Engineering and Technology at Southwestern Indian Polytechnic Institute

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Geospatial Information Technology Program
Southwestern Indian Polytechnic Institute (SIPI)
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**U.S. Bureau of Indian Education (BIE)**

**Tribal Colleges & Universities**
- 24 Tribally controlled colleges
- 2 BIE-operated national colleges
  - Haskell Indian Nations Univ., 4-yr
  - Southwestern Indian Polytechnic Institute (SIPI), 2-yr

**K-12**
- 122 Tribally controlled schools
- 62 BIE operated schools
SIPI Geospatial Information Technology (GIT) Program

AAS Degree & Certificate
- GIS, GPS, remote sensing, sUAS for natural resources management
  - Geospatial laboratory
  - RTK-GPS, spectral radiometer, multispectral cameras, sUAS

Extension & Outreach
- Summer short courses for Tribal employees

Research & Development
- Rangeland monitoring
- Mobile imaging system
- Student participation
- External partnerships
SIPI Pre-Engineering Program
Vertically Integrated Projects for Research, Outreach and Student Education in STEM
Faculty: Nader Vadiee, Massoud Ahghar, Brian Wika

VISION
• Capacity building on SIPI campus
• Fair, equitable and win-win partnerships
• Partnership and resource-sharing among TCU’s
• Community-based, culturally sensitive and sustainable programs
Goals and Opportunities at SIPI in Engineering & Geospatial Information Technology

• Build win-win partnerships and collaborations
• Deliver benefits for Native American students and Tribal communities
• Student internships
• Student scholarships
• R&D and applied research projects
• and more

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