Two Postdoctoral Research Scientists: (1) Urban Heat Modeling & (2) Solar Induced Fluorescence Research

Location: Boston, MA
Open Date: ASAP
Deadline: Until Filled

Description
The Hutyra Lab at Boston University is seeking two Post-Doctoral Research Scientists. The lab is actively engaged in urban climate modeling and carbon cycle science, including field work, numerical modeling, and the analysis of field and remotely sensed data.

Position 1: Urban Climate Modeling

- Develop and implement statistical methods to model urban air temperatures and humidity, assessing the sensitivity to changes in urban tree cover and albedo
- Develop and test scenarios for heat mitigation efficacy both across US climate zones and across the globe where sensor data may be much more sparce

Position 2: Measuring and Understanding Solar Induced Fluorescence (SIF)

- Contribute to field deployment of SIF instruments in urban and rural settings, including instrument characterization, analysis of the climatic and vegetation structural controls on SIF, and improvement of models for carbon exchange.
- Analysis of tower-based SIF measurements and satellite-based SIF in urban and rural OCO target regionals

Candidates will be expected to contribute to collaborative projects, engaging with other faculty, students, and collaborators outside the University. Candidates will have the opportunity for conference travel and to build their research experience in ways that supports their career goals. Candidates for Position 2 should expect field and laboratory work, including travel to sites across Massachusetts and Maryland.

The salary is commensurate with experience. Applicants must have a PhD by Spring/Summer 2024 in atmospheric science, environmental science, statistics, data science, engineering, or related field.

Qualifications

- Expertise in quantitative data analysis and modeling, particularly using R, Python, and/or GEE.
- Domain expertise in urban climates OR solar induce fluorescence.
- Expertise using remote sensing data products, include land (thermal and optical for urban climate modeling) and atmospheric remote sensing (for SIF position).
- Strong written and oral communication skills
- Strong collaborative and organizational skills

Application Instructions
To apply, please submit the following materials:

- Cover letter describing your interest in the position, your career objectives, and relevant expertise and background
- CV
- Names and contact information for 3 references.

Applications will be reviewed on a rolling basis. Please contact Professor Hutyra (lrhutyra @ bu.edu) with any questions regarding the positions.

Boston University is an equal opportunity employer, and all qualified applicants will receive consideration for employment without regard to race, color, natural or protective hairstyle, religion, sex, age, national origin, physical or mental disability, sexual orientation, gender identity, genetic information, military service, pregnancy or pregnancy-related condition, or because of marital, parental, or veteran status.