WRF Data Scientist Lead

About us

Cumulonimbus, a Canadian startup, is looking to hire its first employees. We are a small team who have been accepted into the highly competitive JOLT accelerator program at the MaRS Discovery District in Toronto. We have a passion to create very high accuracy weather forecasts using state-of-the art numerical models using disruptive new sources of data, specifically barometers found in smartphones. We have established collaborations with Professor Cliff Mass at the University of Washington and Professor Kent Moore at the University of Toronto. We've been working with these scientists to assess the impact that our data makes for the mesoscale meteorological analysis as well as testing the feasibility of assimilating our data into WRF.

We've built PressureNet, our open platform for crowdsourcing weather data with this in mind. We're going to use our large, live dataset to run short-term, high-resolution weather forecasts using WRF. That's where you come in!

Relevant Links

http://pressurenet.io
https://play.google.com/store/apps/details?id=ca.cumulonimbus.barometernetwork

The Position

You'll be in charge of our WRF data assimilation system and managing our WRF model runs and experiments. We currently receive about 700,000 atmospheric pressure measurements daily, and have accumulated an archive of about 200 million measurements over the last couple of years. The results are very promising, especially in areas of significant data density. You'll be responsible for creating and improving our weather forecasts here at Cumulonimbus. If you have the scientific interest, ability and entrepreneurial spirit we need and want to work in a dynamic environment, we want to hear from you!

Compensation: Equity TBD. Salary TBD.

Qualifications

Experience working with WRF running real-time forecast models
Masters in Atmospheric Science or related field
FORTRAN, Python and Unix/Linux experience

Responsibilities

Modifying the WRF Data Assimilation System to maximize the impact of our data
Running post-analysis WRF experiments
Running real-time WRF forecasts
Collaborations with Academic Partners

How to Apply

E-mail us at jobs@cumulonimbus.ca
Mention **WRF Job** in your subject
Attach a CV/resume and cover letter