



ALBERTA INNOVATES

CLEAN RESOURCES

ENVIRONMENTAL INNOVATION

WATER INNOVATION

FUNDING DETAILS

Water Innovations in Alberta K-12 Schools

A comprehensive water education program aimed at supporting teachers in water-related curriculum outcomes and engaging students ranging (mainly) from grades 4-12 in hands-on, interactive water education programming. The project takes place in urban, rural and Indigenous community schools across the province. Programs include: in-school and field based water and wetlands programming, three provincial youth leadership summits, teacher professional development programs and the development of two digital-twin interactive educational video games.



RECIPIENT:

**Inside Education
Society of Alberta**



PARTNERS:

Canadian Agriculture Partnership, Alberta Environment and Protected Areas, NSERC, Cenovus Energy, Syncrude, Suncor Energy Foundation, ConocoPhillips, Nutrien, Enbridge/Alliance Pipeline, Alberta Conservation Association, Nature Conservancy of Canada, Ducks Unlimited Canada, University of Lethbridge, University of Alberta, and more – full list available upon request



TOTAL BUDGET:

\$549,000



PROJECT DATES:

**SEPT 2022 –
JUN 2024**



AI FUNDING:

\$120,000

APPLICATION

Education programs delivered are serving to enhance grade school-level education and transfer knowledge regarding the latest innovations including AI-supported research/technology projects in Alberta.



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PROJECT GOALS

- To provide engaging, interactive and curriculum-enhancing water, energy and environmental programs for Alberta teachers and students.
- Transferring knowledge gained by, and successes gained from Alberta Innovates-supported water, energy, agriculture and climate-related research to a crucial audience of youth and science teachers.
- Providing numerous forums through which students will learn with and from Alberta's leading scientists - including (as possible) participating in citizen science.
- Supporting teachers as a post-pandemic shim (return) away from continual 'screen time' to in-person, hands-on, meaningful learning in their science classrooms.

BENEFITS TO ALBERTA

This program has enabled students from urban, rural and Indigenous communities to engage with Alberta's water, agriculture, energy and climate research and the practical application of that research. Additionally, it has supported teachers in their move away from pandemic-required 'screen time', with a focus on in-person, hands-on and interactive learning experiences. Ultimately the programs supported by this project are helping inspire and enable the next generation of Alberta environmental and natural resource leaders, scientists, stewards and responsible citizens.



**2 New
Products/Services**



1-2 Project Jobs

CURRENT STATUS

JUL 2023

Milestone 1 was completed successfully. Three provincial youth summits completed (Cultivate Youth Agriculture Leadership Summit; Navigate Youth Water Leadership Summit; Generate Youth Energy and Climate Leadership Summit); 11 regional one-day energy, water and agriculture Innovations field trips; 125 water/wetlands field trips; 50 days of classroom presentations.