## Ph.D. Map **FAOs**

### What do I need to know to apply?

### **ACADEMIC REQUIREMENTS**

Master's degree.

### **ADDITIONAL REQUIREMENTS**

• If English is not a native language, prospective students must meet the **TOEFL requirements** in writing, speaking, reading, and listening.

### **KEY DATES & DEADLINES**

- **Application deadline:** February 1.
- Notification of acceptance: as soon as possible after receiving the full

Before you start your application, please review the **Graduate studies application process.** 

### How do I find a supervisor?

We encourage you to identify an area of research interest and contact a potential supervisor before applying.

Visit the School of Environmental Studies website to read faculty profiles and learn more about faculty members' research areas. When you find a faculty member with similar research interests to yours, contact him/her and tell them about your interest in graduate work and related experience. This is also an opportunity for you to find out if the faculty member is accepting new graduate students to supervise. Meet with your potential supervisor at departmental events for prospective students.

### What about funding?

The minimum funding guarantee for Environmental Studies PhD students is \$20,000 per year, throughout years 1-4. This basic level of funding is pro-rated based on the duration of study. Your overall financial support will consist of graduate awards, external scholarships, internal fellowships and bursaries, teaching and research assistantships, research grants and/or support from the School of **Environmental Studies.** 

We encourage all students to apply for external funding from OGS, SSHRC and other sources. Queen's will automatically issue a \$10,000 award to winners of federal government tri-council awards for PhD studies. For more information, see the School of Graduate Studies' information on awards and scholarships.

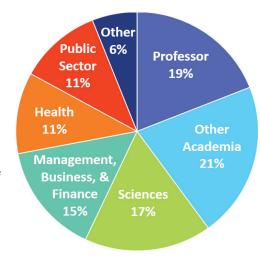


# Where Can a Graduate Degree Take Me?

A PhD in Environmental Studies can take your career in many directions. In Canada, less than 40% of all PhDs will work in post-secondary education – the majority will work in industry, government, or non-

- Environmental protection water quality, natural heritage planning, parks management, biodiversity conservation, wildlife management
- Conservation and management of **natural resources** – forestry, energy, aggregates, minerals and metals, natural resources management
- Environmental sustainability education, monitoring, restoration, communication and public awareness, sustainable development management, policy and legislation

Taking time to explore career options, build experience, and network can help you have a smooth transition to the world of work after graduation.



### **Ph.D Career Outcomes in** Canada

Edge, Jessica, and Daniel Munro. Inside and Outside the Academy: Valuing and Preparina PhDs for Careers, Ottawa: The Conference Board of Canada, 2015.



**ENVIRONMENTAL STUDIFS** 

School of Environmental Studies 613.533.6000 ext. 77531 pdb@queensu.ca www.queensu.ca/ensc



The PhD program meets a growing student demand for post-graduate training relevant to environmental careers in industry, government, to a strong market in Canada for professionals with environmentally related skills.

Studies is a hub for multidisciplinary collaborative research projects that focus on solving environmental issues. [The school] fosters well-rounded research projects, significant contributions to research, and highly-qualified *graduate students."* 

- Julie Adams, PhD







Whether you are considering or have embarked on graduate studies at Queen's, use this map to plan for success in five overlapping areas of your career and academic life. The map helps you explore possibilities, set goals and track your individual accomplishments. Everyone's journey is different – the guide offers options for finding your way at Queen's and setting the foundation for your future. To make your own customized map, use the online **My Grad Map** tool.

### Why **GRADUATE STUDIES** in ENVIRONMENTAL **STUDIES?**

The Earth's environment is under stress, and the search for solutions is anything but simple: It requires an interdisciplinary approach to problem-solving and education. Our program emphasizes the diverse contributions of the natural sciences, humanities, and social sciences to understanding and solving environmental

and non-governmental organizations. It responds

### Why **QUEEN'S?**

"The School of Environmental

The PhD program at Queen's University provides graduate level training in the field of Environmental Sustainability by practicing an interdisciplinary approach to the study of the



long-term dynamics, impacts and management of environmental change, the connections between today's decisions and tomorrow's wellbeing, and the strong dependence of human progress on environmental quality. This program provides opportunities for joint projects with many disciplines at Queen's and RMC, government agencies and partnerships with community organizations.

