



## NAGT-USGS Cooperative Summer Field Training Program



Soon to enter its fifth decade, the National Association of Geoscience Teachers (NAGT)-U.S. Geological Survey (USGS) Cooperative Summer Field Training Program is the longest continuously running internship program in the earth sciences. Over the past forty-five years, more than 2000 students have participated in this program with an impressive number of these individuals becoming full-time employees of the USGS.

The cooperative program was launched at the Geological Society of America meeting in Kansas City in early fall of 1965 when William “Bill” Pecora, then the newly appointed Director of the USGS, held a meeting with a small group of distinguished professors and officers of the NAGT. Pecora felt strongly that the USGS needed to be more engaged in geological education. He wanted to get the professors’ reactions to an initiative that would provide better linkage to academia while providing better summer field assistants for the USGS. Pecora suggested that the USGS would provide support by way of internships for outstanding undergraduate geosciences majors, while NAGT would advertise the program to faculty and students, and solicit outstanding student nominations from the directors of the nation’s geosciences field camps. (Field camp is a tradition in the education of a geoscientist. It is an

intensive course that applies classroom and laboratory training to solving field-based geoscience problems.) Needless to say, ‘Pecora’s Plan,’ as it became known, met with instant approval.

Although some modifications have been made over the years, the NAGT-USGS Cooperative Summer Field Training Program operates today much as it did from the beginning. With active participation from the highest levels of both organizations (including the Director of the USGS), a joint committee oversees the program. The program “year” begins in September with all field camp directors being provided information about the program and the opportunity to nominate up to three students, based on total camp enrollment. Nominated students apply by sending a resume, letter of interest, and transcripts to the USGS Education Office. At the same time, USGS scientists interested in working with an intern send information about proposed field, laboratory, or office-related scientific projects to the Education Office. Candidates are then matched by their course work, skill and interest with up to five projects. The listing of candidates and accompanying academic information are sent to USGS scientists for review, interviews, selection or possible further discussion. The USGS scientist with whom the intern will work makes the final intern selection. As interdisciplinary system science is a cornerstone of USGS science, all science disciplines are encouraged, and do take advantage of this program. Students hired through this program have continually received outstanding reviews from our managers.

Over the years, NAGT has succeeded in identifying top-flight students for the program, and the USGS has succeeded in garnering the interest of competent and enthusiastic supervising mentors. The NAGT-USGS Cooperative Summer Field Training Program continues Pecora’s vision of greater educational involvement and provides a first rate professional experience to students early in their careers. It is a wonderful partnership that influences the career paths of future scientists in positive and exciting ways.

# NAGT/USGS 2010 Cooperative Summer Field Training Program Internship Placements

**Intern:** Christine Barszewski  
**College:** Grand Valley State University  
**Mentor:** Brady Allen  
**Location:** Cook, Washington  
**Project:** Rock Creek Fish Population and Life History Assessment

**Intern:** Kaleb Boucher  
**College:** University of Maine  
**Mentor:** Seth Moran  
**Location:** Vancouver, Washington  
**Project:** Seismic Monitoring of Cascade Range Volcanoes

**Intern:** Amy Brown  
**College:** Sul Ross State University  
**Mentor:** Andrea Foster  
**Location:** Menlo Park, California  
**Project:** Spectroscopic Investigations of Arsenic Speciation and Bioavailability

**Intern:** Timothy Brown  
**College:** University of Houston  
**Mentor:** Shaul Hurwitz  
**Location:** Menlo Park, California  
**Project:** Quantifying the Fluxes of Heat and CO<sub>2</sub> at the Yellowstone Caldera

**Intern:** Matthew Cochrane  
**College:** California State University  
**Mentor:** Jonathan Glen and David Ponce  
**Location:** Menlo Park, California  
**Project:** Geophysical Investigations Related to Earthquake Hazards and Geothermal, Mineral, and Water Resources in Western U.S.

