



Endeavour Institute

EndeavourInstitute.org

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Endeavour Institute Partnership

About Endeavour

The Endeavour Institute is a non-profit organization dedicated to implementing a new education paradigm within our schools. It has developed a STEM education methodology that augments the Inquiry Model with project-based, learn-by-doing simulations and real problem-solving opportunities.

The Endeavour Institute consists of the Endeavour Center and Endeavour Academies. It is a non-profit division of Space Information Labs, Inc (SIL).

The Endeavour Center) operates a NASA Educator Resource Center and provides STEM youth outreach programs, K-12 teacher conferences, and workshops at Vandenberg AFB. The Center has organized many NASA Earth Science Mission K-12 Educator Launch Conferences.

Endeavour Academies provide trained STEM teachers and/or courseware and lab equipment to several middle and high schools across California in support of our Endeavour learning paradigm. This paradigm is a specially designed learn-by-doing, project-based STEM education methodology.

Our Programs

The Endeavour Institute has many programs:

- Endeavour Academies
 - Exciting and relevant STEM course sequences for high schools and middle schools
 - Recognition by the University of California of our highly effective lab science courses (i.e. meeting their “d” entrance requirement with honors).
 - Student STEM Events – exciting opportunities for students
- Space Endeavour Center
 - Science Education Field Trips
 - Science Fairs
 - Astronomical observatory and astronomy club
 - NASA Educator Resource Center
- STEM Education Workshops – professional development for teachers
- NASA Educator Launch Conferences
- Collaborations with universities, industry, and community to develop presenters, mentors, and internship opportunities



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Our Strengths

Grant Proposer & Administrator

The Endeavour Institute has a long history of successfully proposing and administering grants from sources such as NASA, U.S. Department of Labor, Chevron, Northrup-Grumman, and several local private foundations. Endeavour has all of the legal and financial structure needed to be recognized as an Educational Non-profit. This gives us the advantage in grant proposals of having more flexibility and a much lower overhead rate than colleges, universities, or K-12 school districts can offer.

Extensive contacts with NASA, NOAA, Vandenberg, the Aerospace Industry, & our local community

Beginning in 1989 with a community-wide effort to fly student projects on the Space Shuttle; Endeavour has led the way with STEM educational efforts along the Central Coast. Our 20 year history has included a vast array of activities, partnerships, and networking. To mention just a few: 2006-8 – Endeavour partnered with California Space Authority in a \$14M U.S. Department of Labor WIRED grant. 1994-present – NASA designated Endeavour as its regional Educational Resources Center. 2001 – Buzz Aldrin visited local schools as guest of Endeavour.

For recent NASA grant proposals, Endeavour included 24 glowing Letters of Commitment & Support from respected leaders in NASA, NOAA, GLOBE, CSA, Industry, Universities, & local school districts.

Partnering with Local Colleges and Universities

We have worked closely with Hancock College to host Educator Launch Conferences for Earth Observing Satellites launched from Vandenberg AFB as well as to develop Hancock's Aerospace & Mechatronics programs.

Endeavour has worked closely with Calpoly since 1999 when we jointly established an R&D lab for their GPS and Orbital Mechanics classes. This has been followed by joint Space Research and Development projects, establishing the CalPoly Space Systems Club, and developing Spacecraft Design courses. Recently we have partnered with CalPoly in two grant proposals to NASA and NOAA.

Contracts with Local School Districts and Student STEM Events

Endeavour contracts to setup and support Endeavour Academies at each of four local schools. We also host a variety of student STEM events such as our STEM Balloon Fest, held annually in Paso Robles in June.