastewater utility in the country, with nearly 6,000 employees. DEP's water supply system is comprised of 19 reservoirs and 3 controlled lakes throughout the system's 2,000 square mile watershed that extends 125 miles north and west of the City.

BWSO's Drainage and Modeling Unit is primarily responsible for the development and amendment of the City's drainage plans, which undergo revision in response to zoning changes, new construction, citizen complaints, and adding new infrastructure. The group is developing a hydraulic model of the entire city sewer system. The current position will be under the direct supervision of a professional engineer and will provide a complete insight into the NYC sewer and water infrastructure. The position offers the opportunity to serve the public and there is potential for career growth. The selected intern will work on sewer modeling, database management, sewer analysis, and design development. The intern will perform work associated with data collection, modeling and design review. Individual should be proficient in ArcGIS and have general understanding of hydraulic analysis. Duties and responsibilities will include Analysis of water and sewer systems:

- Perform research, investigations, and collection of engineering documents
- Preparation of drainage plans:
- Perform hydraulic calculations for development of drainage plans under the supervision of a professional engineer
- Prepare drainage plans using the appropriate software (GIS or AutoCAD)

Hydrologic and Hydraulic Modeling:

- Build-out and participate in analysis of hydraulic models pertaining to collection systems, distribution systems, surface water, and/or groundwater under supervision of a professional engineer

Other Engineering Duties:

- Participates in Engineering discussions and presentations on topics including climate change, resiliency, sea level rise, and modernizing engineering practices
- Possible opportunities for field visits and/or site inspections.
- Attends meetings with other Agencies or Bureaus as needed to coordinate on large-scale projects and facilitate solutions that meet the needs of all Agencies and Bureaus.

PREFERRED SKILLS

- Research capabilities
- Familiarity with or willingness to learn GIS, AutoCAD and Modeling of wastewater and drainage collection systems

ADDITIONAL INFORMATION

Please attach requested documents (writing samples, transcript, etc.) to your resume file in one .pdf document. In your cover letter, indicate the business title of the position you are applying to.

<u>Resume</u> <input checked="" type="checkbox"/>	<u>Writing Sample</u> <input type="checkbox"/>	<u>Transcript</u> <input checked="" type="checkbox"/>
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QUALIFICATIONS

- Student must have at least a 2.5GPA (on a 4.0 scale) majoring in civil, mechanical or environmental engineering.
- Student must have at least a junior class standing
- Selection Criteria: - Strong writing skills; effective interpersonal skills; familiarity and/or experience with computers/software; leadership skills; self-motivation; and ability to work well with minimal supervision.

To Apply, Please Send Resume and Cover Letter To interns@dep.nyc.gov

Make sure to indicate the bureau and posting number on resume and also in subject line of email response

For more information about DEP, visit us at: www.nyc.gov/dep

The City of New York DEP is an EEO employer.