Postdoctoral Position in Climate Data Analysis Starting Fall, 2014
at the City University of New York Institute for Sustainable Cities
APPLICATION DEADLINE JULY 15, 2014

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. NYCDEP's Climate Change Integrated Modeling Project (CCIMP) is an ongoing NYCDEP project to evaluate the potential impacts of climate change on water quantity and quality in the city's water supply system. The City University of New York's Institute for Sustainable Cities (CISC) has a contract to support NYCDEP's efforts in this area. Work will involve collaborative efforts with an interdisciplinary team of scientists, and will also provide opportunities for leadership in specific aspects of the work.

Position details:

- Starting date: fall, 2014 (The position is expected to be available as of August 1, 2014, but actual start date will depend on candidate availability and finalization of funding.)
- End date: June 2016, with a possibility of renewal for up to two additional years.
- Location: Kingston, NY, 100 miles north of NYC in the Catskill Mountains and the Hudson River Valley

Key tasks include the following.

- Investigate / implement stochastic weather generators for downscaling GCM output. Collaborate with other project scientists to incorporate stochastic weather generator results into water system sensitivity studies to identify climate related stress levels that may lead to potential water quality / supply concerns.
- Investigate and implement downscaling methods that incorporate the effects of extreme events.
- Support other scientists on the team to: update future climate scenarios using CMIP5 output that will be used to drive watershed and reservoir models; and to develop other watershed, reservoir and system model applications related to climate change.

The candidate should have the following qualifications:

- Ph.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 in the development and use of downscaling and / or stochastic weather generation models (preferably but not necessarily for hydrological applications).
- Experience in analysis of climate data and GCM/RCM output for developing climate change scenarios.
- Experience with data analysis software and/or statistical software such as R, IDL, MATLAB, etc.
- Demonstrated ability to communicate research results to scientific community through peer-reviewed papers, conference presentations and/or reports.
- Ability to work in an interdisciplinary team environment

Application Instructions:

- For more information please send a letter of interest and curriculum vitae electronically to:

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- **Application deadline is July 15, 2014**