

Job Title: NSF Post-doctoral Fellow

Job Description: The New School's Urban Ecology Lab seeks a post-doctoral research scientist to join the Urban Resilience to Extreme Weather-related Events Sustainability Research Network ((URExSRN) team funded by a 5-yr NSF grant. The NSF Fellow will be associated with the Urban Ecology Lab and the Environmental Studies program at The New School. The focus of the NSF Postdoctoral Fellowship will be to develop a spatially explicit scenario model for examining how urban social, ecological, and technical systems change under possible alternate future scenarios for URExSRN cities, including New York City, Phoenix, Baltimore, Hermosillo, Valdivia, San Juan, Syracuse, Portland (Oregon), and Miami. The Fellow will work closely with the URExSRN Scenario Working Group and will play a key role in the scenario development process and analysis. More information about the URExSRN can be found on the "Projects" tab at UrbanEcologyLab.com and at URExSRN.net.

Postdoctoral research will include exploring options and opportunities for building resilience in project cities, understanding trade-offs associated with possible infrastructure interventions for social, ecological, and technical domains of urban systems, and assessing how urban landscape change will affect the future ability of ecosystems to provide ecosystem services for resilience. The NSF Post-doctoral Research Fellow will participate in an ongoing research program in the Urban Ecology Lab at The New School, be tightly connected to related research through the URExSRN project, and will develop new research based on their interest and expertise with faculty at The New School and with external colleagues on the project.

Qualifications: This interdisciplinary position is open to scientists from diverse disciplinary fields including computer science and modeling, geography, landscape ecology, urban ecology, and related areas of the social sciences. Applicants must have completed the Ph.D. by the position start date and be eager to work with an interdisciplinary team to develop scenario models for exploring resilience in urban landscapes. The successful applicant must be adept at working with multiple researchers from a range of disciplinary backgrounds in urban ecology, including geographers, landscape and urban planners, biophysical scientists, and environmental educators. Strong organizational, communication and writing skills are also required for coordinating research, data, and input from scenario development activities of the URExSRN.

The New School is committed to maintaining a diverse educational and creative community, a policy of equal opportunity in all its activities and programs, including employment. The University is engaged in a diversity initiative and we encourage individuals from groups underrepresented in U.S. higher education to apply. The New School does not discriminate on the basis of age, race, color, creed, sex or gender (including gender identity and expression), pregnancy, sexual orientation, religion, religious practices, mental or physical disability, national or ethnic origin, citizenship status, veteran status, marital or partnership status, or any other legally protected status.

This position is open to candidates with expertise in the natural or social sciences. The following skills are highly desirable:

- Excellent geospatial analytical skills, with experience using ArcGIS and related software libraries as they apply to modeling urban environments
- Comfort with Python scripting/programming (experience with ArcPy is also desirable)
- Agent-based modeling experience and/or cellular automata modeling
- Experience working in urban contexts and with ecosystem services assessment
- Ability to work in a multidisciplinary environment
- Excellent research design, organizational, communication, and writing skills

The expected start date is July 1, 2016. The primary location for the postdoctoral position will be at The New School's Urban Ecology Lab. This position is for one academic year with the possibility of renewal for one additional year. The New School offers competitive salary and a full benefits package.

Special Instructions: Review of applicants will begin in early January, 2016. Applicants should submit a cover letter that highlights their skills and abilities in areas relevant to the position; a curriculum vitae; three representative publications (electronic versions); and the names, addresses, phone numbers and e-mail addresses of three references. All applications should be submitted through The New School's human resources web site.

Human Resources Link for Applications:

<https://careers.newschool.edu/>