

NSF and Geoheritage: funding opportunities for education, conservation, and research

America's Geoheritage Workshop II: Identifying, Developing, and Preserving America's Natural Legacy

Presenters: M. Brandon Jones and Lina C. Patino

December 1, 2020



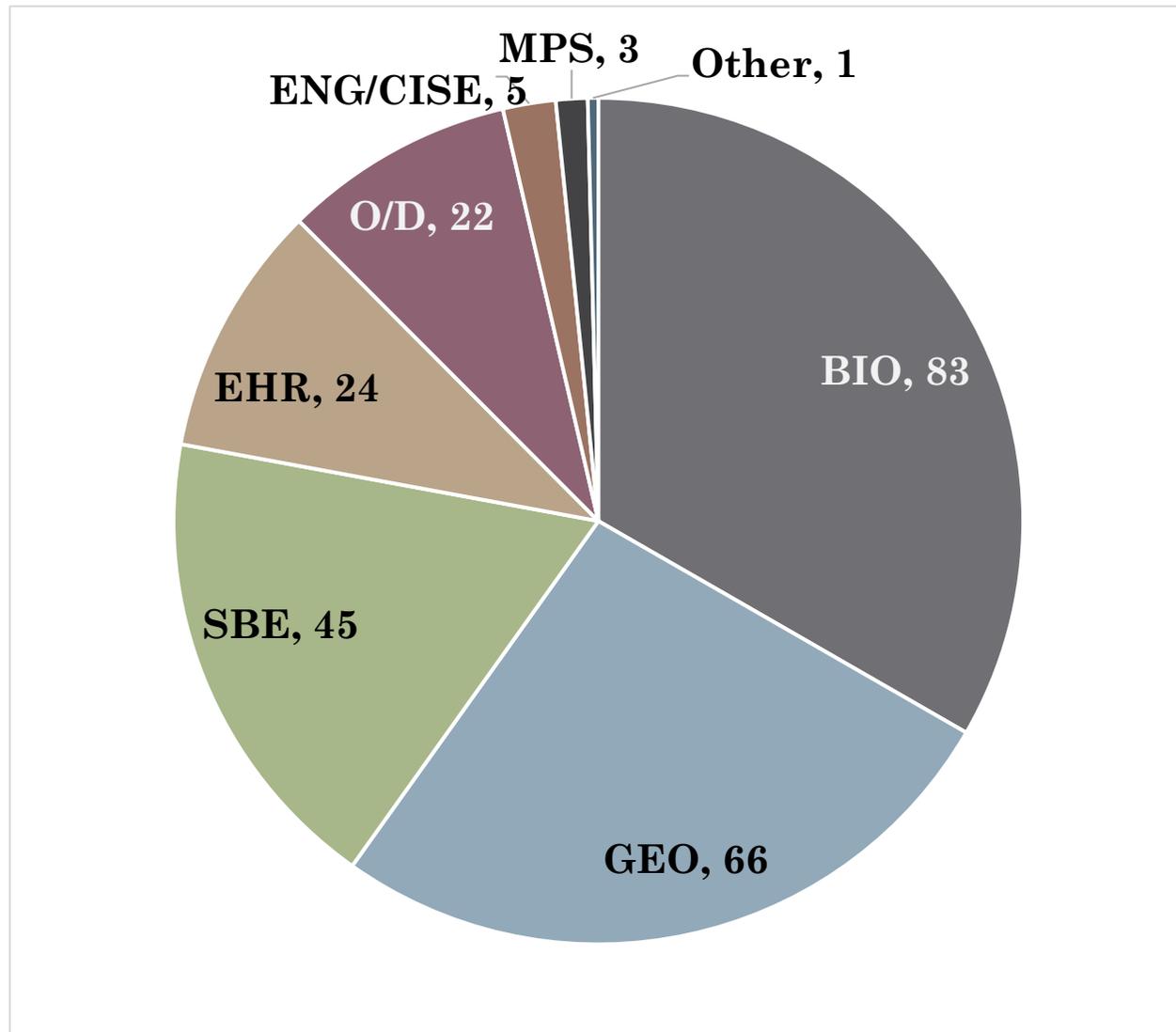
Geoheritage and NSF

*“Geoheritage” is a generic but descriptive term applied to sites or areas of geologic features with **significant scientific, educational, cultural,** and/or aesthetic value. ...Many geoheritage sites are tourist destinations that provide **local and regional economic benefits.** GSA Policy Statement*

