# David Ure, Ph.D.

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May 30th, 2024

Academic Language Experts

Dear Hiring Manager,

I am writing to express my interest in the Freelance Editor position. I hold a Ph.D. in Chemistry and Biochemistry, and I have extensive experience in scientific writing, editing, and publishing. My current positions as a post-doctoral fellow at the University of Windsor and my freelance work as an English/Scientific editor in chemistry/biochemistry (detailed below) have provided me with a wealth of experience in editing and reviewing scientific manuscripts across a broad range of STEM fields. My graduate research experience was multidisciplinary in the fields of environmental and agricultural science. Specifically, I developed adsorbent materials to mitigate nutrient leeching in agricultural runoff. My post-doctoral work is heavily focused on analytical-environmental chemistry, where I develop methods for analyzing stable isotope ratios in various sample types, including those from the O&G (specifically sulfur) and agricultural sectors (nitrogen and oxygen from fertilizer).

In my personal academic experience, I have authored and edited multiple manuscripts in my field, including four published studies and one submitted paper. In addition, I am adept at writing and revising complex scientific and technical pieces into non-technical documents. The best examples of this include: (I) Co-authoring the Essex Region Phosphorus Management Strategy for the Essex Region Conservation Authority. I authored a plain-language literature review on mitigation strategies to prevent phosphorus leeching in agricultural runoff. (II) Co-authoring a student knowledge base for the University of Windsor’s MMB program, used to aid online learning during the COVID-19 pandemic.

In my role as a freelance English and specialist editor in chemistry/biochemistry, I have edited a large number of manuscripts from various STEM fields. My previous experience as a TESOL-certified English teacher in South Korea has helped me develop strong communication skills with ESL speakers/writers and allowed me to apply corrections as needed. I am able to work in US, UK, Canadian, and Oxford English dialects. I am adept at editing using MS Word’s track changes feature and Adobe's comment feature.

I believe that my experience and skill set make me an ideal candidate for the position. I am excited about the opportunity to leverage my expertise to advance your team's objectives. Please do not hesitate to contact me at 519-564-3495 or ured@uwindsor.ca. I am a Canadian citizen residing in Windsor, Ontario, Canada. I am interested in working remotely.

Thank you for your time and consideration.

Sincerely,



David Ure, Ph.D.

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**EDUCATION AND CERTIFICATIONS**

**The University of Windsor** | Doctor of Philosophy, Chemistry, and Biochemistry 09/2017 - 09/2021

Dissertation: The valorization of agricultural by-products for the removal of inorganic phosphate from water

Advisor: Dr. Bulent Mutus, Professor Emeritus

**The University of Western Ontario**| Bachelor of Science, Honors Spec. Genetics and Biochemistry 09/2009 - 06/2013

**Certifications**

**London Language Institute** | Teaching English to Speakers of Other Languages (TESOL) 2013

**RELEVANT EXPERIENCE**

**Freelance Academic Editor** 03/2024 – Present

Elixigen | Remote

* + Edit and revise academic manuscripts, ensuring they meet rigorous academic grammar, style, and formatting standardsin the fields of chemistry, biochemistry, agriculture science, and environmental science

**Freelance Academic Editor** 11/2023 – Present

Edanz | Remote

* + Edit and revise academic manuscripts, ensuring they meet rigorous academic grammar, style, and formatting standardsin the fields of chemistry, biochemistry, agriculture science, and environmental science

**Freelance Academic Editor** 05/2023 – Present

Charlesworth Author Services | Remote

* + Edit and revise academic manuscripts, ensuring they meet rigorous academic grammar, style, and formatting standardsin the fields of chemistry, biochemistry, agriculture science, and environmental science

**Freelance English Editor / Academic Editor - Chemistry** 11/2022 – Present

MDPI | Remote

* + As an English editor, edit and revise academic manuscripts, ensuring they meet rigorous academic grammar, style, and formatting standards
  + As a specialist editor, conduct thorough reviews of academic manuscripts in the fields of chemistry and biochemistry, with a focus on enhancing scientific accuracy and clarity

