



STELLARXPLORERS

The National High School Space Challenge



Earn an all-expense-paid trip* to the *STELLARXPLORERS* Finals!

Watch the video [here](https://www.youtube.com/watch?v=_w1oktTFx3k) or <https://www.youtube.com/watch?v=_w1oktTFx3k>

STELLARXPLORERS inspires and attracts high school students to pursue studies and careers in science, technology, engineering, and mathematics (STEM) through a challenging, space system design competition involving all aspects of system development and operation with a spacecraft/payload focus.

Who can participate?

Teams can come from any high school (including home schools), JROTC, CAP, School Clubs, Boy/Girl Scouts, Boys & Girls Clubs, or any organized youth organization. Teams consist of an adult Team Director (usually a teacher) and two to six students. Team Mentors with space experience are available in-person or online. Participation is free until after teams have had the opportunity to compete for the first qualifying round. A nominal \$200 registration fee for the team is payable in December, with waivers available to Title I schools upon request.

How does it work?

The Program supplies a self-contained academic/education component accessed online as a curriculum supplement, as well as specific training in the use of system simulation software, Systems Tool Kit (STK). The competition leading up to the finals will be accomplished from the team's home location on any Windows-based personal computer. Teams will be asked for their solutions to a typical space design problem, such as orbit determination, satellite component selection, and launch vehicle planning, as outlined in a scenario describing the system's mission and constraints. Practice Rounds will precede three Qualification/Prestige Rounds in November, December, and February that will determine teams advancing to Semi-Finals in March to continue the full learning experience. The top teams from the Semi-Finals will receive an all-expense-paid trip the Finals in Colorado in early April.

For Students

This is an exciting hands-on learning experience that develops commercially valuable skills and increases appreciation for the critical role of space in our daily lives. The competition attracts all types of students with diverse backgrounds who will establish their own experiential base off accomplishment, all while building teamwork and leadership skills. Most of all ... it is **FUN!!!**

For Teachers & Mentors

The program provides a relevant and stimulating addition to your classroom with hands-on, real-world applications of science and technology that is widely embedded into your students' lives. Mentors have the opportunity to share their knowledge with an appreciative young audience in an endeavor that they chose as their life's work, while inspiring the next generation of their own replacements.

For Sponsors

Offers the chance to "grow your own" future workforce! You'll have access to a pipeline of talented individuals, interested your business, most U.S. citizens eligible for advanced clearances and uniquely positioned to be your interns and future employees. At the same time, you'll boost US competitiveness and STEM education, while enhancing your visibility with customers and peers.

More Information/Register at: www.StellarXplorers.org / StellarXplorers@afa.org / (703)-247-5800 x 4899
(Registration is open 1 May- 1 October each year)

Sponsors Contact: Stephen Gourley, stephen.k.gourley@gmail.com / (720) 253-3474

***Courtesy of United Launch Alliance *STELLARXPLORERS* Travel Sponsor**

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