NSF invests in a **world-class research** enterprise, support the *development of a globally competitive scientific and engineering workforce,* and foster **greater understanding of science and technology among the American public.**

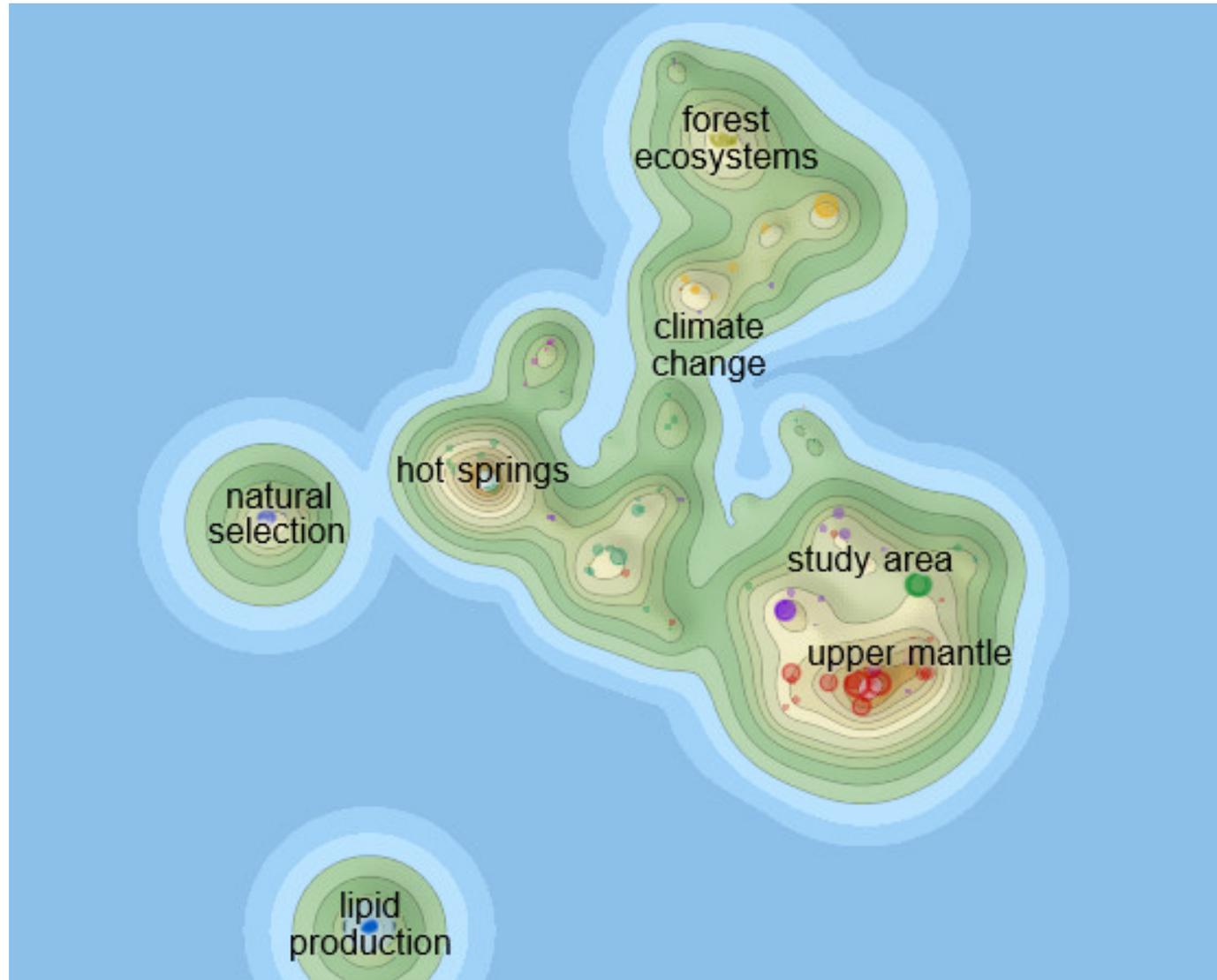
NSF AWARDS – “National Parks”

