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## THE GER EXCHANGE

*Promoting high-quality scholarly research in geoscience education.*

### Featured Article

#### The Challenges of Defining and Measuring Student Engagement in Science

"...Research shows that multifarious benefits occur when students are engaged in their own learning, including increased motivation and achievement. However, there is little agreement on a concrete definition and effective measurement of engagement... We start by describing the dimensional perspective of engagement (behavioral, cognitive, emotional, agentic) and suggest a complementary approach that places engagement instrumentation on a continuum. Specifically, we recommend that instrumentation be considered on a "grain-size" continuum that ranges from a person-centered to a context-centered orientation to clarify measurement issues. We then provide a synopsis of the articles included in this special issue and conclude with suggestions for future research."

Sinatra, G.M., Heddy, B.C., & Lombardi, D. (2015). The Challenges of Defining and Measuring Student Engagement in Science. *Educational Psychologist*, 50(1), 1-13.

## Upcoming Grant and Award Deadlines

- Spencer Foundation [Midcareer Grant Program](#) Full Proposal Deadline **September 13, 2016**
- National Association for Research in Science Teaching [2017 Outstanding Doctoral Research Award](#) Nomination Deadline **September 15, 2016**
- Spencer Foundation [Small Research Grants](#) Full Proposal Deadline **November 1, 2016**
- National Science Foundation [Improving Undergraduate STEM Education: Education and Human Resources](#) (Exploration and Design Tier) Full Proposal Deadline **November 2, 2016**
- National Association for Research in Science Teaching [2017 Early Career Research Award](#) Nomination Deadline **November 15, 2016**
- National Science Foundation [Alliances for Graduate Education and the Professoriate \(AGEP\)](#) Full Proposal Deadline **December 9, 2016**
- National Science Foundation [ADVANCE: Increasing the Participation and Advancement of Women in Academic Science and Engineering Careers](#) Letter of Intent Deadline **December 16, 2016**
- [Alfred P. Sloan Foundation Grants](#) in STEM Higher Education (letters of inquiry accepted on a rolling basis)

## Job, Internship, and Scholarship Opportunities

- [Postdoctoral Fellowship in Education](#), TERC (deadline **October 31, 2016**)
- [Assistant Professor of Environmental Education](#), Western Washington University (deadline **November 12, 2016**)
- [Assistant Professor of Earth Sciences](#) (research field unspecified), Ohio State University at Newark (Requisition #420687, deadline **December 5, 2016**)
- [Renewable Term Instructor of Science Education](#), Earth Science, University of Northern Iowa (Requisition # 51113, deadline **January 6, 2017**)

## 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 Communications Committee Chair [Kelsey Bitting](#).



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This monthly email goes out to all GER Division members to share opportunities and ideas relevant to the community.

**Our mailing address is:**

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