

graduate studies in **water** »

COLLABORATIVE WATER PROGRAM



UNIVERSITY OF
WATERLOO





Cover image: Great Lakes water feature in the Centre for Environmental and Information Technology at the University of Waterloo. 💧

JOIN US IN INTERDISCIPLINARY WATER EDUCATION AND THOUGHT LEADERSHIP

Global water issues are becoming increasingly complex and often require a collaborative approach across a breadth of disciplines. Game-changing research on the global water cycle, the blue economy, watershed management, urban water systems and other themes requires a cross-disciplinary mindset and vernacular. The ability to connect dots and creatively problem-solve will distinguish the water thought-leaders of tomorrow. The Collaborative Water Program's 20 master's and doctoral programs give you specialist expertise in your field, matched with the knowledge and skills required to communicate across disciplines and within interdisciplinary teams.

THE COLLABORATIVE WATER PROGRAM ADVANTAGE

- » Study at the University of Waterloo — Canada's leading research university.
- » Be inspired to innovate, immersed in the rich entrepreneurial culture of Canada's leading innovation university.
- » Choose from 20 master's and doctoral programs in 10 home departments.
- » Gain disciplinary expertise in your home department.
- » Work in interdisciplinary teams with students from other departments in collaborative courses.
- » Join a program that is diverse and collectively comprehensive, creating a dynamic research and learning environment.
- » Be mentored by award-winning faculty, leading the way in water research.
- » Grow and learn with your peers, the brightest from around the world, who share your passion for water research.
- » Access scholarships through the Water Institute's partnerships with the RBC Foundation. 

the most multidisciplinary GRADUATE WATER PROGRAM IN CANADA



DISCOVER GRADUATE STUDIES AT CANADA'S

COMPREHENSIVE RESEARCH UNIVERSITY

SOURCE: Research Infosource Inc.

#1



THE UNIVERSITY OF WATERLOO IS RANKED ONE OF THE

TOP 10 BEST WATER RESEARCH INSTITUTIONS IN THE WORLD

SOURCE: Lux Research Inc., Top Academics and Institutions in Water Research 2013

RECEIVE INSPIRED TEACHING AND MENTORSHIP

Your instructors and mentors will span the over 140 faculty members involved in water research at Waterloo and the Water Institute. They represent international excellence and leadership in their fields and include a Canada Excellence Research Chair, 10 Canada Research Chairs, six fellows of the Royal Society of Canada, two Natural Sciences and Engineering Research Council of Canada (NSERC) Industrial Research Chairs and several University Chairs. 

CATALYZE YOUR RESEARCH WITH RBC WATER SCHOLARSHIPS



RBC Foundation
RBC Fondation

RBC water scholarships have helped many Collaborative Water Program students make an impact while pursuing their degrees. Recipients are selected by departments based on academic excellence and compatibility with program objectives. Approximately \$130,000 in scholarships are awarded to students annually. 

DEGREE REQUIREMENTS

- » Meet the requirements of your home department, including any specific courses, thesis or seminar milestones.
- » The Collaborative Water Program, coordinated and supported by the University of Waterloo's Water Institute, requires two core interdisciplinary courses. These provide fundamental multidisciplinary and interdisciplinary knowledge and complement your specialist courses and water-related research in your home department.

Integrated Water Management

Receive an overview of current issues and challenges in water research and management from a variety of disciplines, including water science, engineering, governance and economics. Acquire a broad knowledge base from various water-related fields. Develop connections with your peers, water researchers and professionals in other areas of study. Case studies demonstrate the complexity and opportunities for interdisciplinary water research and innovation, allowing collaborative exploration of ideas. Seminars, presentations and discussions with faculty and professionals from different disciplines introduce current research and practice.

