**Research position in modeling gravity wave dynamics**

**at GATS, 3360 Mitchell Lane, Boulder**

GATS is seeking an early-career scientist interested in numerical studies of gravity waves (GWs), their sources, propagation, multi-scale interactions, and instability dynamics leading to turbulence. Possible applications based on current research funding include:

1. DNS of stable boundary layer multi-scale dynamics, with possible applications to recent measurements by small UASs,
2. GW sources and propagation conditions accounting for variable dynamics leading to turbulence in the stratosphere using high-resolution mesoscale or DNS models, with possible applications to stratospheric measurements,
3. Modeling deep GW dynamics from sources at lower altitudes into the mesosphere and lower thermosphere (MLT), with applications to various observational data, among them MLT radars, lidars, and imagers at various ground-based observatories, comprehensive field programs (e.g., DEEPWAVE), and/or high-resolution satellite imaging (e.g., AIRS, CIPS), and
4. Modeling GW dynamics extending well into the thermosphere, as inputs to the WACCM-X model at NCAR and the SAMI3/ESF ionospheric model at NRL.

Interested parties should be very familiar with advanced modeling architectures, modeling of complex dynamics, and have experience using the NSF/NCAR, NASA, and/or DoD supercomputers. Positions can vary, depending on interest and experience, from a postdoc to a permanent early or mid-level scientist.

Interested parties can contact Dave Fritts at [dave@gats-inc.com](mailto:dave@gats-inc.com); office phone: 720-274-4747; or at the GATS office across Mitchell Lane from the NCAR Foothills Lab.