Summer STEM programs and Internships for HS students

All of these programs are very selective. Most are cost-free program. Some are even paid internship

NASA OSSI

https://intern.nasa.gov/. Hands-on educational opportunities that provide unique NASA-related research and operational experiences for high school level and above. (some are paid internship.)

NJ Governor School

http://www.nj.gov/govschool/. Cost-free program to summer residential students for high-achieving upcoming high school seniors who have an interest in STEMS subjects. Applicants must be nominated by a school counselor first. Only one student per school. Of this, only 20-25% are accepted into this program.

Research Science Institute

https://www.cee.org/apply-rsi. RSI is the first cost-free to students summer science & engineering program which accepts international students as well. It combines on-campus course work in scientific theory with off -campus work in science and technology research. The acceptance rate is usually less than 10%.

SEES (STEM Enhancement in Earth Science)

https://www.tsgc.utexas.edu/sees-internship/ or https://smdepo.org/project/6169. This nationally competitive program pertains to Earth and Space Research. Interns will work beside research scientists analyzing and visualizing authentic NASA research through field investigation and data analysis.

NASA Science Mission Directorate Education Community Progam (SMD)

http://smdepo.org. SMD often offers summer internship opportunity for high school and undergraduate students to work directly with NASA scientists in various NASA research projects. At their site, click on "Projects," and enter "High school" as the "Primary Audience" to view programs available.

Simons Summer Research Program

https://www.stonybrook.edu/commcms/simons/about/about.php. This is a summer tuition-free research program for only 11th graders. Simons Fellows are matched with Stony Brook faculty mentors, join a research group or team, and assume responsibility for a project. The Simons Fellows conclude their apprenticeship by producing a written research abstract and a research poster.

Science and Engineering Apprenticeship Program (SEAP)

https://seap@asee.org SEAP is a nationally competitive engineering internship with stipends for only 250 high school students. Participating students spend eight weeks during the summer researching one of the Department of Navy (DoN) laboratory.

Time to Apply: Most have a deadline in the late Fall, and have age restriction as well. Typically Gr. 10+, or age 16+. Application for the following year usually starts late summer.

History at SR shows usually at least one or more long-time SR students were rewarded internships and/or free summer programs listed here. While many may not be directly related to robotics, level of programming skill (from the Algorithms in C/C++ track), and engineering experience from robotics projects have proven to gain students competitive edge.