

# Research Experiences for Undergraduates!



*Utah Valley University*  
*Department of Earth Science*  
*Dr. Nathan A. Toke*

# Programs to be aware of:

- **GeoCorps America** (GSA with NPS, USFS, BLM)  
[http://rock.geosociety.org/g\\_corps/index.htm](http://rock.geosociety.org/g_corps/index.htm)
- **NSF REUs** (Research Experiences for Undergraduates)  
[http://www.nsf.gov/crssprgm/reu/reu\\_search.jsp](http://www.nsf.gov/crssprgm/reu/reu_search.jsp)
- **UVU SURF** (Summer Undergraduate Research Fellowships)  
<http://www.uvu.edu/undergrad-research/research/surf.html>
- **CSH SAC** (Scholarly Activities Grants)  
<https://www.uvu.edu/csh/pdf/SACFundingProposalFormSpring2013.pdf>
- **Faculty Sponsored Projects** (talk to us!)
- **Internships with Companies** (UGS, USGS, Consultants, Mining, etc.)
- **GSA Rocky Mountain Undergraduate Research Grants**

# GeoCorps: GSA and Federal Partnerships

## GeoCorps™ America

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- Positions
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- Links

### 2014 GEOCORPS POSITIONS

The final list of summer 2014 positions will be posted below on December 1, 2013. Position descriptions are not considered final until after December 1, so please do not contact the agencies with questions until after that date. Applications cannot be started or edited yet. An announcement will be posted here when the online application system is ready to be accessed, which will occur on or shortly after December 1. The final application deadline is February 4, 2014 (noon Mountain time).

This list includes [GeoCorps America Positions](#), [Guest Scientist Positions](#), [Diversity Internship Positions](#), and [Mosaics in Science Positions](#).

### Geocorps America Positions - Summer 2014

The following positions are the general GeoCorps America positions.

Click on the column header to sort list by that criteria.

<a href="#">Position Title</a>	<a href="#">Public Lands Name</a>	<a href="#">Location</a>	<a href="#">Agency</a>	<a href="#">ID #</a>	<a href="#">Position Filled?</a>
<a href="#">Assessment, Inventory and Monitoring Pilot Project Assistant</a> <b>APPLY</b>	BLM Grand Staircase-Escalante National Monument (GSENM)	Kanab, UT	BLM	2014209	No
<a href="#">AstroCorps - Astronomy Interpretation</a> <b>APPLY</b>	Mount Rainier National Park	Longmire, WA	NPS	2014047	No
<a href="#">AstroCorps: Park Guide / Planetologist</a> <b>APPLY</b>	Bryce Canyon National Park	Bryce Canyon, UT	NPS	2014019	No
<a href="#">Cave Guide (2 Positions)</a> <b>APPLY</b>	Tongass National Forest	Thorne Bay, AK	USFS	2014107	No
<a href="#">Cultural Resources &amp; GIS Technician</a> <b>APPLY</b>	BLM Grand Junction Field Office	Grand Junction, CO	BLM	2014208	No
<a href="#">Cultural Resources &amp; GIS Technician</a> <b>APPLY</b>	BLM Dominguez-Escalante and McInnis Canyons NCAs	Grand Junction, CO	BLM	2014206	No
<a href="#">Digital Research Communicator</a> <b>APPLY</b>	Denali National Park and Preserve	Denali National Park, AK	NPS	2014018	No

[http://rock.geosociety.org/g\\_corps/2013/allJobDescriptions.asp](http://rock.geosociety.org/g_corps/2013/allJobDescriptions.asp)

# GeoCorps

- Practical experience with government service
- Cost of living stipend (**don't expect to make BANK**)
- Many sites at prime geological sites
  - Paleontology, mining, GIS, Parks interpretation, Field Work, Mapping, Education and Outreach...
- Professional contacts!
- Many different deadlines.
- Letters of recommendation are required!



# NSF REU sites: Earth Science



QUICK LINKS

SEARCH



HOME

FUNDING AWARDS DISCOVERIES NEWS PUBLICATIONS STATISTICS ABOUT NSF FASTLANE

## REU Sites

### REU SITES: EARTH SCIENCES

Please report errors in the list below by writing to [reu.ear@nsf.gov](mailto:reu.ear@nsf.gov).

Export results: CSV | Excel | XML

19 items found, displaying all items.