what/where



who/how





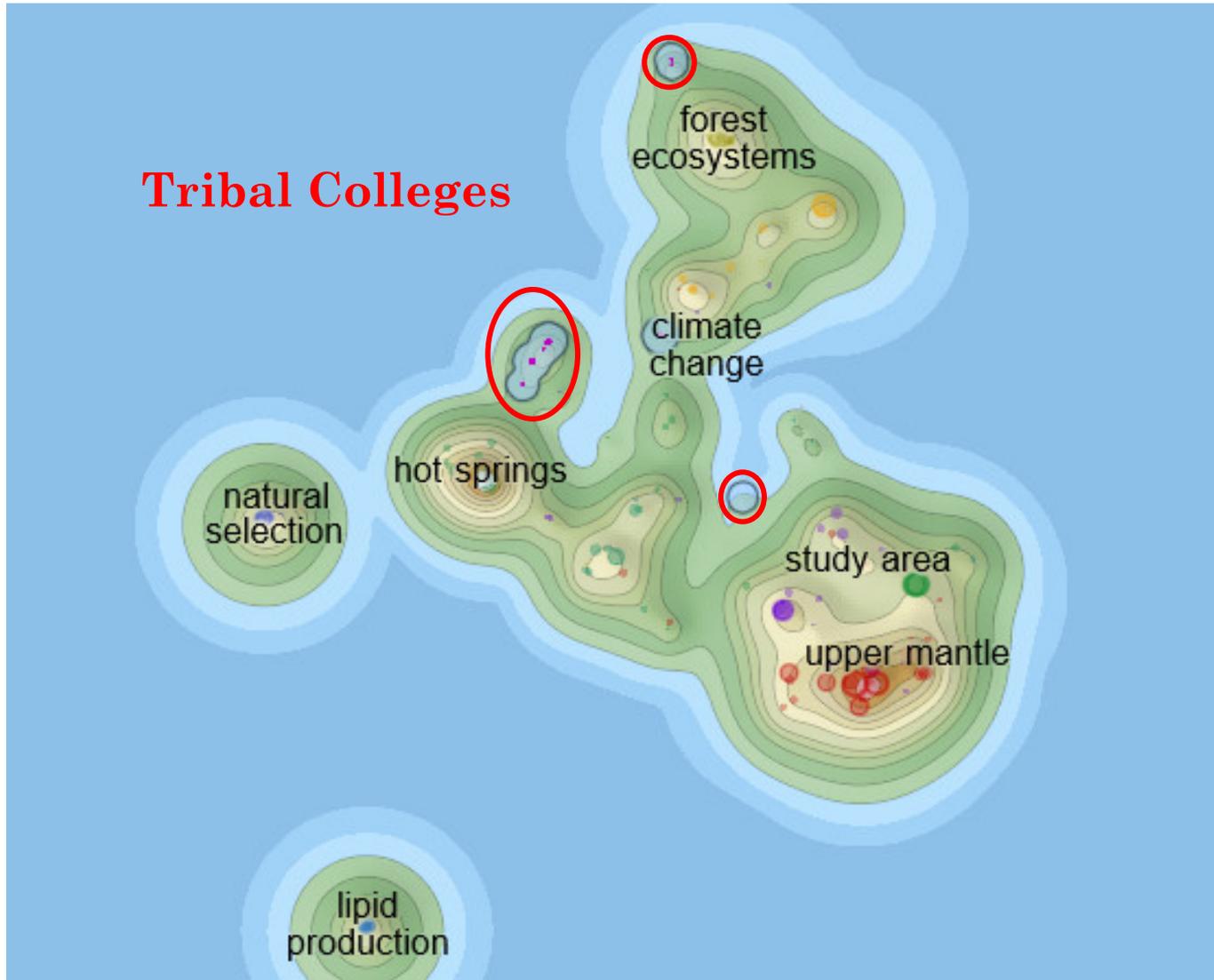
NSF AWARDS – “Yellowstone”

