

# Graduate Opportunities in Atmospheric Modeling to Understand Greenhouse Gas Emissions

University of Utah, Salt Lake City, UT



COLLEGE OF MINES AND EARTH SCIENCES | THE UNIVERSITY OF UTAH

## DEPARTMENT OF ATMOSPHERIC SCIENCES



The Department of Atmospheric Sciences at the University of Utah (<http://www.atmos.utah.edu/>) seeks **multiple graduate students to study greenhouse gas emissions associated with urban development and energy infrastructure.**

The graduate projects, fully funded by the National Oceanic and Atmospheric Administration (NOAA), address the role of urban design, industrial processes, and societal decisions in shaping greenhouse gas emissions. Samples of guiding questions as part of the projects include:

- *What can explain the spatial and temporal patterns in carbon emissions in urban regions?*
- *How can cities be designed to reduce carbon emissions?*
- *How much methane, as part of the natural gas infrastructure, is “leaked” to the atmosphere?*

The graduate positions require at least an undergraduate degree in a field of environmental earth science. Desired skills include (1) familiarity with atmospheric modeling; (2) strong data analysis skills; (3) demonstrated computer skills (e.g., Linux, R, Matlab, Fortran, GIS); (4) excellent oral and written communication; and (5) ability to work in an interdisciplinary, team environment. In addition, knowledge of the Weather Research and Forecasting (WRF) model would be an asset.

The positions could start **as early as January 2015.**

The students will have the opportunity to participate in inter-disciplinary discussions with members of multiple departments from across the campus, as part of the University of Utah’s Global Change and Sustainability Center (<http://environment.utah.edu/>).

The positions are based at the University of Utah (<http://www.utah.edu/>) in Salt Lake City. The University of Utah is ranked among the top research institutions in the nation by the National Science Foundation and is home to more than 30,000 students and 18,000 employees. Salt Lake City is a sunny Western city with outstanding cultural and outdoor recreational opportunities, including “the greatest snow on earth!” The University of Utah is an Equal Opportunity/Affirmative Action employer and educator. Minorities, women, and persons with disabilities are strongly encouraged to apply.

For more information, please contact one of the following faculty members:

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