

Assistant Professor in Smart, Nature-based Treatment of
Waterborne Pathogens
University of Guelph

Direct Link: <https://www.AcademicKeys.com/r?job=253469>

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Posted Feb. 18, 2025, set to expire Jun. 22, 2025

Job Title	Assistant Professor in Smart, Nature-based Treatment of Waterborne Pathogens
Department	School of Environmental Sciences https://ses.uoguelph.ca/
Institution	University of Guelph Guelph, Ontario
Date Posted	Feb. 18, 2025
Application Deadline	review of applications will begin on the 14th April and will remain open until filled.
Position Start Date	Available immediately
Job Categories	Assistant Professor
Academic Field(s)	Water Resources Engineering Sustainable Engineering Ecological and Environmental Civil Engineering Bioengineering (all Bio-related fields) Agricultural Engineering - Other
Apply Online Here	https://careers.uoguelph.ca/job/Guelph-Assistant-Professor-in-Smart,-Nature-based-Treatment-of-Waterborne-Pathogens-ON-N1G-2W1/729418247/
Apply By Email	
Job Description	

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The School of Environmental Sciences at the University of Guelph invites applications for a tenure-track position at the Assistant Professor level. The candidate will specialize in intelligent nature-based solutions for treatment of waterborne pathogens. This includes passive treatment systems such as constructed wetlands, engineered biofilters, ponds, swales, etc. and expands to nature-based solutions that integrate real time monitoring and control technologies to improve water treatment. This forms part of a cluster hire and the successful candidate will codevelop an internationally recognized research program on the surveillance and control of waterborne pathogens and/or antimicrobial resistance (AMR). There are exciting opportunities for collaboration within SES (e.g. research strengths exist in nature-based solutions, soil sciences, aquatic sciences and environmental microbiology) and the broader research community at UoG. The candidate will help to develop and teach courses in the area of water and environmental systems at both the undergraduate and graduate levels. The willingness to work collaboratively and to mentor students from a wide range of disciplines, cultures, and academic backgrounds is essential.

The candidate must hold a PhD in Environmental Sciences, Engineering (Environmental or Civil), Environmental Biology/Microbiology, or a related field, and a preferred minimum of three years post-doctoral experience. The candidate must have a proven record of research excellence and impact in nature-based water treatment, must have skills or abilities applicable for intelligent monitoring/control/automation of water treatment systems and must have skills or abilities applicable for the treatment of waterborne pathogens/AMR. The candidate will have demonstrated potential to: collectively establish an internationally recognised research program; align with the strategic direction of the university (<https://www.uoguelph.ca/president/strategic-plan/>) and align with the CERC on Waterborne Pathogens (<https://www.cerc.gc.ca/chairholders-titulaires/index-eng.aspx>); attract, develop and retain excellent trainees/students/researchers; lead a team which commits to Equity, Diversity and Inclusion (EDI) practices; teach undergraduate and graduate courses in water and environmental sciences; and, provide service to SES, UoG and the wider community.

The School of Environmental Sciences is a collegial, inclusive, and welcoming environment that values diversity and wellness among our members as key ingredients in our collective success. The University of Guelph resides on the traditional lands and territory of the Anishinaabeg, Haudenosaunee and Huron Wendat. These lands are now home to a rich diversity of First Nations, Inuit and Métis people. We offer our respect and gratitude to our Indigenous neighbours and affirm our responsibility to realize our commitments to reconciliation through ongoing action. We are guided in this work by [Bi-Naagward | It Comes into View](#)

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, the Indigenous Initiatives Strategy.

The University of Guelph is the third largest employer in Guelph, a city of over 144,000 people, located about an hour drive west of Toronto, Ontario. University of Guelph is a top-ranked comprehensive university in Canada with an enrolment of more than 30,000 undergraduate and graduate students across more than 40 academic units. The University is known for its commitment to student learning, innovative research, and collaboration with world-class partners. It is a unique place, with transformative research and teaching and a distinctive campus culture. People who learn and work here are shaped and inspired by a shared purpose: To Improve Life. Reflecting that shared purpose in every experience connected to our university positions us to create positive change, here and around the world. Our University community shares a profound sense of social responsibility, a drive for international development, and an obligation to address global issues.

Application Process

If you are a current employee of the University of Guelph you must apply on the internal Career Page to be considered as an internal applicant. [SuccessFactors: Career Opportunities \(sapsf.com\)](https://sapsf.com)

Assessment of applications will begin on **April 14, 2025** and will continue until the position is filled. Interested applicants should create an account on <https://careers.uoguelph.ca/> and apply for the advertised faculty position (**Requisition ID #1115**) by submitting the following materials (in an integrated Single PDF file):

- (1) a cover letter outlining how the applicant is suited to the position;
- (2) a curriculum vitae;
- (3) a vision statement for teaching (max. 2 pages),
- (4) a vision statement for research (max. 2 pages),
- (5) an EDI statement to describe the strategies that you will use to foster inclusion and support a diverse community in your research program and classrooms (max. 1 page)
- (6) contact details for three referees.

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Applications should be addressed to the attention of:

Prof. David McCarthy

Canada Excellence Research Chair in Waterborne Pathogens

School of Environmental Sciences

University of Guelph

Guelph, ON N1G 2W1

Questions about this position may be directed to David McCarthy at david.mccarthy@uoguelph.ca.
Applications must be submitted through the online career portal.

APPLY ONLINE -[Assistant Professor in Smart, Nature-based Treatment of Waterborne Pathogens](#)

All qualified applicants are encouraged to apply.

This position is represented by the University of Guelph Faculty Association ([UGFA](#)).

The University of Guelph commits to fostering inclusive excellence through promoting Indigenization, equity, diversity, inclusion, and accessibility. Inclusion is a core pillar of [Our Time](#), our strategic plan, which pledges to “transform our human resources, governance and student services and practices across the University to enable us to recruit a diverse student, faculty and staff body and support them in achieving their personal, professional and scholarly goals.” The University commits to creating and maintaining “equitable work environments that empower us in our pursuit of student, faculty and staff success, research excellence, innovation and impact.”

The University of Guelph invites applications from all qualified individuals. We strongly welcome and

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encourage applications from members of designated groups in employment, including Indigenous persons, persons with disabilities, racialized persons, women, and 2SLGBTQIA+ persons.

The University of Guelph recognizes that career paths can be diverse and career interruptions may occur. We encourage applicants to note in their applications whether they would like considerations given to the impact of any circumstances, such as (but not limited to) those due to health and/or family reasons, that may have affected an applicant's record of achievement. You are not required to disclose these circumstances in the hiring process. If you choose to do so, the University will ensure that these circumstances do not negatively impact the assessment of your qualifications for the position.

The University of Guelph is committed to ensuring all applicants have fair and equitable participation in the hiring process. If you anticipate needing accommodations during the recruitment or selection processes, confidential assistance is available on request by contacting Occupational Health and Wellness at 519-824-4120 x52674. If you have any questions regarding accommodations or accessibility during the hiring process or for more information and support, please visit the University's [Occupational Health and Wellness](#) or contact OHW at ohw@uoguelph.ca.

Contact Information

Please reference Academickeys in your cover letter when applying for or inquiring about this job announcement.

Contact David McCarthy
 School of Environmental Sciences
 University of Guelph
 Guelph, ON
 Canada

Contact E-mail david.mccarthy@uoguelph.ca