what/where

who/how



Tribal Colleges



NSF AWARDS – “Yellowstone”

what/where

who/how



NSF Funding Opportunities

- **Research**
 - Core disciplinary programs
 - Special emphasis programs
- **Workforce Development**
 - Undergraduate research (REU Sites, IRES)
 - Dissertation enhancement
 - Postdoctoral Fellowships
 - Institution specific
 - Directorate Specific Programs
- **Community engagement**
 - Informal Education
 - Innovation Portfolio
 - Broader Impacts



<https://www.earthsciweek.org/content/our-shared-geoheritage>

what/where

who/how



NSF Funding Opportunities



- **Research – Special Emphasis Programs**
 - Coastlines and People (CoPe)
 - Navigating the New Arctic (NNA)
 - Dynamics of Integrated Socio-Environmental Systems (DISES)
 - Paleo Perspectives on Climate Change (P2C2)
 - Understanding the Rules of Life (URoL)

https://www.nsf.gov/news/news_images.jsp?cntn_id=109769&org=NSF

NSF Funding Opportunities

- **Workforce Development**

- **Institution specific**

- Improving Undergraduate STEM Education: Hispanic Serving Institutions
 - Tribal Colleges and Universities
 - Historically Black Colleges and Universities

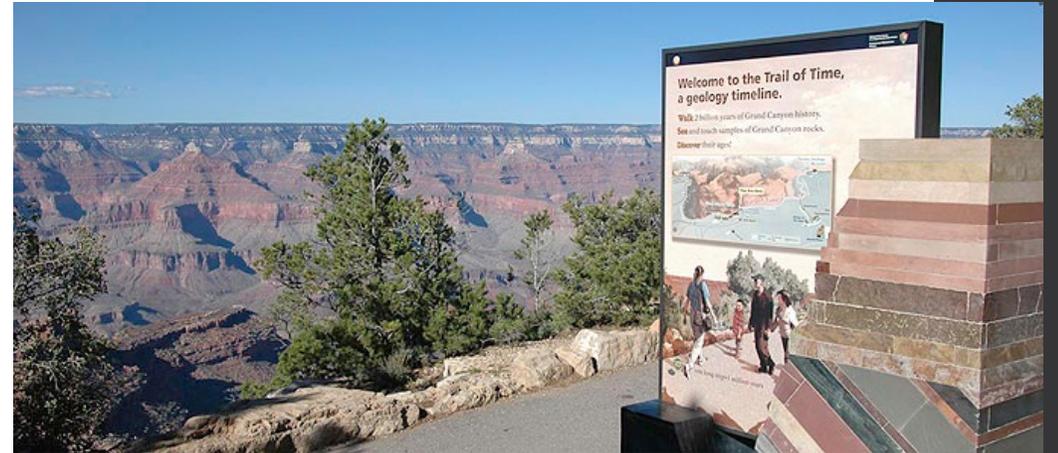
- **Directorate Specific Programs**

- Improving Undergraduate STEM Education: Pathways into the Earth, Ocean, Polar and Atmospheric & Geospace Sciences (IUSE:GEOPATHs)
 - Dear Colleague Letter: Non-Academic Research Internships for Graduate Students (INTERN) Supplemental Funding Opportunity



NSF Funding Opportunities

- **Community engagement**
 - Informal Education
 - Advancing Informal STEM Learning (AISL)
 - Discovery Research PreK-12 (DRK-12)
 - Innovative Technology Experiences for Students and Teachers (ITEST)
 - **Innovation Portfolio**
 - Small Business Innovation Research Program (SBIR)
 - Small Business Technology Transfer Program (STTR)
- **Broader Impacts**



Trail of Time at Grand Canyon
(<https://www.unm.edu/>)

