



**PennState**

# Climate Science

## RESEARCH EXPERIENCES FOR UNDERGRADUATES



**MAY 31 - AUGUST 4, 2017**

*The climate system involves highly complex interactions among the atmosphere, oceans, cryosphere, lithosphere, and biosphere; unraveling the mechanisms that control the Earth's climate is one of the most intellectually challenging scientific problems of the day!*

**Gain first-hand knowledge and research experience around topics such as:**

- floods and droughts
- regional and global climate change
- storm surge
- terrestrial and marine carbon cycling
- tropical cyclones
- weather and climate risk
- atmospheric aerosols
- paleoclimate reconstruction
- atmospheric waves and storm tracks

**Research suitable for a variety of undergraduate majors, including:**

- atmospheric science
- chemistry
- ecology
- engineering
- geography
- geology
- mathematics
- oceanography
- physics

**Research may involve:**

- fieldwork
- laboratory experiments
- numerical modeling
- data analysis

*\*\*Preference will be given to rising juniors and seniors considering graduate school or a career in climate science. Students from underrepresented groups are strongly encouraged to apply.*

This REU program is administered by Penn State's Department of Meteorology and Atmospheric Science. Learn more and apply online at the Penn State Climate REU Website: <http://micromet.psu.edu/reuclimate/>

**Apply between December 15, 2016 and February 15, 2017**

Program students receive a \$5000 stipend, furnished housing, and reimbursement for travel to/from Penn State and a scientific conference.