Site Information	Site Location	Contact Information	Additional Information
<b>American Museum of Natural History</b> <a href="#">REU Program in Earth Sciences and Astrophysics at the American Museum of Natural History</a> Division of Physical Sciences	New York, New York	<b>Primary:</b> Dr. Charles Liu (212) 496-3579 <a href="mailto:cliu@amnh.org">cliu@amnh.org</a> <b>Secondary:</b> James D. Webster (212) 769-5401 <a href="mailto:idw@amnh.org">idw@amnh.org</a>	<b>Research Topics/Keywords:</b> earth science, planetary science, astrophysics <a href="#">Abstract of Award</a> <b>Cofunded:</b> Earth Sciences
<b>Incorporated Research Institutions for Seismology</b> <a href="#">Undergraduate Summer Research in Seismology</a>		<b>Primary:</b> Michael Hubenthal 607-777-4612 <a href="mailto:hubenth@iris.edu">hubenth@iris.edu</a>	<b>Research Topics/Keywords:</b> Seismology <a href="#">Abstract of Award</a> <b>Cofunded:</b> Department of Defense (DoD)
<b>Middle Tennessee State University</b> <a href="#">REU Site: Geoenvironmental Challenges in the Southeastern U.S.: A Summer Undergraduate Research Experience for Pre-service Earth Science, Biology, and Chemistry Teachers</a> Geosciences	Murfreesboro, Tennessee	<b>Primary:</b> Mark J. Abolins 615-594-4210 <a href="mailto:Mark.Abolins@mtsu.edu">Mark.Abolins@mtsu.edu</a>	<b>Research Topics/Keywords:</b> Earth Science, Environmental Science, Geology, Biology, and Chemistry, Pre-service teachers <a href="#">Abstract of Award</a>

NORTHERN ARIZONA UNIVERSITY

- ▶ WELCOME
- ▶ DEGREES AND PROGRAMS
- ▶ STUDENT RESOURCES
- ▶ RESEARCH
- ▶ FACULTY AND STAFF
- ▶ ALUMNI AND COMMUNITY
- ▶ NEWS AND EVENTS

School of Earth Sciences and Environmental Sustainability  
[SESES\\_Admin\\_Support@nau.edu](mailto:SESES_Admin_Support@nau.edu)  
 928-523-4561  
[More Contact Information](#)

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SCHOOL OF EARTH SCIENCES AND SUSTAINABILITY

... NatSci SESES Research Research Experience for Undergraduates

### RESEARCH EXPERIENCE FOR UNDERGRADUATES

#### Landscape evolution in a monogenetic volcanic field

The Geology Program at Northern Arizona University, together with colleagues at the Museum of Northern Arizona and Arizona State University, is pleased to offer a new Research Experience for Undergraduates (REU) program in the beautiful San Francisco volcanic field. We invite applications for an 8-week program to study physical volcanology, hillslope evolution, paleomagnetism and Quaternary dating methods, all with the goal of understanding the timing, styles, and hazards of volcanism in the San Francisco field.

[http://www.nsf.gov/crssprgm/reu/list\\_result.jsp?unitid=5050](http://www.nsf.gov/crssprgm/reu/list_result.jsp?unitid=5050)

# National Science Foundation REUs

- Many REU Sites and Project Themes
- Apply directly to the institutions (competitive)
- 3 Letters of Recommendation Required!
- Applications due in January/February
- Typically a 8-12 week Commitment
- Travel/Cost of Living Compensation ~\$4,500
- University Credit is typically awarded too!

**AWESOME, AWESOME, AWESOME!!!**

# Summer Undergraduate Research Fellowships

*UVU office of Engaged Learning*

## SURF

<http://www.uvu.edu/undergrad-research/about/index.html>

Summer Undergraduate Research Fellowships (SURF), formerly known as SCOP, is one of the most popular and successful undergraduate research programs at UVU. Each summer, upper-division students work with faculty mentors to conduct in-depth research or creative work related to their chosen field of study. The Undergraduate Research Program provides awards to support completion of these projects.

Funds are awarded in May of each year on a competitive basis. The maximum funding amount is \$1500 per student. Awards may be used for travel, supplies, or student hourly wages to assist with their faculty mentor's research. Proposals will be submitted to the Scholarly and Creative Activities Council for review during spring semester.

Students awarded funding must send a 3-5 page summary, and a poster representing their findings prior to the beginning of the following school-year. They must also apply to present their research at a discipline specific, national, international, regional, or institutional conference.

