

Benefit of 4R Nitrogen Management on Micro-meteorological Fluxes of Ammonia

Graduate Student Position Announcement Applied Soil Ecology Laboratory of the Department of Soil Science, University of Manitoba, Canada

The laboratory for Applied Soil Ecology at the University of Manitoba (<http://soilecology.ca/@soilecologyUMan>) is seeking highly motivated and talented candidates for training leading to M.Sc. or Ph.D. degrees. Students will undertake graduate research in 4R Nitrogen Practices to reduce NH₃ volatilization from agricultural fields near the cities of Winnipeg and Brandon, Manitoba. The students will assist in the setup and operation of the field sites with flux towers and use of the backward Lagrangian Stochastic approach to estimate NH₃ losses. Candidates will have excellent oral and written skills in English and have completed a 4-year equivalent B.Sc. in the agricultural or natural sciences, or engineering. Experience or course work in micro-meteorology is an asset. Graduate stipends of \$19,500/yr for two years to M.Sc. students and \$22,000/yr for four years to Ph.D. students are available. The training is funded by several government and industry sources to projects led by the Applied Soil Ecology Laboratory.

The Applied Soil Ecology Lab is very active in soil ecological research with state-of-the-art facilities and a diverse array of multidisciplinary projects in nutrient management, plant disease management, and soil ecology of major field and horticultural crops in Manitoba. The laboratory employs 4 permanent technicians, and routinely 2-3 Research Associates, 5-10 graduate students, and 10-15 summer students/term technicians. The University of Manitoba is in the City of Winnipeg, with a vibrant metro area of 750,000 people and is less than an hour by car to Prairie, Boreal and Canadian Shield landscapes, and the U.S.A.

For more information on this opportunity please send a detailed CV, statement of relevant experience, availability, and list of three referees and their contact information by email to Dr. Mario Tenuta, Professor of Applied Soil Ecology at mario.tenuta@umanitoba.ca. Please use the subject heading "Graduate Studies Micrometeorology". The Applied Soil Ecology Laboratory is committed to a training environment with gender equality, diversity, and encouragement of participation of First Nations and Metis peoples and minorities.