



Bachelors of **Environmental Practice**

PROGRAM GUIDE



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About **ECO Canada**

For over 25 years, ECO Canada has led the creation of career development resources and training programs for environmental practitioners in Canada. We study the environmental labour market and examine ways to improve industry access and career advancement opportunities for new graduates as well as mid- to senior-level practitioners.



Canadian Centre for **Environmental Education**

The Bachelor in Environmental Practice degrees are offered through the Canadian Centre for Environmental Education (CCEE).

ECO Canada and Royal Roads University are the founders of CCEE. It was created in accordance with the National Occupational Standards (NOS) for Environmental Employment. NOS refers to relevant competencies identified by industry experts as necessary for a particular occupation.

The CCEE's goal is to provide advanced education, training, and professional development tailored to the Canadian environment industry.

About the Bachelor in **Environmental Practice**

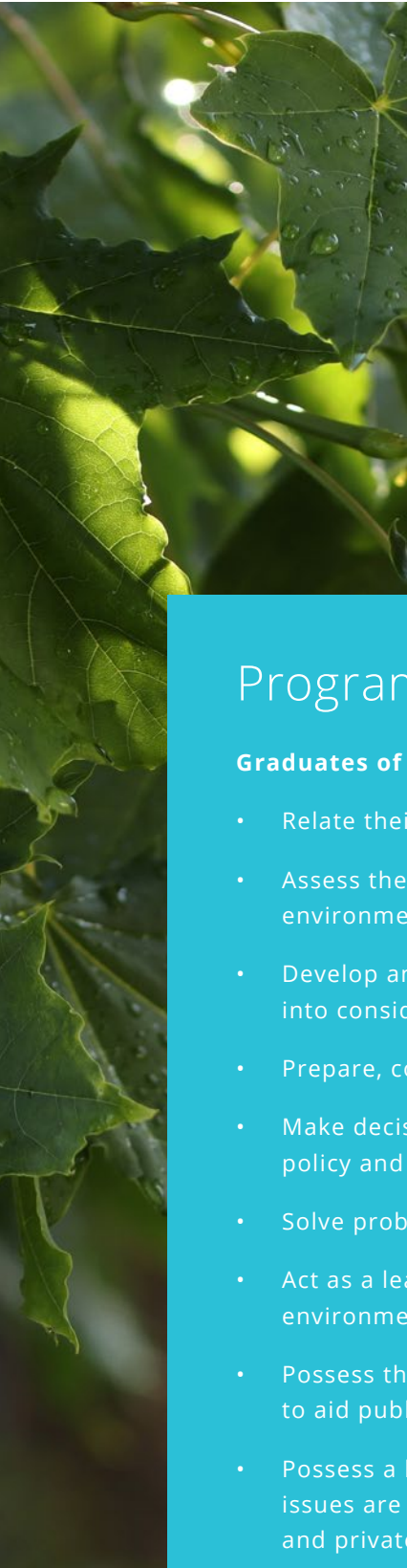
The Bachelor in Environmental Practice at Royal Roads University goes beyond the basics to build the skills, knowledge and next-level insight that you need for a successful environmental career.

The program offers two streams for you to choose from: Bachelor of Arts (BA) and Bachelor of Science (BSc.) in Environmental Practice. Each stream is uniquely designed to complement your academic background, career goals and interests.

The program is available online, giving you the flexibility to further your education without sacrificing time away from career and family. The program is customizable, and you can pick and choose from a wide variety of courses to tailor the learning that matches your areas of interest. Due to the online nature of the program, courses are taught by instructors from across Canada, thus accessing a diverse group of scholar practitioners.

With this degree, you acquire more than a practical, workplace-ready environmental skillset grounded in critical thinking and theory – this program is the only undergraduate degree in Canada delivered in partnership with ECO Canada.





The Bachelor in Environmental Practice at Royal Roads University is a 60-credit program. Whether you choose the BA or BSc stream, you will be required to complete up to 10 required **core courses** and select up to 9 **electives** from various institutions. To demonstrate your learning and understanding of the topics covered in this program, you will complete either a 75-hour practicum or major research paper, both of which are developed with the guidance of your instructor and involve regular progress check-ins. Your practicum begins with a project proposal, developed between you, your workplace supervisor and your instructor.

