

USGS 2022 Cooperative Summer Fellowship Program



The U.S. Geological Survey (USGS) Cooperative Summer Fellowship Program is the longest continuously running internship program in the Earth sciences. Over the past 57 years, over 2,600 students have participated in this program, with many participants continuing on to distinguished careers with USGS, academia, and industry.

The cooperative program was launched at the Geological Society of America meeting in Kansas City, MO 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 National Association of Geoscience Teachers (NAGT). Pecora suggested that the USGS would provide support through internships for outstanding newly graduated geoscience majors, while NAGT would solicit outstanding student nominations from the directors of the nation’s geoscience field camps. In this way, students with excellent training in skills needed at USGS could take their next professional step with an internship putting those skills into practice.

In recent years the USGS has expanded our partnerships in this program to include the Ecological Society of America (ESA) and the GIS Certification Institute (GISCI) to support our scientists in geography and biological sciences.

Although some modifications have been made over time, the USGS Cooperative Summer Fellowship Program operates today much as it did in the beginning. With active participation and support from the highest levels of all organizations (including the Director of the USGS), a joint committee oversees the program. The program year begins in September when field camp directors (now numbering over 120), ESA, and GISCI are provided nomination information. NAGT and ESA solicit nominations of exceptionally qualified students for their affiliated field training programs. GISCI submits a list of students with appropriate GIS certifications for consideration. Nominated students apply by sending a resume, letter of interest, and transcripts to the USGS. At the same time, USGS scientists interested in working with an intern submit a proposal about their research projects. A science panel then reviews and matches candidates by their course work, skills, and interests with up to five projects. Interviews and selections proceed from there. The program endeavors to place as many of the nominated students as possible. In the last several years, between 68 and 95 percent of the nominated students who applied and stayed connected through the interviews have been placed in internships.

Interdisciplinary science training is a cornerstone of the USGS mission, and as such, all science disciplines are encouraged to take advantage of the intern program. Former student interns continually receive outstanding reviews from both scientists and supervisors.

The Program continues Pecora’s vision of greater educational involvement, providing a first-rate professional experience to students early in their careers. The program today is a multidisciplinary collaboration that influences the career paths of future scientists in positive and exciting ways.

Geology and ecology field course directors can participate through our partnerships with the [NAGT](#) or [ESA](#). Please visit the appropriate websites for additional information on how to nominate students. Nominations are due in early fall.

NAGT/USGS 2022 Cooperative Summer Fellowship Program Placements

Intern: Jacob Anderson
Field Camp: University of Oregon
Mentor: Jared Peacock and Jonathan Glen
Location: Moffett Field, California
Project: Geophysical investigation of Valles Caldera and the Rio Grande Rift, New Mexico

Intern: Kaleb Arnold
Field Camp: Boise State University
Mentor: Andrew Waite
Location: Courtland, New York
Project: Surface Water and Ground Water Data Collection

Intern: Allegra Baird
Field Camp: University of Michigan
Mentor: Courtney Creamer
Location: Menlo Park
Project: Recovery of hydrologic and biogeochemical functioning after wildfire

Intern: Jonah Bettger
Field Camp: Western Washington University
Mentor: Emily Montgomery-Brown
Location: Vancouver, Washington
Project: Geodetic monitoring of volcanoes in the western United States

Intern: Katelyn Chambliss
Field Camp: Southern Illinois University
Mentor: Beth Middleton
Location: Lafayette, Louisiana
Project: Hurricane induced flooding and effects on cypress swamps along the Mississippi River Alluvial Valley

Intern: Rachel Chidlow
Field Camp: West Virginia University
Mentor: Walter Mooney
Location: Menlo Park, California
Project: Earthquake, tsunami and volcano hazards

Intern: Forrest Clark
Field Camp: Eastern Michigan University
Mentor: Walter Mooney
Location: Menlo Park, California
Project: Earthquake, tsunami and volcano hazards

Intern: Karimah Comstock
Field Camp: University of Oregon
Mentor: Walter Mooney
Location: Menlo Park, California
Project: Earthquake, tsunami and volcano hazards

Intern: Madelyn Cook
Field Camp: University of Utah
Mentor: James Vallance
Location: Cascades Volcano Observatory
Project: Volcanology in the Cascades Range – Explosive eruptions at Mount St. Helens and Glacier Peak in Washington state

Intern: Nick Cunetta
Field Camp: Western Washington University
Mentor: Belle Philibosian
Location: Moffett Field, California
Project: Northern California earthquake geology

Intern: Haley Dietz
Field Camp: University of Houston
Mentor: Walter Mooney
Location: Menlo Park, California
Project: Studies of earthquakes, volcanoes, landslides, and tsunamis

Intern: Grayce Gibbs
Field Camp: Dartmouth College
Mentor: Jeffrey Mauk and Carma San Juan
Location: Lakewood, Colorado
Project: USGS Mineral Deposit Database (USMIN)

Intern: Mary Hambrick
Field Camp: University of Houston
Mentor: Michael Toomey
Location: Reston, Virginia
Project: Historic flood records of the Potomac River near Washington D.C.

