



Postdoctoral Fellow –Organic Chemistry

Faculty of Science – Chemistry

Are you interested in working on climate change? Do you want to change the world and create a novel molecule? Livestock Water Recycling has the research project for you!

One postdoctoral position is available immediately to support the research of Dr. Todd Sutherland and Dr. Chang-Chun Ling (Department of Chemistry, University of Calgary). The position is available for one year with the possibility for renewal.

This project is in partnership with U of C, Livestock Water Recycling (LWR) and the Mitacs Accelerate program.

Company Profile

LWR is the innovator of the award-winning PLANT. This patented technology platform provides hog, dairy, anaerobic digester, and food processing operations the ability to recycle clean water and fertilizers from nutrient laden liquids. LWR's approach to manure treatment achieves triple-bottom-line outcomes: meeting the growing demand for food, increasing farmer profitability, and protecting the environment and public health. LWR's fertilizer PLANTs save farmers time and money by providing them with a cost-effective solution to manage manure and bioliquids in a sustainable manner. LWR has systems operating throughout Canada, the US, the Middle East, and the United Kingdom. Food production waste is a massive growth market for LWR's technology. Both farms and food companies are eagerly looking for successful solutions for this expensive problem.

Project Summary

LWR is searching for a Postdoctoral Chemist to join the research team. The goal of this project is to find a successful, economical and efficient chemical treatment protocol which may include the development of a novel molecule for food production waste and biogas production companies. This protocol would be trialed and studied both in the lab and in field trials and would create potential new IP for the company.

The overview of the project includes a literature review, lab investigation, chemistry development, integration with a data platform, and a final report at the end. Additionally:

- Assist in oversight of research projects of the undergraduate student, and other personnel to achieve targeted research objectives within timelines
- Manage day-to-day operation of the research laboratory, including maintaining equipment and supplies, overseeing troubleshooting of problems, and ensuring adherence to safety protocols
- Analyze, interpret, and report research results; assist in preparation of publications and reports; present results in meetings

The candidate should possess:

- Ph.D. in organic chemistry or polymer chemistry within five years of graduation to be eligible
- Extensive experience in synthetic organic chemistry.
- Expertise in characterization methods of organics
- Ability to perform collaborative research and effectively interact with a broad range of colleagues.
- Ability to accurately and eloquently represent scientific projects to diverse audiences.
- Experience in the preparation of scientific manuscripts, reports, and research posters.
- Excellent written and verbal communication skills.

To Apply:

Forward your CV, a brief statement of research interests, and contact information for three references to careers@livestockwaterrecycling.com

Attention can be made to Dr. Todd Sutherland.

Initial communication for selected applicants will be done by email, please ensure your email address is on your application.

Applications will be reviewed as they are received. Only those under consideration will be contacted.

Thank you for your interest in LWR!