

Program Guidelines

TRIUMF, Canada's national laboratory for particle and nuclear physics is located on the campus of the University of British Columbia. It is home of the world's largest cyclotron accelerator and smaller isotope-production cyclotrons to support a diverse program of world-class research in nuclear physics, high-energy particle physics, molecular and material science, applied technology, and nuclear medicine. In addition, TRIUMF acts as an infrastructure lab for international collaborations around the world, including CERN in Switzerland, KEK and JPARC in Japan, and Jefferson Lab in Virginia. For more information, visit www.triumf.ca

The Fellowship

The TRIUMF High School Fellowship (Fellowship) offers an opportunity to BC secondary school graduates who have a passionate interest in science to experience a real-life research environment at TRIUMF. The fellowship includes a six-week summer work term at TRIUMF, typically in July and early August, and a \$3,000 award that is disbursed upon completion of the work term. The Fellowship is intended to show students interested in pursuing a career in science, what life in a research laboratory is like.

The Fellowship will include interaction with staff scientists, graduate students, undergraduate co-op students, participation in group meetings and attendance in weekly seminars and occasional workshops. The position may also include active research with one of the many research teams and may involve physics, chemistry, computer science, or engineering. Students will learn new skills by being assigned to specific tasks or projects.



CSSE C. Gordon Lindsay Memorial Award

The Canadian Society for Senior Engineers sponsors the C. Gordon Lindsay Memorial Award (Award), is offered to a student who intends to pursue a career in engineering. The Award is in honour of Gordon Lindsay, P.Eng, FEIC, FCSSE, FEC (1925-2014), an engineer for over 60 years who was a powerful advocate for the engineering profession and education nationwide. Applicants wishing to be considered should indicate so on their information form and state their reasons in their personal essay. One Fellowship recipient satisfying the above requirements will be selected for the Award.

Nomination

TRIUMF offers three or more Fellowships annually to students graduating from a BC secondary school and entering the first undergraduate year in the year of nomination, within the sciences, engineering or mathematics at a recognized post-secondary institution anywhere in the world.

The student must be nominated by their school and they require a minimum of two personal references.

The following forms must be submitted for a student to be considered for the Fellowship. The forms are described on the next page and can be found on the TRIUMF website at: <http://www.triumf.ca/outreach/high-school-fellowship>.

The forms on the TRIUMF website are fillable PDF copies that can be saved by Adobe Reader.

Student Information Form
Personal Essay
Resume

Transcripts
Reference Forms from a minimum of 2 referees
Reference Letters from a minimum of 2 referees

Application Deadline

The nomination forms and letters of reference must arrive in electronic format at TRIUMF by **Monday, April 3, 2017**. The winners of the Fellowship will be announced in May 2017.

<p>Application Deadline All parts of the nomination, application and references must arrive in electronic format at TRIUMF by Monday, April 3, 2017. The winners will be announced in May 2017.</p>	<p>TRIUMF 4004 Wesbrook Mall Vancouver BC V6T 2A3 www.triumf.ca</p>	<p>Contact Dana Giasson Student Program Coordinator Tel: 604 222 7565 Main Desk: 604 222 1047 hsfellowship@triumf.ca</p>
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Required documents for complete application

Student Information Form

Student must complete and sign the required sections and submit the form to TRIUMF in electronic format
The school contact (science teacher, counselor or Principal) must complete and sign the nomination confirmation section

Personal Essay

Max. 500 words / 2 pages

Provide an essay in letter format and address it to the members of the TRIUMF High School Fellowship Committee. This is an opportunity to differentiate yourself from the other nominees by providing the Committee with information that is not on your resume or in your letters of reference.

- Discuss who you are as a person, your interest in the Fellowship, what you would like to gain from the experience and how it will help you in your education and career path.
- Describe your academic goals and the topics in physics that interest you and why; and the career that you intend to pursue, the goals and the path you intend to follow to achieve them.
- Include relevant experiences such as working on a team and hands on building, software coding, electronics experience or other such experience.
- Please also describe what you hope to get out of the High School Fellowship.
- If you wish to be considered for the CSSE C. Gordon Lindsay Award, please explain why you would be a suitable candidate.

Resume

The resume will provide an introduction to and outline of your academic and non-academic experience and achievements.

- Include any special school-based or extracurricular programs, courses and exams taken, workshops and events attended, non-academic awards received, paid or volunteer work (please specify amount of volunteer time), and any other relevant experiences.
- List memberships in clubs, societies, and associations both in and out of school.
- Identify any computer programming or technical skills or other special skills or hobbies.
- Identify any science fairs you have participated in at the school, district, regional and/or national levels.
- List all academic awards received, or won through competition in grade 11 and 12. Include scholarships, prizes and bursaries, etc.
- Do not include awards for which you have applied for, but have not yet received.
- List all science and mathematics courses in-progress or completed but not yet available on your transcripts. Indicate if a course is an International Baccalaureate (IB) program or if it is an Advanced Placement (AP) course. If the course is completed, please provide the final grade. If an interim mark is available, please list as "In Progress" and the interim period (e.g. winter).

