

Support science and technology education from various perspectives!

Fostering the Next Generation Leaders in Science and Technology

Promote the development of future global leaders in science and technology

The qualities and abilities required for human resources in science and technology have been changed in order to overcome various crisis and issues, according to the globalization. Considering the population decline and aging society in Japan, the development of world-class human resources is the key to continue achieving the

highest level of research and development. To contribute to the advancement of Japanese science, JST makes continued efforts to discover the students who have excellent qualities and abilities, and to develop the talents of those students.

Support for Super Science High Schools (SSHs)!

JST offers the necessary support to further the activities of those high schools designated by the Ministry of Education, Culture, Sports, Science and Technology in Japan (MEXT) as Super Science High Schools (SSHs), as well as promoting liaisons with boards of education governing SSHs.

These SSHs are making ongoing efforts aimed at developing their curricula focusing on advanced science,

technology, and mathematics, as well as undertaking advanced science/mathematics education in collaboration with universities and developing teaching methods and materials to increase creativity and uniqueness.

Currently 203 high schools nationwide have received SSH designation in 2015. Each school undertakes a range of different unique activities, with many great results evident.

Examples of SSH activities

- Curriculum development
- Core institution
- National Consortium
- International exchange
- Researching issues
- International Science Olympiad
- Science club activities
- University/school liaison

Results of Super Science High School survey

● Survey conducted in 2014 (targeting 201 SSHs schools)

Has your desire to learn about science and technology increased due to the SSH program?

67%

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
No. of schools supported that year	82 school	99 school	101 school	102 school	106 school	125 school	145 school	178 school	201 school	204 school
No. of SSH students	16,663 people	21,963 people	24,867 people	29,631 名	34,724 people	38,738 people	45,557 people	60,283 people	78,363 people	88,120 people

‘Science Koshien’ Japan High School Science Championships: a “Festival of Science” for science-loving kids

JST has conducted the 'Science Koshien' Japan High School Science Championships, in which science-loving high school students across Japan form into teams since 2011. The 'Science Koshien Junior,' for junior high school students, started in 2013, which more than 23,000 participated in a primary exam nationwide.

The champion team of 'the nationwide Science Koshien Junior' was invited to 'the Science Koshien', and the attendants enjoyed association that surpass generations and regions.

The 'Science Koshien' is an opportunity to encourage one another and to increase students who are fond of math and science.



Championships mascot "Appin"

Striving against the world: Support for international contests in science and technology

Many different international competitions exist in the world of science and technology. JST has implemented many programs in support of young students participating in these international contests in science and technology, and also supports various Japanese and international contests.

A great many students participate in Japanese contests; as a result, selected students competed with

elite students from around the world. All 31 Japanese representatives earned medals (eight of them won gold medals) in 2015.

Participating students replied that the experience "increased their eagerness to study," demonstrating that these events provide a place for science-loving students across the nation to actively further their education.

List of international contests in science and technology

- International Mathematical Olympiad
- International Chemistry Olympiad
- International Biology Olympiad
- International Physics Olympiad
- International Olympiad in Informatics
- International Earth Science Olympiad
- International Geography Olympiad
- Japan Students Science Awards
- Japan Science & Engineering Challenge (JSEC)
- RoboCup Junior
- World Robot Olympiad

Total number of participants in international contests in science and technology

	2009	2010	2011	2012	2013	2014
Total participants	10,504 people	11,293 people	12,862 people	14,764 people	16,388 people	18,089 people

Performance of Japanese representatives in 2015 international contests in science and technology

	Gold	Silve	Bronze
Mathematics	0	3	3
Chemistry	2	2	0
Biology	1	2	1
Physics	1	2	2
Informatics	3	0	1
Earth Science	1	1	2
Geography	0	3	1
Total	8	13	10

Developing personnel who can take an active role on the future global stage (Global Science Campus)

In 2014, JST launched the Global Science Campus, which enables high school students with excellent motivation and abilities to participate in academic education in science field and international activities. About a thousand young students participated in seminars

that were offered in the thirteen universities nationwide in fiscal year 2015, and some of them achieved fruitful results, such as presentations at the international congress and awards in the international science and engineering fair.

List of JST's Global Science Campus (in 2015)

- Hokkaido University
- Tohoku University
- University of Tsukuba
- Utsunomiya University
- Saitama University
- Tokyo University of Science
- Keio University
- University of Fukui
- Kyoto University
- Osaka University
- Okayama University
- Hiroshima University
- Kyushu University