

THE SOILED PROFILE



NEWSLETTER
DEPARTMENT OF SOIL SCIENCE
UNIVERSITY OF MANITOBA
“bringing you the latest dirt”



UNIVERSITY
OF MANITOBA

For general inquiries or if you have material to include in the newsletter:

Lynda Closson
University of Manitoba
Room 362 Ellis Bldg
Winnipeg, MB R3T 2N2

Phone: 204 474-8153, Fax: 204 474-7642
Email: Lynda.Closson@umanitoba.ca
Past issues of the Soiled Profile are on our webpage: umanitoba.ca/afs/soil_science/

26 July 2019

Important Announcements

***Job Opening

Tenure-track Position – Assistant Professor of Soil Science, Department of Soil Science, Faculty of Agricultural and Food Sciences, University of Manitoba

Link: [Asst. Professor-Soil Science, Agricultural and Food Sciences](#)

Location: Soil Science, U of M

Full Time: Yes

Permanent: Yes

Posting Start Date: Jul 23, 2019

Posting End Date: Aug 23, 2019

Expected Start Date: Jan 01, 2020

Expected End Date:

Job Description:

Tenure-track Position - Assistant Professor of Soil Science, Department of Soil Science, Faculty of Agricultural and Food Sciences, University of Manitoba The Department of Soil Science, Faculty of Agricultural and Food Sciences, University of Manitoba invites applications for a full-time, tenure-track position at the rank of Assistant Professor in any discipline of Soil Science. The position begins January 1, 2020, or as soon as possible thereafter. Salary will commensurate with qualifications and experience. The position will contribute to teaching, research, service and outreach functions grounded in the Department's pillars of sustainable food production systems, soil and environmental health, greenhouse gas and climate change mitigation and adaptation, and seasonally-frozen soils and environments.

Responsibilities:

The successful candidate will be required to teach undergraduate and graduate courses in soil science as it applies to their area of expertise and the curriculum in the Faculty of Agricultural and Food Sciences. The successful applicant could build on the existing expertise in the Department of Soil Science (www.umanitoba.ca/afs/soil_science) or contribute to additional areas of Soil Science. The Department has access to excellent research infrastructure and facilities, including the Ian N. Morrison Research Farm, a 406-acre facility located 70 km southwest of Winnipeg; and the Gleanlea Research Station, a 1,000-acre facility 20 km south of Winnipeg. The Department also benefits from collaborations with other institutions and with provincial and federal departments, including Agriculture and Agri-Food Canada, which has two major centres in Manitoba: the Cereal Research Centre located at Morden, and the Brandon Research and Development Centre. The Faculty of Agricultural and Food Sciences is home to the National Centre for Livestock and

Environment (NCLE, <https://umanitoba.ca/faculties/afs/ncle/index.html>), which engages in multi-disciplinary, multi-agency research partnerships focused on furthering the long term economic and environmental sustainability of integrated livestock and crop production systems.

Qualifications:

Qualified applicants must possess: a Ph.D. in soil science or a related discipline; a record of independent research as demonstrated by scholarly publications, which might include publications arising from research as a graduate student; the potential for developing an active externally-funded research program, including supervision of graduate students; demonstrated ability or potential for high quality undergraduate and graduate teaching; and excellent oral and written communication skills in English.

Additional Information:

The University of Manitoba, founded more than 140 years ago, is located in Winnipeg and is Manitoba's largest research-intensive university. The University community is comprised of close to 30,000 students, 9,000 faculty and staff, and over 140,000 alumni. A vibrant, prairie city with a population exceeding 700,000, Winnipeg boasts world-class arts and entertainment, professional sports teams and an affordable, balanced lifestyle; for more information, visit www.tourismwinnipeg.com.

The University of Manitoba is strongly committed to equity and diversity within its community and especially welcomes applications from women, racialized persons, Indigenous Peoples, persons with disabilities, persons of all sexual orientations and genders, and others who may contribute to the further diversification of ideas. If you require accommodation supports during the recruitment process, please contact U of M's Equity, Diversity and Inclusion Facilitator, Valerie Williams at Valerie.Williams@umanitoba.ca or 204-474-8371. All qualified candidates are encouraged to apply; however, Canadian citizens and permanent residents will be given priority.

