

Post-doc search for 5G smart-city simulator project

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As the cellular infrastructure all over the world is being 5G updated, more smart applications will be deployed for smart cities, connected cars, smart grids, smart buildings, etc. As a result, our lives will increasingly depend on the reliability and performance of the telecommunication infrastructure. For several years, we have been developing a 4G/5G large-scale simulator to be able to assess the performance of city-wide applications. The simulator allows to study and predict the behaviour of smart applications before their actual deployment. It also has an impact on infrastructure monitoring and failure detection for a smooth and reliable smart system operation.

For the continuation of this project, I am looking for a postdoc with significant experience in Statistics/Data mining/Machine Learning methods as well as with large-scale stochastic simulations. Previous knowledge on wireless networking would be an asset, but it is not mandatory as long as the person is willing to dive into the technical issues concerning 5G application deployment.

1 Candidate profiles

1.1 General

- Excellent judgment
- Excellent modelling and computing skills
- Resourceful
- Excellent grades
- Team player and potential team leader

1.2 Specific

- Extensive experience in Python
- Experience in large-scale stochastic simulation
- Experience in data mining/statistics/machine learning methods
- Experience with distributed computing
- Experience with simulation and optimization tools (NS2, NS3, OMNET, CPLEX, AMPL, etc) will be an asset.

2 For more information

You may want to play with the following platform <https://www.trafficm2modelling.com>.

3 Contact

Send your Vitae, grades transcript and email of references to brunilde.sanso@polymtl.ca please use `candidate_postdoc21 your name` as the subject of your message