Program **Outcomes**

Graduates of the BA/BSc in Environmental Practice will be able to:

- Relate their knowledge to environmental issues in their work environment
- Assess the environmental and socio-economic elements of sustaining a healthy environment and societal well-being as an environmental practitioner
- Develop and evaluate goals, objectives and strategies, taking a range of perspectives into consideration
- Prepare, communicate and implement action plans
- Make decisions that require a broad understanding of environmental knowledge, policy and regulation, and leadership skills
- Solve problems effectively in differing workplace situations
- Act as a leader who can meet the fundamental challenges of addressing complex environmental issues
- Possess the skills and knowledge to coordinate and integrate different perspectives to aid public and private bodies in making informed decisions
- Possess a broad environmental vision and a sound understanding of how environmental issues are addressed under different jurisdictions and the dynamics of both public and private sectors

Why Choose **Royal Roads University**?

Royal Roads University will give you the tools, training and connections to help you succeed in your degree program and prepare you for the career of your dreams.

RANKED #1

Royal Roads University has ranked as the #1 public University in Canada for Active and Collaborative Learning (NSSE 2013) and the #1 public University in Canada for Level of Academic Challenge (NSSE 2013).

NEW WORLD, NEW MODEL

At Royal Roads University, it's not just one thing that makes us different. It's the powerful combination of how we do things differently. It starts with our flexible admission. It runs through our unparalleled educational environment, on campus and online. It shines in our unique learning model. All of this is what defines the RRU experience. And sets us apart.

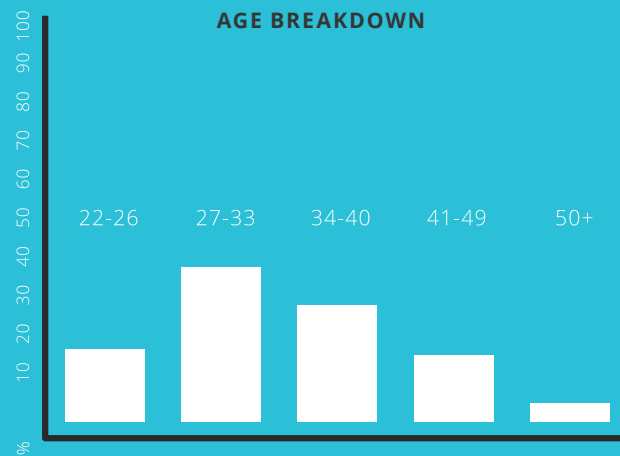
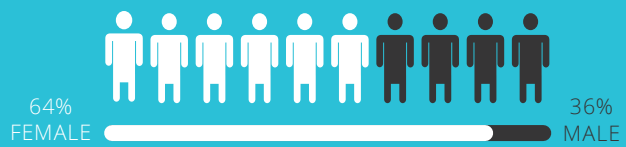
A CHANGE-YOUR-LIFE EXPERIENCE

The Royal Roads University educational approach isn't just about deep knowledge subject matter, but an even deeper knowledge of self. A Royal Roads education not only provides graduates with practical skills to propel their careers, it also enables personal transformations to help create better people, not just better professionals.



ROYAL ROADS UNIVERSITY STUDENT PROFILE:

The Bachelor in Environmental Practice program attracts students from all age groups and demographics.



Employment Outcomes for Environmental Graduates

THE FUTURE OF THE ENVIRONMENTAL SECTOR IN CANADA

With nearly a quarter of the current workforce expected to retire in the next decade and an increase in the demand for jobs in industries that require environmentally-related roles, now is the time to obtain your degree in this field of study and pursue your goal of working in the environmental sector.



