Postdoctoral Researcher – Urban Boundary Layer and Extreme Heat
Brookhaven National Laboratory

Job Title	Postdoctoral Researcher – Urban Boundary Layer and Extreme Heat
Department	Environmental Science and Technologies https://www.bnl.gov/envsci/
Institution	Brookhaven National Laboratory Upton, New York
Date Posted	May 21, 2025
Application Deadline	Open until filled
Position Start Date	Available immediately
Job Categories	Post-Doc
Academic Field(s)	Atmospheric Sciences
Job Website	https://jobs.bnl.gov/job/upton/postdoctoral-researcher-urban-boundary-layer-and-extreme-heat/3437/79529357488
Apply Online Here	https://bnl.wd1.myworkdayjobs.com/Externa/job/Upton-NY/Postdoctoral-Researcher---Urban-Boundary-Layer-and-Extreme-Heat_JR101661
Apply By Email	

Job Description

The selected candidate will join the BNL's Center for Multiscale Applied Sensing team primarily as part of the Southwest Urban Corridor Integrated Field Laboratory team. The Southwest Urban Corridor Integrated Field Laboratory is a multi-institutional project supported by the Department of Energy's Biological Environmental Research program. The project aims to integrate a diverse suite of high-

Postdoctoral Researcher – Urban Boundary Layer and Extreme Heat
Brookhaven National Laboratory

resolution observations (atmospheric, land surface, and infrastructure), diagnostic/predictive models, and civic engagement to provide new knowledge and deliver next-generation predictive tools. These tools are meant to promote equitable policy interventions targeting extreme climate events, carbon dioxide emissions, and local air pollution within and across the Arizona urban corridor.

Essential Duties and Responsibilities:

- Participate in the development of predictive simulations of the urban environment
- Design field deployment strategies to evaluate and inform next-generation predictive urban climate models (e.g., using OSSEs (Observing System Simulation Experiments) or ablation studies, through extensive literature review of past field campaigns, through interactions with project stakeholders)
- Participate in summer field work
- Conduct research into the urban boundary layer using “big data” (e.g., crowd sourced data or from mobile and distributed instrument networks)
- Write and publish results in peer-reviewed journals, in coordination with team leadership
- Report on results at regular group meetings and during scheduled seminars and colloquia
- Participate in conferences and workshops, regular group meetings, and assist with notetaking

EEO/AA Policy

Equal Opportunity/Affirmative Action Employer Brookhaven Science Associates is an equal opportunity employer that values inclusion and diversity at our Lab. We are committed to ensuring that all qualified applicants receive consideration for employment and will not be discriminated against based on race, color, religion, sex, sexual orientation, gender identity, national origin, age, status as a veteran, disability, or any other federal, state, or local protected class. BSA takes affirmative action in support of its policy and to advance the employment of minorities, women, protected veterans, and individuals with disabilities. We ensure that individuals with disabilities are provided reasonable accommodations to participate in the job application or interview process, perform essential job functions, and receive other benefits and privileges of employment. Please contact us to request accommodation.

Contact Information

Please reference Academickeys in your cover letter when

Postdoctoral Researcher – Urban Boundary Layer and Extreme Heat
Brookhaven National Laboratory

applying for or inquiring about this job announcement.

Contact Katia Lamer
Environmental Science and Technologies
Brookhaven National Laboratory
Upton, NY

Contact E-mail klamer@bnl.gov