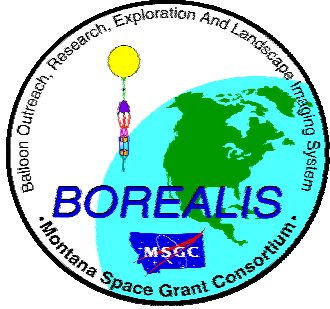
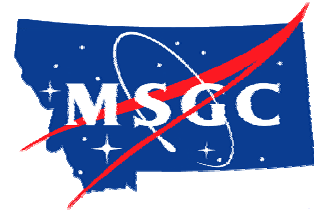


2008 Student internship opportunities with



BOREALIS

Montana's High Altitude Balloon Research and Education Program

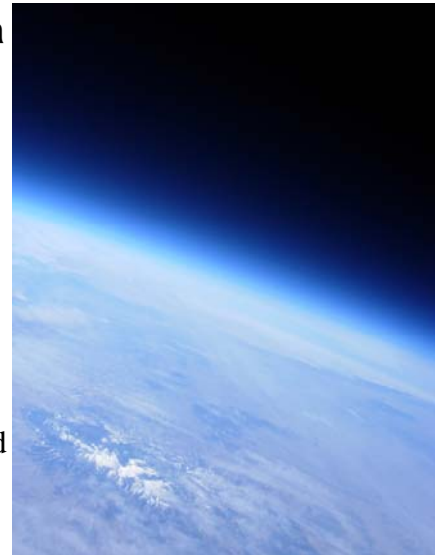


Design, Develop, and Deploy Experiments to Near Space

Paid summer internships are available for students from Montana campuses with the Balloon Outreach, Research, Exploration And Landscape Imaging System (BOREALIS) program at Montana State University – Bozeman.



Summer internships are offered at MSU-Bozeman for sophomore to senior undergraduate college students. Students work in a mission-like team environment where they are encouraged and mentored to design, develop and deploy experiments to the edge of space (100,000 feet). **Students receive training** and hands-on experience in using upper level wind forecasts for flight track predictions, balloon inflation and launch and the use of amateur radios and GPS systems for the tracking and recovery of the experimental payloads.



During the summer of 2006, the interns participated in ten balloon flights. Experiments designed and flown by the BOREALIS team included a multi-channel data logger for measurement of temperature, pressure, UV-radiation intensity, ozone, flight altitude and time. A capsule designed by Aerospace Corporation and NASA Ames to monitor the breakup of satellites reentering the atmosphere was flown twice to test its telecommunication system. **During the summer of 2007**, the interns participated in the construction, integration and flight of a cosmic dust collection experiment on the High Altitude Student Platform (HASP), a NASA scientific balloon.



This summer up to five students will have the opportunity to participate in the BOREALIS summer internship program at MSU-Bozeman. This year's activities will be focused on three areas: (1) Analysis of the particles collected during 2007 NASA High Altitude Student Platform (HASP) flight; (2) Completing design modifications on our passive cosmic dust experiment and its integration and deployment onto the HASP platform for the 2008 flight; (3) Several sounding balloon launches are planned to give interns the opportunity to design, fabricate and test flight experiments of their own design. Students may also have the opportunity to travel to Boulder, Colorado to act as instructors at the *Starting Student Space Hardware Programs Workshop*.

The program announcement and application procedures may be found on the Montana Space Grant home page: <http://spacegrant.montana.edu>. Application materials must be mailed to the address to the right and be **received by February 15th, 2008.**

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