

NOVEMBER 2020



THE GER EXCHANGE

Promoting high-quality scholarly research in geoscience education.

Featured Article

Connecting geology and Native American culture on the reservation of Acoma Pueblo, New Mexico, USA

STEM education focused on the perspectives and needs of Native American students is a missing element in the current U.S. educational system (Barnhardt, 1997). Consequently, very few Native American students pursue careers in the STEM disciplines, especially earth science (Beede et al., 2011). Ironically, many Native American students eventually learn that earth science is a tool their ancestors used for thousands of years and that a general mastery of science and engineering skills can benefit and help maintain their communities. Most Native students, however, see no connection between Western science and the goal of preserving their cultural identities. If STEM faculty, teachers, and other scientists can better explain the links between traditional indigenous knowledge, Western science, and community needs, we contend that this approach would attract more Native American and other underrepresented students to earth science.

[Reano, D., & Ridgway, K. D. \(2015\). Connecting geology and Native American culture on the reservation of Acoma Pueblo, New Mexico, USA. *GSA Today*, 25\(8\), 26-28.](#)

Grant, Award, and Scholarship Deadlines

● The American Educational Research Association (AERA) announces its 2020–2021 [AERA Minority Dissertation Fellowship in Education Research](#) competition for graduate students. This program provides mentoring and funding support to develop research skills and conduct studies in education related fields and topics. **Application deadline is November 16, 2020.**

● NSF [Improving Undergraduate STEM Education: Education and Human Resources](#)

- Engaged Student Learning and Institutional and Community Transformation Level 2 and 3- Due December 1, 2020
- Institutional and Community Transformation Capacity-Building- Due February 2, 2021
- Engaged Student Learning and Institutional and Community Transformation Level 1- Due February 2, 2021
- Institutional and Community Transformation Capacity-Building- Due August 3, 2021
- Engaged Student Learning and Institutional and Community Transformation Level 1- Due August 3, 2021

● NaEd/Spencer [Postdoctoral Fellowship Program](#) (deadline **November 18, 2020**)

● NSF [Alliances for Graduate Education and the Professoriate \(AGEP\)](#) (full proposal deadline **December 11, 2020**)

Call for Submissions for NAGT GER Monthly Spotlights

The GER Division highlights the career and research of one professional in our field in the GER Spotlight, and asks that person to share articles to read and advice for new and early career researchers in geoscience education. Do you or does someone you know have a researcher profile to share with the community? [Download the template and upload your profile to be featured in a future edition of the newsletter!](#)

[Check out our former Spotlights on our webpage!](#)

Job and Internship Opportunities

- [Postdoctoral Fellowship at Arizona State University](#)- The School of Earth and Space Exploration (SESE) in The College of Liberal Arts and Sciences at Arizona State University invites applications for the postdoctoral research scholar position of Exploration Fellow. Email [Steve Semken](#) if you have questions about this program.
- [Accelerating Systemic Change Network \(ASCN\) Research Director](#)- The Center for Research on Instructional Change in Postsecondary Education (CRICPE) at Western Michigan University (WMU) is seeking a Research Director to support the continued work of the Accelerating Systemic Change Network (ASCN). This project is funded by the National Science Foundation. The research associate will be in a visible leadership role in the operational and intellectual work of ASCN. [Visit the WMU Jobs page](#) to apply (or search for posting #0605472).
- [Assistant Professor of Geological Sciences - Geoscience Education](#)- The Department of Geological Sciences at California State University, Fullerton invites applications for a tenure-track Assistant Professorship that will begin August 2021. To apply, please go to: <http://hr.fullerton.edu/careers/Faculty.php> to view all job listings or type in 497811.
- [Assistant Professor in Earth Science Discipline-Based Education Research](#)- The Department of Earth, Ocean and Atmospheric Sciences (EOAS) at the University of British Columbia (UBC) invites applicants for a full-time, tenure-track Assistant Professorship in Earth Science Discipline-Based Education Research. Questions should be directed to the Search Committee Chair, Professor Erik Eberhardt, by email at sallen@eoas.ubc.ca or erik@eoas.ubc.ca.

Submit to the GER Exchange

NAGT-GER provides monthly updates on professional opportunities, funding, articles of note, researcher profiles, and other content of interest to our membership. Please consider [contributing items](#) of interest for inclusion in future editions of the Exchange!

For questions, or to join the GER Communications Committee, contact the Media Director, Lauren Neitzke Adamo at lauren.adamo@rutgers.edu.



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