

Mission Statement / Overview

To enhance STEM programs by offering Low Earth Orbit launch opportunity at no expense to participant colleges and universities while simultaneously exposing K-12 institutions to hands on space science and systems engineering.

- Educational Outreach impacts K-12 STEM in participating University's local community
- VCSFA and partners provide base satellite hardware, communication system, engineering knowledge, testing facilities, launch vehicle, online data dashboard
- Hands-on experience learning to develop, launch, track, collect and analyze data from a working satellite within approximately one academic year
- Testing ground for new student-developed technology with emphasis on short term objectives
- 32 lead institutes from 11 states impacting an estimated 600 students nationwide
- 12U max payload capability (4 3U CSDs)
- Launch from second stage of NGIS Antares rocket into ELEO

The Program



Impact

Foster relationship between industry, higher education, and secondary education

Give students real-world experience in satellite development

Involve students in active learning

Inspire students to pursue a career in STEM

Expand opportunity for students – higher education, trade schools, future careers

Aid and enable technological advancements through SmallSats

Updates

- Growth from 15 lead institutions to 32 lead institutes from 13 states
- Greater access for Title 1 institutions and increased community involvement
- Doubled the number of custom payloads submitted for flight including sponsored objectives from NASA and the Combined Space Operations Center (CSpOC)
- Feedback from students and mission lessons learned directly applied to continual program improvement
- Tiered system of response to program management and enhanced program documentation for use by future teams

