# Technovation GirlsBC 2021 Workshop Series

# About Technovation Girls

Technovation Girls is the world's largest global tech entrepreneurship competition for girls* aged 10-18 and Technovation GirlsBC is the chapter ambassador of the province of BC. All events and workshops under the Technovation GirlsBC program are offered collaboratively by UBC Geering Up, SFU Applied Sciences Outreach, and BCIT Computing.

In this global competition, participants will either work in a team (up to 2-5 participants) or individually to identify a problem in their community, learn how to code, and build a mobile app. All participants will also record and submit their business pitch at the end of the competition. Participants from the senior division (15-18 years old) will submit a business plan in addition to a business pitch. There will be multiple levels of judging and prizes to be won!

*Please note: our use of the word girl/female is inclusive of all those who identify as female in a way that's meaningful to them.*

# Overview of workshop series

The following virtual workshops (see table under Schedule) will be offered to our students as a series, meaning that when you sign up, you are expected to attend all the workshops. **Please note that all workshops will be delivered virtually via Zoom.**

## Learning objectives

Through participating in this workshop series, you will gain a comprehensive experience in
1) Formulating an idea for your app,
2) Collecting and analyzing data to support the purpose of your app,
3) Planning your app design, and, last but not least,
4) Building a functional app using Thunkable.

Upon completion of our workshop series, students will have gone through the ideation and app development stages and have a functional app that they can use as a reference to build their own projects for Technovation Girls 2021 competition.

## Schedule

| Session | Workshop | Content |
|---|---|---|
| Jan 30, 2021 (Sat) 10am-12pm* | Ideation | After attending the Ideation workshop, students will be able to:<br>● Create a survey to gather information<br>● Analyze the data they collected<br>● Conduct a competitor analysis<br>● Plan their app design |
| Feb 6, 2021 (Sat) 10am-12pm* | Thunkable 1.0 | Based on the community problem identified and app design plan formulated in the Ideation workshop, students will build a functional app under the guidance of our instructors.<br><br>Our Thunkable workshops will cover the following:<br>● Introduction to the Thunkable interface<br>● Variables<br>● Functions<br>● Conditions<br>● Loops<br>● Navigation<br>● Database (read/write)<br>● Any other components requested by students in the workshop sign-up form. Please note that due to time constraints, we may not be able to cover everything requested by students. |
| Feb 13, 2021 (Sat) 10am-12pm* | Thunkable 2.0 | |
| Feb 20, 2021 (Sat) 10am-12pm* | Thunkable 3.0 | |

*The meeting links will be opened at 9:30 am for attendees who wish to test their setup.

## Workshop requirements

- Internet access
- Laptop
- Web browser: Use this link to check your browser version
  https://www.whatismybrowser.com/
- Thunkable account: You can sign up here https://thunkable.com/#/
- System requirements:
  - https://appinventor.mit.edu/explore/content/system-requirements.html
  - The system requirements for Thunkable are not listed on its website. Since Thunkable is developed by the same research group that developed App Inventor, let's refer to the system requirements of App Inventor.

## Sign-up link

Please use the following link to sign up for our workshop series by Jan 22 (Friday) at noon. Further details (e.g. Zoom links) will be sent to students by Jan 27 (Wednesday) at 5:00 pm.

Link: http://websurvey.sfu.ca/survey/391531387

## Virtual Community Guidelines

Welcome to Technovation GirlsBC virtual events and workshops! Technovation Girls is the world's largest global tech entrepreneurship competition for girls* age 10-18 and Technovation GirlsBC is the chapter ambassador of the province of BC. All events and workshops under the Technovation GirlsBC program are offered collaboratively by UBC Geering Up and SFU Applied Sciences Outreach. We are so excited that you have decided to join us. Our mission is to inspire, encourage, and support youths of all backgrounds to explore the many topics related to science, engineering, and technology through interactive and engaging activities. Before you join us, there are some guidelines we need everyone to follow to maintain the safety of everyone involved. See below for our Virtual Community Guidelines.

*Please note: our use of the word girl/female is inclusive of all those who identify as female in a way that's meaningful to them.*

**Personal Safety:** We take safety seriously. If harm is disclosed or discussed (harm to self, or harming others) then we will take the appropriate steps to ensure your continued safety and the safety of those around you. Threats about others personal safety will not be tolerated.

**Respect:** Treat those online as you would treat them in-person that is with respect, dignity, and care.

**No Hate Speech or Bullying:** Bullying, discrimination, and harassment of any kind will not be tolerated.

**Communication:** Communication is encouraged in this workshop. Communicate with respect and listen to others when they speak or share ideas, which includes when sharing ideas out loud or via the chat function. Mute your microphone when not speaking and only turn your video on if you feel comfortable to do so.

**Privacy:** Respect the privacy and personal information of those in the shared virtual space by not sharing information that is not your own. Respect your own privacy by not sharing any personal information with those you do not know. Sharing of the Zoom link with those outside of the specific intended group is strictly prohibited.

**Copyright:** There will be no recording of anything that happens in this space, which includes participants and instructors taking pictures, recording parts of the workshop or recording their screen during any part of the workshop.

By joining Technovation GirlsBC events and workshops, you are considered to be in agreement with the above community guidelines. We will take the appropriate actions if any of the above guidelines are violated. Depending on the situation, this may result in revoking participation in the remaining events/workshops. Thank you in advance for your commitment for keeping our virtual events and workshops engaging, safe and of course, fun!

![Technovation Girls British Columbia logo]

## Meet your instructor

**Chris Kerslake** is a parent, programmer, and educator specializing in teaching computer science and programming to elementary and high school students. Starting almost 40 years ago when his school purchased their first computer, Chris has been playing, learning, and teaching others with and about computers. For the past five years he has been delivering programs through his after school and in-class programs in and around Vancouver where students have fun working together to solve interesting hands-on problems. In addition to teaching, Chris is currently working on his master's degree at Simon Fraser University where he is looking into ways of introducing and supporting computer science education in K-12 schools.

## Contact

If you have questions, please do not hesitate to directly contact Eva (Outreach Programs Coordinator, SFU Faculty of Applied Sciences) at sacoord@sfu.ca or info@technovationbc.ca.