Job Posting:171692 - Position: F25 Software Engineer, Co-op Position 171692

Co-op Work Term Posted:	2025 - Fall
App Deadline	08/06/2025 09:00 AM
Application Method:	Through UBC Science Co-op
Posting Goes Live:	07/30/2025 05:15 PM
Job Posting Status:	Approved

ORGANIZATION INFORMATION

Organization	Terraforma Systems Inc.
Address Line 1	449 Industrial Avenue
City	Vancouver
Postal Code / Zip Code	V6A 2P8
Province / State	British Columbia
Country	Canada

JOB POSTING INFORMATION

Placement Term	2025 - Fall
\<b> Job Title \<b>	F25 Software Engineer, Co-op Position 171692
Position Type	Co-op Position
Job Location	Vancouver, BC
Country	Canada
Duration	4 or 8 months
Salary Currency	CAD
Salary	22.0 per hour for 0 Major List
Salary Range $	$22-$24
Job Description	

Overview:
Terraforma Systems is a cutting-edge company dedicated to revolutionizing waste management technology. Our T-REX composting machines leverage machine learning to optimize the composting process, ensuring efficiency and sustainability. The TRex IQ portal is a data capture and machine performance software. We have an AI waste vision module for the TFS IQ that is currently being incorporated. Our fourth product is a smart lifter technology. Future projects include similar smart technology for our electric vehicles. This co-op program will endeavour to incorporate existing technologies and enhance the productivity of the systems and software for the AI and new smart truck technologies.
We are looking for a passionate and driven Software Engineer Co-op to join our team and contribute to our mission of environmental sustainability.

Who You'll Work With:
As a Software Engineer Co-op at Terraforma Systems, you will work closely with our small but dedicated team of engineers (embedded systems engineers and mechanical engineers), business specialists and senior developers. This is a very hands-on role where you will gain valuable experience in both software/web development and machine learning. This person should be self-motivated, proactive and have a desire to learn more.

What You'll Work On:
• **Web Development:** Assist in the development and maintenance of our internal web tools that support the T-REX machines. Gain experience with front-end and back-end technologies.
•**Software Enhancement:** Gain an in-depth understanding of our software development products and collaborate with team

members to improve our solutions.

•**Machine Learning Development:** Enhance the accuracy of material classification within the T-REX composting process by labeling data, fine-tuning model hyperparameters, and extending the model's capabilities to detect contaminants.

•**Integration and Testing:** Deploy trained models in real-world T-REX machine environments. Conduct experiments to validate the model's performance and adjust machine parameters based on material observations.

•**Documentation:** Maintain comprehensive documentation for all processes, including the labeling algorithm, model training pipeline, and software development enhancements.

Job Requirements

What You'll Need:

• Pursuing a degree in Computer Science or a related field; ideally, we are looking for someone with at least 2 years of study completed.

•Experience with Python and machine learning frameworks (e.g., Jupyter Notebook, TensorFlow, PyTorch, PLC Logic).

•Familiarity with web development technologies (e.g., JavaScript, PHP, HTML, CSS)..

•Strong problem-solving skills and the ability to work independently and collaboratively.

•Excellent written and verbal communication skills.

•A keen interest in sustainability and environmental technology.

Who You Are:

• **Tenacious:** You are determined to succeed and are motivated by the success of customers, colleagues, and the community.

•**Curious:** You are always learning and seeking ways to make things better.

•**Conscientious:** You take your commitments seriously and have strong integrity.

•**Humble:** You lead with humility and empathy, respecting and learning from the perspectives of others.

Citizenship Requirement   N/A

APPLICATION INFORMATION

Application Procedure   Through UBC Science Co-op

Cover Letter Required?   Optional