Intern: Reid Harris
Field Camp: University of Michigan
Mentor: Andrew Waite
Location: Troy, New York
Project: Surface Water and Ground Water Data Collection

Intern: Taylor Kuligowski
Field Camp: University of Miami
Mentor: Thomas Cronin and Robert Poirier
Location: Reston, Virginia
Project: Land Sea Linkages in the Arctic

Intern: Rebekah Medley
College: University of Texas, Arlington
Mentor: Walter Mooney
Location: Menlo Park, California
Project: Earthquake, tsunami and volcano hazards

Intern: Abigail Moore
Field Camp: University of Dayton
Mentor: Jaime Azain
Location: Lakewood, Colorado
Project: Analytical Chemistry

Intern: Sophia Norenberg
Field Camp: University of Washington, Oshkosh
Mentor: Carole Johnson
Location: Storrs, Connecticut
Project: Hydrogeophysics

Intern: Zach O'Neal
Field Camp: University of Utah
Mentor: Denis LeBlanc
Location: Northborough, Massachusetts
Project: Hydrology and Water Quality of Cape Cod's Groundwater/Surface-Water System

Intern: Jenna Paulsen
Field Camp: Wheaton College
Mentor: Matthew Conlon
Location: New Cumberland, Pennsylvania
Project: Assessment of Pesticides and Characterization of Groundwaters in Pennsylvania's Glaciated Low Plateau Siliciclastic and Northeastern Glaciated Surficial Hydrogeologic Settings

Intern: Claire Pluim
Field Camp: University of Texas, Austin
Mentor: Jaime Azain
Location: David Pilliod
Project: Effects of seed predation by harvester ants on sagebrush steppe restoration

Intern: Miriam Primus
Field Camp: Whitman College
Mentor: Adam Hudson
Location: Denver, Colorado
Project: Utilizing Quaternary Geochronology to Reconstruct Landscape Evolution in the Western U.S.

Intern: Sierra Rack
Field Camp: Sacramento State University
Mentor: Rich Briggs
Location: Golden, Colorado
Project: Assessment of active faults for seismic hazard models in the Western United States

Intern: Samantha Tarkany
Field Camp: Miami University
Mentor: Jared Peacock and Paul Bedrosian
Location: Moffett Field, California
Project: Geophysical investigation of Valles Caldera and the Rio Grande Rift, New Mexico

Intern: Kate Tobin
Field Camp: University of Wisconsin
Mentor: William Stephenson
Location: Golden, Colorado
Project: High-resolution Geophysical Investigations of Hazardous Faults and Seismic Ground Motions—Data for Earthquake Hazard Assessments

ESA/USGS 2022 Cooperative Summer Fellowship Program Placements

Intern: Stefan Anthonopolous
College: Eckerd College
Mentor: Isabelle Cozzarelli
Location: Reston, Virginia
Project: Effects of Intentional or Accidental Releases of Oil and Gas (OG) Wastes in the Environment

Intern: Ashley Bartling
College: California State Polytechnic University, Pomona
Mentor: Sheel Bansal and Jacob Meier
Location: Jamestown, North Dakota
Project: Assessing the Climate Change Mitigation Potential of Wetland Restoration in the Conservation Reserve Program: Measurements, Modeling, and Scaling Changes in Soil Carbon and Greenhouse Gas Fluxes

Intern: Ian Chapman
College: Iowa State University
Mentor: Nicholas Johnson
Location: Millersburg, Michigan
Project: Deploy and evaluate innovative sea lamprey control tools

Intern: Sarah Costanzo
College: University of California, Davis
Mentor: Seth Munson
Location: Flagstaff, Arizona
Project: Enhancing soil health on degraded rangelands in the southwestern U.S.

Intern: Kinsey Funk
College: Oregon State University
Mentor: Jeffrey Chaplin
Location: Central Pennsylvania
Project: Near real-time water-quality monitoring and modeling in York County, Pennsylvania

Intern: Rachel Deahl
College: New Jersey Institute of Technology
Mentor: Anya Metcalfe
Location: Flagstaff, Arizona
Project: Bat foraging ecology in the San Juan River

Intern: Scott Fordham
College: University of Michigan
Mentor: David Pilliod
Location: Boise, Idaho
Project: Effects of seed predation by harvester ants on sagebrush steppe restoration

Intern: Priya Gahir
College: University of Michigan
Mentor: Wes Bickford
Location: Ann Arbor, Michigan
Project: Taking advantage of high water levels in the Great Lakes to improve management of a persistent invasive wetland grass

Intern: Ezra Grey
College: University of Alaska, Southeast
Mentor: Ryan Fosness
Location: Boise, Idaho
Project: Kootenai River hydraulic development and simulation

Intern: Janiece Jefferson
College: Saint Edwards University
Mentor: Noel Pavlovic
Location: Chesterton, Indiana
Project: Developing Visitor Impact Metrics for Great Lakes Coastal Dune Landscapes

