

Tenure Track Faculty Position in SoMAS

Required Qualifications: Ph.D. in Atmospheric Science or related field in hand no later than August 31, 2022. Capacity to teach undergraduate and graduate courses in atmospheric sciences and meteorology with particular emphasis on issues related to boundary layer processes and dynamics.

Preferred Qualifications: Demonstrated excellence in research related to boundary layer meteorology or closely related topics, and a compelling agenda for future research. Experience obtaining and managing external research funding. Experience and interest working in multi-disciplinary or trans-disciplinary environments. Potential for collaboration within the School of Marine and Atmospheric Sciences and the University's Public Health program to advance its research mission. Demonstrated excellence in teaching undergraduate or graduate courses in boundary layer meteorology or closely related topics. Experience with course and curriculum development. Experience mentoring undergraduate and/or graduate students.

Description of Duties: The School of Marine and Atmospheric Sciences (SoMAS) at Stony Brook University invites applications for a tenure or tenure track Professor of Empire Innovation position in the area of Boundary Layer Meteorology. The preference is for a mid-level scientist, but highly qualified junior-level applicants also will be considered. The ideal candidate will have expertise in the development and use of modern remote sensing and in-situ techniques to understanding wind flows in complex environments, turbulent mixing and energy balance, boundary layer processes and dynamics and modeling in urban, coastal, and offshore environments. Candidates with a demonstrated record and experience using atmospheric observations of boundary layer processes for model development, evaluation, and scientific discovery are preferred. Experience in the application and development of machine learning techniques at the intersection of advancing physical models is also desirable. Candidates with a track record of maintaining a robust extramurally funded research program and/or demonstrated ability to pursue and secure funding to support a robust research program are preferred. The successful candidate will also have the opportunity to interact with scientists and engineers at neighboring Environmental and Climate Sciences Department (<https://www.bnl.gov/envsci/>) at Brookhaven National Laboratory. In addition, there will be opportunities to work on urban science through engagement with the Center for Multiscale Applied Sensing (CMAS; <https://www.bnl.gov/cmas/>) and offshore wind science in connection with Stony Brook's Advanced Energy Research and Technology Center (AERTC).

The incumbent will be responsible for teaching and mentoring at the undergraduate and graduate levels, collaborating with interdisciplinary research and teaching teams, developing curriculum, and performing service to the university and the broader community. Incumbent will be expected to engage in cross-disciplinary collaboration with the University's Public Health program in environmental epidemiology and community health management (e.g., modeling of particulate matter and reactive gases), and lead efforts which support the planned continuing investment in this new area of SUNY strength and focus.

Special Notes: This is a tenure track position. FLSA Exempt position, not eligible for the overtime provisions of the FLSA.

Application Instructions: Complete applications should include a curriculum vitae, statements of teaching and research interests (including a list of previous courses taught), a statement about relevant experience in science outreach and diversity inclusion, and names and contact information of at least three references. Applications should be received by May 1, 2022 for best consideration, although applications will be accepted until the position is filled.

Anticipated Start Date: Negotiable between 9/1/22 and 9/1/23

Campus Description

Stony Brook University, home to many highly ranked graduate research programs, is located 60 miles from New York City on Long Island's scenic North Shore. Our 1,100-acre campus is home to 24,000 undergraduate, graduate, and doctoral students and more than 13,500 faculty and staff. SBU is a comprehensive research-intensive university and a member of the prestigious Association of American Universities (AAU), which includes 34 public universities

among its 62 members. SBU consists of 12 schools and colleges and a teaching hospital that provides state-of-the-art healthcare in the Long Island region. SBU also manages and performs joint research with Brookhaven National Laboratory, the only Department of Energy Laboratory in the Northeast, and shares doctoral programs with Cold Spring Harbor Laboratory, a world-renowned molecular biology institute. Home to the Emerson String Quartet, the Pollock-Krasner House in East Hampton, New York, the Humanities Institute, and the Southampton Arts Program, and with endeavors that extend to the Turkana Basin Institute in Kenya and the Ranomafana National Park in Madagascar, SBU sustains an international reputation that cuts across the arts, humanities, social sciences, and natural sciences.

School of Marine and Atmospheric Sciences: SoMAS at Stony Brook University is the State University of New York's designated center for marine sciences and a leader in marine, atmospheric and sustainability research, education, and public service. The SoMAS faculty are internationally known for their leadership in research in atmospheric sciences using state-of the art observations and models from the cloud- to global-scale. The expertise of SoMAS faculty places them in the forefront in addressing and answering questions about immediate regional problems, as well as long-term problems relating to the global oceans and atmosphere.

<http://www.somas.stonybrook.edu>