P²IRC Postdoctoral Fellow in Embedded System and Plant Phenotyping
November, 2017

The Plant Phenotyping and Imaging Research Centre (P²IRC) is an agricultural research centre managed by the Global Institute for Food Security (GIFS) and located at the University of Saskatchewan. P²IRC was established thanks to funding awarded to the University of Saskatchewan by the Canada First Research Excellence Fund award, *Designing Crops for Global Food Security*.

GIFS (www.gifs.ca) was founded in 2012 to perform research that will help deliver transformative innovation to agriculture in both the developed and the developing world. Research at GIFS can be divided into three pillars; seed and developmental biology, root-soil-microbial interactions, and digital and computational agriculture. The latter pillar is occupied by P²IRC.

P²IRC's seven-year transdisciplinary program will transform crop breeding through research in phenometrics, image acquisition technologies, computational informatics of crop phenotype data, and societal and developing world impact. P²IRC (http://p2irc.usask.ca/) is a major research centre with partners located on campus, across Canada, and internationally.

Salary Information: $35,000 to $45,000 CAD per year (eligible for dental and health benefits).

Primary Purpose: The Department of Electrical and Computer Engineering is looking for a postdoctoral fellow in the area of plant phenotyping. The project is to design several data acquisition systems for high throughput plant phenotyping based on embedded system platform.

Accountabilities:

- The successful candidate is expected to lead the project activity, assist supervising graduate students, and write journal or conference manuscripts.
- The candidate will also work with other groups involved in this project in Engineering, Computer Science and Plant Science.

Qualifications:

Education: The candidate should have a doctoral degree in engineering (or computer science), with special focus in signal and image processing and digital system design.

Experience: A good working knowledge on embedded system and Raspberry-Pi would be necessary. A basic understanding of plant physiology and research tools for growing and phenotyping plants, and experience in collaborative research will be an asset.

Application Procedure:

This position is available immediately, however applications will be considered until the position is filled. Interested and qualified individuals are invited to apply via email to one of the contacts below with a curriculum vitae and cover letter (pdf format only) stating how their experience and skills match with this position.

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