

The Laboratory for Atmospheric and Space Physics (LASP) at The University of Colorado at Boulder, is seeking a post-doctoral researcher to assist in the development of in situ instrumentation for a new long duration scientific balloon mission called Stratéole 2.

Stratéole 2 will study the chemistry, dynamics and meteorology of the TTL and lower stratosphere through novel quasi- Lagrangian measurements. This is a ground-breaking campaign and will be the first long duration instrumented balloon constellation to be deployed at the equator. The focus of the LASP contribution to this mission is to make high-resolution profile measurements of the temperature structure of the TTL and characterize the phase speed spectrum of fine scale atmospheric waves for the first time. Furthermore, we will examine the role of thermal structure in the dehydration of the TTL and the formation of ice particles from wave driven temperature fluctuations.

The post doctoral researcher will be heavily involved in the development, testing and deployment of the in-situ instrumentation, including fiber optic distributed temperature sensors, high precision thermometry, water vapor measurements and particle measurements. The researcher will work closely with a team of engineers, scientists and students, with particular emphasis on the instrument control systems, test and calibration methodologies, and deployment of instruments on the first balloon campaign.

We are seeking a candidate with a PhD in Atmospheric Science or related physical science or engineer discipline, preferably with experience in one or more of these fields: in-situ atmospheric instrument development, atmospheric measurements from airborne platforms, fiber optic distributed temperature sensing, high altitude ballooning. Some experience with software development for autonomous instrumentation or laboratory calibration of instruments would be desirable.

The initial appointment is for one year with a potential extension dependent on performance and funding. A starting date of May 2017 is expected.