

Scientist I Position

Job Description

An entry level Scientist I position is open in the Mesoscale and Microscale Meteorology (MMM) Laboratory at the National Center for Atmospheric Research in Boulder, Colorado.

The successful candidate will be expected to contribute to the MMM mission “to advance the understanding of the mesoscale and microscale aspects of weather and climate, and to apply this knowledge to benefit society.” To fulfill this mission, MMM is seeking applications in the following areas:

- **Mesoscale and Microscale Frontiers:** Recent advances have opened the door to global, convection resolving simulations, and large-eddy simulations of mesoscale flows and complex surface-atmosphere exchange. New and planned remote sensing developments in satellites and radar, as well as advances in aircraft instrumentation, promise dramatically improved perspectives on clouds and precipitating processes. In order to probe these frontiers, novel approaches that cross traditional disciplinary boundaries will be needed.
- **Development of community models and application to fundamental research problems:** A cornerstone of MMM science is the development of community weather prediction models. Applications from the ultra-fine scales of 10s-100s of meters to global phenomena at intraseasonal time scales will push the boundaries of technology and scientific understanding and create opportunities for collaborations across NCAR. Wide-ranging applications of earth system community models require representations of physical processes that are more robust across a range of space and time scales. New observations are also important for grounding the development of parameterizations that couple clouds, radiation, aerosols and turbulence and boundary layers.
- **Data assimilation, ensemble prediction and predictability:** Model initialization is tightly coupled to ensemble prediction and predictability research. To address strategic goals of weather prediction research, especially at fine spatial scales, new data assimilation methods may be required. Furthermore, data assimilation offers a rigorous way to simultaneously evaluate models and observations and thus provides a valuable platform for improving models, interpreting field data, and understanding predictability.
- **Interdisciplinary research on extreme weather and its impacts:** Hazard impact assessment and prediction is essential for producing more societally useful information and requires scientists with broad interests and skills. Furthermore, understanding how users of prediction information perceive and interpret information and make decisions, especially in situations of limited predictability, is essential for targeting advances to benefit a diverse collection of people.

A Scientist I in MMM has the opportunity to develop an independent research program within the broad guidelines of the MMM and NCAR strategic plans and to shape future plans. Research is expected to contribute to NCAR’s mission as a national center. Appointment to Scientist II is expected sometime within the 5-year Scientist I term, pending a successful review of scientific productivity and innovation, contributions to MMM and NCAR programs, community service, and promise of scientific leadership. The position comes with a share of administrative and computing support. Additional support may be realized through competitive grants.

Information about MMM and NCAR can be found at www.mmm.ucar.edu

Information for Applicants: To apply for this position, visit UCAR Human Resources

Requirements include a Ph.D. or equivalent experience in atmospheric or related science. Applicants should provide a cover letter, a statement of research interests and how they might contribute to the MMM mission and strategic plan, a current CV, and the names of four potential references. Initial consideration will be given to applications received prior to December 15, 2015.

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Job Location: Boulder, Colorado, United States,

Position Type: Full-Time/Regular