

Alumni Teaching Assistant, Invent the Future

Duration: July 10th, 2023 to July 28th, 2023

Commitment: Monday to Friday; up to 20 hours a week

Reports to: Coordinator, Outreach Programs and Program Lead, Invent the Future

Stipend: \$220 + weekly stipend = \$1500; please refer to the 'Time Commitment' chart below for weekly stipend amounts.

Work location: This is a remote position.

Background

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.

Invent the Future is a three-week summer enrichment program for trans and cisgender women, non-binary and Two Spirit students in Grade 9-12 hosted by Simon Fraser University. During this online program, students will explore the world of AI through team projects and connecting with mentors and industry experts in a supportive yet challenging environment.

About the Role

Alumni Teaching Assistant ("Alumni TA") provides support and guidance to students as they work on the program's learning materials, including tutorials, practice problems, discussion forums, and group projects. They lead activities that support learning and community and team building within the program, including coding activities, group discussions, ice-breakers, lunch discussions, and social and wellness events. Potential project topics include computer vision, natural language processing, robotics, and computational biology.

Responsibilities include, but are not limited to:

- Provide support and guidance to students as they work on the program's learning materials, including tutorials, practice problems, and discussion forums.
- Work with Program Instructors to support students in their group projects, including answering Python and AI-related questions by students.
- Review learning materials before the summer program begins.
- Provide feedback to ensure that group projects and learning activities are appropriate for the targeted grade levels.
- Lead activities that support community and team building within the program, including ice-breakers, lunch discussions, and social and wellness events.
- Work with other alumni to ensure that students are building and maintaining positive relationships amongst the group.

- Serve as a positive role model while maintaining an inclusive and safe space for students attending the program.
- Conduct basic operations duties such as taking attendance and moderating the chat during lectures.
- Ensure completion of pre and post program surveys by Summer Program participants.
- Contribute to the improvement of the program by participating in evaluations, completing reports, taking photos (of projects), providing feedback, and sharing success stories.
- Participate in relevant training sessions and meetings.

Time commitment

Alumni TA must be available during the program dates (i.e. July 10-28, 2023) and be present for mandatory orientation and meetings.

Description	Details	Stipend
Orientation & onboarding	<ul style="list-style-type: none"> • Early June 2023 • 1.5 hour meeting 	\$220 upon completion of all 4 items and the final project presentation (July 28th)*
Review learning materials before the summer program begins.	<ul style="list-style-type: none"> • Early June-early July 2023 • ~2 hours 	
Final team meeting	<ul style="list-style-type: none"> • Mid June 2023 • 1.5 hour meeting 	
ITF 2023 Week 1	<ul style="list-style-type: none"> • July 10-14, 2023, 8:45 am-1 pm PST (~4 hours/day) • Topics covered in Week 1 include data exploration, wrangling, and visualization and clustering. • Interns will provide support and guidance to students as they work on the program's learning materials and support students in their group projects. 	\$440
ITF 2023 Week 2	<ul style="list-style-type: none"> • July 17-21, 2023, 8:45 am-1 pm PST (~4 hours/day) • Topics covered in Week 2 include classification, probability and naive bayes, and regression. • Interns will provide support and guidance to students as they work on the program's learning materials and support students in their group projects. 	\$440
ITF 2023 Week 3	<ul style="list-style-type: none"> • July 24-28, 2023, 8:45 am-1 pm PST (~4 hours/day) • Week 3 will cover evaluation metrics for AI algorithms. • Interns will provide support and guidance to students as they work on the program's learning materials and support students in their group projects. 	\$400
Final project presentation	<ul style="list-style-type: none"> • July 28, 2023, 9 am-12 pm PST • Attend the final project presentation and graduation ceremony to support your students. 	See (*) above
Total:		\$1500

What we are looking for

- Past participants of the Invent the Future program;
- Passion for artificial intelligence-related topics is required;
- Summer camp/program experience or experience working with program participants ages 14–17 is desirable;
- Creative and positive attitude, and enthusiasm for working with high school program participants;
- Demonstrated mentorship and communication skills;
- Enjoy working in a collaborative setting and engaging in continuous learning.

To apply

Please submit your application [here](#) by **March 13th, 2023 (11:59 PST)**. If you have questions, please feel free to contact Eva at sacoord@sfu.ca.

SFU Applied Sciences Outreach (with Science ALIVE) respectfully acknowledges the xʷməθkʷəy̓ əm (Musqueam), Skwx̣ wú7mesh Úxwumixw (Squamish), sə́ il̓w̓ ətaʔt (Tsleil-Waututh), q̓ íç əy̓ (Katzie), kwikwə́l̓ əm (Kwikwetlem), Qayqayt, Kwantlen, Semiahmoo and Tsawwassen peoples on whose unceded traditional territories our three campuses reside.