



STELLAR XPLORERS

SPACE STEM PROGRAM

A STEM program of the
Air & Space Forces Association



StellarXplorers is a STEM program of the Air & Space Forces Association, created to introduce and inspire high school and middle school students toward careers in aviation, space, and other science, technology, engineering, and math disciplines critical to our nation's future.

The StellarXplorers National Space Design Competition

The StellarXplorers National Space Design Competition is a space-focused competition that challenges teams of students (grades 6-12) to solve orbit determination, satellite design, and launch operations missions presented in a series of online rounds. Teams must use the provided scenario (system mission and constraints) to provide the best solution to a real-world space design problem.

To prepare, students are provided with specific training in the use of industry-standard system simulation software – Systems Tool Kit (STK). Teams are also given access to an online professional training course as a curriculum supplement and study resource for the academic quizzes given during the competition.

No prior experience is required to participate.



Participants

Teams can come from organizations such as a high schools and middle schools (including home schools), JROTC units, Civil Air Patrol squadrons, scouting units, Boys & Girls Clubs, and other approved youth organizations. Teams must consist of an adult team director (usually a teacher) and two to six students. Teams may also include a technical mentor (space professional who helps the team prepare). **For more information about registering, visit www.stellarxplorers.org/registration/.**

Schedule / Fees

Registration for the competition is open from early May to mid-October, and competition rounds take place once a month from October through January. All teams are guaranteed participation in the first three rounds. Eliminations occur before the Semifinal Round. The top ten scoring teams from the Semifinal Round qualify for an all-expenses-paid the National Finals Competition in April.

A full schedule and listing of registration fees (and waivers!) is available online at www.stellarxplorers.org/dates-fees.html

Learn more at www.stellarxplorers.org | Contact info@stellarxplorers.org

