

Future Science Leaders

Presented by
Acuitas Therapeutics

Information Session

2025-2026 Program Year

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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: laboratory 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 a scientific poster

Innovate (Year 2)

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

Implement (Year 3)

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

Program Details

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Discover Program Details

- **Term:** September - April
 - (With 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*



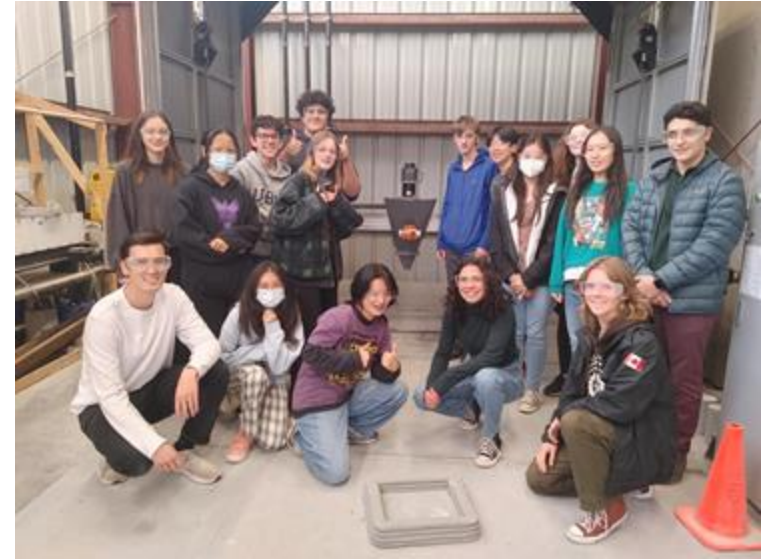
Scientific Inquiry Projects

- 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. Biotech 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



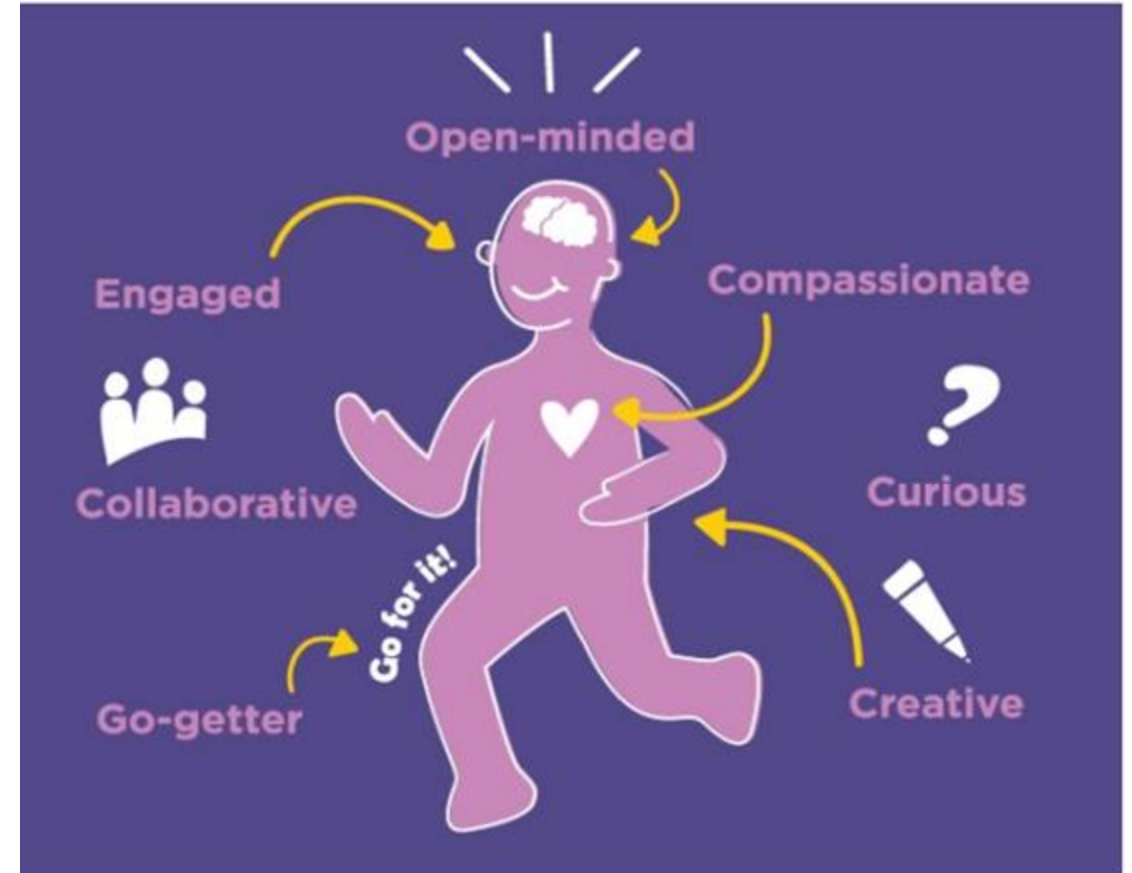
Application Process

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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 \$660 + tax

- Needs-based bursaries are available to cover up to 90% of program fees.
- *We will work with families to ensure that financial circumstances won't prevent an applicant from attending the Future Science Leaders program.*
- This year we had scholarships cover 7 students full program costs.



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 Information Sessions:

January 21, 2025 (4:50-5:30 PST)

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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