**Post Doctoral Fellow**  09/2021 – Present

University of Windsor | Windsor, ON

* + Led a successful MITACs-funded project focused on monitoring nutrients in water and developed a machine learning tool to create a reagent-free sensor system
  + Developed a novel, non-toxic system for measuring sulfur isotopes in hydrogen sulfide gas sourced from the O&G sector, resulting in accurate monitoring of gas migration in the Alberta oilsands
  + Developed and optimized a novel reaction system for precise measurement of nitrogen and oxygen isotopes in agricultural runoff, facilitating an improved understanding of nutrient transport and uptake dynamics in aquatic ecosystems
  + Devised and validated a robust method for separate quantification of organic and inorganic carbon isotopes in petroleum-contaminated core-drilling samples, allowing for accurate reconstruction of historical environmental conditions and contaminant transport pathways

**Graduate Research Assistant**  09/2017 – 08/2021

University of Windsor | Windsor, ON

* + Leveraged exceptional writing and research skills to author four peer-reviewed articles that effectively communicate complex ideas and data to a broad academic audience
  + Collaborated with multiple organizations, including the ERCA, BPBA, and LTVCA, to design and test innovative filtration systems that reduced nutrient leaching into water from agricultural sites by up to 70%. Developed and integrated value-added filtration materials for optimized system performance
  + Utilized advanced analytical techniques and instrumentation to design and characterize sorbent materials with exceptional phosphorus removal capacity, offering promising applications in environmental remediation
  + Designed, purified, and tested a range of sensitive fluorescence-based sensors for the quantification of phosphorus in water
  + Devised and synthesized a range of metallic and organometallic nanoparticles, which were effectively integrated with material surfaces for sensing applications

**Research Intern** 09/2020 – 02/2021

Biosphere Environmental | Windsor, ON / Lions Head, ON

Members from the University of Windsor and Bruce Peninsula Biosphere Association co-founded Biosphere Environmental (BE). BE’s mission is to reduce the impact of nutrient leaching from agricultural activities by filtration of inorganic phosphate from tile drainage systems.

* + Spearheaded the creation of a monometallic phosphate-binding hydrogel that achieved efficient removal of phosphorus in a tile drainage system
  + Conceptualized, designed, and built a prototype system for the rapid synthesis of large quantities of hydrogel, leading to an initial batch of approximately 600 kg of material, learning and integrating material/process science and industrial-scale production skillsets
  + Authored technical standard operating procedures (SOPs) for the future manufacture of hydrogels, ensuring the reproducibility and scalability of the hydrogel synthesis process

**Native English Teacher** 03/2014 – 02/2017

Seoul Metropolitan Office of Education | Seoul, South Korea

**PUBLICATIONS AND PRESENTATIONS**

**Peer-Reviewed Publications**

***Published***

Ure D, Mutus B. Iron-carboxymethyl sawdust for the removal of inorganic phosphate from water. *ACS Agric. Sci. Technol.* 2021;1(3):150-159.

Ure D, Mutus B., The removal of inorganic phosphate from water using carboxymethyl cellulose-iron hydrogel beads. *J Chem Technol Biotechnol.* 2020;96(1):38-47.

Meister, D; Ure, D, Awada, A, et al. Covalently functionalized sawdust for the remediation of phosphate from agricultural wastewater. *ACS Sustain Chem Eng.* 2019;7(24):20139-20150.

Ure, D., Awada, A.; Frowley, N.; Munk, N.; Stanger, A.; Mutus, B., Greenhouse tomato plant roots/carboxymethyl cellulose method for the efficient removal and recovery of inorganic phosphate from agricultural wastewater. *J Environ Manage.* 2019;233:258-263.

