

Future Science Leaders

*Presented by
Acuitas Therapeutics*

Information Session

2025-2026 Program Year

**SCIENCE
WORLD**



Land Acknowledgement

I would like to acknowledge we are gathered on the traditional, unceded territory of the Musquam, Squamish, and Tsleil-Waututh peoples on which we work, play and learn.

Introductions

Agenda

1. Program Overview
2. Application Process
3. Questions



Program Overview

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The FSL mission

is to empower BC's inquisitive youth to pursue, achieve, and excel in their STEM aspirations.

Science World created *Future Science Leaders* in 2011



How do we accomplish this?

1. Meet and learn from professionals in a variety of careers

2. Create a lifelong network of like-minded peers

3. Develop the skills critical for a career in science: technical skills and science communication

4. Collaborate with others through scientific projects

5. Learn to think critically in a scientific context

Discover (Year 1)

- Grade 10/11
- Variety of many STEAM fields
- topics anywhere from flood assessments to cancer genetics
- Single experiment group project
- Write and present a scientific poster

Innovate (Year 2)

- Grade 11/12
- Streams;
 - Applied Science
 - Life Science
- Learn advanced technical skills
- 10-week individual project
- Write and publish a scientific paper

Implement (Year 3)

- Grade 12 only
- Professional development program
- 6-month individual project
- Write and publish a scientific paper
- Give TED-style talk

Program Details

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Discover Program Details

- **Term:** 8-months (September – April)
 - includes Winter and Spring breaks
- **Frequency:** Weekly 2-hour sessions
- **Location:** Vancouver, Science World
- **Session times & days (current)**
 - Tuesday 4pm-6pm
 - Tuesday 6:30pm-8:30pm
 - Thursday 4:00pm-6:00pm
 - Thursday 6:30pm – 8:30pm



Discover Course Overview

1. Scientific Process
2. Science Communication

-led by Science World team
-10 sessions
-2 events

Example: 2024/2025 Schedule

1. Civil Engineering
2. Immunology
3. Data Science
4. Mathematics
5. Particle Physics
6. Social Science
7. Ecology

-led by STEAM Professionals
-16 sessions
-Topics depend on expertise of invited guests

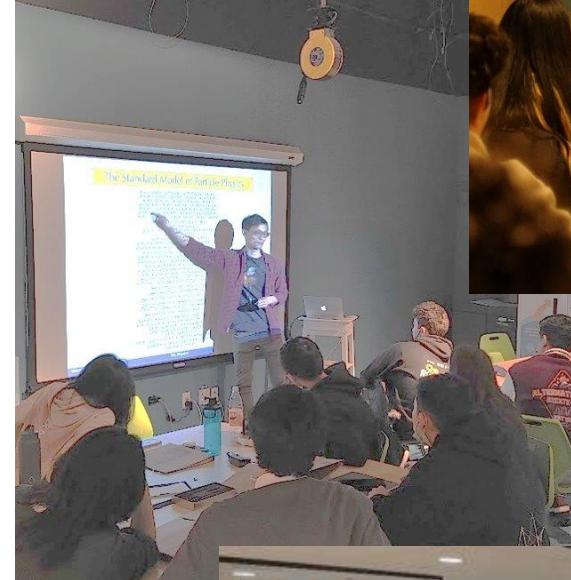


Future Science Leaders Staff

1. Background in Science or Engineering
(Biology, Mechatronics, Neuroscience)
2. Background in Informal Learning/Facilitation
(Youth programs, tutoring, museums)

Guest Instructors (examples from previous years)

1. Engineers with the City of Vancouver
2. Ecologist with Squamish Streamkeepers
3. Particle Physicist with TRIUMF
4. PhD students at UBC and SFU
5. Professors of Pathology, Digital Health from UBC



Scientific Inquiry Projects

- Lessons to support students to engage in their own projects
- **Observational studies** that collect data from the natural environment to analyze.
 - e.g. Tracking animal populations in local parks and their impact on the environment
 - e.g. Surveying the mental health of high school students
- **Experiments** that tests a variable.
 - e.g. At home filters to remove microplastics from washing machines.
 - e.g. Varying material to generate energy from rainfall (triboelectric nano-generators)



Additional Opportunities

- **Field Trips**
 - Ex. University labs (TRIUMF, Quantum Matter Institute, CEME)
 - Ex. Local STEM companies (Acuitas Therapeutics, Amgen, STEMCELL)
- **Virtual Field Trips**
 - Particle accelerators outside BC, Ecology Labs on Vancouver Island
- Reference Letters
- Volunteer opportunities
- Eligibility to the Year 2 and Year 3 program

