

JABC TechWorks

PROGRAM REPORT

2022-23



JABC **TechWorks**



JA
British
Columbia

Member of
JA Canada



OVERVIEW

JA British Columbia was pleased to offer JABC TechWorks both virtually and, after a two-year pause, in person this school year.

This unique work-readiness program provided a platform for students all across British Columbia to interact with experts from various fields, including special effects, artificial intelligence, cybersecurity and more. Through a series of interactive presentations and discussions centred around the "Technology for Good" theme, students were able to gain a deeper understanding of the different careers available and the skills required for success in these fields. [See our highlight video.](#)



Virtual program was delivered
December 6-8, 2022 and March 7-9, 2023.



In-person program was hosted
February 22, 2023 in Surrey, B.C.

ABOUT JABC TECHWORKS

JABC TECHWORKS INTRODUCES B.C. YOUTH TO THE JOBS OF THE FUTURE.

In today's digital age, technology-related careers are in high demand, and there is a growing need for individuals with technical expertise. To prepare high school students for these opportunities, JABC TechWorks was launched in 2017 to encourage youth to consider their education choices as they approach their senior years and inspire them to consider a career in B.C.'s technology sector and beyond.



With over 10,000 companies facilitating 120,000 jobs, B.C.'s technology sector continues to be one of the top five contributors to the provincial economy. An additional 83,000 jobs are expected to be added by 2027, many of which are roles that don't even exist yet.

Learn more at techworks.jabc.ca



JABC TECHWORKS 2022-23 AT A GLANCE

THEME: TECHNOLOGY FOR GOOD



4,700+
Students



197
Classes



110
Schools



76
Presenters



39
Partnering
Companies



38
Breakout
Sessions

“Overall, it [Surrey TechWorks] was well organized, good lunch, great workshops. I would take students again.”
-Teacher

JABC TECHWORKS 2022-23 REACHED...

30

School
Districts

500

Alberta
Students

4

First Nations
Schools

#05 Southeast Kootenay
#06 Rocky Mountain
#08 Kootenay Lake
#22 Vernon
#23 Central Okanagan
#28 Quesnel
#33 Chilliwack
#34 Abbotsford
#35 Langley
#36 Surrey
#38 Richmond
#39 Vancouver
#41 Burnaby
#44 North Vancouver
#45 West Vancouver

#46 Sunshine Coast
#53 Okanagan Similkameen
#57 Prince George
#60 Peace River North
#61 Greater Victoria
#62 Sooke
#63 Saanich
#64 Gulf Islands
#68 Nanaimo-Ladysmith
#70 Pacific Rim
#71 Comox Valley
#72 Campbell River
#73 Kamloops-Thompson
#79 Cowichan Valley
#82 Coast Mountains

FN: Kyah Wiget Education Society School
FN: Nus Wadeezulh Community School
FN: Sk'elep School of Excellence
FN: Wsanec Leadership Secondary School

**The program welcomed an additional
500 students from Alberta in partnership
with our Alberta JA Charters.**



STUDENT OUTCOMES

As part of JABC's ongoing efforts to deliver relevant and meaningful learning experiences for youth, we surveyed students after they attended this year's program to learn more about their attitude and awareness of technology-related careers. The survey results demonstrate that JABC TechWorks provides valuable, eye-opening lessons for students who will soon need to make decisions about their future careers.

66%

of students reported an increased awareness of the diverse range of career opportunities available in the technology sector.

69%

of students say they acquired a deeper understanding of the essential skills and training necessary to pursue their desired technology careers.

64%

of students expressed newfound optimism regarding the vast array of career opportunities available to them in technology.

64%

of students found inspiration to explore a potential career path in the tech industry.



The highlight for me was watching people speak about what they are passionate about.



