

## IDENTIFICATION

Department	Position Title	
Aurora College	Science, Technology, Engineering and Mathematics (STEM) Outreach Technician	
Position Number	Community	Division/Region
91-16598	Inuvik	Research Division

## PURPOSE OF THE POSITION

The incumbent will support the design, development, and delivery of tailored Science, Technology, Engineering and Mathematics (STEM) programs to both youth and adults residing in remote communities in the Northwest Territories (NWT).

## SCOPE

The position is located in Inuvik and reports to Manager, GIS Programs, in the Western Arctic Research Centre (WARC). The incumbent is expected to play an integral role in the coordination and delivery of STEM outreach activities across the NWT and support the work of both the Outreach and GIS teams. The incumbent will acquire, manage, and maintain the tools and supplies necessary to support the delivery of ARI STEM activities. The incumbent will also support the development and delivery of STEM on-the-land programs that addresses the effects of climate driven changes on Western Arctic communities, as well as support GIS capacity building initiatives for these communities.

## RESPONSIBILITIES

### 1. Deliver STEM Outreach Activities and Manage Outreach Supplies

- With the assistance of the Outreach and GIS programs, deliver STEM outreach programs and activities to youth (preschool through college), educators, families, and community members;
- Deliver and support the delivery of online STEM outreach events and on-the-land programs;
- Support speaker series events whether virtual or in-person;
- Manage the acquisition, organizing, re-stocking, repairs, and loan of STEM outreach activity kits and supplies to schools and community organizations;
- Work closely with the STEM Outreach and GIS programs teams to design, build, and distribute hands-on STEM kits for educators and community groups;

- Support ARI's participation in STEM outreach events;
- Work closely with ARI's and the College's communication teams to coordinate and promote STEM outreach events.

## **2. Support the Development of STEM Outreach Programs**

- Support the development of STEM outreach activities for youths that are relevant to the western Arctic and tied to the NWT curriculum where applicable;
- Participate in the development of hands-on and informative STEM outreach programs for adults that demonstrate the application of STEM in their day-to-day activities;
- Collaborate with local knowledge holders, researchers and program funders on the development of on-the-land programs that integrate tradition knowledge and STEM in addressing community related problems;
- In consultation with the GIS Team and researchers coordinate the delivery of online STEM outreach events.

## **3. Support the Geographic Information System (GIS) Programs**

- Support and participate in special projects as directed by the Manager, GIS Programs.
- Assist in the production of Story Maps on different topics to illustrate the use of STEM in climate change monitoring.
- Participate in Geomatics and Remotely Piloted Aircraft Systems (RPAS) training as required;

### **WORKING CONDITIONS**

#### **Physical Demands**

Occasional travel by winter road and/or small aircraft will be required for outreach in remote communities.

#### **Environmental Conditions**

Outreach activities occasionally take place outdoors in a variety of conditions.

#### **Sensory Demands**

Where and when pandemic restrictions allow for in-person outreach events, duties will include interaction with the public including children. Hands-on science visits and community events can be noisy and draining.

#### **Mental Demands**

No unusual demands.

### **KNOWLEDGE, SKILLS AND ABILITIES**

- Working knowledge of the application of Science, Technology, Engineering and Mathematics (STEM) to problem solving;
- Knowledge and experience on the delivery of STEM programs;
- Experience working with youth;
- Knowledge of the principles of Geographic Information Systems (GIS)

- Understanding of data collection methodologies and standards;
- Knowledge of the application of RPAS to data collection;
- An understanding of working in a cross-cultural environment;
- Strong interpersonal and relationship building skills;
- Excellent oral and written English communications skills;
- Ability to use Microsoft Office, e-mail, Internet, and basic office equipment; and
- Knowledge of Northern Canada.

**Typically, the above qualifications would be attained by:**

- Two years work experience in a STEM related field, with at least one year of STEM related outreach/instructional experience
- Completion of a University Degree or Diploma with a major in a STEM related field
- Class 5 Drivers Licence required

**ADDITIONAL REQUIREMENTS**

**Position Security** (check one)

No criminal records check required  
 Position of Trust – criminal records check required  
 Highly sensitive position – requires verification of identity and a criminal records check  
(including vulnerable sector check since the incumbent will be working with children)

**French language** (check one if applicable)

French required (must identify required level below)  
 Level required for this Designated Position is:  
 ORAL EXPRESSION AND COMPREHENSION  
 Basic (B)  Intermediate (I)  Advanced (A)   
 READING COMPREHENSION:  
 Basic (B)  Intermediate (I)  Advanced (A)   
 WRITING SKILLS:  
 Basic (B)  Intermediate (I)  Advanced (A)   
 French preferred

**Indigenous language:** Select language

Required  
 Preferred