4 Postdoctoral Positions in Cloud Processes, Modeling, and Remote Sensing

The Environmental and Climate Sciences Department (https://www.bnl.gov/envsci/) at Brookhaven National Laboratory (BNL) invites applications for four Postdoctoral Research Associate positions. The successful candidates will join the Cloud Processes Group (https://www.bnl.gov/envsci/cloud/) that is recognized for its state of the art observational and modeling studies of the microphysical and dynamical processes that impact the lifecycle of clouds and convection, with the aim of improving their representation in climate models and increase our ability to understand and project global change.

All positions require a Ph.D. in atmospheric science or a closely related field (or by the time of appointment), and a background in cloud-related research. It is preferred that candidates have: experience with atmospheric modeling at LES, cloud-resolving or global scales; experience with analysis of observational datasets, particularly those acquired via remote sensing; and have a strong programming background and verbal and written communication skills. Further requirements and preferences are given in the individual position descriptions.

The successful candidates are expected to interact with a team of resident scientists (Drs. Michael Jensen, Scott Giangrande, Andrew Vogelmann, and Pavlos Kollias [http://www.somas.stonybrook.edu/people/faculty/pavlos-kollias/] and form an exciting, collaborative group that spearheads innovative cloud research using modeling, observations, and analysis methodologies. Candidates with an appetite for team approaches and solid independent thinking are strongly encouraged to apply. The successful candidates will have the opportunity to interact with scientists and graduate students at Stony Brook University, as well as with an extensive network of collaborative scientists, and are expected to publish and present results at national and international venues.

Review of applications begins immediately. Applications will be accepted until the positions are filled. The initial appointment will be one year, with a conditional extension for one or two years.

See the links below for full position descriptions, specific position requirements, and to submit your application. (Only apply to the position most closely aligned with your interests, as the application can be applied to all positions.)

- Examine the processes that drive the lifecycle of shallow clouds, their interaction with the environment and/or deep convection using observations and/or modeling: https://jobs.bnl.gov/job/upton/postdoctoral-research-associate-atmospheric-science/3437/2597054
- Determine the physical reason for cloud simulation deficiencies through analysis of cloud-related observations, and high-resolution and/or large-scale model fields: https://jobs.bnl.gov/job/upton/postdoctoral-research-associate-atmospheric-science/3437/2597054
- Improve shallow convection parameterization schemes by combining ground-based observations, forward instrument simulators and high-resolution model output from cloud-resolving models: https://jobs.bnl.gov/job/upton/postdoctoral-research-associate-atmospheric-science/3437/2597055
- Improve convective climate-cloud parameterization schemes through the use of cloud radar and scanning weather radars using forward instrument simulators and spectral bin microphysics model outputs from the Weather Research and Forecasting model: https://jobs.bnl.gov/job/upton/postdoctoral-research-associate-atmospheric-science/3437/2597056

BNL Policy requires that research associate appointments be made to individuals who have received their doctorate within the past five years.

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