Reference Form (to be completed and submitted in confidence by each referee; minimum two required)

Personal letters of references are requested from a minimum of two individuals who are familiar with the nominee's personality, work and abilities. The individuals should include:

- A teacher within mathematics and sciences, if possible, physics;
- A teacher outside mathematics and sciences;

The reference is an opportunity to differentiate the student from the other nominees by providing information that emphasizes motivation, social skills, dedication to objectives and communication abilities, as well as addressing the ability to work with others, creativity, drive, judgment and significant accomplishments or qualities, including non-academic activities (e.g. volunteer or work experience). Please also discuss nominee's suitability for the High School Fellowship.

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Terms and Conditions

Eligibility

- The student must be graduating (completing grade 12) at a BC secondary school and *must* be nominated by their secondary school. Each secondary school is eligible to nominate a maximum of two students (more with permission). The student must have completed both Physics 11 and 12 (or Physics B Advanced Placement) upon graduation; and chemistry is also recommended.
- The student must be entering the first year of a full-time degree program within the sciences, engineering or mathematics at a recognized post-secondary institution in the year of nomination. The post-secondary institution does not need to be in Canada. Please contact TRIUMF if unsure about specific programs eligible for support.

Award Term

- The TRIUMF High School Fellowship comprises a six-week work term at the TRIUMF laboratory located on the University of British Columbia campus, and an award valued at \$3,000. Three or more fellowships are awarded annually.
- The term at TRIUMF will commence in early July and be completed in mid-August. TRIUMF will provide housing and pay return transportation costs for students from outside the Greater Vancouver region; and in exceptional cases only, students from within the Greater Vancouver region may be considered for housing.
- Following completion of the work term at TRIUMF, each winner must submit a brief written report or present a brief presentation to TRIUMF on their research experience. The award is disbursed conditional upon the student's completion of the work term, submission of the report and their entrance into an eligible post-secondary degree program.

Nomination

- Secondary schools in British Columbia are eligible to nominate a maximum of two eligible students for the TRIUMF High School Fellowship. *Contact TRIUMF for exceptions where nominations may exceed two students.*
- The nominated student must complete and submit the Student Information Form electronically, including required documents to TRIUMF by the Application Deadline. They must also provide copies of the Reference Form to a minimum of two referees.
- The student nominee must sign a declaration on the Student Information form that certifies the information they have provided is true, they have been nominated by their school and they agree to abide by the terms and conditions of the fellowship.
- The school contact (science teacher, counselor or principal) must sign the Student Information form confirming the student nomination, and the validity of the nominee's transcripts. The Transcripts must be signed by the school contact.
- The referees must each complete and submit the confidential Reference Form and a personal letter of reference, in electronic format, directly to TRIUMF by the Application Deadline.
- The deadline is for receipt of applications.

Evaluation

<p>Application Deadline All parts of the nomination, application and references must arrive in electronic format at TRIUMF by Monday, April 3, 2017. The winners will be announced in May 2017.</p>	<p>TRIUMF 4004 Wesbrook Mall Vancouver BC V6T 2A3 www.triumf.ca</p>	<p>Contact Dana Giasson Student Program Coordinator Tel: 604 222 7565 Main Desk: 604 222 1047 hsfellowship@triumf.ca</p>
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- The nominations are first reviewed internally for completeness by TRIUMF, who may contact nominees or referees to request clarification of information or to request additional information. The nominations are then forwarded to individual members of the TRIUMF High School Fellowship Committee who each conduct an independent evaluation of the nominations. The committee then meets to discuss the evaluations and to make recommendations to TRIUMF.
- The TRIUMF High School Fellowship Committee is comprised of representatives from TRIUMF, the BC Association of Physics Teachers (BCAPT) and/or the BC Science Teachers' Association (BCScTA), as well as other expert individuals, including university professors. The committee recommends the recipient(s) of the fellowship to a panel of TRIUMF judges who will make the final selection. All decisions are final.
- The nominations will be evaluated based on the information provided in Student's Personal Essay, Resume, Transcripts and the Reference Form and letters. The criteria for the award include demonstrated academic performance and non-academic achievement and promise of future outstanding achievement in the sciences, in particular physics, based on personal references. There is a particular emphasis on motivation, social skills, dedication to objectives and communication skills.

Summary

Nomination:	Completion and Submission to TRIUMF of the Student Information Form, including nomination confirmation, Personal Essay, Resume, Transcripts + Reference Form (from 2 references) and Letters of Reference
Evaluation:	TRIUMF Internal Review → Independent Evaluation by TRIUMF High School Fellowship Committee Members → Evaluation Committee Meeting → Recommendation
Selection:	TRIUMF Judges' Selection of Recipient(s)
Notification:	Recommended Recipient(s) Contacted by Telephone and Letter
Announcement:	Public Announcement of Winner(s)
Reporting:	Final Report to TRIUMF
Disbursement:	Award Released

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