

Postdoctoral Fellow in Plant X-ray and Nuclear Imaging, Global Institute for Food Security

Department: Global Institute for Food Security

Status: Term up to 3 years, with the possibility of extension

Requisition:

Open Date: 4/1/19

Closing Date: when filled

Salary Information: The salary range is \$50,000-60,000 CAD per annum. The starting salary will be commensurate with education and experience.

Description: There is 1 opening for this posting. Located in Saskatoon.

Primary Purpose: The Global Institute for Food Security (GIFS) and the Canada Excellence Research Chair (CERC) in Global Food Security are pleased to invite applications for a postdoctoral appointment using penetrating radiation and positron-emitting (PET) isotopes for plant imaging with a focus on root-soil and root-shoot interactions. This will be a joint effort led by Professors Leon Kochian, Dave Schneider, and Emil Hallin of CERC/GIFS, in conjunction with the Canadian Light Source (CLS), the national synchrotron of Canada located at the University of Saskatchewan, and the Fedoruk Centre, which runs the Saskatchewan Centre for Cyclotron Sciences (SCCS) at the university.

GIFS and the CERC program at the University of Saskatchewan are establishing a world-class program to develop and transfer agricultural innovations to both developing and developed areas of the world for the purpose of ensuring food security. The CERC program, under the leadership of Dr. Kochian, is building a multidisciplinary research team consisting of 4-5 faculty positions and an additional approximately 25 research associate, postdoctoral, graduate student, and research technician positions. The team's research disciplines span the biological and physical sciences, including plant molecular biology, physiology and genetics, engineering, physics, computer science, soil science, and microbiology. While the discoveries from this multidisciplinary research are expected to benefit Canada, they also have the potential to enhance agriculture in food production frontiers such as sub-Saharan Africa and South Asia.

Disruptive technologies are needed to ensure food security in view of sharply increasing human needs. Hence, we are seeking an outstanding plant biology researcher to work

with us in a truly transformative research program making full use of the unique set of innovative technologies available on our campus. The candidate will be co-located at GIFS, the CLS, and the SCCS and will be trained in plant imaging, with a focus on plant root architecture, structure and function, using both x-ray imaging at the CLS, and nuclear (PET) imaging at the SCCS.

Qualifications: Outstanding applicants are sought, with demonstrable ability to undertake internationally-leading research and with a record of high-quality publications. They must have relevant post-graduate training (Ph.D. or previous PDF) and a proven record in research in a discipline or disciplines within the general area of plant biological sciences. The PhD must have been awarded within the five years immediately preceding the appointment. Experience in the area of plant phenotyping and especially root phenotyping would be helpful, but not required. The candidate will be working in a highly collaborative, multidisciplinary team environment and experience in this type of research will be preferred. Hence, strong written and oral communication skills in the English language are required for this position, in order to efficiently communicate between members of the research team and ultimately to present research findings in high impact peer-reviewed journals and in talks given at national and international meetings.

This position is in scope of the Public Service Alliance of Canada (PSAC) - Post Doctoral Fellows (PDF).

Inquiries regarding this position can be directed to Megan Paul at 306-966-3722.

Interested candidates must submit a CV and cover letter to Megan Paul:
megan.paul@gifs.ca.

Applications will be accepted until the position is filled.