Graduate Research in Analytical, Environmental and Atmospheric Chemistry

Our Research and Facilities:

- Strong atmospheric chemistry focus within the Department of Chemistry
- World-class laboratory and field programs
  - Aircraft, ship, and ground-based field research
  - New simulation chamber facility
  - State-of-the-art instrumentation
- National and international collaborations across departments and fields
- Part of the vibrant atmospheric chemistry community in Boulder - the area with the highest number of atmospheric scientists and chemists in the US
- $4 million/yr research budget
- ~50 papers/yr

Boulder, CO:

- 300 days of sun
- Bike and pedestrian friendly
- Skiing, biking, hiking, climbing, and more
- Lively downtown (Pearl St)
- 30 min. to Denver
- [vimeo.com/181645979](vimeo.com/181645979)

Our Program:

- 8 Faculty
- ~30 grad students
- 10 postdocs & res. scientists
- Our graduates have gone on to careers in national labs, academia, industry, policy & government
Examples of student research:

**Allison Harris**, Vaida Lab

Multiphase photochemistry of keto-acids under atmospheric conditions  
[www.colorado.edu/lab/vaidagroup/allison-e-reed-harris](http://www.colorado.edu/lab/vaidagroup/allison-e-reed-harris)

*J. Phys Chem.* A publication:  
[pubs.acs.org/doi/full/10.1021/jp502186q](http://pubs.acs.org/doi/full/10.1021/jp502186q)

**Ryan Davis**, Tolbert Lab

Heterogeneous nucleation studied in a long working-distance optical trap  
[cires1.colorado.edu/science/groups/tolbert/people/davis/index.html](http://cires1.colorado.edu/science/groups/tolbert/people/davis/index.html)

PNAS publication:  
[pnas.org/content/112/52/15815](http://pnas.org/content/112/52/15815)

Collaboration Opportunities

The Cooperative Institute for Research in Environmental Sciences (CIRES) is a joint research partnership that connects scientists at NOAA and several different departments at CU.

**NCAR** studies the behavior of the atmosphere and related Earth and geospace systems.

**RASEI** is a joint institute between CU-Boulder and the National Renewable Energy Laboratory (NREL) addressing complex problems in energy with a multidisciplinary, multi-institutional approach.

Interested? Applications for Fall 2017 are due the 15th of December 2016. More information here:  
[tinyurl.com/ANYL-1st](http://tinyurl.com/ANYL-1st) and [colorado.edu/chembio/prospective-graduate/admission](http://colorado.edu/chembio/prospective-graduate/admission)