**Intern:** Joseph Cukjati  
**College:** University of Houston  
**Mentor:** Joseph Breen  
**Location:** Harrisburg, Pennsylvania  
**Project:** Geochemical Processes Relating to Resource Extraction and Aquatic Health



**Intern:** Mary Davis  
**College:** State University of New York at Binghamton  
**Mentor:** Dean Anderson and Edwin Weeks  
**Location:** Lakewood, Colorado  
**Project:** Greenhouse Gas Exchanges, Energy, and Evapotranspiration over Subalpine Forest and Urban Ecosystems

**Intern:** Christine Doman  
**College:** University of Michigan  
**Mentor:** Stephen Corn  
**Location:** Glacier National Park, Montana  
**Project:** Amphibian Monitoring and Research in Glacier National Park

**Intern:** Monica Erdman  
**College:** University of California at Santa Barbara  
**Mentor:** William Menzie  
**Location:** Reston, Virginia  
**Project:** Mineral Commodity Industry Reports on a State-by-State Basis

**Intern:** Amy Erschberger  
**College:** University of California at Santa Barbara  
**Mentor:** Erin Boydston  
**Location:** Thousand Oaks, California  
**Project:** Effects of Urban Development and Habitat Fragmentation on the Ecology and Conservation of Mammalian Carnivores

**Intern:** Lucian Farmer  
**College:** Oregon State University  
**Mentor:** Lisa Stillings  
**Location:** Reno, Nevada  
**Project:** The Distribution of Metals in Mineralized Landscapes

**Intern:** Alex Ferguson  
**College:** Idaho State University  
**Mentor:** Walter Mooney  
**Location:** Menlo Park, California  
**Project:** Field and Office Studies of Intraplate Seismicity

**Intern:** Max Gardner  
**College:** Wesleyan University  
**Mentor:** Shane Detweiler  
**Location:** Menlo Park, California  
**Project:** Fault Zone Studies in California and China

**Intern:** Katrina Garman  
**College:** Colgate University  
**Mentor:** Joseph Walder  
**Location:** Vancouver, Washington  
**Project:** Experimental Studies of Hazardous Hydrological Processes on Volcanoes

**Intern:** Ian Hamilton  
**College:** University of Texas at Arlington  
**Mentor:** Kevin Breen  
**Location:** Harrisburg, Pennsylvania  
**Project:** Geochemical Processes Relating to Resource Extraction and Aquatic Health



# NAGT/USGS 2010 Cooperative Summer Field Training Program Internship Placements

**Intern:** Sara Henry  
**College:** California State University  
**Mentor:** Dennis LeBlanc  
**Location:** Northborough, Massachusetts  
**Project:** Cape Cod Toxic Substances Hydrology Field Research

**Intern:** Ian Hoyer  
**College:** Whitman College  
**Mentor:** Andrew Schroth and John Crusius  
**Location:** Anchorage, Alaska  
**Project:** Influence of Catchment Geology and Varying Degree of Cover on the Form, Flux and Concentration of Alaska Nutrients in Cooper River Watershed

**Intern:** Patrick Kelly  
**College:** Colorado State University  
**Mentor:** Cliff Hupp  
**Location:** Reston, Virginia  
**Project:** Vegetation and Hydrogeomorphic Relations

**Intern:** Jamie Margaret Kern  
**College:** Montana State University  
**Mentor:** Michael Lisowski  
**Location:** Yellowstone, Cascade Range Volcanoes  
**Project:** Geodetic Monitoring of Cascade Range Volcanoes and Yellowstone

**Intern:** Bradley King  
**College:** Illinois State University  
**Mentor:** Anthony Crone and Robert Williams  
**Location:** Golden, Colorado  
**Project:** Geological and geophysical Investigations of Hazardous Faults; Data for Earthquake Hazard Assessments

**Intern:** Tory Anne Klettke  
**College:** Western Washington University  
**Mentor:** Shaul Hurwitz  
**Location:** Menlo Park, California and Yellowstone  
**Project:** Quantifying Fluxes of Heat and CO<sub>2</sub> at the Yellowstone Caldera

**Intern:** Franklin Koch  
**College:** Washington University  
**Mentor:** John Lane  
**Location:** Storrs, Connecticut  
**Project:** Applied Hydrogeophysics Research

**Intern:** William Lukens  
**College:** Temple University  
**Mentor:** Laurel Larson  
**Location:** Reston, Virginia  
**Project:** High-Flow Events in Suburban Streams; Physical Nature and Ecological Repercussions of Disturbance

**Intern:** Alexander Lusk  
**College:** University of Washington  
**Mentor:** Byron Stone and Kevin Kincare  
**Location:** Michigan; New York; Massachusetts  
**Project:** Quarternary Investigations and Data Collection for Patterns of Sedimentation in Glacial and Proglacial Environments



**Intern:** Joseph Mangano  
**College:** Western Washington University  
**Mentor:** Jim O'Connor  
**Location:** Portland, Oregon  
**Project:** Gravel-bed River Studies, and Quarternary Mapping Geomorphology Studies along the Columbia River

**Intern:** Jonathan Moen  
**College:** Middlebury College  
**Mentor:** John Nimmo  
**Location:** Menlo Park, California  
**Project:** Investigation of Newly Discovered Processes Related to Unsaturated Zone Flow

