



Position in fog and cloud microphysics

The Environmental Fluid Dynamics Group within the Civil and Environmental Engineering and Earth Sciences Department (CEEES) at the University of Notre Dame is seeking a PhD student or a postdoctoral researcher in the area of computational atmospheric boundary layer turbulence and fog/cloud dynamics. As part of a large, multidisciplinary effort, advanced numerical techniques based on large eddy simulation (LES) and Lagrangian cloud modeling will be joined with field observations of marine fog formation and dissipation. The goal is to study basic transport, thermodynamic, and microphysical mechanisms with aims of improving predictive capabilities at NWP scales. Elements of model and algorithmic development, numerical experimentation, fluid mechanics, atmospheric physics, and verification/validation against observational data will each play a role. The researcher will have opportunities to participate in field campaigns measuring marine boundary layer turbulence and fog properties, in addition to leading numerical efforts on turbulence/fog interaction.

Experience or interest in computational fluid dynamics, cloud microphysics, turbulence, numerical modeling, large eddy simulation, and/or atmospheric science is preferred. Candidates should preferably have degrees in mechanical engineering, civil and environmental engineering, physics, atmospheric science, meteorology, or related discipline.

The duration of the position is either (a) 2 year postdoctoral position or (b) a fully funded PhD student position. Applications will be accepted until the position is filled. The desired start date is as soon as possible, and the position will remain open until filled. Interested candidates should contact Prof. David Richter at David.Richter.26@nd.edu. For further information on the research being done in this group, visit <http://www.nd.edu/~drichte2>.

The University of Notre Dame seeks to attract, develop, and retain the highest quality faculty, staff, and administration. The University is an Equal Opportunity Employer, and is committed to building a culturally diverse workplace. We strongly encourage applications from female and minority candidates and others that will enhance our community.