

# EarthScope National Meeting 2015

Poster abstract

## Need Broader Impacts? How UNAVCO can support you in dissemination of your science

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UNAVCO operates the Geodesy Advancing Geosciences and EarthScope (GAGE) facility. The GAGE Facility provides support to the NSF investigator community for geodesy related research, education, and workforce training with broad societal benefits. A core community support service led by the Education and Community Engagement (ECE) program is Principal Investigator (PI) planning support and core programs to advance geoscience education resources and geodesy community engagement.

UNAVCO provides guidance to PIs with proposal planning and budgeting for broader impacts. Support is provided in all aspects of broader impacts including, but not limited to: Research Experiences for Undergraduates (REUs, RESESS), field education, short courses, curriculum design and instructional support, scientific results dissemination support including social media, and evaluation.

This presentation will provide examples of how UNAVCO has supported PIs with the broader impacts component of their scientific research and offer suggestions of how we can help future PIs.

The screenshot shows the UNAVCO website interface. At the top, there is a navigation bar with the UNAVCO logo on the left and links for HOME, ABOUT, CONTACT, and HELP on the right. Below the navigation bar is a red horizontal bar with a search input field. The main content area is divided into several sections:

- Projects**: A sidebar menu with links for Help with Projects, Project Technical Planning, Project Budgeting, Broader Impacts, General Guidance, Student Support, Field Education Support, Technical Short Courses, Curriculum Design & Instructional Support, and Social Media & Broader Communication Dissemination Support.
- Broader Impacts Proposal Guidance**: The main content area, featuring a breadcrumb trail (home > projects > projects help > broader impacts), a title, and introductory text about UNAVCO's support for NSF proposals. It includes a section for General Guidance with a bulleted list of tips and a section for Student Support Proposal Guidance.
- Related Links**: A sidebar menu with links for Help with Instrumentation, Help with Data, Help with Software, and Request Support.

**Broader Impacts Proposal Guidance**

home > projects > projects help > broader impacts

UNAVCO will assist PIs in development of their broader impacts for NSF proposals as well as for the education and public outreach component of NASA proposals. Please see the NSF's [Grant Proposal Guide](#) and NASA's provides [Education & Public Outreach](#) guides.

UNAVCO staff can work with you on refining your broader impacts, helping to set a reasonable plan and budget for implementation, evaluation, and execution of your projects. Below we offer some general guidance as well as specific geodesy-related activities that might be used to achieve Broader Impact criteria.

**General Guidance**

- Broader Impacts can apply to all levels of education as well as and public outreach activities.
- Increasing STEM (science, technology, engineering, & mathematics) diversity, STEM workforce fitness, public scientific literacy, research and education infrastructure and partnerships are particularly valued.
- Outreach needs to be top notch and visible.
- Build relationships before specific grant opportunity is needed.
- Impact should fit with your research, it must use your research/discoveries as the base, and it needs to make sense.
- Be clear about how you will fund broader impact activities.
- Be clear about how you will measure success (evaluation).

**Student Support Proposal Guidance**

Undergraduate research experiences are valued highly by NSF, particularly if populations underrepresented in science are involved. UNAVCO's [Research Experience in Solid Earth Sciences for Students \(RESESS\)](#) program has a track record of excellence in this regard. Proposal guidance for student support is available to PIs interested in including undergraduates in their research projects, PIs interested in supporting a RESESS intern, and guidance on best practices on mentoring undergraduates.

UNAVCO manages RESESS, an undergraduate research internship focused on increasing the diversity in geosciences. PIs can include support for an