



Job Title	Research Scientist in Water Supply Modeling
PVN ID	HC-2408-006421
Category	Postdoctoral
Location	HUNTER COLLEGE
Department	Institute for Sustainable Cities
Status	Full Time
Annual Salary	\$78,734.00 - \$78,734.00
Hour(s) a Week	35
Closing Date	Dec 23, 2024 (Or Until Filled)

General Description

The New York City Department of Environmental Protection (NYCDEP) manages a system of 19 interconnected reservoirs that supply drinking water to over 9 million consumers in New York City and surrounding areas. We seek to hire a research scientist or research engineer in a post-doctoral position who will contribute to our efforts to develop, test, and apply models of this water supply system. NYCDEP uses a suite of climate, forest ecosystem, watershed hydrology, reservoir hydrodynamics and water quality, and system operations models to investigate the effects of climate change, floods and droughts, land use change, watershed management, and reservoir operations on the NYC water supply. We are seeking a talented scientist or engineer to help us improve and enhance these models. Hiring will occur through the Institute for Sustainable Cities at Hunter College, City University of New York (CUNY), which has a contract to support NYCDEP's modeling program.

We will start accepting applications immediately, and start reviewing applications on September 3, 2024. The position will remain open until filled. The earliest start date will be October 1, 2024, but a later start date is possible depending on candidate availability. The position will be for 18-24 months, assuming adequate job performance, with additional extensions a possibility depending on candidate availability and project needs.

Work location will be NYCDEP office in Kingston, NY.

Other Duties

The selected candidate will be expected to present work at scientific and stakeholder meetings; publish in peer-reviewed journals and contribute to NYCDEP reports.

Other duties as assigned.

Qualifications

Candidates with a Ph.D. are preferred, but exceptional candidates with a M.S. degree will be considered. Interest and experience in the application of relevant environmental systems models, experience in programming and statistical analysis, and appropriate verbal and written communication skills are required.

Candidates with experience in any of the following areas of interest will be considered: simulation of carbon, nitrogen, and phosphorus cycling in the environment; kinetics of the fraction of organic carbon compounds that are precursors to disinfection byproducts in freshwater systems; application of watershed and water quality models for climate change impact assessment; and application of machine learning or artificial intelligence approaches to predict water quality, e.g., harmful algal blooms, turbidity, and bacteria, in the reservoirs.