Boundary Layer Meteorology, Air Quality and Environmental Health

Job Type: Post-Doc

Job Rank: Postdoctoral Research Scientist

Job Institution: Michigan Technological University

Job Description:

Michigan Technological University has an immediate opening for an air quality research scientist in the Department of Civil, Environmental, and Geospatial Engineering under the supervision of Professor Judith Perlinger. The successful candidate will work in a multidisciplinary environment at the intersection of engineering and environmental health with a focus on air quality, exposure science, and boundary layer meteorology. The candidate will conduct research on human health effects of carbon-based energy and the transition to renewable energy in rural Upper Michigan. The position will involve characterization of boundary layer meteorology in western Upper Michigan, supervision of deployment of wearable technologies for human exposure assessment, implementation of crowdsourced sensor technologies for outdoor and indoor air quality and associated data analysis, and participation in implementation of science for renewable energy in rural settings.

The successful candidate will have a doctoral degree in the area(s) of atmospheric science, engineering, environmental health/exposure science, or related field. Preference will be given to candidates with experience in data science (e.g., R or Python programming, and GIS, AERMOD, or CMAQ application), air quality measurement instrumentation and data analysis, micrometeorological measurements and data analysis, and/or human exposure assessment. Preference will also be given to candidates with strong interpersonal skills, oral/written communication skills, and the ability to work collaboratively on a transdisciplinary team.

The appointment is for 12 months, with an option for renewal for one year contingent upon satisfactory performance. To apply, candidates must submit a cover letter, curriculum vitae, diversity statement that describes how their past and/or potential actions support a culture of diversity, equity, inclusion, and a sense of belonging where all members of a campus community can excel, and contact information for three professional references at the following link. For full consideration, applications should be received by May 1st, 2023.

The position will remain open until filled. Please contact Dr. Judith Perlinger (jperl@mtu.edu) with any questions about the position. MTU is an Equal Opportunity Educational Institution/Equal Opportunity Employer and conducts background checks on all final candidates.

How to apply: