



Are you looking for an opportunity to join a team where your contribution makes a positive impact on the lives and learning of future leaders in Science, Technology, Engineering and Math? STEM Innovation Academy is looking for exceptional professionals to join our team.

## About Us

STEM Innovation Academy is a public charter school in Calgary that opened in September 2021. Our junior high school currently serves over 450 students in grades 7-9. In September 2022, our high school campus opened a NW location located in the University Innovation Quarter with 115 Grade 10's. In 2023-24, we will be growing our program to 400 Grade 10's and 11's with a long-term goal of a full high school with over 900 students. With a mission to inspire the next generation to be knowledgeable creators, innovators, and responsible leaders, we believe every student can be successful in STEM and should have the opportunity to learn about cutting-edge science and technology topics.

## Position Information

### High School STEM Options (CTS) Teacher

## Education and Experience

- Valid Alberta Teaching Certificate
- Bachelor of Education Degree or equivalent recognized by Alberta Education

## Demonstrated Skills and Competencies

- Collaboratively work with CTS team members and learning leader to support Grade 10 and 11 student learning in our STEM electives program.
- Ability to learn and develop as a professional – willingness to learn
- High level of organization and efficient project management; flexibility and adaptability in managing multiple class projects
- Student centered approach and a willingness to personalize learning to the needs of the student. Provide formative and summative assessment to students on identified learning outcomes throughout the term.
- Foster positive relationships with students to create an atmosphere of trust and encouragement in the classroom
- Commit to ongoing curriculum enhancements and development

- High school STEM Electives fall into 3 strands: Design and Engineering, Computational Thinking and New Media. **A subject knowledge in two would be required. One strand to be taught at a senior level (Grade 11/12) and the other at a junior level (Grade 10):**
  - Design and Engineering
    - The design process/cycle and its application to student learning
    - Basic fabrication skills
    - Rapid prototyping 3d printing, CNC and laser cutting with (or willingness to learn)
    - Software: Tinker CAD and Fusion 360
  - Computational Thinking
    - Computer science topics may include digital information, the internet, app design, variables, conditionals, functions, lists, loops, traversals, algorithms, parameters, return, libraries, data, cybersecurity and global awareness.
    - Computational thinking concepts: abstraction, decomposition, pattern recognition, testing and debugging.
    - Physical computing with Adafuit circuit playground, Arduino and Raspberry Pi. (or willingness to learn)
    - Programming – block based and script (preferably python)
    - Robotics – design, build and program
  - New Media
    - Digital 2D and 3D Graphics
    - Digital Image Manipulation
    - Digital Video Composition and Editing
    - Digital 2D and 3D Animation – modelling and sculpting
    - Creating for Virtual Reality and Augmented Reality
    - Game Design
    - App Design
    - Web Design
    - Digital Music and Sound Design
    - Media Marketing and Design
    - Software: Full Adobe suite

***Please visit our website for more information about each STEM options course***

### Application Package Requirements

- Cover Letter
- Resume/Curriculum Vitae
- Names and contact information of three references, two of which must be current or very recent supervisors

### To Apply:

1. Create online portfolio with Apply to Education [HERE](#)
2. Submit application for desired job in online portal
3. Posting closes at 4:00pm on March 20, 2023

***While we appreciate all applications received, only people selected for an interview will be contacted.***