The Department is home to the Prairie NSERC Chair for Women in Science and Engineering and especially welcomes the application from women for this Tenure-track Assistant Professor Position in the Department of Soil Science. Applicants are requested to submit the following materials by the application deadline of August 23, 2019.

- 1) A cover letter
- 2) Short statements of:
 - a) Research interests and scholarly work in relation to soil science;
 - b) Experience in, and approach to, training and mentoring a diverse student population
- 3) A curriculum vitae that includes the names of three referees
- 4) Other materials that help support the applicant's application

Send to:

Dr. Francis Zvomuya, Search Committee Chair, Head,
 Department of Soil Science, University of Manitoba
 362 Ellis Building, 13 Freedman Crescent Winnipeg,
 Manitoba, R3T 2N2 Canada
 Email: Francis.Zvomuya@UManitoba.ca
 Telephone: (204) 474-9932.

Please refer to Position Number 27741 in the subject line.

Application materials, including letters of reference, will be handled in accordance with the protection of privacy provisions of "The Freedom of Information and Protection of Privacy" (Manitoba). Please note that curriculum vitae may be provided to participating members of the search process.

*****Graduate Scholarship: UMGF**

Second Call for Applications for the 2019-2020 UMGF Competition

Prospective and current **M.Sc. and Ph.D. students** are encouraged to apply for the **2019-2020 Department of Soil Science University of Manitoba Graduate Fellowship Competition (UMGF)**.

Applications submitted for the March 2019 competition will be reconsidered. It is not necessary to resubmit these applications unless there have been substantive changes since March.

The award value is \$14,000 per year for a maximum of 2 years for M.Sc. students; and \$18,000 per year for a maximum of 4 years for Ph.D. students. Master's fellowships will not extend beyond the first 24 months of the Master's program. Ph.D. fellowships will not extend beyond the first 48 months of their Ph.D. program. New students must start their award by January 2020 at the latest. Although students must have a minimum admission GPA of 3.0 to be eligible, admission and in-program GPAs constitute a substantial component of the award assessment. All students regardless of citizenship are eligible to apply. Please refer to the UMGF Award Holders Guide for full details of eligibility:

([http://umanitoba.ca/faculties/graduate_studies/media/UMGF Award Holders Guide 19-20.pdf](http://umanitoba.ca/faculties/graduate_studies/media/UMGF_Award_Holders_Guide_19-20.pdf))

Students must submit the following electronically to Martha Blouw (Martha.Blouw@umanitoba.ca) by **August 6, 2019**, 4:00 pm.

- **Transcript** of grades from all university programs; University of Manitoba transcripts downloaded from Aurora are acceptable; Students from other universities who have not yet applied to the Faculty of Graduate Studies can provide a scanned copy of transcripts; Current students can provide copies of their original transcripts used from their initial admission application;
- **Letter of Intent** describing your educational goals, notional thesis topic area, the name of your thesis advisor, and the date when your program will start;
- **A resumé** indicating exceptional academic achievements and demonstration of leadership and experience, including evidence of research productivity;
- A 300- to 500-word **description** of your intended research.
- **Letters of reference** from two professional referees sent directly from the referee to Martha.Blouw@umanitoba.ca

Upcoming

Investors Group Field – Event Day Information/Parking Restrictions*

Thursday, August 8, 7:30 pm – Bombers vs. Calgary. **Parking restrictions: 6:00 pm – 10:30 pm**

All parking lots are to be vacated a minimum of **90 minutes prior to the start of an event at Investors Group Field™, except A, B, staff section of D, CTC, and AC lots. In these lots, only permit holders will be allowed to remain and all others must vacate. Parking restrictions end 3 hours after the start of the game.*

Vehicular access onto campus is possible via Chancellor Matheson Road, University Crescent (both north and south entrances) or Kings Drive.

Graduate Students

Registration Reminder: GRAD 7500 Academic Integrity

Please read the below information carefully as it concerns important information about graduate student registration.

