

The UAlbany Center of Excellence, located at the State University of New York at Albany (UAlbany), is seeking a postdoctoral scientist interested in examining extreme temperatures in an urban environment (New York City (NYC), in this case) and an enthusiasm for creating tools to help solve real-world problems relating to extreme temperatures and heat in particular.

This position is a full-time two-year term position. The chosen candidate will conduct basic analysis and model evaluation research using a suite of pre-existing high-quality weather observations for NYC and create a high-quality informational webpage that displays critical weather information as well as ancillary information relevant to extreme temperatures (locations of parks, cooling centers, etc.).

This position will communicate extensively with a diverse multidisciplinary team at UAlbany, the National Weather Service, NYC Emergency Management, and others.

Prospective applicants are asked to submit via email to Dr. Nick Bassill (nbassill@albany.edu), Director of Research & Development at the UAlbany Center of Excellence, the following information:

- (a) a curriculum vitae including publications or relevant conference presentations
- (b) a list of three references (name, title, and contact information)
- (c) a brief statement of interest
- (d) if available, a webpage that you have created (ideally with some type of inherent mapping)

The position will remain open until filled. Preference will be given to applications that are received before 1 January 2022. Ideally this position would begin coinciding with the spring semester.

JOB SUMMARY: The Center of Excellence is a state-funded organization that focuses on “real-world” problems in New York state. This particular work is a NOAA funded project that includes scientists with backgrounds in meteorology, modeling, communications, hazard assessment and mitigation, and more. This position will work extensively with observations from the New York State Mesonet (NYSM), as well as networks maintained by the NYSM such as the Con Edison micronet. Other networks of opportunity such as ASOS will also be used. Original research will be conducted analyzing the ability existing modeling systems have in reproducing observed distributions of extreme temperatures in NYC, and attempt to relate these results to weather regime and/or forecast time horizon. Concurrently, an informational website designed for use primarily by the National Weather Service and NYC Emergency Management will be created which will incorporate results from the aforementioned research as well as real-time products to aid understanding of the distribution of extreme temperatures within NYC during and before events.

REQUIREMENTS INCLUDE:

Education and Experience

- A Ph.D. Degree in Atmospheric Science, Meteorology, Environmental Science, Information Science, or related field from a college or university accredited by the U.S. Department of Education or an international recognized accrediting organization (equivalent combination of education/related experience accepted) within the last year
- Demonstrated record of research and publication and/or product development and/or website creation

Knowledge, Skills and Abilities

- Strong programming skills (Python preferably, others considered)
- Strong visualization software skills (Matplotlib, D3, GIS, NCL, etc.)
- Website experience (JavaScript/React, PHP, etc.)
- Experience with applied statistics, numerical models, and/or creation of analyses
- Ability to work independently and/or together as a team, and to work with minimal supervision
- Strong written and oral communication skills

Recommended

- An interest in urban meteorology, and extreme temperatures in particular
- An enthusiasm for working with key stakeholders to improve their operations, and ultimately improve the lives of those affected by extreme temperatures
- An interest in developing operational products

Please contact Dr. Nick Bassill (nbassill@albany.edu) with any questions.