

		<b>Job Category:</b>	Part-time Staff
		<b>Job Title:</b>	<i>Engineering / Science Activity Developer</i>
<b>Location:</b>	Halifax	<b>Travel Required:</b>	No
<b>Salary:</b>	\$17/hr, plus vacation pay	<b>Position Type:</b>	17.5 hrs/wk Part Time
<b>Job Duration:</b>	Sep. 20, 2021 - January 28, 2022	<b>On campus?</b>	Yes (and possibly work remotely from home)
<b>Will Train Applicant(s):</b>	Yes	<b>Posting Expires:</b>	Open until filled
<b>External Posting URL:</b>	n/a		
<b>Submit Application Via:</b>			
ILA's online <i>Employment Application Form</i> - <a href="https://www.dal.ca/faculty/science/imhotep/Employment_Volunteer.html">https://www.dal.ca/faculty/science/imhotep/Employment_Volunteer.html</a>			
<b>Job Description</b>			
<b>POSITION PROFILE</b>			
<p>Imhotep's Legacy Academy is a university-community initiative that seeks to improve the academic performance of African-Canadians in science, technology, engineering, mathematics (STEM) subjects and the representation of African Canadians in STEM professions by providing opportunities for young learners to engage in activities that strengthen their science and math aptitude.</p>			
<b>Essential Position Functions</b>			
<p><i>Grades 6 to 9 teaching modules, Science Magic Show, and 3D-printing activities (16wks)</i></p> <p>In order to maintain the quality, consistency, and reach of ILA's science activities at physical school sites (Graham Creighton Junior High School, Dartmouth; Ellenvale Junior High School, Dartmouth; Oxford Junior High School, Halifax; Kings County Academy, Kentville; Northeast Kings Education Centre, Canning; Truro Junior High School, Truro; Saint Andrew Junior School, Antigonish; Memorial Junior High, Sydney) and online (during COVID restrictions) a student will be hired to review existing science activity plans and update for accuracy, relevancy and completeness (including spearheading their translation from English to French); and develop new instruction modules and experiment demonstrations (including Math and 3D printing activities) for Grades 6 to 9. This will involve consultation with ILA's Assisting Professors, researching the provincial Gr. 6 to 9 school curricula in science and mathematics, selecting and testing appropriate science experiments and math exercises for this age group, and creating "experiment bins" with materials and devices required to conduct selected Gr. 6 to 9 science experiments.</p>			
<p>Principal Accountabilities (may include)</p> <ul style="list-style-type: none"> <li>▪ Read and research Gr. 6-9 provincial Mathematics and Science curricula.</li> <li>▪ Review of existing activity plans and coordinate their translation from English to French</li> <li>▪ Research and develop Engineering or science experiments, math and custom 3D-printing activities appropriate for Gr. 6-9 level.</li> <li>▪ Prepare 'materials' bins for selected Gr. 6-9 Engineering/science and mathematics experiments and activities.</li> <li>▪ Research the contributions of scientists/inventors of African heritage.</li> </ul>			
<b>Supervision and Mentoring Plans</b>			
<ul style="list-style-type: none"> <li>▪ Student will be provided with a list of duties to be completed by the end of the work term. The Program Manager will meet with the student on a weekly basis to gauge progress and to clarify/resolve issues.</li> </ul>			
<b>Core Competencies</b>			
<ul style="list-style-type: none"> <li>▪ STEM research background</li> <li>▪ STEM activity development experience</li> <li>▪ Strong instructional writing and oral communication</li> <li>▪ Teamwork</li> </ul>			
<b>Learning Outcomes</b>			
<ul style="list-style-type: none"> <li>• Student will coordinate the use of technical and human resources to translate science activity plans</li> <li>• Student will learn to apply his/her STEM education to the development of teaching modules.</li> </ul>			

**Qualifications:**

- Must be a youth 15-30 years of age; Canadian citizen, permanent resident, or refugee status.
- Excellent oral and written communication skills.
- Aptitude in at least one STEM subject/field of study: Biology, Chemistry, Engineering, Mathematics, Physics, Health Sciences, Medical Sciences, etc.
- Strong research skills.
- Ability to relay complicated STEM information in simple terms suited to the Gr. 6-9 level.
- Self-motivated, independent, able to set objectives and meet deadlines.
- Read, write in French is an asset
- Experience conducting experiments and/or assembling technological devices an asset
- Knowledge of 'African' STEM inventors/innovators will be considered an asset.
- Experience with quality control processes will be considered an asset.

**Preference will be given to applicants with demonstrated experience and interest in issues affecting the education of learners of African heritage.**

**Condition(s)**

Offer of employment is contingent upon the successful candidate passing appropriate background checks. Candidates must provide a recent *Criminal Record Check* and *Child Abuse Register Check*.

**Terms of employment**

The selected worker must be able to accommodate flexible working hours as there may be work requirements outside regular business hours. The work schedule will be adjusted accordingly to accommodate this requirement as no overtime is available for this position. This position is being funded through **Canada Summer Jobs program**.

*We thank all applicants for their interest, however, only those selected for an interview will be contacted.*

<b>Job Code/ Req#:</b>	ESADEV2021	<b>Updated:</b>	2021-08-30
------------------------	------------	-----------------	------------