***Submitted***

Ure, D.; Mundle, S. The optimization of hydrogen sulfide trapping using cadmium and zinc cations for sulfur isotope ratio mass spectrometry (Draft available)

***In Preparation***

Ure, D.; Hassanzadehroknabadi, S.; Mutus, B., A comparative study of multimetal hydrogel composites composed of aluminum, calcium, copper, iron, and lanthanum for the removal of inorganic phosphate from water (Draft available)

**Presentations** (Note: \* denotes presenter)

***Oral***

Development of an open education resource for a taught master program in biotechnology, 104th Canadian Chemistry Conference, 2021. Tranum Kaur\*, Jeremy Rawson\*, Kory Schlingman\*, Ben Scaria\*, David Ure\*, Allyson Skene. (Poster). *All denoted speakers were responsible for presenting their contributions to the project.*

The development of carboxymethylated sorbents for the removal of inorganic phosphate from water, Lower Thames Phosphorus Reduction Collaborative, 2021. David Ure\*, Bulent Mutus. (Oral).

Multimetal hydrogel composites for the removal of inorganic phosphate from tile drainage, International Association for Great Lakes Research, 2021. David Ure\*, Sara Hassanzadehroknabadi, John Rogers, Zachary Rogers, Charles Lalonde, Colin Little, Dan Bittman. (Oral).

Greenhouse tomato plant roots/carboxymethyl cellulose method for the efficient removal and recovery of phosphate from agricultural wastewater, Latornell Conservation Symposium, 2019. David Ure\*, Angela Awada, Nicole Frowley, Neils Munk, Amanda Stanger, Bulent Mutus. (Oral).

Tomato plant root/CMC method for the removal and recovery of phosphate from agricultural wastewater, International Association for Great Lakes Research, 2019. David Ure\*, Angela Awada, Nicole Frowley, Neils Munk, Amanda Stanger, Bulent Mutus. (Oral).

Synthetically Modified Cellulose Derivatives for the Remediation of Phosphate from Agricultural Wastewater, 102nd Canadian Chemistry Conference, 2019. Daniel Meister\*, David Ure, Angela Awada, Jean-Claude Barrette, Joel Gagnon, Bulent Mutus, John F. Trant. (Oral).

A Strategy for the Removal and Recovery of Nutrients from Agricultural Wastewater, Bruce Peninsula Biosphere Association – Pasture Meeting, 2019. David Ure\*, Angela Awada, Nicole Frowley, Neils Munk, Amanda Stanger, Bulent Mutus. (Oral).

Point Source-specific design and performance of biopolymer-based phosphate filtration systems, International Association for Great Lakes Research, 2018. Bulent Mutus\*, David Ure, Angel Awada. (Oral).

***Poster***

Covalently functionalized sawdust for the remediation of phosphate from agricultural wastewater, International Association for Great Lakes Research, 2019. Daniel Meister, David Ure\*, Angela Awada, Jean-Claude Barrette, Joel Gagnon, Bulent Mutus, John F. Trant. (Poster).

**NON-PEER-REVIEWED WRITING PROJECTS**

**Essex Region Phosphorus Management Strategy** 06/2021

Essex Region Conservation Authority | Windsor-Essex County, ON

* + Collaborated with a team of experts as an invited co-author on the Essex Region Phosphorus Management Strategy, contributing to the development of a plain-language text detailing strategies for reducing nutrient leaching from agricultural practices

**Master of Medical Biotechnology - Open Education Resource** 06/2020

University of Windsor | Windsor, ON

* + Collaborated with fellow experts to co-author an online student knowledge base detailing fundamental background knowledge and laboratory methodologies studied by Master of Medical Biotechnology students at the University of Windsor, providing a valuable resource for future generations of students and researchers
  + Presented at the prestigious 2021 Canadian Chemistry Conference, co-presenting the knowledge base and learning outcomes to a diverse audience of leading academics and industry experts