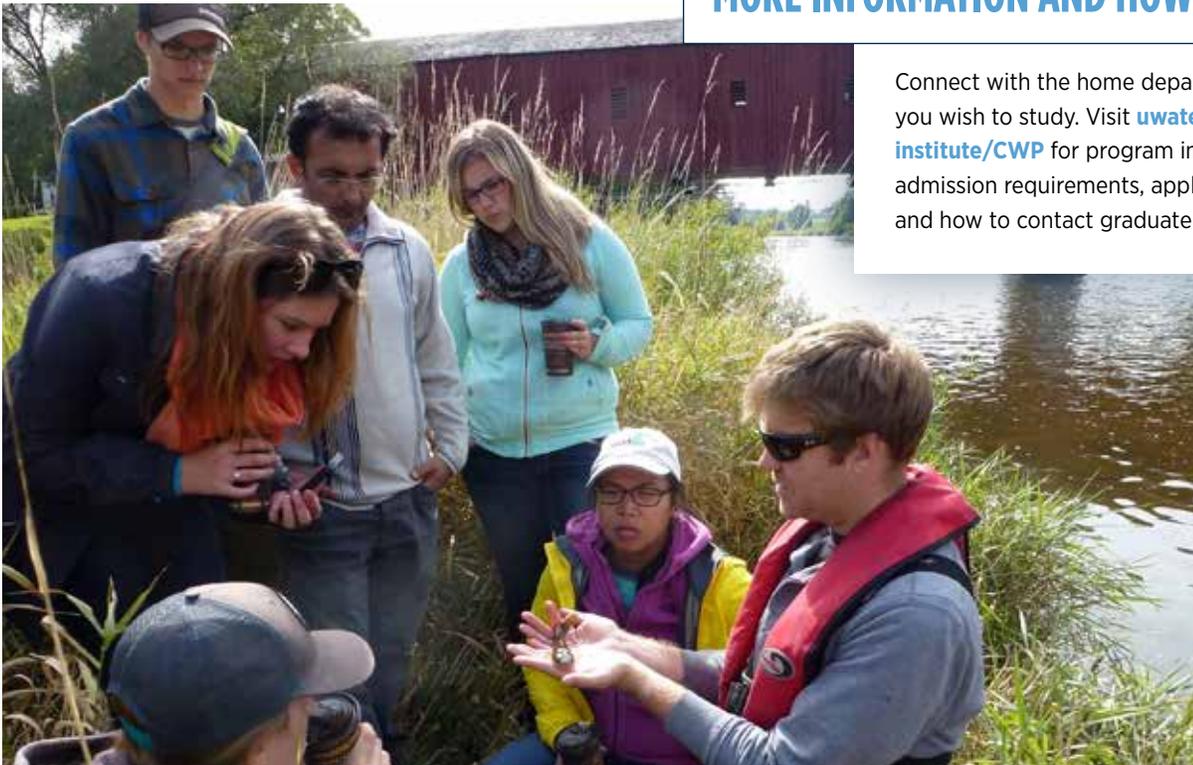
Integrated Water Project

Study the Grand River Watershed on a seven-day field trip, followed by one or two seminars. Examine specific watershed components, landscapes, infrastructure and conditions from interdisciplinary perspectives. Travel across the watershed and meet water practitioners, managers, scientists, volunteers and others concerned with watershed health, learning first-hand about watershed issues and management. Sample water, invertebrates and fish to explore how water quality and species assemblages change across watershed gradients. Complete a multidisciplinary group project and identify an approach to investigating an emerging watershed issue.

OTHER OPPORTUNITIES

- » Research seminar: Make a formal presentation on your research at an annual symposium or another designated event. This provides an opportunity to interact with a broad multidisciplinary audience that crosses all areas of research in the collaborative programs. 

Students in the Integrated Water Project course learn in the field on the Grand River in Ontario, Canada.



MORE INFORMATION AND HOW TO APPLY

Connect with the home department in which you wish to study. Visit uwaterloo.ca/water-institute/CWP for program information, admission requirements, application instructions and how to contact graduate coordinators. 

GO BEYOND A REGULAR DEGREE AND ADD A WATER QUALIFICATION TO YOUR DIPLOMA

The degree you earn will be that of your home department, with an adjunct Collaborative Water Program qualification added to your degree:

- » Doctor of Philosophy (PhD) in Applied Mathematics — Water
- » Doctor of Philosophy (PhD) in Biology — Water
- » Doctor of Philosophy (PhD) in Chemical Engineering — Water
- » Doctor of Philosophy (PhD) in Civil Engineering — Water
- » Doctor of Philosophy (PhD) in Earth Sciences — Water
- » Doctor of Philosophy (PhD) in Economics — Water
- » Doctor of Philosophy (PhD) in Geography — Water
- » Doctor of Philosophy (PhD) in Social & Ecological Sustainability — Water

- » Master of Applied Science (MASc) in Chemical Engineering — Water
- » Master of Applied Science (MASc) in Civil Engineering — Water
- » Master of Architecture (MArch) — Water
- » Master of Arts (MA) in Economics — Water
- » Master of Arts (MA) in Geography — Water
- » Master of Environmental Studies (MES) in Environment and Resource Studies — Water
- » Master of Environmental Studies (MES) in Geography — Water
- » Master of Environmental Studies (MES) in Sustainability Management — Water
- » Master of Mathematics (MMath) in Applied Mathematics — Water
- » Master of Science (MSc) in Biology — Water
- » Master of Science (MSc) in Earth Sciences — Water
- » Master of Science (MSc) in Geography — Water



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WATER INSTITUTE

The mission of the Water Institute is to facilitate collaboration, support excellence and promote innovation in interdisciplinary research and education, and to promote knowledge exchange in addressing complex water challenges. With over 140 faculty members, the Water Institute supports the University's innovative research, education, and training in water science, engineering, economics, and governance. In addition to coordinating and supporting the Collaborative Water Program, we also have a strong international network of collaborators and an established culture of commercialization and applied research, which promotes innovative and interdisciplinary solutions to practical problems. 💧

UNIVERSITY OF WATERLOO

In the heart of the Waterloo Region in Ontario, Canada, at the forefront of innovation, the University of Waterloo is home to world-changing research and inspired teaching. At the hub of a growing network of global partnerships, Waterloo will shape the future by building bridges with industry and between disciplines, institutions and communities.

Throughout its history, Waterloo has demonstrated a significant and consistent commitment to education and research on water-related topics and has garnered international acclaim for its innovative solutions to society's water problems.

**Ideas that will change the world
are at the heart of who we are.** 💧