



SCIENCE FOR THE BENEFIT OF HUMANITY

THE DR. BESSIE F. LAWRENCE
VIRTUAL INTERNATIONAL SUMMER SCIENCE INSTITUTE
JULY 11TH - AUGUST 5TH 2021
THE WEIZMANN INSTITUTE OF SCIENCE

Application process and acceptance criteria:

1. **Academic studies:** The program is intended for high school graduates or 1st year bachelor's degree students.
2. **Academic requirements:** Candidates are required to present a strong scientific background. A successful candidate will demonstrate excellent academic achievements in science studies as well as proven involvement/ interest in scientific research outside the classroom. This can be manifested by means of extracurricular scientific activities, projects, competitions, summer programs, etc.
3. **English requirements:** The ISSI is an English spoken program. High proficiency in English is mandatory.
4. **Social Skills:** While the ISSI is an international science program, the social interactions and activities are an integral part of the program. Thus, successful candidates will be required to work on a scientific project in teams of up to 5 students and team up for various cultural, artistic and social activities.

A complete application to the ISSI includes:

1. **Complete** application form as a **singular pdf or docx file**.
2. A complete transcript or list of courses (with grades) the applicant has taken in his/her studies.
3. **Two letters of recommendation** from teachers, advisors, school principal, professors or others who know the applicant well.
4. A photograph of the applicant needs to be included.

All forms must be printed; handwritten forms will not be accepted!

The application deadline is **March 1, 2021**. Applications received after the deadline will be processed only on availability basis. Please send completed applications and all supporting materials to **Rebecca Serber** at R.Serber@acwis.org. Successful candidates will be invited for an interview.

Note: Written responses and essays are not limited to the provided space.

Dr. Bessie F. Lawrence
Virtual International Summer Science Institute
General Information

1. The ISSI 2021 program will take place from July 11th-Aug 5th.

1.1. Scientific projects during the first three weeks, submission and presentations on July 29th

1.2. Last week, less scientifically demanding, focus will be on the social and cultural aspects of the program, science talks, etc. Fewer attendance hours.

1.3. The program is demanding and participants will need to dedicate significant time to it, almost as if they were physically at the Weizmann Institute.

2. The weekly & daily schedule will address the challenges that the different time zones of participants and mentors brings.

3. Scientific Projects will have computational aspects and analytical sides. Thus, even the “pure” experimental projects will be developed to meet scientific research without the participants’ acquisition of data in a wet lab.

3.1. It is essential that candidates with an experimental orientation will be open minded and flexible, with some orientation toward more analytical and computational aspects should they be part of such a project. Similarly, a candidate should not be specifically oriented towards a certain discipline and should be able to integrate with a broad range of scientific research.

3.2. Multidisciplinary groups: Our goal for the virtual program is to present the multidisciplinary approach to science which is the heart of the Weizmann Institute and its uniqueness. Thus, successful candidates will be those who are flexible and willing to be part of a broader research area.



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Student Application Form

General Details

Name:

First Last

Date of Birth:

Day/Month/Year

Address:

Place of Birth:

Gender: Male Female

Phone (mobile):

Email:

Current grade in school:

School Name:



List of classes you take this semester:

List of science classes you took in previous years:

Please specify **programming languages, experience, knowledge** and **level**,
(limited/fair/excellent):

Please describe your **general interest in computational projects**:

List of academic or other significant **awards**:

List of **science journals** you read:

Extra-curricular activities, interests and **hobbies**:

To which colleges or universities have you applied?

Which colleges or universities have accepted you?

Which **field of study** do you intend to pursue in University?

Please describe your **general interest** to participate in a **virtual project**:

Please describe your **general interest** to participate in a **multidisciplinary project** and how you & your team would benefit

Please describe in which **academic fields** you could **assist** other participant on the program



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Essay Topics

The following essays will reflect on your academic and scientific backgrounds as well as your scientific and personal interests. These essays will determine your assigned scientific project. Thus, we strongly recommend for you to present yourself, elaborate on your previous achievements, interests, goals, both scientifically and socially, if you have unique interests, traits or hobbies - let us know who you are so we can match you with the most appropriate project.

1. **Write your personal statement:**

- 1.1. Elaborate on **science activities** you've been involved in, extracurricular scientific projects, university courses, etc...
 - 1.2. Describe what your **main fields of interest** are and how you broaden your knowledge through your involvement in them.
 - 1.3. Write about your present career goals and your motivation to pursue these particular professional directions.
 - 1.4. Explain why you want to participate in the **virtual ISSI program**, your **motivation**, your **expectations**, your **commitment** to the virtual program: scientific, social and other academic or cultural demands, unconventional hours related to different time zones, flexibility with international online meetings) and how you would fit the program with your other summer plans.
2. Please write an essay about a topic of your interest. You may choose to write about a project that you were involved with, a paper that you've read, a book that has made an impression, a talk that you found inspiring, your future professional plans, or other topics that are close to your heart.



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RECOMMENDATION FORM #1

NOTE TO THE PRINCIPAL, ADVISOR OR SCIENCE TEACHER: The Summer Science Institute at the Weizmann Institute in Israel, conducted in **English**, offers an exciting summer of study and experience in various branches of science under the guidance of the Weizmann Institute's scientific staff. Applicants are required to **excel** in their academic science studies and demonstrated their intellectual curiosity and self-initiative by participating in scientific research beyond the classroom – i.e. extra research projects, science competitions, summer programs, etc.

In addition, the applicant should present **good social skills, cooperate** in group activities, be **team players, respectful** to their peers and staff and **follow the rules** and **regulations** of the program.

A major factor in the final selection of a candidate is the following evaluation submitted by the principal, science teacher or advisor. We would appreciate your valuable input.

Name of student:

Name and address of school:

Name, position, address and email of person filling out this form:

How long and how well have you known the applicant?

Please circle below your opinion of the applicant:

Academically:

Outstanding

Above average

Average

Below average

Personally:

Outstanding

Above average

Average

Below average

Comments:

The applicant's social behavior for his/her age is:

More mature than most students **Average** **Immature**

Please describe the applicant's level of **scientific curiosity, initiative**, knowledge, readiness for individual and extracurricular work and background along with a description of any particular project in which he/she has excelled.

The virtual ISSI program is ~~highly~~ academic and requires intensive individual and group study. This presents high responsibility, self-driven motivation independent learning as well as reaching out for other team members. How do the student's previous experience relate to these skills and traits? Please include any observations you may have of the applicant's behavior in groups, both in a social and educational context.

If you have further comments to add which would be helpful for the candidate's selection process, kindly write them on a separate sheet.

ALL RESPONSES WILL BE CONFIDENTIAL



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RECOMMENDATION FORM #2

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