

ND EPSCOR RESEARCH IMPACT: RK12O

SUBJECT: ND EPSCoR Rural K-12 Outreach (Rk12O)) finds that interests in STEM in 5th and 8th graders may Precede Self-Efficacy

CATEGORY- Chose U.S./global economy, national security or scientific knowledge:
Scientific Knowledge

NSF AWARD(S) - Provide award number hyperlink:

[IIA-1355466](#)

[ND EPSCoR](#)

OTHER SUPPORTING INFORMATION:

N/A

BRIEF SUMMARY OF OUTCOMES - (Why is this award compelling for use as an Impact?):

The initial finding, that interests may precede self-efficacy, is already adding new knowledge to the theory base in vocational psychology and achievement in STEM.

THREE REASONS this award outcome impacts U.S./global economy, national security or scientific knowledge:

The ND EPSCoR award has the following impacts:

1. The findings will contribute to changes in the STEM interventions implemented in North Dakota's rural classrooms, to maximize impact.
2. Based on lesson plans motivated by innovative science emerging in the two ND EPSCoR research themes (CRCS and CSMS), the K-12 team developed weather and sustainability interventions for both 5th and 8th grade.
3. The developed instruments, including evaluation of self-efficacy, interest, and intentions, have been extended to the American Indian Sunday Academy (SA) participants, with findings that suggest that gender will be an important factor to address in future interventions.

NSF Directorate(s)/Division(s):

OD/OIA/EPS

State(s):

North Dakota