At Queen's, graduate students from all disciplines learn and discover in a close-knit intellectual community. You will find friends, peers and support among the graduate students enrolled in Queen's more than 130 graduate programs within 50+ departments & research centres. With the world's best scholars, prize-winning professional development opportunities, excellent funding packages and life in the affordable, historic waterfront city of Kingston, Queen's offers a wonderful environment for graduate studies.

### Why **KINGSTON?**

Environmental Studies Ph.D. Map

Described by students as both "quaint" and "eclectic," Kingston is big enough to provide all the conveniences of modern life, and small enough for students, staff, and faculty to feel instantly comfortable and at home.

Queen's is an integral part of the Kingston community, with the campus nestled in the core of the city, only a 10-minute walk to downtown with its shopping, dining and waterfront. For more about Kingston's history and culture, see Queen's University's **Discover Kingston** page.

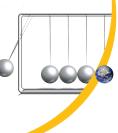
### **Program STRUCTURE**

PhD (4 years): seminars, original interdisciplinary research, readings, comprehensive examination, thesis, formal defense.

### **RESEARCH** Areas

- **Environmental Chemistry & Toxicology:** Analysis of chemicals, their pathways and fates in the environment, their effects on plants, animals, and humans, and remediation options.
- Ecosystem & Human Health: Application of a systems approach to understanding the impact of human activities on climate change, biodiversity, ecosystem functions and human health.
- Society, Culture & Economic Sustainability: Finding solutions to environmental problems and sustainable living involving the investigation of cultural, social and economic systems.





