

CIRES/CSD Research Associate

The Cooperative Institute for Research in Environmental Sciences (CIRES) is seeking a research associate to participate in field measurements of water vapor in the upper troposphere and lower stratosphere. The candidate will (i) help develop and use a new technique for detecting low mixing ratios of water vapor (<10 ppm) on an airborne platform and (ii) participate in the interpretation of the acquired data to improve our understanding of processes that control water vapor abundance in the upper troposphere and lower stratosphere and the role of water vapor in global climate change (Peter *et al.*, *Science*, 314, 1399, 2006). The candidate will have a strong collaboration with the Atmospheric Composition and Chemical Processes Group within the Chemical Sciences Division of the Earth System Research Laboratory of the National Oceanic and Atmospheric Administration (NOAA/ESRL). This position is located at University of Colorado-Boulder.

Duties

- Work with an existing team of researchers within NOAA/ESRL to develop and use water vapor instrumentation in the laboratory and field.
- Participate in the laboratory evaluation of the accuracy of frostpoint hygrometers.
- Participate in the development, integration, and use of a Chemical Ionization Mass Spectrometer (CIMS) instrument for new water vapor measurements onboard the NASA WB-57F high-altitude research aircraft (Neuman *et al.*, *Rev. Sci. Instrum.*, 71, 3886, 2000).
- Support the operation of instrumentation in aircraft field measurements at remote locations.
- Interpret airborne and laboratory measurements of water vapor and other species to improve our understanding of atmospheric processes and issues related to climate and global change.
- Present scientific findings at scientific meetings and workshops.
- Prepare scientific findings for publication in peer-review journals.
- Participate in the continued evaluation and improvement of water vapor instrumentation.

Desired qualifications

- PhD in physics, chemistry, or related field.
- Interest in using custom instrumentation to make measurements in the atmosphere and applying these observations to solve atmospheric problems.
- Experience with the design, construction, and/or operation of complex instrumentation.
- Experience with data acquisition and interpretation.
- Experience with development and presentation of scientific results for meetings and for publication in scientific journals.
- Interest working in a closely collaborative group.

For further information, please contact Dr. David W. Fahey (david.w.fahey@noaa.gov).

The position will be filled as a Research Associate through the University of Colorado at Boulder. The University offers an attractive benefits package, including 22 days of vacation per year.

To apply go to: www.jobsatcu.com/applicants/Central?quickFind=60519

Complete your EEO information, upload resume/vita, letter of recommendation (Document1), and proof of degree (Document 2)

Job Code CSD-2

The University of Colorado at Boulder is committed to diversity and equality in education and employment. The University of Colorado at Boulder conducts background checks for all final applicants being considered for employment.