The Institute on Research and Education in Energy, Environment and Water (RENEW) at the University at Buffalo (UB) aims to advance Energy, Water and Environmental Sustainability as a foundation for a regenerative economy through interdisciplinary research cutting across UB's academic organizations. The institute's interdisciplinary focus — involving the faculties of the School of Architecture and Planning, College of Arts and Sciences, School of Engineering and Applied Sciences, Law School, School of Management, School of Public Health and Health Professions, and the School of Medicine and Biomedical Sciences — is designed to foster new collaborations and innovative ideas. The initiative taps the leadership and vision of deans and faculty at these seven schools and colleges. The institute engages over 100 faculty in these seven schools and aims to hire 19 additional faculty. Further details can be found at http://www.buffalo.edu/renew/Employment-Opportunities.html.

The Institute seeks to hire outstanding scientific staff to support the five technical focus areas that crosscut Energy, Environment, & Water: (1) Next-Generation Materials and Technologies for Energy, Environment & Water Sustainability; (2) Sustainable Urban Environments; (3) Freshwater Coastal Ecosystems and Blue Economy; (4) Environmental Exposures, Genomes and Health; and (5) Climate Change & Socio-Economic Impacts. Successful candidates will be those with "depth" of knowledge in their fields but also exhibiting "breadth" and a strong desire for engaging in interdisciplinary work, to advance the mission of the Institute. In addition, candidates should bring interesting innovative ideas that allow the focus areas to move in new directions. Staff scientists will work with groups of faculty on a range of projects leading to the development of large interdisciplinary grant proposals. Staff scientists will also be expected to engage closely with faculty in regular RENW focus area technical meetings. We are particularly looking for candidates who can operate effectively in a diverse community of students and faculty, and share our vision of helping all constituents reach their full potential. At present, the Institute is interested in staff scientists with the following backgrounds:

**Database/visualization Specialist (Posting number 1600454):** We seek outstanding candidates with expertise in scientific data management, including database mining and building, visualization, experience in broad-based data modeling, and familiarity with a range of computer applications related to energy, environment, and water applications. Minimum educational requirements include a Master's degree in epidemiology, environmental or environmental health sciences, exposure science, computer science, or a related discipline. A doctoral degree in one of these fields is preferred. Work experience of 4-5 years beyond the Master’s degree or two years beyond a doctoral degree is preferred. This position requires strong quantitative skills with expertise in analysis of large datasets.
Proficiency with population based studies and surveys, SAS and R, geographical information systems (GIS), advanced statistical methods (e.g., spatial statistics, cluster analysis, etc.), or computational analysis of large datasets is desired.

**Environmental and/or Ecological Economist (Posting number 1600448):** We seek outstanding candidates with expertise and experience in the valuation of environmental, ecological, and social benefits associated with both natural and engineered systems, including those associated with energy production. The ideal candidate would possess a doctorate in economics or equivalent discipline with a focus on environmental/ecological/energy economics and/or industrial ecology, with experience in relevant tools such as cost/benefit analysis, Life Cycle Assessment, willingness-to-pay, contingent valuation, and/or ecosystem services. Two years' experience beyond the Ph.D. is required.

**Policy and Planning Specialist (Posting number 1600449):** We seek outstanding candidates with interdisciplinary expertise and experience in policy disciplines relevant to the intersection of energy and environment. Minimum educational requirements include a Master’s degree in city/urban/regional planning, legal studies, management, public policy, public administration, sociology, or a related discipline. A doctoral degree in one of these fields is preferred. Work experience of 4-5 years beyond the Master’s degree or two years beyond a doctoral degree is required.

**Materials, Device & Instrumentation Scientist (Posting number 1600450):** We seek outstanding candidates with expertise and experience in advanced materials science and devices. Expertise in controlled synthesis of materials such as layer-by-layer growth via physical vapor deposition techniques such as pulsed laser ablation, sputtering, etc.; combinatorial growth; physical characterization of advanced materials using tools such as PPMS, advanced X-ray characterization, advanced microscopy and experience with a range of device characterization techniques. Will be responsible for overseeing RENEW shared instrumentation facilities. A doctorate in a relevant science or engineering discipline with a minimum of two years work experience beyond the doctorate is required.

Successful applicants will spend 50% time developing new research programs and 50% time working on providing support to existing research programs. They will work collaboratively with groups of RENEW faculty and their graduate students on existing projects and also to develop large interdisciplinary grant proposals.

**Minimum qualifications:** Master's or Ph.D. with relevant experience as specified above for each position. All candidates must have a proven record or strong drive toward team research, a strong record of research publication, and proven ability to write grant proposals. Applicants should submit a CV highlighting relevant experience and names of at least three references via the UBJobs system ([https://www.ubjobs.buffalo.edu/](https://www.ubjobs.buffalo.edu/)). Review of applications will begin July 1, 2016 and will continue until the positions are filled. Salary/compensation will be dependent on educational background and experience. For additional information, please email renew@buffalo.edu.

**About UB:** The University at Buffalo is the largest and most comprehensive university in The State University of New York (SUNY) system, with about 19,000 undergraduates, 10,000 graduate students, and 1600 full-time faculty (which is expected to grow by 300 faculty over
the next five years). Buffalo is located in New York State’s second-largest metropolitan area, known for its friendly residents, world-class cultural institutions, and international flavor. RENEW faculty are located on the UB North and South Campuses, in or adjacent to suburban Amherst, an area that combines outstanding public schools and services with a surprisingly low cost-of-living. Downtown Buffalo, with eclectic neighborhoods, the Lake Erie waterfront, and vast cultural resources, is 15 minutes away by car. The awe-inspiring Niagara Falls is also just 20 minutes away.

*The University at Buffalo is an Equal Opportunity/Affirmative Action Employer/Recruiter.*