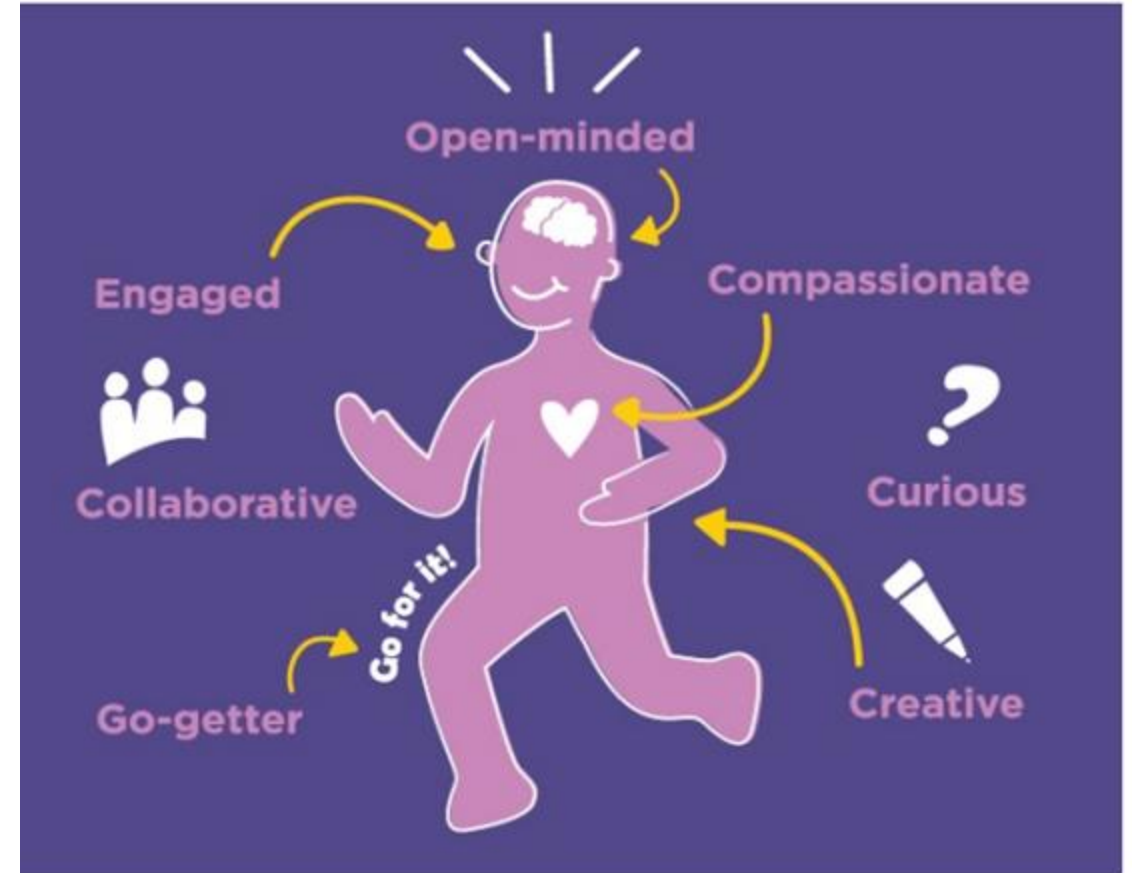


Application Process

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Eligibility

- **Grade 10 or 11 in September 2025**
- **Born in 2010 or earlier**
- Can demonstrate that they are:
 - Team player (compassionate, collaborative)
 - Internally motivated (curious, go-getter, engaged)
 - Growth mindset (open-minded, compassionate, creative)
- Can commit to the time (2hrs session + <2hrs homework + travel)



HINT: In your application, highlight each of these areas!

Application Process

1. Complete **application** online (February 1st - April 30, 2025)

The application form released on our website

- www.scienceworld.ca/futurescienceleaders/

- Fill out your contact information
- Acquire 1 Academic reference contact information
- Short answer questions - Demonstrate an excitement for learning about STEAM (inside and outside of school)



Application Process

2. Eligible students invited for an **interview**

- In-person interview
- Includes a Group activity + Individual questions
 - **Team Player, Intrinsic Motivation, Growth Mindset**

3. Registration and fee payment \$1450 + tax

- *We will ensure financial assistance is available to those who need it most, and we look forward to continuing to welcome students from a wide range of backgrounds to our FSL program*
- Fees assure student access to programming, additional workshops, in-person field trips, FSL events, access to scientific equipment, project materials, and STEM mentors



Contacts

Questions or comments:

- Sean Lipsit, Program Manager
 - slipsit@scienceworld.ca

Websites:

- Read stories about alumni and find out more details:
 - scienceworld.ca/futurescienceleaders/
- Examples of student work:
 - futurescienceleaders.com



Thank you to our donors

Future Science Leaders would not be possible without the generous support of:



Foundation



NumerixS Quant
ANALYTICAL EXCELLENCE

The Louis Family

John Murphy & Leslie Lee

John & Dana Montalbano

Marion Mann & Scott Shaw

We also acknowledge the financial assistance of the Province of British Columbia.

Thank you for attending! Questions?

Sean Lipsit

slipsit@scienceworld.ca

Upcoming Application Workshops:

February 12, 2025 (4:30 – 5:30 PST)

March 13, 2025 (4:30 – 5:30 PST)

Future Science Leaders Application
Workshop Registration 2025



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