The NASA Airborne Science Program invites highly motivated advanced undergraduates to participate in an 8-week summer 2014 internship program in Earth system science using its DC-8 flying laboratory.

The NASA Student Airborne Research Program (SARP) provides students with hands-on research experience in all aspects of a major scientific campaign, from detailed planning on how to achieve mission objectives to formal presentation of results and conclusions.

SARP is managed by the National Suborbital Education and Research Center. SARP 2014 will take place in Southern California with research locations based at the University of California, Irvine and at the NASA Dryden Aircraft Operations Facility in Palmdale.

Multi-disciplinary Research Projects

Students will work in multi-disciplinary teams to study surface, atmospheric, and oceanographic processes while flying onboard the NASA DC-8, a highly specialized research aircraft used for studying Earth system processes, calibration and validation of space-borne observations, and prototyping instruments for possible satellite missions.

Participants will assist in the operation of instruments onboard the DC-8 to sample and measure atmospheric solar radiation and gases, and to image land and water surfaces in multiple spectral bands. Along with airborne data collection, students will participate in taking measurements at field sites.

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.

APPLICATION DEADLINE IS FEBRUARY 7, 2014

Applications can be found at the SARP 2014 website: www.nserc.und.edu/sarp/sarp-2014

Email questions to SARP2014@nserc.und.edu

2013 SARP students and research mentors in front of the NASA DC-8