**NEARLY 1 IN 4 WORKERS ARE EXPECTED
TO RETIRE IN THE NEXT 10 YEARS**

100,000

**ADDITIONAL WORKERS WILL BE NEEDED
TO FILL THE GAP BY 2024**

12%

**INCREASE IN JOB POSTINGS FOR ARTS-BASED
ENVIRONMENTAL JOBS**

1/5

**OF EMPLOYERS EXPRESSED
DIFFICULTY HIRING FOR:**

- SCIENCE (ENVIRONMENTAL TECHNICIANS)
 - ENVIRONMENTAL CONSULTING
 - MANAGEMENT (SR. LEVEL PROJECT MANAGERS)
 - COMMUNICATIONS (CAMPAIGNERS, INDIGENOUS LIAISONS)
 - RESEARCH (CLEAN ENERGY, ENVIRONMENTAL MONITORING)
-

ARTS-BASED DEGREES & THE ENVIRONMENT

There has been an increase in the need for arts-based environmental roles in areas of specialization including:

Communications & Awareness
Education & Training
Research & Development
Policy & Legislation



SCIENCE-BASED DEGREES & THE ENVIRONMENT

Traditional environmental roles requires a background in technical and scientific knowledge. Some key areas of specialization include:

- Site Assessment & Reclamation
- Hazardous Waste Management
- Environmental Research & Analysis



KEY DRIVERS FOR EMPLOYMENT

Understanding industry trends and challenges can help you to determine your future career path.

Whether you choose the Bachelor of Arts or Bachelor of Science stream, the skills you gain through each program can shape the type of role you will play once you join the workforce.

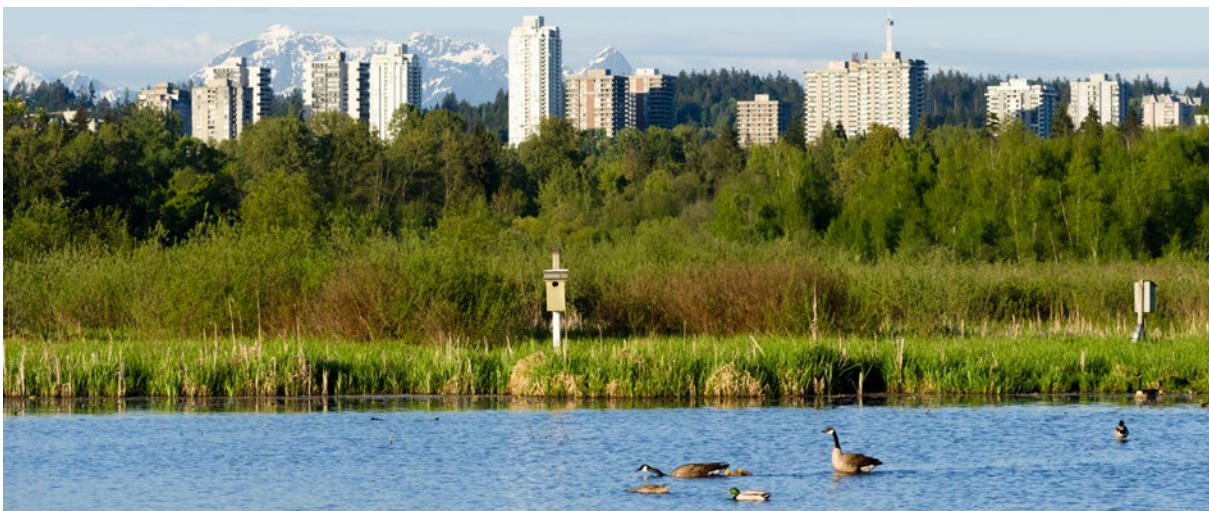
IN-DEMAND AREAS

- 1 Growing public awareness and interest is creating a demand for environmental education
- 2 Development of legislation, regulation and policies to address climate change, renewable energy and other issues