Intern: Amelia Jelic
College: University of Michigan, Ann Arbor
Mentor: Jessica Rodysill
Location: Reston, Virginia
Project: Natural Flood and Drought Variability in Lacustine Archives

Intern: Conor Judge
College: Central Michigan University
Mentor: Sheel Bansal and Jacob Meier
Location: Jamestown, North Dakota
Project: Assessing the Climate Change Mitigation Potential of Wetland Restoration in the Conservation Reserve Program: Measurements, Modeling, and Scaling Changes in Soil Carbon and Greenhouse Gas Fluxes

Intern: Margaret Kimpling
College: Georgia Tech
Mentor: Kurt Kowalski
Location: Ann Arbor, Michigan
Project: Developing new, sustainable control strategies for an invasive wetland grass (*Phragmites australis*)

Intern: Joann Lam
College: California State University Fullerton
Mentor: Craig Snyder
Location: Kearneysville, West Virginia
Project: Brook trout vulnerability to drought: eastern component of USGS national integrated ecohydrological research and monitoring plan

Intern: Braedon Lineman
College: Montana State University
Mentor: Kristina Hopkins
Location: Raleigh, North Carolina
Project: Understanding the impacts of urbanization on streams in the Southeastern USA

Intern: Molly Long
College: Lawrence University
Mentor: Brynne Lazarus
Location: Boise, Idaho
Project: Investigating plant-soil interactions to support restoration in sagebrush steppe ecosystems

Intern: Hieu Ly
College: Oregon State University
Mentor: Brian Bergamaschi
Location: Sacramento, California
Project: Sacramento-San Joaquin Continuous Water Quality Monitoring

Intern: Daria Maslyukova
College: George Mason University
Mentor: Greg Noe
Location: Reston, Virginia
Project: Stream and wetland ecosystems: measuring changes in functions due to management and climate change

Intern: Nadia Naji
College: California State University, Fullerton
Mentor: Timothy Stryker
Location: Reston, Virginia
Project: National Land Imaging Strategic Communications

Intern: Alice Nguyen
College: Saint Edwards University
Mentor: Jeffrey Chaplin
Location: Central Pennsylvania
Project: Near real-time water-quality monitoring and modeling in York County, Pennsylvania

Intern: Keegan Nichols
College: Austin College
Mentor: Ralph Grundel
Location: Chesterton, Indiana
Project: Effects of landscape connectivity on native bee nesting behavior

Intern: Gigi Otten
College: University of Minnesota
Mentor: Michael Duniway
Location: Moab, Utah
Project: Assessing impacts of aridification, drought, and land-use on drylands of the Colorado Plateau

Intern: Devin Rehrig
College: Mississippi State University
Mentor: Kyle McLean
Location: Jamestown, North Dakota
Project: Linking Grey Tiger Salamander (*Ambystoma mavortium diaboli*) Lengths to Biomass and Population Structure in Prairie Pothole Wetlands

Intern: Shannon Reilly
College: University of California, Davis
Mentor: Clint Otto
Location: Jamestown, North Dakota
Project: Improving pollinator habitat in the Great Plains

Intern: Brand Richter
College: University of North Texas
Mentor: Rebecca Brice and Lesleigh Anderson
Location: Denver, Colorado
Project: Past Perspectives of Water in the West

Intern: Karen Robles
Mentor: Dan Esler
Location: Anchorage, Alaska
Project: Nearshore marine ecosystem studies in Southcentral Alaska

Intern: Sophie Steppe
College: University of Louisville
Mentor: Matthew Germino
Location: Boise, Idaho
Project: Science for adaptive management of fire, invasives, and restoration in western landscapes

Intern: Danielle Studer
College: Allegheny College
Mentor: Kathryn Smith
Location: Girard, Ohio
Project: Estuarine Shoreline Change

Intern: Jose Torres
College: Oregon State University
Mentor: Kristen Hart
Location: Davie, Florida
Project: Burmese Python Movement and Habitat Use

Intern: Kendalyn Town
College: Central Michigan University
Mentor: Miriam Jones and Deb Willard
Location: Reston, Virginia
Project: Wetlands as carbon sinks: impacts of climate and land-use change on wetland carbon storage

Intern: Emily Wapman
College: University of California, Santa Barbara
Mentor: Andy Royle
Location: Laurel, Maryland
Project: Machine Learning and Classification of Box Turtles in a Capture-Recapture Study

GISCI/USGS 2022 Cooperative Summer Fellowship Program Placements

Intern: Michael Hanson
College: University of Texas
Mentor: Clint Otto
Location: Jamestown, North Dakota
Project: Improving pollinator habitat in the Great Plains

Intern: Jacob Melendez
College: California State University
Mentor: Jeffrey Mauk
Location: Lakewood, Colorado
Project: USGS Mine waste inventory

Intern: Daniel Miranda
College: Austin Community College
Mentor: Amber Wittner
Location: Moffett Field, California
Project: Enterprise GIS for the NCGMP Community

Intern: John Taylor
College: Virginia Tech University
Mentor: Timothy Stryker
Location: Reston, Virginia
Project: National Land Imaging Strategic Communications