## Application Process

1. Complete an abstract outlining your project, including your research and methodology.  
**Please be sure to include your name, UVID, e-mail address, and the name of your faculty mentor.**
2. Prepare an itemized budget for your project.  
**List expenses separately and provide rationale for each.**
2. Fill out the Application Form, located on the Undergraduate Research homepage.  
**Be sure to get all necessary signatures.**
3. Obtain a letter of recommendation from your faculty mentor.  
**Your application will not be reviewed without this letter.**
4. Submit your abstract, budget, signed application form, and recommendation letter to:

## Tips on preparing your abstract:

### Abstracts should:

Include your name, UVID number, email address, and your faculty mentor's information

State, in clear terms, the central question and the purpose of the research. Provide a brief discussion of the research methodology

State conclusions, either final or anticipated.

Be well organized

Length should fall between 250-400 words

All abstracts will undergo a careful review by the Scholarly & Creative Activities Council

Review and funding of undergraduate scholarly projects take into account the following criteria:

1. The project has clearly stated objectives and outcomes that can be readily evaluated at completion.
2. The project includes a product that significantly contributes to scholarship or

# SURF Success!

- Up to **\$1,500** (Salary, Travel, and Supplies or Equipment)
  - Student-driven research and creative projects are emphasized.
  - Faculty sponsor and letter of support is required!
  - Dean and Department Chairs also sign off!
  - Student Abstracts 250-400 words.
  - Itemized Budget and Justification.
- **March 28<sup>th</sup>, 2014** deadline, typically you know by Mid April.
- Great way to do research and get funding for presentation at a conference! GSA – Vancouver 2014!!!



# Scholarly Activities Committee (SAC)

## *Student Grants – College of Science and Health*

- Up to **\$1,000** (typically less)
- Working with a faculty member
  - Travel for Research
  - **Research Supplies**
  - **Conference Funding**
- Contact: Danny Horns (Assistant Dean – CSH)
  - Application form changes year to year
  - **rolling application for students**
  - faculty may have already secured funding

<https://www.uvu.edu/csh/pdf/SACFundingProposalFormSpring2013.pdf>

# Faculty Projects

- Externally and Internally-Funded Projects
  - Advertise for undergraduate research assistants
  - Talk to us, check the UVU jobs page, ES FB page...
  - You could help us initiate new projects too!

# Internships

- ENVT has great connections
- GEO students have initiated their own too.
- UGS has asked for GIS interns
- City Government
- Etc.

# 2013 GSA Division & Section Student Research Awards



*Six GSA Divisions and four GSA Sections have recognized the following student research grant recipients who submitted proposals of exceptionally high merit in conception and presentation in their fields. These students will be honored at the 2013 GSA Annual Meeting in Denver, Colorado, USA.*

## DIVISION GRADUATE RESEARCH AWARDS

### GEOPHYSICS DIVISION

*Allan V. Cox Student Research Grant*

**Christopher G. Myers**, Vanderbilt University

*Geophysics Student Research Grant Award*

**Christopher Harper**, The University of Texas at Dallas

### HYDROGEOLOGY DIVISION

*Hydrogeology Division Student Research Grant Awards*

**Kristen L. Theesfeld**, Illinois State University

**Scott Jasechko**, University of New Mexico

**Zackary W. Munger**, Virginia Tech

**Brett Woelber**, University of Montana

### MINERALOGY, GEOCHEMISTRY, PETROLOGY, AND VOLCANOLOGY DIVISION

*MGPV Division Student Research Grant Awards*

**Emily Hernandez Goldstein**, The University of Texas at Austin

**Patrick Luetkemeyer**, Saint Louis University

**Kirsten B. Sauer**, University of Nevada–Reno

**Chris Yakymchuk**, University of Maryland–College Park

### QUATERNARY GEOLOGY AND GEOMORPHOLOGY DIVISION

*Arthur D. Howard Student Research Award*

## SECTION RESEARCH AWARDS

### SOUTHEASTERN SECTION

#### GRADUATE RESEARCH GRANTS

**Matthew Carter**, Coastal Carolina University

**Haley Gallo**, University of Memphis

**Nathan Katsiaficas**, Vanderbilt University

**Pilar Madrigal**, Virginia Tech

**Lowell Moore**, Virginia Tech

**Kristian Olson**, University of Memphis

**Erin Summerlin**, Auburn University

**Erik Thornton**, East Carolina University

#### SOUTHEASTERN SECTION UNDERGRADUATE RESEARCH GRANTS

**Jennifer All**, Radford University

**David Sublett**, Radford University

#### ROCKY MOUNTAIN SECTION UNDERGRADUATE RESEARCH GRANTS

**Lawrence Kellum**, Utah Valley University

**Brody Kunz**, Fort Lewis College

**Joel Lozano**, Universidad Autónoma de Chihuahua

**Miriam Moller**, Fort Lewis College

**Kristy Peterson**, Brigham Young University–Idaho

**Spencer Vokoros**, Fort Lewis College