



NASA Student Airborne Research Program (SARP)

Summer Internship for Advanced Undergraduate STEM Majors

Research in the Earth & Atmospheric Sciences from onboard a NASA Aircraft in Southern California

The NASA Airborne Science Program announces the opportunity for highly motivated rising senior undergraduates to participate in an 8-week summer 2018 internship program (June 17-August 10) in Earth system science using its DC-8 flying laboratory.

The NASA Student Airborne Research Program (SARP) is funded by the NASA Ames Cooperative for Research in Earth Science and Technology (ARC-CREST) and managed by the National Suborbital Research Center (NSRC).

Participants will acquire hands-on research experience in all aspects of a scientific campaign, including **flying onboard the NASA DC-8**, one of NASA's major research aircraft used for Earth and atmospheric science.

Multi-disciplinary Research Projects

Participants will work in four multi-disciplinary teams to study surface, atmospheric, and oceanographic processes. Participants will fly onboard the NASA DC-8 and assist in the operation of instruments to sample and measure atmospheric gases and image land and water surfaces in multiple spectral bands. Along with airborne data collection, students will participate in taking measurements at field sites.



**APPLICATION DEADLINE:
January 31, 2018**

<http://airbornescience.nasa.gov/nsrc/sarp>

Email questions to nasasarp@baeri.org

Mission faculty and research mentors will guide participants through instrument operation, sample analysis, and data reduction. Each student will develop an individual research project from the data collected and will deliver a final presentation on their results. Many students in the past have gone on to present their research at national conferences.

Academic Background

Applicants must have a strong academic background in any of the physical, chemical, or biological sciences, or engineering and an interest in applying their background to the study of the Earth system. We especially encourage applications from students majoring in Earth, environmental or atmospheric sciences and related disciplines. All participants will receive a stipend, travel costs, as well as housing and transportation during the program.



Applicants will be selected based on:

- Excellent academic performance (GPA of at least 3.0/4.0)
- Science, Technology, Engineering or Mathematics (STEM) Major
- Evidence of interest in Earth system science and hands-on research
- Leadership qualities and ability to perform in teams