Environmental Job **Specializations**

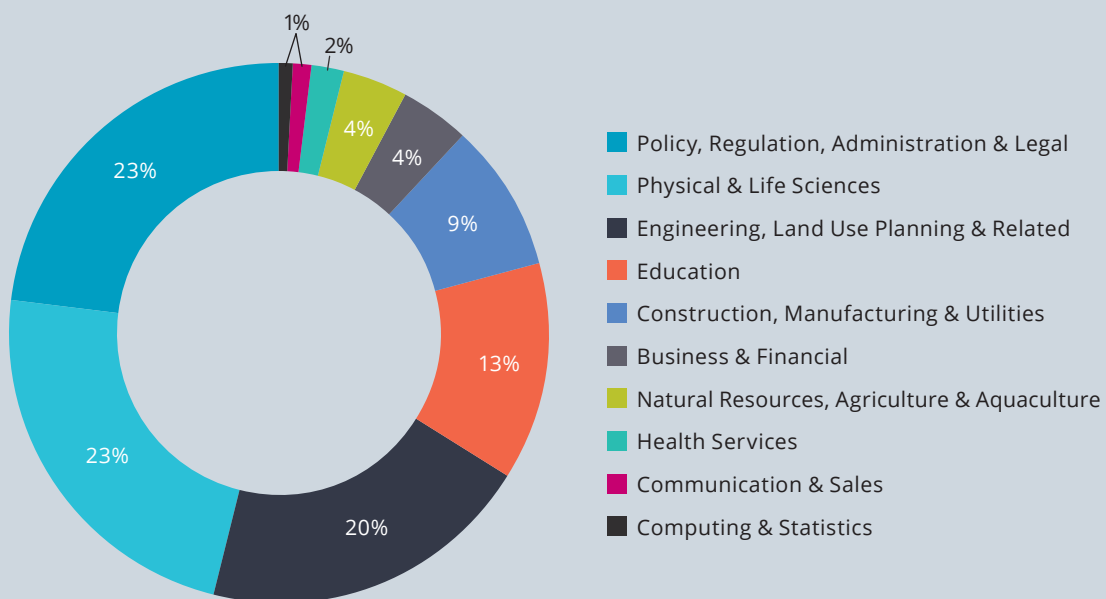
14 specializations make up the Environmental Sector:

1. AIR QUALITY
2. WATER QUALITY
3. SITE ASSESSMENT & RECLAMATION
4. WASTE MANAGEMENT
5. HEALTH & SAFETY
6. ENERGY
7. FISHERIES & WILDLIFE
8. NATURAL RESOURCE MANAGEMENT
9. SUSTAINABILITY
10. EDUCATION & TRAINING
11. RESEARCH & DEVELOPMENT
12. POLICY & LEGISLATION
13. COMMUNICATIONS & PUBLIC AWARENESS
14. ENVIRONMENTAL MANAGER



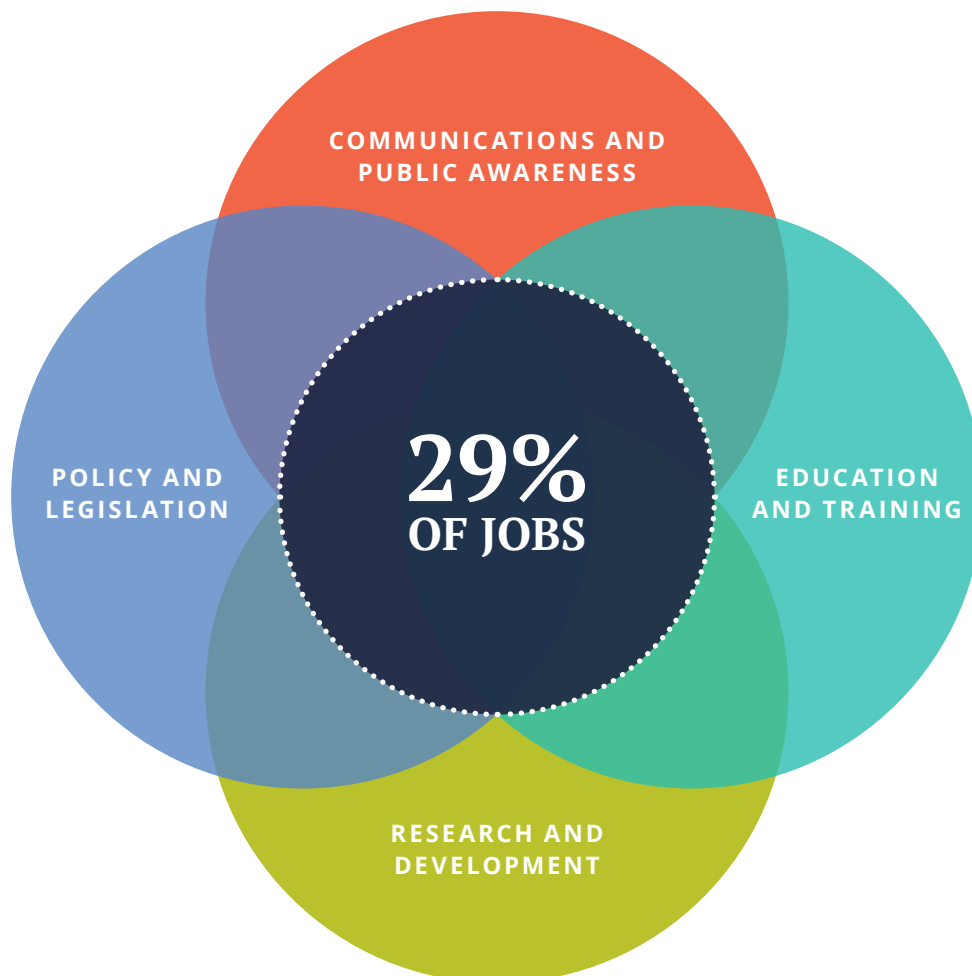
Core Labour Force in Combined Specializations

