RESEARCH FOUNDATION CUNY

Careers at RFCUNY
Job Openings

Job Title	Forest ecosystems modeling postdoctoral fellow
PVN ID	HC-1507-000620
Category	Research
Location	HUNTER COLLEGE
Department	CUNY Institute for Sustainable Cities
Status	Full Time
Annual Salary	$60,000.00
Hour(s) a Week	35
Closing Date	Sep 15, 2015 (Or Until Filled)

General Description

As the predominant land cover type in the 1600 sq. mi. NYC drinking water supply watersheds, forest ecosystems play an important yet poorly understood role in determining the water, nutrient, sediment, and pathogen inputs to the reservoir system. The forest ecosystem modeling post doc will: a) investigate the current biological, physical, and chemical conditions, and management practices of the forested lands in the NYC water supply watersheds, using all available data sources and tools including remote sensing; b) review available forest models and develop model applications that integrate forest inventory and assessment data with key watershed processes that control forest hydrology, biogeochemistry, and ecosystem structure and function; and c) apply these models and data to project potential effects of changing land use, watershed management, and climate on water quantity and quality of the NYC water supply and the sustainability of the forest ecosystem. The post-doc will work as part of a larger project on the NYC water supply system with a set of other post-doctoral fellows, NYC-DEP staff, and faculty at collaborating universities. Collaboration and periodic travel with researchers at the University of North Carolina is expected.

This appointment will start as soon as possible, with an end date of June 30, 2017. An extension of one additional year is possible. The position is funded under a contract from the New York City Department of Environmental Protection (NYCDEP) to the Research Foundation of the City University of New York (RFCUNY), and the applicant will be an employee of RFCUNY but will be located at NYCDEP offices in Kingston, N.Y., 100 miles north of NYC in the Catskill Mountains and the Hudson River Valley. The position includes a full suite of benefits offered by RFCUNY.

Applications will be evaluated starting July 15, 2015, but the position will remain open until filled.

Other Duties

Qualifications

The candidate should have a Ph.D. or equivalent experience in water resource management, hydrology, ecology, forestry civil/environmental engineering, or a related discipline. Desired skills include familiarity with distributed hydrological and ecosystem models (such as RHESsys), digital terrain analysis and remote sensing of watersheds. Good communication skills and ability to work within a collaborative environment are essential.