

## **Ph.D. Student Position in Cloud Observations and Modeling Available at the University of Oklahoma**

We are excited to announce a new opportunity for a highly motivated and dedicated individual to join our Meteorology program at the University of Oklahoma (<http://meteorology.ou.edu>) as a Ph.D. student. This position, funded by the Department of Energy (DOE) project, will offer the successful candidate a unique opportunity to engage in a project focusing on convective clouds in a subtropical coastal metropolitan region. The project aims to improve our understanding of the interactions between convective clouds and their surrounding environments, a key challenge for numerical weather prediction and Earth system models. The project will leverage unique datasets from the DOE Atmospheric Radiation Measurement (ARM) Tracking Aerosol Convection Interactions Experiment (TRACER) field campaign in the Houston area. The successful candidate will have the opportunity to work with these datasets and high-resolution model simulations to test hypotheses on the key processes that control the properties of individual convective cells in a warm and humid subtropical coastal metropolitan region.

### **Responsibilities:**

- Conduct high-quality research under the supervision of the project's Principal Investigator and Co-Principal Investigators.
- Analyze multi-source observations, especially dual-polarization radar data.
- Run and analyze high-resolution Large-Eddy Simulations (LES).
- Participate in the preparation and publication of research findings.
- Attend and present at academic conferences and meetings.

### **Qualifications:**

- A master's degree in Atmospheric Sciences or a closely related field.
- High motivation, strong analytical and problem-solving skills.
- Experience with data analysis and/or numerical modeling.
- Excellent written and verbal communication skills.

### **Benefits:**

- This fully funded Research Assistant will provide a competitive monthly stipend set by our meteorology program, and will fully cover tuition although the student may need to pay certain fees charged by the university.
- A stimulating and supportive research environment.
- Opportunities for professional development and networking.
- Funding for conference travel and other professional activities.

### **Application Deadlines:**

Application deadlines for the Meteorology program can be found on the Graduate College Programs page (<https://www.ou.edu/gradcollege>). We are looking for someone who can start in Spring 2024 but will consider fall or summer starting dates in August and May 2024, respectively. Please apply as soon as possible, especially for international students who will require a student visa. For more information about the application process and the Graduate College, please visit <https://meteorology.ou.edu/academics/prospective-graduate/how-to-apply/> and OU Graduate College (<https://www.ou.edu/gradcollege>).

For more detailed information on the position, please contact Dr. Yongjie Huang ([Yongjie.Huang@ou.edu](mailto:Yongjie.Huang@ou.edu)), Dr. Ming Xue ([mxue@ou.edu](mailto:mxue@ou.edu)), or Dr. Greg McFarquhar ([mcfarq@ou.edu](mailto:mcfarq@ou.edu)).

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