NB: *In addition to the re-registration course below, please register for your appropriate thesis course:*
Master's Thesis - 1598 - GRAD 7000 - A03

[Doctoral Thesis - 1603 - GRAD 8000 - A03](#)

Compulsory GRAD 7500 Academic Integrity Tutorial

Academic Integrity is a matter of paramount importance in academia. It is the foundation of scholarly work. Breaches of Academic Integrity, whether intentional or unintentional, have potentially very serious consequences to a student's status in the Faculty of Graduate Studies and at the University of Manitoba. To help graduate students better understand the issues surrounding Academic Integrity, the Senate of the University of Manitoba passed a motion that requires all graduate students to take a compulsory tutorial on Academic Integrity.

All graduate students must register for and complete GRAD 7500 Academic Integrity Tutorial one time. This is a zero (0) credit-hour course intended to introduce students to their basic responsibilities regarding academic integrity and to the resources available to them.

Failure to successfully complete this course within the first term of registration will result in suspension of registration privileges, and ultimately, a failed grade and Required to Withdraw action.

Note:

- Please only register for GRAD 7500 once. Do not register in subsequent terms while admitted to the same degree program.
- Students on an exceptional/parental/regular leave of absence must register in GRAD 7500 upon return from leave if it has not already been completed.
- Students MUST complete GRAD 7500 even if:
 - They have already completed the Research Integrity course.
 - They have already completed a similar departmental seminar course.
 - Their thesis is in the middle of distribution.
 - They are a Visiting, Occasional, or Pre-Masters student.
 - A span of time of one (1) or more term(s) separates one graduate degree program from another graduate degree program (for instance, if a student completed GRAD 7500 at the Master's level, took a break of one (1) or more terms and was admitted to another Master's or Ph.D. program)
- Students are not required to complete GRAD 7500 if:
 - They are a Ph.D. student who already completed GRAD 7500 during their Master's program (without a span of time between programs)

Students must register for the course in Aurora in order to access it in UM Learn.

We strongly suggest you review the course instructions prior to starting the course:

http://umanitoba.ca/graduate_studies/htmlmail/Academic_Integrity_Instructions.pdf

FAQs can be viewed at: umanitoba.ca/faculties/graduate_studies/registration/grad7500FAQ.html.

Always remember to plan your program carefully. It is imperative that you ensure you are registering for only those courses that are a major part of your Master's or Ph.D. program. If they are not part of your major program then they should be added through your department/unit office as an Auxiliary course "X", Audit course "A" or an Occasional course "O". If you have questions about this, contact your department/unit. Do not register for more courses than your program allows because you may be assessed extra fees at the time of graduation.

As per SECTION 2: Academic Performance of the Faculty of Graduate Studies Academic Guide

<http://crscalprod.ad.umanitoba.ca/Catalog/ViewCatalog.aspx?pageid=viewcatalog&catalogid=341&chapterid=4090&loaduseredits=False>:

"Students are ultimately responsible for ensuring that they meet all degree and program requirements. The advisor (and if appropriate co-advisor), advisory committee, and unit must ensure that each student follows the guidelines and meets the program requirements. The Faculty of Graduate Studies performs a final check of program requirements for each student just prior to graduation. Students are cautioned, therefore, to periodically check all regulations with respect to the degree requirements. Failure to meet all the requirements will render a student ineligible to graduate."

Thank you for your attention to these important graduate student matters.

Andrea

Andrea J. Kailer, B. Comm. (Hons). Confidential Assistant to the Associate Deans & Programs Coordinator

Employment/Study Opportunities

Research Scientist Position in Soil Health in Agricultural Crop systems

Position description

The Fredericton Research and Development Centre, Agriculture and Agri-Food Canada (AAFC), invites applications for a Research Scientist in soil science and related research fields with specialization in nutrient cycling, greenhouse gases (nitrous oxide and carbon dioxide) and precision agriculture. The Centre, located in Fredericton, New Brunswick, conducts world-class research in the areas of enhancing the productivity and environmental performance of potato and other arable crop production systems; potato crop protection; and potato germplasm enhancement. The incumbent's research will focus on understanding and managing nutrients within agricultural landscapes to enhance soil health and productivity in croplands in Atlantic Canada.

