What is TRESTE
TRESTE is a NASA-funded team of nine Tribal higher education institutions and the Earth System Science Program of the Universities Space Research Association (USRA). We are collaborating with Environmental Systems Research Institute, Inc., NativeView and the U.S. Geological Survey to accomplish our goals and objectives to enhance Earth System Science and geospatial education using problem-based teaching techniques.

Goal
• Promote the use of NASA Earth science data and products in the classroom thereby enabling faculty to inspire undergraduate students to careers in Earth system science, the physical sciences, and related fields of science and engineering.

Objectives
• To enhance the utilization of Earth system and physical science concepts in the TCU science (e.g., chemistry, physics, astronomy, biochemistry, computer science, life sciences) teacher’s classroom through integrating the system approach to Earth science and the Native American cultural view

• To increase the utilization of spatial thinking in the classroom practice of TCU science teachers and students through promoting use of NASA’s data products and Earth system science research for teaching and learning needs

• By working with participating TCU science-teaching faculty, to develop “observational”, hands-on, problem-based teaching methods to draw students into the excitement of Earth system and the physical sciences

Leadership Team
• Universities Space Research Association (USRA) http://www.usra.edu/
• Sinte Gleska University (SGU) http://www.sinte.edu/

Universities Space Research Association (USRA)
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