Machine Learning R&D Engineer (Psychedelics)

Calgary, AB

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About MagicMed Industries

MagicMed is a biotechnology company focused on the discovery and commercial development of novel pharmaceuticals based on known **psychedelic** compounds. MagicMed's expanding collection of psychedelic derivatives (the Psybrary™) is expected to yield the next generation of precision medicines for **brain and mental health**.

About The Opportunity

There is a revolution happening in mental health treating addictions and alleviating pain. Would you like to join an innovative and growing company whose goal is to make a positive impact on human health? Are you interested in participating in artificial intelligence and machine learning applications for cutting edge R&D?

MagicMed is seeking a full-time R&D Engineer to apply machine learning techniques to the problems of drug screening. You'll be working with our Research & Development team as they evaluate new compounds, and with our technical partners who will provide direction on the drug screening pipeline development. This is an opportunity to be involved in every aspect of our computational pipeline, to contribute your ideas, and have an impact in the development of novel psychedelic compounds.

Ideally this position will be will be based at our office in Calgary, Alberta; however, alternative options may be considered for the right candidate.

About The Candidate

Our ideal candidate can understand existing machine learning work and apply the techniques to expand our pipeline. You can work independently to solve problems, and are comfortable writing software, using libraries, and scripting data flows.

Key Responsibilities:
* Apply existing models and techniques to assess drug candidates
* Work with the scientific team to improve screening based on feedback from assay results
* Investigate, adapt, and train new models to improve the pipeline
* Provide regular reports and progress updates as required

Education:
* BSc in relevant field (Computer Science, Computer Engineering, Machine Learning, Mathematics, Engineering, statistics or related computational field)
* Master Degree or PhD preferred

Experience:
* Previous work experience specializing in Artificial Intelligence and Machine Learning or Deep Learning

- Experience applying machine learning techniques to solve problems
- Experience with data science tools (such as Python, numpy, rdkit, scikit-learn, SQL, Git)
- Experience with deep learning framework (PyTorch, TensorFlow, or similar)

Core Competencies:
- An understanding of the fundamentals of deep learning
- Strong analytical, trouble shooting and problem solving skills, with the ability to exercise independent judgment
- Able to work collaboratively in cross functional multidisciplinary teams
- Excellent verbal and written communication skills
- Strong organization, prioritization and time management skills, with high attention to detail
- Motivated and self-directed with a demonstrated ability to work with minimum supervision in a fast-paced, dynamic environment
- Proficient in the use of the Microsoft Office suite

A chemistry or biology background is not a requirement; however, the successful candidate will have a strong interest and willingness to learn about psychedelics and drug discovery.

To Apply

MagicMed offers a competitive compensation and benefits package, a dynamic work environment and a great team! Please visit our web site at www.MagicMedIndustries.com for more information about our company.

To apply for this position, please send your **resume and cover letter (detailing a machine learning project, techniques and successes)** to careers@magicmedindustries.com.

MagicMed is equal opportunity employer, committed to an inclusive, diverse and accessible workplace. Accommodations are available on request for candidates taking part in all aspects of the selection process. To request accommodation, please contact Human Resources.

We thank all applicants for their interest in MagicMed Industries; however, only candidates selected for interviews will be contacted.