

<b>Job Title</b>	climate scientist
<b>PVN ID</b>	HC-1609-001383
<b>Category</b>	Research
<b>Location</b>	HUNTER COLLEGE
<b>Department</b>	
<b>Status</b>	Full Time
<b>Annual Salary</b>	\$61,000.00 - \$62,000.00
<b>Hour(s) a Week</b>	35
<b>Closing Date</b>	Nov 07, 2016 (Or Until Filled)

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## 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. NYC DEP uses terrestrial and reservoir simulation models to investigate the potential effects of climate change on the NYC water supply. To evaluate climate change, these models require forecasts of future meteorological conditions in the reservoir watersheds. The successful candidate will be an employee of the City University of New York's Institute for Sustainable Cities (CISC), which has a contract to support NYCDEP's efforts. Work will involve collaborative efforts with an interdisciplinary team of scientists, and will also provide opportunities for leadership in specific aspects of the research. The candidate will be based in the NYCDEP office in Kingston, New York and work with NYCDEP staff on a day to day basis.

### Position details:

- Starting date: fall 2016. Actual start depends on candidate availability
- End date: Assuming satisfactory performance, approximately one year from start date, with potential for an extension through August, 2018
- Location: Kingston, NY, 100 miles (150 km) north of NYC in the Hudson Valley and nearby Catskill Mountains
- Open to eligible candidates of any nationality. Visas can be arranged through the City University of New York.

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## Other Duties

### Key tasks include the following:

- Develop a familiarity with NYCDEP's recent work in downscaling of GCM output, and in development of

stochastic weather generator models.

- Investigate and implement downscaling methods that incorporate the effects of climate change with a focus on extreme events.
- Update future climate scenarios using CMIP5 output.
- In collaboration with scientists and engineers on the team, apply climate forecasts in water system sensitivity studies to identify conditions that may lead to water supply or water quality problems.
- In collaboration with scientists and engineers on the team, apply future climate scenarios in driving watershed and reservoir models, and in developing innovative model applications related to climate change.
- Present work at scientific meetings; publish work in peer-reviewed journals and NYCDEP reports.

## Qualifications

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**The candidate should have all or most of the following qualifications:**

- D. in atmospheric science, hydrology, civil or environmental engineering, geography, or a related discipline. Candidates with a Master's degree and strong research achievement will also be considered
- Experience with the development and/or application of stochastic weather generators, and with downscaling techniques (preferably but not necessarily for hydrologic and water quality applications)
- Experience in analysis of climate data and GCM/RCM output for developing climate scenarios.
- Experience with data analysis and statistical software, such as R, IDL, Matlab, etc.
- Demonstrated ability to communicate research results to scientific community through peer-reviewed papers, conference presentations and reports.
- Ability to work in an interdisciplinary team environment