Job Title	Post-Doctoral Research Associate in Water Resources Modeling
PVN ID	HC-2304-005553
Category	Research
Location	HUNTER COLLEGE
Department	Institute for Sustainable Cities at Hunt
Status	Full Time
Annual Salary	$63,686.43 - $63,686.43
Hour(s) a Week	35
Closing Date	Jun 06, 2023 (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 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, reservoir, 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.

The position is currently open and is ready to be filled. The position is funded through September 30, 2024. Work location will be NYCDEP office in Kingston, NY. This is a full-time position with employee benefits and is open to qualified candidates of any nationality. If necessary, visas may be arranged through the City University of New York, depending on government policy.

Hiring will occur though the Institute for Sustainable Cities at Hunter College, City University of New York (CUNY), which has a contract to support NYCDEP's modeling program.

Questions about this position should be directed to:

Dr. Rajith Mukundan, New York City Department of Environmental Protection
rmukundan@dep.nyc.gov

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.

Qualifications

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 neural network approaches to water resources problems.

Candidates with an advanced degree (M.S. or Ph.D.) and an interest/experience in the application of various environmental systems models will be considered. Experience in GIS, statistical analysis, and good writing skills is required.