

## Position: Instructor, Pathway to STEAM @ Surrey Schools

### Employment terms

- Duration: January 4th 2022 - March 25th 2022 (with possibility of extension from March to August 2022)
- Shifts consist of **all** of the following:
  - Training (at Sustainable Energy Engineering Building):
    - Jan 4th: 11am - 4:30pm
    - Jan 5th: 10:30am - 4:30pm
    - Jan 6th: 10:30am - 4:30pm
    - Jan 7th: 10:30am - 4:30pm
    - Spring Break Camp Training in March (TBD)
  - Teaching (in program locations):
    - Thursdays (January 20th to March 10th) 2pm - 5pm
    - Monday to Friday (March 14th to March 25th) 8:30am - 3:30pm
- Salary: \$17/hr + 4% in lieu of benefits
- Reports to: Coordinator, Outreach Programs
- Program Locations: either Mary Jane Shannon Elementary School, Hjorth Road Elementary School or Senator Reid Elementary School
  - Please specify your preference at the time of application.
- Vacancy: 6 positions

### About the Position

Pathway to STEAM, funded by NSERC PromoScience, is a program with a problem-based learning approach to STEAM (Science, Technology, Engineering, Art & design, Mathematics) education. It aims to empower traditionally under-represented groups in science and engineering.

Instructors will plan and deliver high-quality STEAM after school programs and spring break camp to Grade 4-7 students by creating a safe and exciting learning space. Responsibilities include, but are not limited to:

- Preparing for lesson plans for after school programs and the seasonal break camps using the program curriculum provided;
- Preparing a daily schedule of activities and necessary program materials for classes each day;
- Creating an engaging and inclusive learning environment for all students and maximizing their program experience;
- Working collaboratively with co-instructors, Surrey Schools, and supervisors to deliver an effective program;
- Distributing program assessment tools and collecting data;
- Working and acting in accordance with the organization's code of conduct to accurately reflect the values of SFU;
- Ensuring all tasks are completed accurately in a timely manner by the deadline set by the supervisor.

### About the Curriculum

The program curriculum is designed to be interactive, inclusive and caters to various learning styles. The program will allow participants to explore STEAM concepts first-hand and develop an understanding of the interconnected nature amongst STEAM. The participants will use the Engineering Design Process (EDP) to create innovative solutions to everyday problems, while developing effective communication skills and directly applying their learning.

The first 8 weeks of the program will be introductory where participants will learn about earth sciences, sustainability, climate change, and will design their own cityscape by applying civil engineering concepts. The camp sessions will continue to have the participants use EDP while exploring body systems and biomedical engineering. Throughout the whole program, the curriculum provides examples of successful engineers that the participants can relate to, with the objective of dispelling stereotypes related to STEAM.

### What we are looking for

- Bachelor or current undergraduate students in science, engineering, or education.
- Minimum 1 year of experience working with a large group of children and youth in an education or recreation setting.
- Strong classroom and behaviour management skills.
- Excellent facilitation skills.
- Possess current Standard First Aid and CPR-C certification or willing to obtain one before the start date.
- Successful candidates will be required to provide a Criminal Record Check prior to the start date.
- Excellent communication skills.
- Excellent team player.

### To apply

Please submit your application [here](#) by **December 1st, 2021**. We encourage you to apply early as interviews will be conducted on a rolling basis: thus this position may be filled before the deadline. Hiring decisions will be made on December 6th.

### Background

SFU Applied Sciences Outreach (with Science ALIVE) acknowledges the unceded Traditional Coast Salish Lands including the Tsleil-Waututh (səlilwətaʔt), Kwikwetlem (kʷikwəʔləm), Squamish (Sḱwəxwú7mesh Úxwumixw) and Musqueam (xʷməθkʷəy̓əm) Nations.

SFU Applied Sciences Outreach (with Science ALIVE) strives to engage youth in hands-on STEAM (Science, Technology, Engineering, Art & Design, Mathematics) programs to build measurable skills and improve self-confidence.

Aligned with the SFU Faculty of Applied Sciences' mandate, we aim to dispel stereotypes in the field of science and engineering and work towards achieving diversity and inclusion. We work to empower those traditionally under-represented groups in STEAM by developing barrier-free programs for girls, at-risk youth, and Indigenous communities.

SFU Applied Sciences Outreach (with Science ALIVE) is guided by SFU's Equitable Employment policy: The goal of employment equity at Simon Fraser University is to ensure that no individual is denied access to employment opportunities for reasons unrelated to ability or qualifications, such as gender or race. Consistent with this principle, the University will advance the interests of underrepresented members of the workforce, specifically Aboriginal people, persons with disabilities, visible minorities, and women (the designated groups); ensure that equal opportunity is afforded to all who seek employment at the university, and treat equitably all employees.