

Description

The Research Technician in Computational Science position is a full-time two-year term, with an initial six-month probationary period. There is the possibility of the term being extended based on satisfactory performance and availability of research funding. The approximate start date of the position is August 15th, 2018.

Salary Information:

The salary range for the position is \$50,000 to \$80,000 annually; the salary offered to the selected candidate will be commensurate with qualifications and experience.

Primary Purpose:

The Global Institute for Food Security is recruiting for a Research Technician in Computational Science in the Root-Soil-Microbial Interactions research group. The incumbent will provide analytical and computational support for research groups in the laboratories of Dr. Leon Kochian, Canada Excellence Research Chair in Food Systems and Security and Associate Director at the Global Institute for Food Security (GIFS), and Prof. David Schneider, GIFS Research Chair, Digital and Computational Agriculture, University of Saskatchewan campus.

Typical Duties/Accountabilities:

The incumbent will be involved in a broad range of research projects with plant physiologists, geneticists and molecular biologists, as well as with engineers, physicists, computer scientists and soil scientists. These projects focus on various aspects of the structure, function and genetic control of the root system of crop plants. Duties will include, but are not limited to, implementing mathematical and statistical models in a Linux environment, deployment and management of image processing pipelines, development of software tools and interfaces, and general consulting related to the quantitative analysis of complex biological and technological problems. The work will be planned and conducted in close collaboration with postdoctoral fellows, graduate and undergraduate students, other research technicians, and visiting scientists. Overall supervision will be provided Professors Schneider and Kochian, and other faculty who join the team at a later date. Limited opportunities for independent research are possible for highly qualified candidates.

Qualifications**Education and Experience:**

A Master's degree in computer science, mathematics, physics, engineering or other quantitative field is required, or the combination of a Bachelor's degree in a comparable field and at least three years of professional experience in research environments. Prior experience or coursework in optics, image processing, computer vision, tomography or computational geometry is desirable.

Skills:

The successful candidate will have demonstrated ability and desire to work in a fast-paced, team-oriented, multidisciplinary research environment and familiarity with algorithms, data structures and software engineering. They will have excellent written and verbal communication skills in the English

language, possess solid skills in applied mathematics and statistics, and proven ability to solve complex problems using Python in Linux environments with minimal supervision.

This position is not in scope of any bargaining unit.

To Apply: Applications will be accepted online only at careers.usask.ca and **must include a cover letter and resume** and be submitted as a **single PDF document**.

Inquiries regarding this position can be directed to Megan Paul at megan.paul@gifs.ca