The growing global human population requires increased agricultural productivity on a shrinking land base to meet the need for food, fibre and bioenergy. At the same time, increased climate variability is inducing greater stresses on our crop production systems. Loss of productivity due to soil degradation is a primary limitation to agricultural production in intensively managed arable cropping systems. Soil degradation makes production systems less resilient and more susceptible to climatic variation and to environmental nitrogen losses. This position will focus on the critical role of nitrogen management at the landscape scale in enhancing the resiliency and reducing the environmental footprint of agricultural production systems. The incumbent will examine the effects of soil, crop and water management practices (e.g. cropping systems, inorganic and organic fertilizer amendments, conservation tillage, water management, precision agriculture, remote and/or proximal sensing), soil properties and climatic conditions on nitrogen dynamics within the soil-plant-animal-atmosphere system with the aim of identifying management strategies to increase the efficiency of nutrient utilization, reduce nutrient losses to water and air, and sustain productivity within agricultural landscapes in the context of variable climatic conditions.

The incumbent will be part of a multidisciplinary team of soil scientists, agronomists, microbiologists, hydrogeologists, entomologists and pathologists, and will have access to state-of-the-art laboratories and research field sites. The incumbent will have the opportunity to collaborate closely with industry stakeholders in Atlantic Canada as well as academia to address soil quality and sustainability needs. Research Scientists have access to significant funding opportunities and are well supported by technical and administrative staff. Research Scientists are encouraged to seek university affiliation and co-supervise graduate students.

Requirements:

- Graduation with an acceptable doctoral degree from a recognized post-secondary institution in agronomy, soil science, natural resources, environmental science or other relevant discipline.
- Applications will be accepted from candidates enrolled in their final year, but who have not yet completed a Ph.D. program. Completion of the Ph.D. thesis must occur before the date of appointment.

Hiring of research scientists at AAFC is now being done solely by the use of an inventory. Please apply on-line at the Government GC Jobs, Research Scientist – Growing Agricultural Innovation at this website: <https://emploisfp-psjobs.cfp-psc.gc.ca/psrs-srfp/applicant/page1800?poster=1206690>

M.Sc./Ph.D. Position in Biological Filtration of Surface Water Department of Civil Engineering, University of Manitoba

A graduate position at the Masters (M.Sc.) or Doctoral (Ph.D.) level is available in the Water Treatment Group

in the Department of Civil Engineering, University of Manitoba. Laboratory experience with Activated Carbon sorption and/or biological filtration in potable water treatment is required for this project. Hands-on laboratory experience in microbiology is an asset. A brief description of the project can be found at the end of this newsletter.

Applications should be e-mailed to Dr. Beata Gorczyca (Beata.Gorczyca@umanitoba.ca)

Postdoctoral Research Associate Position in Land/Water Reclamation/Remediation, University of Alberta

We seek a highly motivated postdoc for a project that develops novel materials for the remediation of heavy metal contaminated soil and water. We study the effectiveness of such novel materials and explore the mechanisms involved in affecting their efficiency for land and water remediation/reclamation. The project is in collaboration with Professors Anne Naeth (Renewable Resources), Mohamed Gamal El-Din (Environmental Engineering) and others. In addition to working within the project to meet project objectives, independent lines of research in related areas are encouraged. There is room to develop the appointee's own research interest.

The position is located at the University of Alberta in Edmonton. Funding is available for one year with the possibility for renewal for a second year depending on the continued availability of funding and the performance of the postdoc. A competitive salary of ~\$50k/year will be provided depending on the qualification of the appointee.

Persons with training in soil chemistry, environmental sciences, or other related fields are encouraged to apply. Ability to communicate effectively in English and evidence of productivity (high quality peer-reviewed publications) from previous work are essential. The candidate must be highly motivated, able to work independently but at the same time be a good team player.

The position is available from September 1, 2019, or as soon as possible thereafter.

To be considered, please send an unofficial copy of your university transcripts, curriculum vitae, names and contact details of two referees, and a short statement (maximum two pages) of your research interest by email (send in one PDF file). Please note that incomplete applications will not be considered and only successful candidates will be contacted for an interview.

Dr. Scott Chang, Professor

Tel: (780) 492-6375; Fax: (780) 492-1767

Email: sxchang@ualberta.ca

Web: <https://scholar.google.ca/citations?user=HOAQkSwAAAAJ&hl=en&oi=ao>

Department Staff Away

Shu Ng: July 29 – August 2

Don Flaten: August 5 – 30

Brian Amiro: August 16 – 30

Francis Zvomuya: August 19 – 29: China

Flor Toribio will be working from home on July 30