57,000+ CORE ENVIRONMENTAL WORKERS
SPECIALIZE IN AT LEAST ONE OF
THE FOLLOWING 10 AREAS:



Source: ECO Canada Environmental Employment Outlook

Those with an arts-based background make up at least 29% of occupations.



STEP UP IN YOUR CAREER

The current employment trends will leave a gap that emerging professionals will have the opportunity to fill and to step into these high-demand roles.

Becoming a part of the environmental workforce takes the right education, training and skills to succeed. The Bachelor in Environmental Practice was designed to meet the challenges facing employers in Canada and beyond, and to give graduates the knowledge and insights required to begin a career in Canada's burgeoning environmental sector and related industries.



Types of Occupations for Environmental Professionals

COMMUNICATIONS AND PUBLIC AWARENESS

Environmental Planner

Communications Manager

Plant Manager

Economist

Process Engineer

Business Analyst

POLICY AND LEGISLATION

Policy Analyst

Compliance Specialist

District Planner

Regulatory Specialist

Environmental Specialist

Lawyer

RESEARCH AND DEVELOPMENT

Quality Control Specialist

Environmental Scientist

Research Technician

Clean Energy Researcher

Environmental Engineer

Fisheries Biologist

EDUCATION AND TRAINING

Professor

Indigenous Liaison

Interpreter

Park Manager

Field Support Specialist

Safety Officer

Soft Skills **in Demand**

PROJECT MANAGEMENT



COMMUNICATION



REPORT WRITING



COLLABORATION



LEADERSHIP



ATTITUDE



Technical Skills **in Demand**

POLICY & LEGISLATION #1



INDUSTRY KNOWLEDGE



SITE ASSESSMENT & RECLAMATION



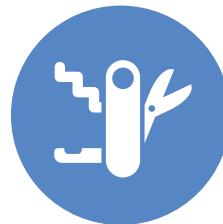
SUSTAINABILITY



CLIMATE CHANGE



GENERALISTS



BA/BSc: **Who it's for**

BACHELOR OF ARTS

The BA program is for those with:

- A belief in decision-making where sustainability is given due value
- An understanding that environmental problem-solving requires a holistic approach/resolution as processes are inherently complex
- A desire to make a difference and contribute to the greater good
- Big-picture thinking that can articulate and communicate ideas clearly
- Self-discipline (program is delivered entirely online)

Potential career interests: environmental policy, health, administration, governance, law or politics

BACHELOR OF SCIENCE

The BSc program is for those with:

- A strong interest in scientific applications of technology
- A desire to effect sustainable change and improve/streamline processes via fact or logic
- A strong interest in conducting scientific research and analysis of environmental impact
- Self-discipline (program is delivered entirely online)

Potential career interests: environmental impact assessment, pollution prevention, hazardous waste management, climate change, biodiversity, technology or geomatics

These two streams are designed for individuals with a broad awareness of current and potential environmental issues; big-picture thinkers interested in developing their critical thinking ability and environmental knowledge. They are also designed for individuals who are process-driven, interested in environmental regulation, remediation, sustainable energy management and more.