-Student





JABC TECHWORKS VIRTUAL

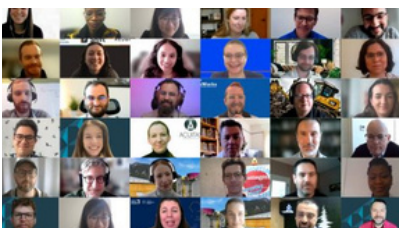
December 6-8, 2022

- 1,729 students
- 36 volunteer speakers and facilitators

March 7-9, 2023

- 2,608 students
- 36 volunteer speakers and facilitators

On-demand career video library featuring experts from a variety of leading B.C. tech and tech-enabled companies



Special guest speakers and opportunities for live Q&A with industry leaders and mentors from a variety of tech areas



Online scavenger hunt, interactive polling and live activities within an exciting new virtual platform



WELCOME AND KEYNOTE SPEAKERS



Keynote Speaker

DR. RAY MUZYKA
Co-founded, BioWare; Impact Investor, ThresholdImpact



Keynote Speaker

DARIAN KOVACS
Founding Partner, Jelly Marketing and PR



Territory Welcome

LEN PIERRE
Owner, Managing Consultant, Len Pierre Consulting



Feature Presentation Host

ANDREW MACLEAN
Developer Relations Manager, DevCycle





JABC TECHWORKS VIRTUAL BREAKOUT SESSIONS

SOFTWARE DEVELOPMENT & ENGINEERING

Participants interested in software development & engineering learned from the field professionals about designing, developing, installing, testing, and maintaining software systems.

AI & DATA SCIENCE

Artificial Intelligence (AI) and Data Science are rapidly evolving fields that have become crucial to many industries. In this session, our guest speakers shared with students the exciting and diverse career opportunities available in this field.

GREEN TECHNOLOGY

During this session, students had the opportunity to hear from a panel of seasoned professionals who have worked on various green technology projects. They discussed the different career paths available in this field, the skills and knowledge required to excel, and their day-to-day career activities.

LIVE ACTIVITY BY HIGH TECH U

During this live activity, students used simple codes to solve problems and control a virtual robot.

CYBER SECURITY

Students explored the different career paths available in cybersecurity, such as security analyst, cybersecurity engineer, security consultant, penetration tester, and more.

BIOTECH & MEDTECH

In this session, students explored the exciting and diverse career opportunities available in biotech and medtech, and the skills and knowledge required for success in these fields.

ANIMATION & VFX

In this breakout session, students learned how animators create animation and visual effects for everything from films and video games to television, mobile devices and other forms of media using illustrations and software programs.

LIVE ACTIVITY BY CYBERSTART CANADA

Students participated in an interactive workshop, an immersive and gamified cybersecurity learning experience based on real-world cyber crimes.



JABC TECHWORKS VIRTUAL BREAKOUT SESSION FACILITATORS

ABCELLERA
Andrew Booth

ACCENTURE
Iliana Oris Valiente

ACUITAS THERAPEUTICS
Melissa Dennis

ALACRITY CANADA
Burak Evren

AMAZON WEB SERVICES
Sarah Wark

BLACKBIRD INTERACTIVE
Aditi Bhandari

BOREALIS AI
Hossein Sharifi, Lilian Wong

CANADIAN TIRE
Stefanie Menezes

CARBON ENGINEERING
Anna Stukas, Cameron Lust

CYBERSTART CANADA
Diana Barbosa, Eva Dring, Kathryn McCabe,
Nelida Carryer, Taiwo Ogunbanjo, Udoka Chiefes

