

ENTER YOUR COMMUNITY TEAM NOW!

# INDIGENOUS YOUTH POTABLE WATER INNOVATION CHALLENGE 2022



Engage youth (K-12) to hone their innovative spirit in water-health, working with community leaders, university researchers and water industry professionals to solve real-world potable water challenges! Teams will be challenged to produce prototypes, proofs-of-concept, tool kits, startups and more to support Indigenous communities' public works water operations.

## CHALLENGE THEMES

### 1. Surface Water & Groundwater Treatment

- Centralized
- Decentralized (point-of-entry, point-of-use)

### 2. Drinking-Water Treatment Techniques and Methods

- Contaminant detection methods
- Contaminant measurements Methods
- Contaminant removal methods

### 3. Water Treatment Plant Automation

- Safety processes
- Operations
- Sampling and monitoring

### 4. Digital Connectivity

- Data communications
- Remote monitoring/troubleshooting
- Data management tools
- Safety and warning tools

### 5. Distribution Modelling

- Centralized
- Decentralized

### 6. Operation & Maintenance (O&M) & Training Tools

- Automation/software
- Remote/distance learning
- Troubleshooting
- Immersive learning

### 7. Water Systems Management & Training

- Technical, managerial, asset management, and financial training tools

Partners: RESEAU Center for Mobilizing Innovation, Assembly of First Nations, Indigenous Services Canada, University of British Columbia, Queen's University, University of Guelph, University of Calgary, Yukon University, KWL, WSP, BI Pure Water, Associated Engineering, Trojan Technologies, Walkerton Clean Water Centre, OFNTSC, and First Nations Communities

# HOW DOES IT WORK?



✓ **UP TO 8 TEAMS CAN PARTICIPATE IN THE CHALLENGE**

✓ **COMMUNITIES WILL RECEIVE FUNDING SUPPORT FOR THEIR YOUTH TEAM**

✓ **PROGRAM & JUDGING CRITERIA DEVELOPED BY INDIGENOUS ADVISORY COUNCIL**

✓ **TEAM RECRUITMENT STARTS IN JANUARY 2022**

✓ **FINANCIAL SUPPORT WILL BE PROVIDED TO PARTICIPATING COMMUNITIES (INCLUDING 15K PER TEAM, AND 5K ADMIN HONORARIA )**

## Indigenous Advisory Council

- **Aaron Genereux**, Anishinaabe, Wiikwemkoong Unceded Territory, Director of Indigenous Projects, Colliers Project Leaders
- **Kimberley Brown**, Lax Kw'alaams Band, Water Treatment EIT, KWL
- **Nico Paul**, Maliseet, St. Mary's First Nation Director, Indigenous Strategy, SSHRC
- **Lutz Marsden**, Anishinaabe, Mississaugas of Scugog Island First Nation

**LEARN MORE AND SIGN UP TODAY!**  
**CONNECT@RESEAU.CMI.ORG**