

**Imagine this:** You are developing a strategy against cancer that will trigger the body's early detection of tumors, or studying surfaces using scanning tunneling microscopy, or learning about the behavior of semiconductors, or designing a computer program to simulate neurotransmitter release, or... These are only brief examples of some of the projects researched recently by participants in the International Summer Science Institute. Divided into small groups of two or three participants, students from all over the world work on actual, ongoing research projects of their choice under the supervision of Weizmann Institute graduate students and scientists. This intensive English-language program offers the opportunity to taste the realities of research through hands-on experience.



### About the Weizmann Institute of Science

The Weizmann Institute of Science, devoted to research and teaching the natural sciences, was inaugurated in 1949 in Rehovot, Israel. It bears the name of Dr. Chaim Weizmann, the scientist and statesman who became the first president of the State of Israel and led the Weizmann Institute through its first years of success.

The Institute comprises 17 research departments, grouped into five faculties: Biology, Biochemistry, Chemistry, Mathematics and Computer Science and Physics, as well as the Feinberg Graduate School, which supervises the Science Teaching Department.

Cutting across departmental lines are approximately 50 multidisciplinary centers in such fields as aging, cancer research, nanotechnology, systems biology, alternative energy, astrophysics, molecular genetics, brain research and more. The staff of 2,600, which includes researchers, engineers, technicians and scientists-in-training pursuing M.Sc. and Ph.D. degrees, are involved in hundreds of basic and applied research projects. The Davidson Institute of Science Education, Weizmann Institute's educational arm, offers a wide variety of science programs to students, science and math teachers, and the general public. The Clore Garden of Science, also on campus, is an interactive, outdoor science museum, the first of its kind in the world.

### The Campus in Rehovot

The 300-acre campus in Rehovot, located 14 miles south of Tel Aviv and 35 miles west of Jerusalem, is set among trees and landscaped gardens. Among its facilities are concert and lecture halls, and an extensive recreation center. All of these facilities are available to participants of the International Summer Science Institute.

### For an application form and more information:

Deutsche Gesellschaft der Freunde des Weizmann Institute  
c/o Jochen Reder Hadrianstr. 18  
68526 Ladenburg  
Tel: 06203 2383  
Email: jo.reder@gmx.de  
www.issi-alumni.de  
<http://davidson.weizmann.ac.il/en/programs/issi>  
The application deadline is **March 1, 2017**

The Dr. Bessie F. Lawrence

# 49<sup>th</sup> International Summer Science Institute

For High School Graduates at the Weizmann Institute of Science, Rehovot, Israel

July 4<sup>th</sup> – 30<sup>th</sup>, 2017

**Davidson Institute**

the Education Arm of the Weizmann Institute of Science



# 49<sup>th</sup> The Dr. Bessie F. Lawrence International Summer Science Institute

For High School Graduates  
at the Weizmann Institute of Science, Rehovot, Israel

**July 4<sup>th</sup> – 30<sup>th</sup>, 2017**

---

The Dr. Bessie F. Lawrence International Summer Science Institute is dedicated to bringing together talented high school graduates from all over the world to experience the challenges and rewards of scientific research, and to learn more about the Weizmann Institute of Science and life in Israel today.

## Experience Science

Each summer since 1969 approximately 80 highly talented science students from Europe, Asia, Australia, the Americas and Israel gather together to spend a month at the Weizmann Institute.

The first three weeks are spent working in campus laboratories. The work combines the exploration of problems in the fields of biology, chemistry, physics and mathematics and computer sciences, instruction in the use of sophisticated laboratory equipment, and experimental procedures. Upon completion of laboratory work, participants give an oral presentation and submit a report.

In addition, participants take part in various scientific activities, such as lectures and workshops given by senior institute scientists, departmental seminars and visits to some of the state-of-the-art facilities on campus. Participants are also encouraged to give presentations on subjects in which they have an interest.

The final week of the program is spent in the Judean Desert and the Negev, where expert guides from Sde-Boker field school lead hikes and excursions that acquaint participants with the ecological, geographical, geological, zoological and archeological characteristics of the region.

## Eligibility

The International Summer Science Institute is open to talented science-oriented students who have just graduated from high school prior to the starting date. Scholarships are available for students accepted into the program.

The International Summer Science Institute is organized by the Davidson Institute of Science Education, Weizmann Institute of Science, Rehovot, Israel.

## Outside the Laboratories

The schedule also allows for free time (including some weekends), social activities, group discussions and more. Participants are encouraged to be involved in planning events and activities.

Tours of Israel are an integral part of the program. This gives participants a sense of the beauty of the country and introduces them to the history and diverse culture of Israel.

The participants enjoy full board accommodation on campus at the Laub International Science Youth Village with meals supplied by the Institute restaurants.

During free time participants can enjoy the extensive recreational and library facilities on campus.

For an application form and more information:  
Deutsche Gesellschaft der Freunde des Weizmann Institute  
c/o Jochen Reder  
Hadrianstr. 18  
68526 Ladenburg  
Tel: 06203 2383  
Email: [jo.reder@gmx.de](mailto:jo.reder@gmx.de)  
[www.issi-alumni.de](http://www.issi-alumni.de)  
<http://davidson.weizmann.ac.il/en/programs/issi>  
The application deadline is **March 1, 2017**

WEIZMANN  
INSTITUTE  
OF SCIENCE