



Postdoctoral position in droplet microphysics at the air-sea interface

The Richter Lab within the Civil and Environmental Engineering and Earth Sciences Department (CEEES) at the University of Notre Dame, IN, USA is seeking a postdoctoral researcher in the area of computational atmospheric boundary layer turbulence and air-sea interaction. Depending on the particular expertise of the candidate, the project will seek to use numerical tools, primarily large-eddy simulation (LES) and Lagrangian cloud modeling (LCM), to better understand the dynamics and interaction between waves, turbulence, spray droplets, marine aerosols, and clouds. The postdoctoral associate will work alongside a wider team making a variety of measurements and observations in both low- and high-wind environments.

Experience in computational fluid dynamics, turbulence, numerical modeling, large eddy simulation, and/or atmospheric science is preferred. Candidates should have a recent Ph.D. in mechanical engineering, civil and environmental engineering, physics, atmospheric science, meteorology, computer science, or related discipline. We are seeking independent, self-motivated scientists who are eager to work on interdisciplinary teams on multi-physics and multi-scale problems. Job responsibilities include designing and conducting process-level simulations to understand air-sea interaction physics, potentially mentoring graduate and undergraduate researchers, and writing peer-reviewed papers in competitive journals.

The duration of the position is one year with funding available to extend to two based on performance. Applications will be accepted until the position is filled. The desired start date is August 1, 2025, but this is negotiable. Interested candidates should send a current CV, 1 recent publication, and a list of 3 references to Prof. David Richter at David.Richter.26@nd.edu. Questions regarding this position should be sent to this address as well. For further information on the research being done in this group, visit <http://www.nd.edu/~drichte2>.