

High School Aerospace Scholars NASA Johnson Space Center

About High School Aerospace Scholars

High School Aerospace Scholars is an interactive on-line learning experience, highlighted by a six-day internship where selected students are encouraged to study math, science, engineering, or computer science by interacting with engineers at the NASA Johnson Space Center (JSC).

Who can apply?

Students from across the state of Texas are nominated to participate by their state legislator through a competitive process. In order to participate, students must be:

- A U.S. citizen
- A Texas resident
- **Currently a junior in high school**
- Interested in math, science, engineering, or technology
- Committed to a one-year relationship with JSC, including a designated six-day residential experience during the summer
- Access to the Internet (home, school, or public library) and e-mail

Selected math and science educators from across Texas serve as counselors during the summer.

The Deadline to Apply is November 13, 2009. <http://aerospacescholars.jsc.nasa.gov/HAS>

What will the students do?

During the school year, scholars will complete 10 [web-based lessons](#). Lessons begin in December and are due every two weeks. These assignments include a variety of activities such as reading online curriculum, writing essays, designing upgrades to be used on the Shuttle and ISS, solving math problems, and taking online quizzes. These lessons are aligned to the [state and national standards](#).

If selected, during the summer, scholars attend a six-day summer session at JSC, which will include:

- Designing a human mission to Mars
- Tours of JSC facilities
- Mentoring by NASA engineers
- Participating in hands-on engineering activities
- Briefings by astronauts, engineers, and other NASA experts.

If selected students participate and complete the summer program, school districts may grant a science elective credit towards graduation based on the Scientific Research and Design course developed by the Texas Education Agency.

Students and counselors are provided transportation, housing, and meals during their week-long stay at JSC.

How do students become Aerospace Scholars?

- Complete the online application by going to the web site and clicking on "[Students](#)".
- If accepted into the program, students will be notified via email and sent information to begin working on the online curriculum.
- Each of the 10 lessons and final project will be graded using the rubrics at the end of each lesson. Students are selected for the summer program based on completion of lessons, quality of work and timeliness.

What is the timeline?

- **August:** State Legislators receive information describing the program, its guidelines, and outlining their roles in the selection process.
- **September-November:** Application and selection process for students.
- **December-May:** Students engage in distance learning assignments and on-line discussions to learn more about space exploration, JSC mentors, and the other participants.
- **June-August:** On-site Summer Workshops at JSC.

How do students obtain more information?

- Visit Aerospace Scholars web site at : <http://aerospacescholars.jsc.nasa.gov/>
- e-mail : jsc-aeroscho@mail.nasa.gov
- phone : 281-483-4112