

TYPICAL OPENINGS:

Global Change Internship (Summer 2009): \$10,000 / project

- **Project Description:** Tribes are currently faced with a wide range of problems related to climate change. Traditional ways of life are threatened by changes affecting water supplies, vegetation, wildlife, erosion, farming methods, subsistence hunting and fishing, and many features of the landscape. In this internship proposal, we seek to provide students with a learning experience that may add to tribal understanding of the causes and effects of climate issues and potentially help tribes in planning for adaptation to these changes. Students will be encouraged to share with USGS scientists their perspectives on climate change.
- **Minimum Qualifications:** Students are not required to be American Indian or Alaska Native for this internship opportunity. They are, however, required to show how their internship experience will benefit a tribe. Applications including a letter of support from a tribal council, organization, academic institution, or other organization describing benefits of the student internship to a tribe are requested.

Summer Field Training Program (Every Summer): Varies

- **Project Description:** The USGS partners with the National Association of Geoscience Teachers (NAGT) to provide summer internship opportunities for college students who have completed a field-based course. Established in 1965, this program is one of the longest continuously running earth science internships in the country. Field camp directors nominate their top students. This nominated group is then invited to apply for summer positions with the USGS doing field, laboratory, or scientific office work. Over 1,500 students have participated in this program from its inception, with many participants proceeding on to have distinguished careers with the USGS, with academia, or with industry.

Water Resource Research Institute Internships (Every Summer): Varies

- **Project Description:** The State Water Resources Research Institutes, organized as the National Institutes for Water Resources, collaborate with the USGS in operating a student internship program. Located in each State, the District of Columbia, the U.S. Virgin Islands, Puerto Rico, and Guam, these 54 institutes provide undergraduate and graduate students with career-enhancing field, laboratory, and research experience through participation in USGS activities as interns. Interns are employees of participating universities and colleges. Funding is derived from USGS projects or programs that desire to support student interns as part of the mix of efforts required to carry out program or project activities.
- **Minimum Qualifications:** Depends on selected project.

The U.S. Geological Survey (USGS), the Nation's largest water, earth, and biological science and civilian mapping agency, has studied the natural features of Alaska since its earliest geologic expeditions in the 1800s. The USGS Alaska Science Center (ASC), with headquarters in Anchorage, Alaska, studies the complex natural science phenomena of Alaska to provide scientific products and results to a wide variety of partners. The complexity of Alaska's unique landscapes and ecosystems requires USGS expertise from many science disciplines to conduct thorough, integrated research.

Alaska contains many of the most important biological, hydrological, mineral, and energy resources of the Nation and is subject to a wide variety of natural hazards, particularly earthquakes, volcanic eruptions, and landslides. Alaska has large intact ecosystems, rich in natural resources with enormous pressures for development or preservation. Federal, State, and local managers often are at the center of national debate about reaping Alaska's natural resources and preserving its large-scale natural and wilderness integrity. The USGS ASC provides high-quality scientific information necessary for these resource decisions as well as for monitoring long-term change and human-induced effects on the environment.



Agency Mission Statement

The mission of the Alaska Science Center is to provide objective and timely data, information, and research findings about the earth and its flora and fauna to Federal, State, and local resource managers and the public to support sound decisions regarding natural resources, natural hazards, and ecosystems in Alaska and circumpolar regions.

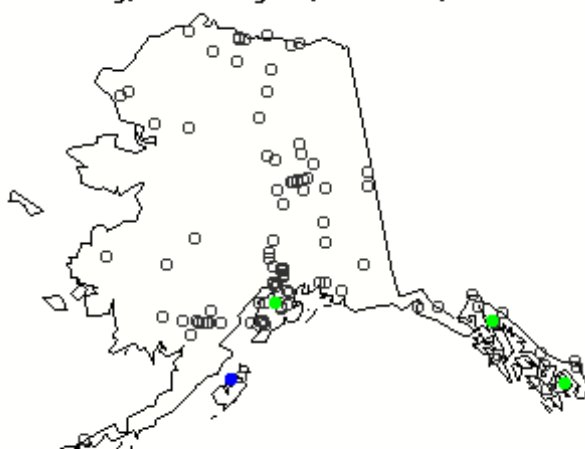
The USGS ASC monitors streamflow at more than 170 locations to:

- Monitor and forecast flooding and streambed scour
- Predict the magnitude and frequency of extreme events
- Provide hydrological assessments for water resources development
- Describe the status and trends in the quality of water resources
- Assure minimum instream flows for fisheries

Monitoring and modeling stream-channel erosion and morphology is critical for communities located on the banks of unstable rivers. Hydrological assessments and ground-water modeling can assist in evaluating water availability for communities and natural resource development.

Water Resources of Alaska

Tuesday, February 16, 2010 15:30ET



Current streamflow conditions



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