

# Hadi Rohani

rouhani@ualberta.ca | +1 5875665117 | LinkedIn

## **Alberta Electric System Operator (AESO)**

330 5 Ave SW, Calgary AB T2P 0L4

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To whom it may concern

I am cordially writing this letter to express my interest in the "Forecast Analyst" position at AESO.

I believe the work and research experiences I gained have tailored me to apply for this opportunity.

As a machine learning researcher, I developed a novel robust sizing strategy for charging stations co-located with solar panels using machine learning and probability analysis under the supervision of Dr. Petr Musilek and Dr. Omid Ardakanian. This project was endorsed and funded by Alberta Power Industry Consortium.

Holding two Master's degrees in electrical engineering and computer science built a strong foundation for my progress in smart grid projects. I am highly skilled in probability, stochastic analysis, and have more than three years of professional experience in programming. I have done ground breaking research works on load and renewable energy forecasting the results of which have been applied in real world projects.

As a data science intern in Germany, I worked on problems encompassing large datasets (from different nations) to predict and forecast charging instances of electric vehicles where I implemented neural network learning models (e.g. LSTM) for research development purposes. Then I developed proof of concept models to support my findings.

As a test lead at Surplec company in Spruce Grove, I supervised the testing procedures and provided insights by analyzing the transformer test experiment data. This perfectly solved the anomaly behaviors of refurbished transformers and led to cost reduction related to numerous customer follow-ups.

I am very pleased to recognize this opportunity at AESO that is completely aligned with my work and research expertise. I am confident the experience as a forecast analyst will be rewarding for me and an advantage for the company.

Thank you for reading my letter and I look forward to hearing from you soon.

Sincerely,

Hadi Rohani