Public Land and Resources Law Review

Volume 28

**Ethnic Cleansing and America's Creation of
National Parks**

Isaac Kantor

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what/where

who/how



Ethnic Cleansing and America's Creation of National Parks

Isaac Kantor

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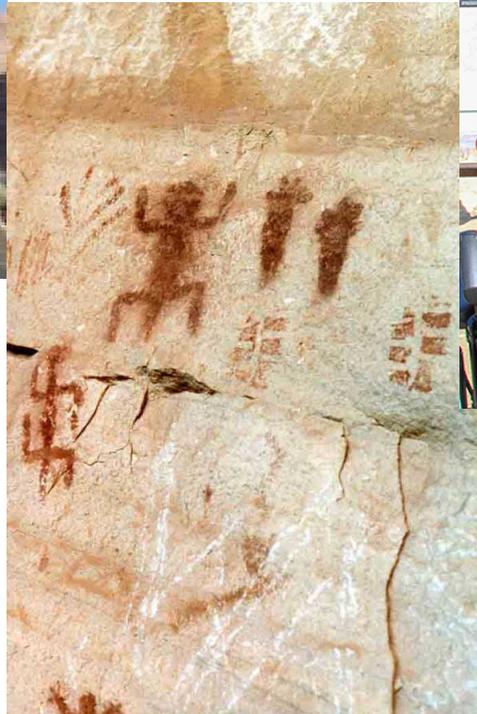
"Once we were in our own country and we were seldom hungry, for then the two-leggeds and the four-leggeds lived together like relatives ... [b]ut the [Americans] came, and they have made little islands for us and other little islands for the four-leggeds, and always these islands are becoming smaller " – Black Elk

what/where

who/how



Geoheritage in the 21st Century



Research:

https://www.nsf.gov/discoveries/disc_summ.jsp?cntn_id=132758

Culture:

<https://grcahistory.org/history/humans-at-grand-canyon/>

Accessibility:

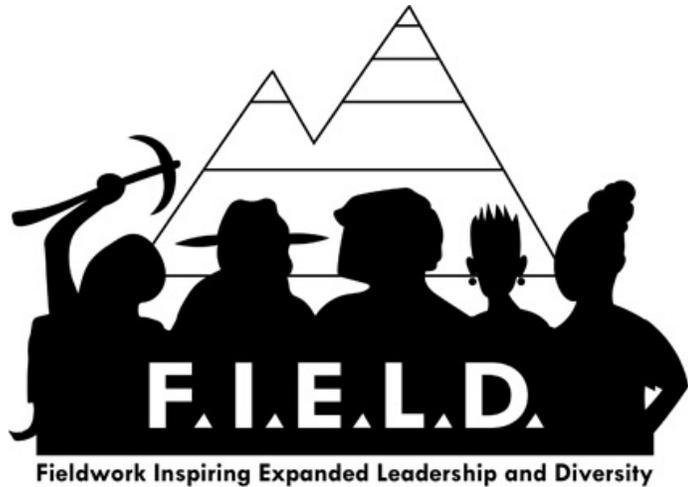
<https://eos.org/opinions/creating-spaces-for-geoscientists-with-disabilities-to-thrive>

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Geoheritage in the 21st Century



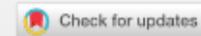
Advancing inclusion in the geosciences: An overview of the NSF-GOLD program

Julie R. Posselt , Jason Chen, P. Grady Dixon, Jerlando F. L. Jackson, Robert Kirsch, Anne-Marie Nuñez & Brian J. Teppen ...show less

Pages 313-319 | Received 31 Aug 2018, Accepted 19 Jul 2019, Published online: 18 Sep 2019

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 <https://doi.org/10.1080/10899995.2019.1647007>



GeoSPACE – GeoScientists Promoting Accessible Collaborative Experiences
<https://people.clas.ufl.edu/anita-marshall/geospace/>

The Challenges of Fieldwork for LGBTQ+ Geoscientists

A new survey reveals the unique issues that traveling for research poses for LGBTQ+ scientists. The data should help us create solutions that foster safety and inclusion.

Citation: Olcott, A. N., and M. R. Downen (2020), The challenges of fieldwork for LGBTQ+ geoscientists, *Eos*, 101,

<https://doi.org/10.1029/2020EO148200>. Published on 28 August 2020.

who/how





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