# Environmental Studies PH.D. MAP

	YEAR I	YEAR II	YEAR III	YEAR IV & TRANSITIONING
CHIEVE YOUR CADEMIC GOALS MAXIMIZE ESEARCH MPACT	<ul> <li>Key priorities include your relationship with your supervisor, forming your committee, coursework, field exams, and language exam.</li> <li>Look to <u>Student Academic Success Services</u> for a variety of supports.</li> <li>Attend and participate in graduate seminars such as ENSC 897: Seminars in Environmental Studies.</li> <li>Think about audiences for your research.</li> <li>Complete <u>ROMEO online module</u> on research ethics if doing research with living people or sensitive topics.</li> <li>Apply to SSHRC, OGS, and <u>other funding</u>.</li> <li>Attend conferences in your field.</li> </ul>	<ul> <li>Write and defend your thesis proposal.</li> <li>Embark on your substantive research.</li> <li>Find your way through the academic process with the help of Expanding Horizons.</li> <li>Attend or present at a graduate conference such as Water Initiative for the Future (WatIF).</li> <li>Present your work at graduate conferences, through professional associations, or topic conferences.</li> <li>Expand your research audience through social media.</li> <li>Take part in the Environmental Studies Research Day.</li> <li>Apply for the Graduate Dean's Travel Grant for</li> </ul>	<ul> <li>Continue to research and write your dissertation.         Check out the SGS <u>Dissertation Boot Camp</u> or <u>Dissertation on the Lake</u>.</li> <li>Attend the Expanding Horizons <u>Publishing workshop</u>.</li> <li>Take additional training through the Analytical Research Unit (ARU) on chemical analysis techniques or contamination remediation.</li> <li>Continue to present at conferences.</li> <li>Consider participating in the <u>3 Minute Thesis (3MT)</u> competition.</li> <li>Contact the <u>Queen's Media Centre</u> for guidance on speaking to news outlets about your work.</li> </ul>	<ul> <li>Complete and defend your dissertation.</li> <li>Continue to pursue publication options for your research.</li> <li>Continue to attend conferences and connect with scholars in your field and with community partners.</li> <li>Continue public outreach through social media and the Queen's Media Centre.</li> <li>Attend a major conference in your field, such as</li> </ul>
UILD KILLS AND XPERIENCE	<ul> <li>Serve on departmental, faculty or university committees. Talk to the school Graduate Chair about getting involved.</li> <li>Consider positions in student services, the SGPS, or media outlets like the Queen's Journal, CFRC, QTV and the SGS Blog. Look in the AMS Clubs Directory.</li> <li>Use a Teaching Assistant or Research Assistant position to develop your skills and experience.</li> </ul>	<ul> <li>Hone skills for non-academic employment by continuing involvement on committees and in the community.</li> <li>Start keeping an eportfolio of your skills, experiences and competencies.</li> <li>For help with teaching, get support from the <u>Centre for Teaching and Learning</u>. Enroll in <u>SGS901</u> or the <u>PUTL certificate</u> for more professional development in teaching and learning.</li> </ul>	<ul> <li>Begin teaching as a departmental Teaching Fellow.</li> <li>Find opportunities for extra training through CTL, Expanding Horizons, Mitacs, or other sources to boost your skills. Investigate internships from Mitacs and other sources.</li> <li>Prepare for work or studies in a multi-cultural environment by taking QUIC's Intercultural Competency Certificate.</li> </ul>	Practice articulating the skills you have been developing in settings outside the university, such as casual conversation, networking, and interviews. Get help with the Skills and Experience workshop.
NGAGE /ITH YOUR OMMUNITY	Consider volunteering with different community organizations such as the Commission of Environment and Sustainability.	Participate in your graduate and professional community through activities such as graduate student outreach programs, organizing conferences, and research groups like Material Matters.	Do some targeted networking with people working in careers of interest, through <u>QueensConnects</u> on LinkedIn, the <u>Queen's Alumni Association</u> , professional associations, and at conferences. Check out Career Services' <u>networking workshops</u> .	<ul> <li>Consider joining professional associations like the Ontario Environment Industry Association and the Canadian institute for Environmental Law and Policy.</li> <li>Join groups on LinkedIn reflecting specific careers or topics of interest.</li> </ul>
AUNCH YOUR AREER	<ul> <li>Finding career fit starts with knowing yourself. Take the <u>Career Services Career Planning workshop</u> or meet with a career counsellor for help. Check out books like <i>So What Are You Going to do With That?</i> for advice on various career options.</li> <li>Start reading publications like <u>University Affairs</u> and the <u>Chronicle of Higher Education</u> Browse pop-</li> </ul>	<ul> <li>Start building your teaching portfolio including student evaluations, and seeking mentorship.</li> <li>Explore different careers of interest by reading alumni profiles on the SGS website, and using QueensConnects on LinkedIn to connect with Queen's alumni, or find alumni in various careers through "Ask an Alum" For more information check.</li> </ul>	<ul> <li>Participate in hiring committees and attend job talks.     Research academic careers of interest. Craft your CV and job application materials.</li> <li>Start focusing on non-academic areas of interest.     Research organizations of interest and start putting together your industry resume and begin your job</li> </ul>	<ul> <li>Build connections with faculty outside of your department. Pursue interviews for faculty positions and apply for post-doc fellowships and positions.</li> <li>Apply to jobs or make plans for other adventures. Get help from Career Services with job searching, resumes, or interviews.</li> </ul>

### **EMPLOYABILITY SKILLS**

**Knowledge** and **technical skills** in area of specialization

**Communication**: effective and clear in written, oral and multimedia forms, for diverse audiences

Information management: prioritize, organize and synthesize large amounts of information

**Time management:** meet deadlines and responsibilities despite competing demands

**Project management**: develop ideas, gather information, analyze, critically appraise findings, draw and act on conclusions

**Creativity** and **innovation** to address complex, multifaceted challenges

**Perseverance** to work through challenges to achieve desired outcome

**Independence** and experience as a **collaborative** worker

**Awareness** and understanding of sound **ethical** practices, **social** responsibility, responsible research and cultural sensitivity

**Professionalism** in all aspects of work, research, and interactions

**Leadership**: initiative and vision leading people and discussions

- the **Chronicle of Higher Education**. Browse nonacademic labour market websites.
- Stay on the lookout for special events like **Graduate** Student Career Week to explore your career pathways.
- through "Ask an Alum". For more information check out Career Cruising.
- Investigate requirements for professional positions or other opportunities related to careers of interest.
- Check out the free online modules at MyGradSkills to help you plan your career.
- If considering jobs abroad, research possible immigration regulations. If you are an international student interested in staying in Canada, consider speaking with an **International Student Advisor**.