

Job Title: Information Technology Advisor

Job Description:

- Information systems support for dynamic pricing research project
- Design registration and administrative portals for research participants and for project administrators
- Write computer code for data extraction from large XML and CSV data sets, organization and presentation
- Write computer code for bill reporting, and automatic communication with participants
- Write computer code for communicating pricing to enabling technologies (e.g., smart thermostats)

Project: A field pilot involving over 1000 participants responding to various electricity pricing plans and various levels of customer-specific instantaneous load data, disaggregated by the household's electricity-using equipment and appliances. Our team of researchers requires additional information systems support over the 6 months to a year.

We envisage about 10 – 15 hours per week of support. Among the job requirements are as follows:

Should be a Masters or Ph.D. student

Should have experience with:

- Python 2 and 3
- Git
- Linux terminal
- SQL databases
- data extraction and analysis from large XML and CSV datasets

It would be also helpful if the candidate has experience with:

- Web2Py
- SOAP interfaces
- working with legacy code (i.e. existing code bases)

Interested candidates should pass their resume and cv to Professor Dean Mountain, mountain@mcmaster.ca .