TRESTE is... 
- Developing a holistic/multidisciplinary model for teaching Earth System Science (ESS) at Tribal Colleges and Universities (TCUs).
- Integrating ESS research and geospatial data into TCU core science curriculum, and promoting use of NASA data products in teaching practices.
- Drawing TCU students into the excitement of ESS thereby increasing the number of TCU students in the sciences.

APPROACH
- Introduce Problem-Based Learning (PBL) and Spatial Thinking
- Work with TCU Faculty to Develop Curriculum that Increase Physical Science in the Classroom
- Support Professional Development Training
- Establish a Library of Curriculum, Developed Materials, Case Studies, and Resources
- Promote Outreach Activities to K-12 Schools and the Community

**Principal Institutions**
- Universities Space Research Association (USRA) http://www.usra.edu/
- Sinte Gleska University (SGU) http://www.sinte.edu/

**Leadership Team**
- Universities Space Research Association (USRA)
  - Don Perkey, Director, USRA Earth System Science Program
  - Maury Estes, USRA Earth System Science Program, Urban and Environmental Planner
  - Mona Miller, USRA Earth System Science Program
  - Sinte Gleska University (SGU)
  - Leland Bordeaux, Vice-President for Academic Affairs and Professor of Math and Math Methods for Elementary Education Teachers
  - James Rattlesnake, Land and Natural Resource Developer, Sicangu Policy Institute

**Collaborating Organizations**
- Environmental Systems Research Institute, Inc. (ESRI) - http://www.esri.com/
  - Ann Johnson, ESRI Higher Education Solutions Manager
- NativeView - http://www.nativeview.org/
- James Rattlesnake Leaf
  - Eugene Napier, Chief, Native American Activities Project, USGS Earth Resources Observation and Science (EROS) Data Center

**RESULTS TO DATE**
- Needs Assessment Meeting – Sioux Falls, SD (Jan 06)
  - Discussed interests and project goals at partner schools
  - Identified Case Studies
- 1st Workshop – Bismarck, ND (Jun 06)
  - GIS & Remote Sensing Training Sessions – ESRI
  - MODIS Data Retrieval
  - Integration of 1st case study (Missouri River) with PBL Teaching Techniques
- Project Web Site Online
- Developed Evaluation Process and Criteria
- Implementation of Curriculum Development for Year 2

**TRESTE Evaluation**
- Designed to capture data and results that can be compared against project goals and objectives. TCU faculty will provide data regarding curriculum changes, course enrollments, student impacts, use of geospatial data.

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- South Dakota School of Mines & Technology

For additional program information: http://space.hsv.usra.edu/TRESTE