Program **Delivery**

BACHELOR IN ENVIRONMENTAL PRACTICE

The Bachelor in Environmental Practice at Royal Roads University is delivered entirely online to meet your flexible education needs, and leverages partnerships with universities and colleges across Canada to provide a wide upper-level elective offering. This program is for self-motivated learners, is 60 credits in length and can be completed in as little as two and a half years, depending on your schedule and applicable transfer credit(s).

The workload is approximately 18-25 hours per week.



Program Curriculum

The Bachelor of Arts and Bachelor of Science streams require students to complete a maximum of 10 core courses and choose a maximum of 9 elective courses. Students may also choose electives from a variety of post-secondary institutions. [Learn more.](#)

- Statistical Literacy and Critical Thinking
- Introduction to Environmental Law
- Tools for Business Decision Making
- Sustainable Development: Ideas and Applications
- Communications Skills: Writing in the Workplace
- Global Processes
- Environmental Management Tools
- Environmental Economics
- Public Policy Formulation
- Leadership and Management for Environmental Practitioners
- Ethics and Environment

Elective requirements differ depending on your choice to complete either the 75-hour practicum or research paper:

- Students completing the practicum: nine electives (27 credits)
- Students completing the research paper: eight electives (24 credits)

Students must complete at least 21 core credits before enrolling in electives. You may take one 3-credit course from the elective list in the opposite stream. Electives are taught at a variety of post-secondary institutions. [Click here](#) to see the complete list of elective courses offered at various institutions.

PROGRAM CAPSTONE

To demonstrate your learning and understanding of the topics covered in this program, you will complete either a 75-hour practicum or research paper, both of which are developed with guidance from your instructor and involve regular progress check-ins. Your practicum begins with a project proposal, developed between you, your workplace supervisor and your instructor, and in addition to maintaining a journal to document your experience, you'll be required to schedule and plan all parts of your project. The research paper requires a literature review and appropriate research, progress reports and a draft for instructor approval prior to submitting your completed work.

