

## Machine Learning Engineer (Biotech/Cleantech)

Pond is one of the first companies to commercialize a scalable Carbon Capture & Utilization technology that can be deployed at existing industry sites. We design and operate scalable bioreactors that use our society's most abundant product – industrial greenhouse gas emissions – and our specialized growing systems to cultivate algae and other valuable biomass. Algae can serve as the feedstock for nutraceuticals (superfoods), animal feed, or industrial products currently derived from petroleum. Our systems effectively close the carbon loop and create wealth from waste for our partners.

We are looking for a Machine Learning specialist to help us refine our industry-leading growth platform for both algae and high-value crops.

Learn more about us here: [www.pondtech.com](http://www.pondtech.com)

### Who we are looking for:

Named as one of Canada's Clean16 companies and recently listed on the TSX:V, Pond is undergoing a crucial phase as we transition from a R&D-centric company to one focused on large-scale adoption of our technology. We currently have several plants under construction and are looking to add an ambitious individual who shares our vision and tenacity.

As a Machine Learning Engineer, you will be working alongside our diverse team of skilled scientists and engineers to further improve our industry-leading cultivation system. Our growth platform uses a myriad of sensors to inform us about environmental conditions in the bioreactor (= a large vessel in which we grow our algae) in real-time. You will teach our system to better identify ideal conditions for growth and independently maintain this environment to produce consistently high yields. As we grow and scale as a company, we will be working with different strains of algae, different sources of CO<sub>2</sub>, and other crops altogether – and you'll be a key to our company's success.

### Requirements:

- Master's or Ph.D. in Machine Learning, Computer Science, Engineering, Mathematics, or a related discipline
- Deep understanding of in machine learning, probabilistic/predictive modeling
- Demonstrated experience in implementing machine learning algorithms, probabilistic techniques, and deep learning
- Ability to write clear, concise, well-structured, and well-organized code
- Pragmatic orientation to build ML solutions that work in the field
- Effective communication skills, organizational skills and detail oriented
- Ability to work under minimal supervision while putting the team first
- Must be able to work on weekends and be flexible with shift changes (at times)
- Must own a vehicle and a valid driver's license



info@pondtech.com  
pondtech.com  
@pondtechglobal



250 Shields Crt, Unit 8  
Markham, Ontario, L3R 9W7, Canada  
416.287.3835



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**Beneficial Skills & Experience:**

- Bayesian inference; hidden Markov models, state space estimation
- Experience working with Python, Java, C#, C++, or equivalent
- Experience with machine learning frameworks – TensorFlow, Scikit, MLPack, SparkMLib, etc.
- Natural language processing, sentiment analysis, probabilistic decision making
- Knowledge of quantum computing

**Compensation:**

Commensurate with experience, education, and performance with stock option participation

Interested candidates should send their resume and a cover letter describing their experience and suitability for the position.

**Start Date:** Immediately

**Job Types:** Full-time, Part-time, Contract, Permanent

Pond welcomes diversity in the workplace and encourages applications from all qualified individuals, including visible minorities, Indigenous people, persons with disabilities, or candidates currently living abroad. In accordance with the Accessibility for Ontarians with Disabilities Act (AODA), Pond is committed to accommodating applicants with disabilities throughout the hiring process. At any stage of the hiring process, Human Resources will work with applicants requesting accommodation. Please note that only candidates selected for an interview will be contacted.



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