

Positioning Canada's Potato Industry for Improved Sustainable Production

Graduate Student Position Available in the 4R Nutrient Stewardship NSERC Industrial Research Chair Program
Department of Soil Science, University of Manitoba, Canada
January 2024

We are currently seeking a candidate for training leading to an M.Sc. or Ph.D. degree in **Sustainable 4R Potato Production**. The need to reduce greenhouse gas emissions from agriculture is great, but potato producers are rightly concerned that reducing N₂O emissions may negatively impact yield, supply, quality, and profitability.

The successful applicant will undertake graduate research to quantify greenhouse gas emissions reductions achievable using 4R nitrogen (N) management practices and improved N use efficient potato varieties in Canada, without sacrificing the yield and quality of fresh and processing potatoes. The student will assist with experimental design, setup, sample collection, sample analysis and processing. They will also report results to farmers and industry through field tours and presentations. Ph.D. candidates will also be responsible for synthesizing results from data collected at three additional field sites in Alberta, New Brunswick, and Prince Edward Island.



Students must have excellent oral and written skills in English. If an M.Sc. student, a 4-year equivalent B.Sc. in agriculture or the natural sciences is required and course work and field experience in agriculture or soil science an asset. If a Ph.D. student, a research-intensive M.Sc. with at least one resulting publication in English in a peer-reviewed journal is required. If the research was in the field of agriculture, the paper must be from a reputable [agronomy, crop or soil science journal](#). Stipends of \$24,000/yr for two years to M.Sc. students and \$28,000/yr for four years to Ph.D. students are available. Training is funded by several government and industry sources supporting projects led by the 4R Industrial Research Chair Program.

Interested in this opportunity? Send a detailed CV, statement of relevant experience, availability, and list of three referees and their contact information to Dr. Mario Tenuta, Professor of Applied Soil Ecology, at mario.tenuta@umanitoba.ca. Please use the subject heading "**Sustainable 4R Potato Production**".

The laboratory is committed to a training environment with gender equality, diversity, and encouragement of participation of Indigenous and Metis peoples and minorities. Learn more about the [4R Industrial Research Chair Program](#), the [University of Manitoba](#) and the [City of Winnipeg](#).