**Intern:** Stanley Mordensky  
**College:** George Washington University  
**Mentor:** Scott Southworth  
**Location:** Appalachian Blue Ridge, Virginia and North Carolina  
**Project:** Mount Rogers Region Geologic Map and Research

**Intern:** Joe Mulvaney-Norris  
**College:** Southern Illinois University  
**Mentor:** John Jorgenson  
**Location:** Reston, Virginia  
**Project:** Rare Earth Element Reserves and Resources in North America

**Intern:** Cody Munday  
**College:** Western Kentucky University  
**Mentor:** John Lane  
**Location:** Storrs, Connecticut  
**Project:** Applied Hydrophysics Research

**Intern:** Joanna Panosky  
**College:** University of Rhode Island  
**Mentor:** William Schultz  
**Location:** Golden, Colorado  
**Project:** Field Characterization and Instrumentation of Active Landslides Located in Southwestern Colorado and Along the Central Coast of Oregon

# NAGT/USGS 2010 Cooperative Summer Field Training Program Internship Placements

**Intern:** Caldwell Payne  
**College:** Southern Illinois University  
**Mentor:** George Breit  
**Location:** Denver, Colorado  
**Project:** Origin of Amagmatic Gold Deposits in Northwestern Nevada

**Intern:** Ryan Quinn  
**College:** University of Illinois  
**Mentor:** Noel Hurley  
**Location:** Columbia, South Carolina  
**Project:** Multidisciplinary Assessment of Water resources at Army and Department of Transportation Facilities

**Intern:** Elizabeth Rose  
**College:** University of California  
**Mentor:** Gary Fuis  
**Location:** Menlo Park, California  
**Project:** The Salton Seismic-Imaging Project: Preparations for a Major Active-Source Seismic Survey

**Intern:** Katherine Rouse  
**College:** Whitman College  
**Mentor:** Geneva Chong  
**Location:** Southern Greater Yellowstone Area and Southwest Wyoming  
**Project:** Quantifying Landscape Change Impacts on Habitat Characteristics

**Intern:** Kyle Samperton  
**College:** University of North Carolina  
**Mentor:** Nancy Simon  
**Location:** Klamath Falls, Oregon  
**Project:** Field Studies of Phosphorus Cycling Related to Sediment Processes in Eutrophic Upper Klamath Lake, Oregon

**Intern:** Gustav Seixas  
**College:** Wesleyan University  
**Mentor:** L. Sue Beard  
**Location:** Northwest Arizona and Southeast Nevada  
**Project:** Geologic Mapping and Structural Analysis of Black Canyon Hot Springs

**Intern:** Brett Shurtleff  
**College:** Central Washington University  
**Mentor:** William Schultz  
**Location:** Golden, Colorado  
**Project:** Field Characterization and Instrumentation of Active Landslides Located in Southwestern Colorado and along the Central Coast of Oregon

**Intern:** Luke Smith  
**College:** University of Houston  
**Mentor:** Gerard Butch  
**Location:** Troy, New York  
**Project:** Surface-Water and Ground-Water Networks

**Intern:** Julia Spencer  
**College:** Whitman College  
**Mentor:** Jill Baron  
**Location:** Alpine and Glacial Reaches of the Rocky Mountains  
**Project:** Comparison of Microbial Activity in Headwater Basins Undergoing Rapid Change from Climate Change and Atmospheric N Deposition

**Intern:** Marin Troutman  
**College:** Western Washington University  
**Mentor:** Joan Gomberg  
**Location:** Seattle, Washington  
**Project:** Earthquake Swarms and Tectonics of Eastern Washington

**Intern:** Steven Walker  
**College:** University of Texas at Austin  
**Mentor:** Daniel Goode  
**Location:** West Trenton, New Jersey  
**Project:** Fate and Transport of Biodegrading Contaminants in Fractured-Rock Aquifers

**Intern:** Matthew Weingarten  
**College:** University of Wisconsin  
**Mentor:** Paul Hsieh  
**Location:** Menlo Park, California  
**Project:** Computer Modeling of Contaminant Transport in Fractured Rocks

**Intern:** Brett Worman  
**College:** University of Wyoming  
**Mentor:** David Croker  
**Location:** Menlo Park, California  
**Project:** Field Technician with the Northern California Seismic Network

**Intern:** Bissett Young  
**College:** Indiana University  
**Mentor:** Seth Moran  
**Location:** Vancouver, Washington  
**Project:** Seismic Monitoring of Cascade Range Volcanoes

