



STELLARXPLORERS

The National High School Space Challenge



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

Watch the video at www.stellarxplorers.org!

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 encouraged to assist in-person or via the internet; the Program can facilitate finding mentors. Total cost is a nominal \$200 fee payable by 1 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. 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 two Qualification Rounds in November and December that will determine teams advancing to the Quarter-Finals in January, then Semi-Finals in February, or a Prestige Round in March, to continue the full learning experience. The top teams from the Semi-Finals will receive an all-expense-paid trip to the National Finals in April 2018.

Students

Exciting hands-on learning experience that develops commercially valuable skills and increases appreciation for the critical role of space in our daily lives ... and it is **FUN!!!**

Teachers & Mentors

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 in an endeavor that they chose as their life's work, while inspiring the next generation of their own replacements.

Sponsors

Interact with talented individuals, interested and uniquely positioned to be your future workforce! 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

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

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



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