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.
<table>
<thead>
<tr>
<th>Intern</th>
<th>Field Camp</th>
<th>Mentor</th>
<th>Location</th>
<th>Project</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jacob Anderson</td>
<td>University of Oregon</td>
<td>Jared Peacock and Jonathan Glen</td>
<td>Moffett Field, California</td>
<td>Geophysical investigation of Valles Caldera and the Rio Grande Rift, New Mexico</td>
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<tr>
<td>Madelyn Cook</td>
<td>University of Utah</td>
<td>James Vallance</td>
<td>Cascades Volcano Observatory</td>
<td>Project: Volcanology in the Cascades Range – Explosive eruptions at Mount St. Helens and Glacier Peak in Washington state</td>
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<tr>
<td>Nick Cunetta</td>
<td>Western Washington University</td>
<td>Belle Philibosian</td>
<td>Moffett Field, California</td>
<td>Project: Northern California earthquake geology</td>
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<tr>
<td>Allegra Baird</td>
<td>Boise State University</td>
<td>Andrew Waite</td>
<td>Courtland, New York</td>
<td>Surface Water and Ground Water Data Collection</td>
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<tr>
<td>Haley Dietz</td>
<td>University of Houston</td>
<td>Walter Mooney</td>
<td>Menlo Park, California</td>
<td>Project: Studies of earthquakes, volcanoes, landslides, and tsunamis</td>
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<tr>
<td>Kaleb Arnold</td>
<td>University of Michigan</td>
<td>Courtney Creamer</td>
<td>Vancouver, Washington</td>
<td>Geodetic monitoring of volcanoes in the western United States</td>
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<tr>
<td>Grayce Gibbs</td>
<td>Dartmouth College</td>
<td>Jeffrey Mauk and Carma San Juan</td>
<td>Lakewood, Colorado</td>
<td>Project: USGS Mineral Deposit Database (USMIN)</td>
</tr>
<tr>
<td>Jonah Bettger</td>
<td>Western Washington University</td>
<td>Emily Montgomery-Brown</td>
<td>Vancouver, Washington</td>
<td>Geodetic monitoring of volcanoes in the western United States</td>
</tr>
<tr>
<td>Mary Hambric</td>
<td>University of Houston</td>
<td>Michael Toomey</td>
<td>Reston, Virginia</td>
<td>Project: Historic flood records of the Potomac River near Washington D.C.</td>
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<tr>
<td>Katelyn Chambliss</td>
<td>Southern Illinois University</td>
<td>Beth Middleton</td>
<td>Lafayette, Louisiana</td>
<td>Project: Hurricane induced flooding and effects on cypress swamps along the Mississippi River Alluvial Valley</td>
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<td>Mary Hambric</td>
<td>University of Houston</td>
<td>Michael Toomey</td>
<td>Reston, Virginia</td>
<td>Project: Historic flood records of the Potomac River near Washington D.C.</td>
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<td>Rachel Chidlow</td>
<td>West Virginia University</td>
<td>Walter Mooney</td>
<td>Troy, New York</td>
<td>Project: Surface Water and Ground Water Data Collection</td>
</tr>
<tr>
<td>Reid Harris</td>
<td>University of Michigan</td>
<td>Andrew Waite</td>
<td>Troy, New York</td>
<td>Project: Surface Water and Ground Water Data Collection</td>
</tr>
<tr>
<td>Forrest Clark</td>
<td>Eastern Michigan University</td>
<td>Walter Mooney</td>
<td>Menlo Park, California</td>
<td>Earthquake, tsunami and volcano hazards</td>
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<tr>
<td>Taylor Kuligowski</td>
<td>University of Miami</td>
<td>Thomas Cronin and Robert Poirier</td>
<td>Reston, Virginia</td>
<td>Project: Land Sea Linkages in the Arctic</td>
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<tr>
<td>Abigail Moore</td>
<td>University of Dayton</td>
<td>Jaime Azain</td>
<td>Lakewood, Colorado</td>
<td>Project: Analytical Chemistry</td>
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<tr>
<td>Karimah Comstock</td>
<td>University of Oregon</td>
<td>Walter Mooney</td>
<td>Menlo Park, California</td>
<td>Earthquake, tsunami and volcano hazards</td>
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<tr>
<td>Sophia Norenberg</td>
<td>University of Washington, Oshkosh</td>
<td>Carole Johnson</td>
<td>Storrs, Connecticut</td>
<td>Project: Hydrogeophysics</td>
</tr>
<tr>
<td>Zach O’Neal</td>
<td>University of Utah</td>
<td>Denis LeBlanc</td>
<td>Northborough, Massachusetts</td>
<td>Project: Hydrology and Water Quality of Cape Cod’s Groundwater/Surface-Water System</td>
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<tr>
<td>Claire Plum</td>
<td>University of Texas, Austin</td>
<td>Jaime Azain</td>
<td>David Pilliod</td>
<td>Project: Effects of seed predation by harvester ants on sagebrush steppe restoration</td>
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<tr>
<td>Miriam Primus</td>
<td>Whitman College</td>
<td>Adam Hudson</td>
<td>Denver, Colorado</td>
<td>Project: Utilizing Quaternary Geochronology to Reconstruct Landscape Evolution in the Western U.S.</td>
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<tr>
<td>Sierra Rack</td>
<td>Sacramento State University</td>
<td>Rich Briggs</td>
<td>Golden, Colorado</td>
<td>Project: Assessment of active faults for seismic hazard models in the Western United States</td>
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<tr>
<td>Samantha Tarkany</td>
<td>Miami University</td>
<td>Jared Peacock and Paul Bedrosian</td>
<td>Moffett Field, California</td>
<td>Geophysical investigation of Valles Caldera and the Rio Grande Rift, New Mexico</td>
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<tr>
<td>Kate Tobin</td>
<td>University of Wisconsin</td>
<td>William Stephenson</td>
<td>Golden, Colorado</td>
<td>Project: High-resolution Geophysical Investigations of Hazardous Faults and Seismic Ground Motions—Data for Earthquake Hazard Assessments</td>
</tr>
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</table>

**NAGT/USGS 2022 Cooperative Summer Fellowship Program Placements**

*U.S. Department of the Interior*
*U.S. Geological Survey*
*Youth and Education in Science Office*
*Office of Science Quality and Integrity, July 2022*
Intern: Stefan Anthopolous  
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  

Intern: Ian Chapman  
College: Iowa State University  
Mentor: Nicholas Masson  
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 Arkansas, Southeast  
Mentor: Ryan Fossness  
Location: Boise, Idaho  
Project: Kootenai River hydraulic development and simulation

Intern: Janice 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: ConorJudge  
College: Central Michigan University  
Mentor: Sheel Bansal and Jacob Meier  
Location: Jamestown, North Dakota  

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  

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

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

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

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

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

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

Intern: Sophie Steppe  
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: Daniel Miranda  
College: University of Maryland  
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

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

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

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

Intern: Sophie Steppe  
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: Daniel Miranda  
College: University of Maryland  
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