Tuition **Fees**

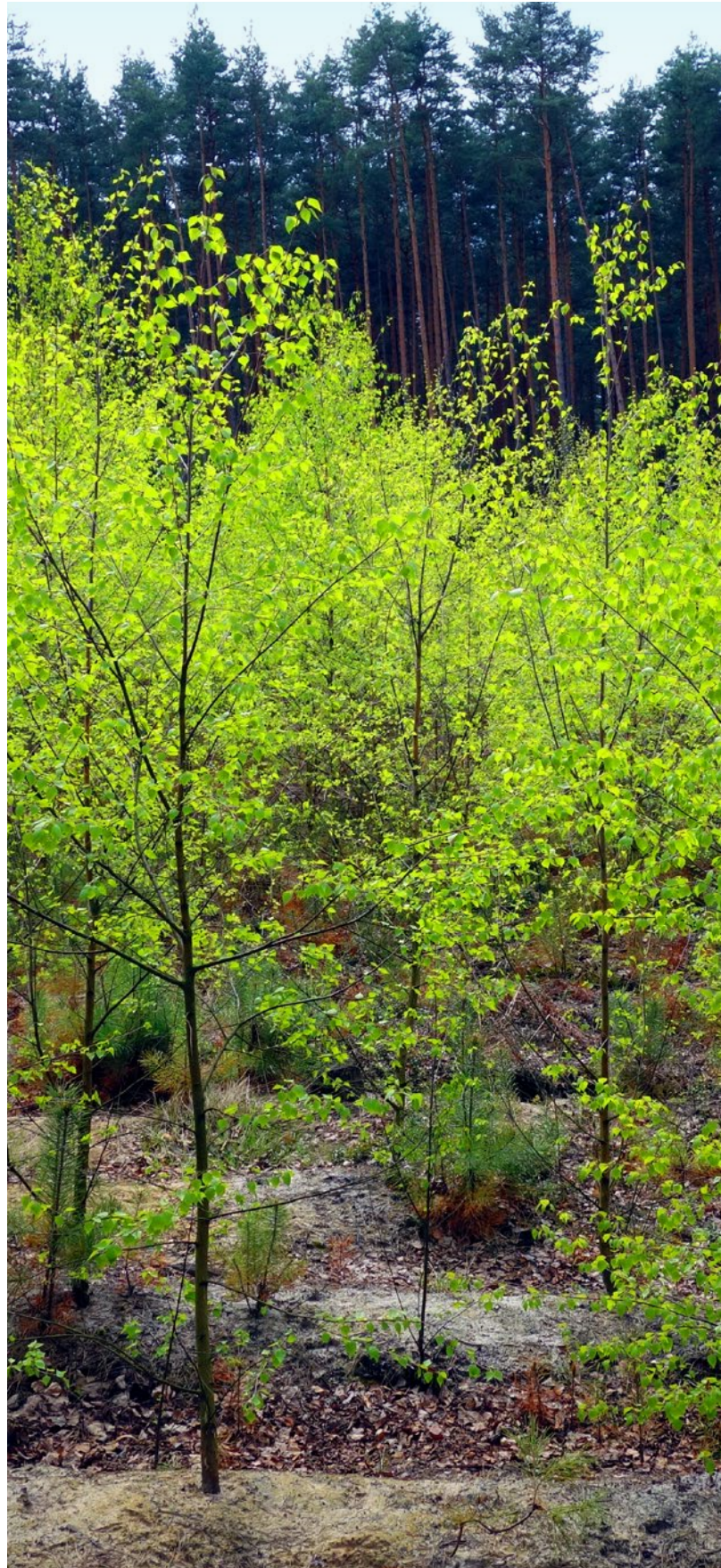
Total tuition fees for Bachelor of Arts and Bachelors of Science in Environmental Practice are listed on the Royal Roads University website. [Click here](#) to view the broken down cost.

Financial **Aid**

Financial planning is a crucial component of early educational planning. The Financial Aid & Awards team can provide information and support on a variety of funding sources and award opportunities. [A variety of loans, awards, bursaries and scholarships](#) are available to fund your studies.

LOANS

A variety of loan options are available to Royal Roads University students including Government Student Loans, Bank Loans, Student Line of Credit, \$5,000 Interest-Free Loans and Emergency loans. [Learn more.](#)





Upcoming **Program Intake Dates**

Check the Royal Roads University website for the most up-to-date information:

- Bachelor of Arts in Environmental Practice [start dates and schedule](#)
- Bachelor of Science in Environmental Practice [start dates and schedule](#)



Standard Admission **Requirements**

BA IN ENVIRONMENTAL PRACTICE

- Minimum of 60 post-secondary arts or science credits, with a minimum grade 'B' (3.00/4.33 GPA), from a recognized post-secondary institution; or
- Previous completion of the Certificate in Environmental Practice (CEP) program at Royal Roads University, with a minimum grade 'B' (3.00/4.33 GPA)

BSc IN ENVIRONMENTAL PRACTICE

- Minimum of 60 post-secondary arts and/or science credits (18 must be science credits, nine of which must be at the second-year level), with a minimum grade 'B' (3.00/4.33 GPA), from a recognized post-secondary institution; or
- Previous completion of the Certificate in Environmental Practice (CEP) program (18 must be science credits, nine of which must be at the second-year level) at Royal Roads University, with a minimum grade 'B' (3.00/4.33 GPA).

FLEXIBLE ADMISSION

- Applicants who have the required 60 post-secondary credits, but who don't meet the minimum GPA requirement, should have at least 3 years of relevant work experience.

ENGLISH LANGUAGE PROFICIENCY

- If English is not your primary language, please review our [English Language Requirements](#).



Ready to Start Your **Application?**

Embarking on higher studies can be both exhilarating and nerve-wracking. Get in touch with Royal Roads University Admissions Team to guide you on the next steps.