FINNING
Chris Storer

FORTIS BC
Siraz Dalmi

GEOCOMPLY
Eleanor Hawkins, Hannah Ryan

GRANT THORNTON
Anita Ali, Bryan Beard, Christopher Agidi,
Joseph Erdosy

HEALTHTECH CONNEX
Shawna Lee

HIGH TECH U
Abdulrahman Abuelarm, Kiara Hosie

IMPACT ARTS SOCIETY
Miah Shull Olmsted

KIDS' SHIELD
Maryam R. Aliabadi

KPMG
Ozge Uncu

MICROSOFT
Julia Sprague

OKANAGAN COLLEGE
James Wood

OPPY
Garland Perkins

PLATOTECH
Nicholas Grant

RACEROCKS 3D
Christina Jones, Jaro Malanowski, Mark
Tandberg

REDBRICK
Conrad Foucher, Nicole Peverley, Reed McIlwain

RELIC
Anand Somasundaram

SAP
Roelle Kim

STARFISH MEDICAL
Aaron Philippsen, Martin Kellinghusen,
Nathan Müller

TELUS
Abdul Moiz, Garrett Stewart

**VANCOUVER ISLAND LIFE SCIENCES
ASSOCIATION**
Sam Mercer

WORKDAY
Mike Sanders

YETI FARM CREATIVE
Ashley Ramsay, Todd Ramsay

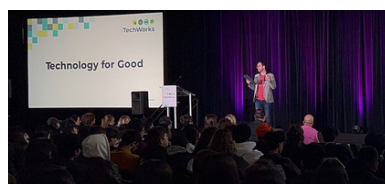


JABC TECHWORKS IN-PERSON

February 22, 2023

- Held at Kwanten Polytechnic University (KPU) in Surrey, B.C.
- 401 students
- 22 volunteer speakers and facilitators

Breakout sessions, hosted by local technology companies, with hands-on demos and activities



High-energy opening plenary session featuring special guest speakers, demos, polling and live music



Pre-program video library access



MORNING PLENARY SPEAKERS



Emcee

ANDREW MACLEAN
Developer Relations Manager,
DevCycle



Keynote Speaker

KRISTINE STEUART
Executive in Residence,
Inovia Capital



Speaker

ABI COMAN-WALKER
Chief Operating Officer,
Acuitas Therapeutics



Speaker

RANDALL HEIDT
Vice President,
External Affairs, KPU



Territory Welcome

ELDER LEKEYTEN
Kwantlen First Nation, KPU



Speaker

BRIAN ANDERSON
Director of Performance and
Fun Times, Science World





JABC TECHWORKS IN-PERSON BREAKOUT SESSIONS & FACILITATORS

Virtual Reality Showcase

PRESENTED BY ACCENTURE

Led by Alan Hadle Hamilton, Nicky Grassick and Yen Ching Tan

Using Animation to Enhance the Employee Learning Experience

PRESENTED BY FINNING

Led by Jeffrey Thi, Kaisha Farkou and Shafeeq Weera

Creating an Image for Digital Content

PRESENTED BY KPU

Led by Ali Bordbar

What is a Level in a Game?

PRESENTED BY KPU

Led by Peter Doudkine

The Power of Gamification in Driving Sustainability Impact

PRESENTED BY SAP

Led by Geoffrey Fu and Lida Espinosa

The AI Revolution: Predicting the Future and What it Means for You

PRESENTED BY TELUS

Led by Abdul Moiz and Dylan Moss

Fun with Robotics

PRESENTED BY BEST BUY

Led by Benjamin Rawles, Bhupinder Chhabra, Jen Knight, Laura Mitchell, Mridul Sahni and Ryan Luk

The Manipulation of the Media. Understand Digital Marketing as a Job

PRESENTED BY JELLY MARKETING

Led by Darian Kovacs

Storytelling for Games

PRESENTED BY KPU

Led by Jeffrey Campbell

Visual Vocabulary

PRESENTED BY KPU

Led by Ed Ko



PROGRAM SUPPORTERS

THANK YOU TO OUR 2022-23 PROGRAM SUPPORTERS AND
TECHWORKS ADVISORY COMMITTEE!

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TECHWORKS ADVISORY COMMITTEE

Andrew Marchant | Keith Spencer | Norm Francis | Janet Wood | Greg Malpass

ABOUT JABC



JA British Columbia (JABC) is a not-for-profit impact organization that delivers hands-on, immersive education in work readiness, financial health, and entrepreneurship. Through JA, young people are equipped with the skillset and mindset to build thriving communities. Learn more at jabc.ca



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