Contact **Us**

If you have questions or would like help to better understand the programs or admission requirements, Royal Roads University is here to help:



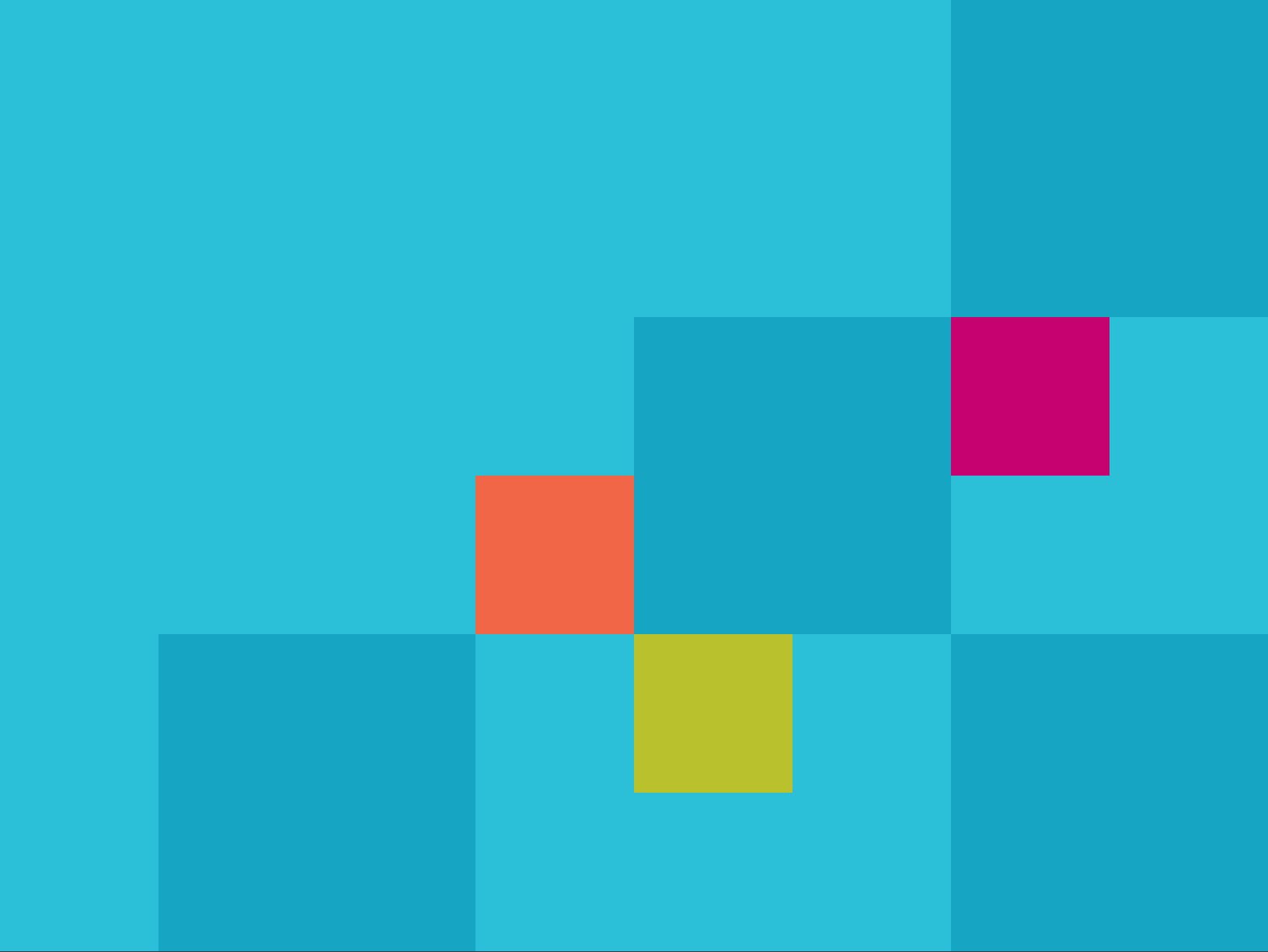
Call Us — 1.877.778.6227



E-mail us — learn.more@royalroads.ca



Visit — royalroads.ca/environment



We want to hear from you.
Contact Royal Roads University to learn more.

1.877.778.6227

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