



NATURAL RESOURCES TECHNOLOGY







Interested in the environment and a career outdoors?
NRT is the program for you!

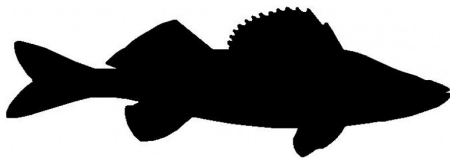
The NRT program

The Natural Resources Technology (NRT) program is for individuals who not only love the outdoors, but who have a strong interest in environmental sustainability. Graduates are equipped with the tools and the attitude to challenge the world's most current and crucial environmental issues.

The NRT program emphasizes the importance of stewardship of the natural resources that surround us. Students learn about the importance of cooperative planning and management of environmental resources with communities and organizations while using industry standard equipment and software in a hands-on learning environment.

In addition to graduating with a Diploma from Portage College, the students also receive certification in:

- ATV Operator
- Chainsaw (WTA)
- Petroleum Safety Training
- Trailering & Load Securement
- Wilderness Skills
- Bear Awareness
- Transportation of Dangerous Goods (TDG)
- Workplace Hazardous Information System (WHMIS)
- Pesticide Applicator's Assistant License
- Ground Disturbance
- St. John's Standard First Aid
- Electrofishing



COURSES

Year One

- NRES 105 - Communications
- NRES 106 - Introduction to Soils
- NRES 107 - Water and Wetlands
- NRES 108 - Field Botany
- NRES 109 - Mapping and Navigation
- NRES 110 - Weeds and Weed Control
- NRES 111 - GPS/GIS and Aerial Photo Interpretation
- NRES 112 - Introductory Fish and Wildlife
- NRES 113 - Forest Land Management
- NRES 114 - Industry Certifications
- NRES 115 - Fisheries
- NRES 120 - Work Experience

Year Two

- BIOL 208 - Principles of Ecology
- EASC 101 - Introduction to Earth Sciences: Geology and Geomorphology
- NRES 202 - Environmental Planning
- NRES 203 - Wildlife Techniques
- NRES 204 - GPS Site Assessment
- NRES 205 - Petroleum Land Management
- NRES 206 - Soil Conservation
- NRES 207 - Environmental Law
- NRES 208 - Global Issues
- NRES 210 - Reclamation
- NRES 233 - Statistics and Data Management

For detailed course descriptions, please visit www.portagecollege.ca

A man wearing a black cap, sunglasses, and a high-visibility orange and yellow life vest is in a large body of water. He is smiling and pulling a white net that extends across the water's surface. The background shows a clear blue sky and a distant shoreline with trees and buildings.

GET AN OFFICE
WITH A VIEW

NATURAL RESOURCES TECHNOLOGY



CHART YOUR COURSE



Transferability

There are multiple transferability options available to program graduates wishing to continue on with their educational journey.

Transferability to other institutions may be done on a course-by-course basis. Students are always encouraged to speak with their student advisor regarding transferability.

TRANSFER AGREEMENTS

- **University of Alberta:** transfer of 54 credits into the Bachelor of Science (BSc) Environmental and Conservation Sciences (Conservation Biology major or Land Reclamation major)
- **University of Alberta - Augustana Campus:** transfer into Bachelor of Science (BSc) of Environmental Sciences program on a course by course basis
- **Lethbridge College:** transfer into the third year of the Bachelor of Applied Science in Ecosystem Management, Restoration or Fish and Wildlife Management
- **Lethbridge College:** transfer into Bachelor of Applied Science Conservation Enforcement, bridging year
- **Lakeland College:** transfer into the third year of the Bachelor of Applied Science: Environmental Management
- **University of Prince Edward Island:** transfer into Bachelor of Science (BSc) of Wildlife Conservation

* A minimum grade of a C- is required for transfer.

Experience

TRAINING

Located in the heart of the boreal forest in Lac La Biche, Alberta, the NRT program uses hands-on training, up-to-date equipment and software, and experienced instructors to prepare students to start their career right out of school.

In the NRT program, you will learn about the 5 main components of the environment: water, fish and wildlife, soil, air and plants to become better land managers.

Water

In the water component, students learn how to:

- Classify and map wetlands, lakes and streams
- Assess wetland and lake health
- Collect water samples from lakes and streams
- Clean up spills in waterways
- Calculate flow rates of streams

Fish and Wildlife

Our wildlife component covers:

- Bird, fish, mammal, reptile and amphibian ID and ecology
- Collection of various biological samples (scales, DNA, teeth)
- Capturing, handling, marking, tracking and habitat data
- Fish hatchery operations

Soil

Our courses about soil cover:

- How to identify soil horizons, hand texturing and origins
- Rocks and landforms
- Measuring soil stockpiles and gravel sources
- Road engineering
- Addressing soil contamination
- Reclamation and mapping
- QA/QC sampling technique
- Design and implement erosion control measures

Air

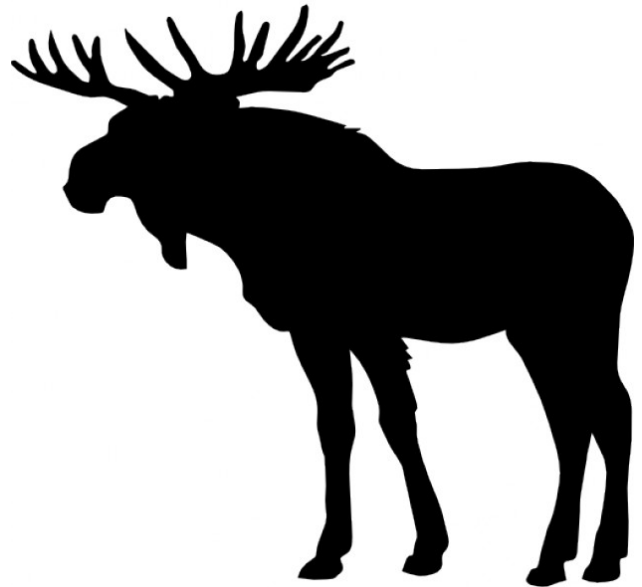
Students will learn how to do the following:

- Measure and monitor air pollutant levels
- Identify types of air pollution
- Identify potential pollution sources
- Gain awareness of human effects
- Utilize alternative energy sources

Plants

Students will learn how to:

- Perform vegetation assessments
- Work within Alberta's legal framework
- Classify plants in the field
- Traditional land use assessments and First Nations consultation





EMBRACE THE OUTDOORS

NATURAL RESOURCES TECHNOLOGY

Equipment needed

Our labs take place in all seasons and in all types of weather. Proper equipment is essential for your safety and mandatory for all students. The personal equipment you will need includes:

- Fire retardant coveralls with high visibility reflective tape
- Steel-toed boots (rubber preferred)
- Surveyors vest (red preferred) with high visibility reflective tape
- Steel toe winter boots (good to -40° C)
- Winter outer gear (good to -40° C)
- A wicking underwear layer
- Rain gear, coat and pants (construction grade example HH)

Accreditation

Graduates qualify to article for:

- R.T. Ag - gives you sign-off authority for environmental projects
- NAWTA - NRT is an accredited Wildlife Program



North American Wildlife Technology Association

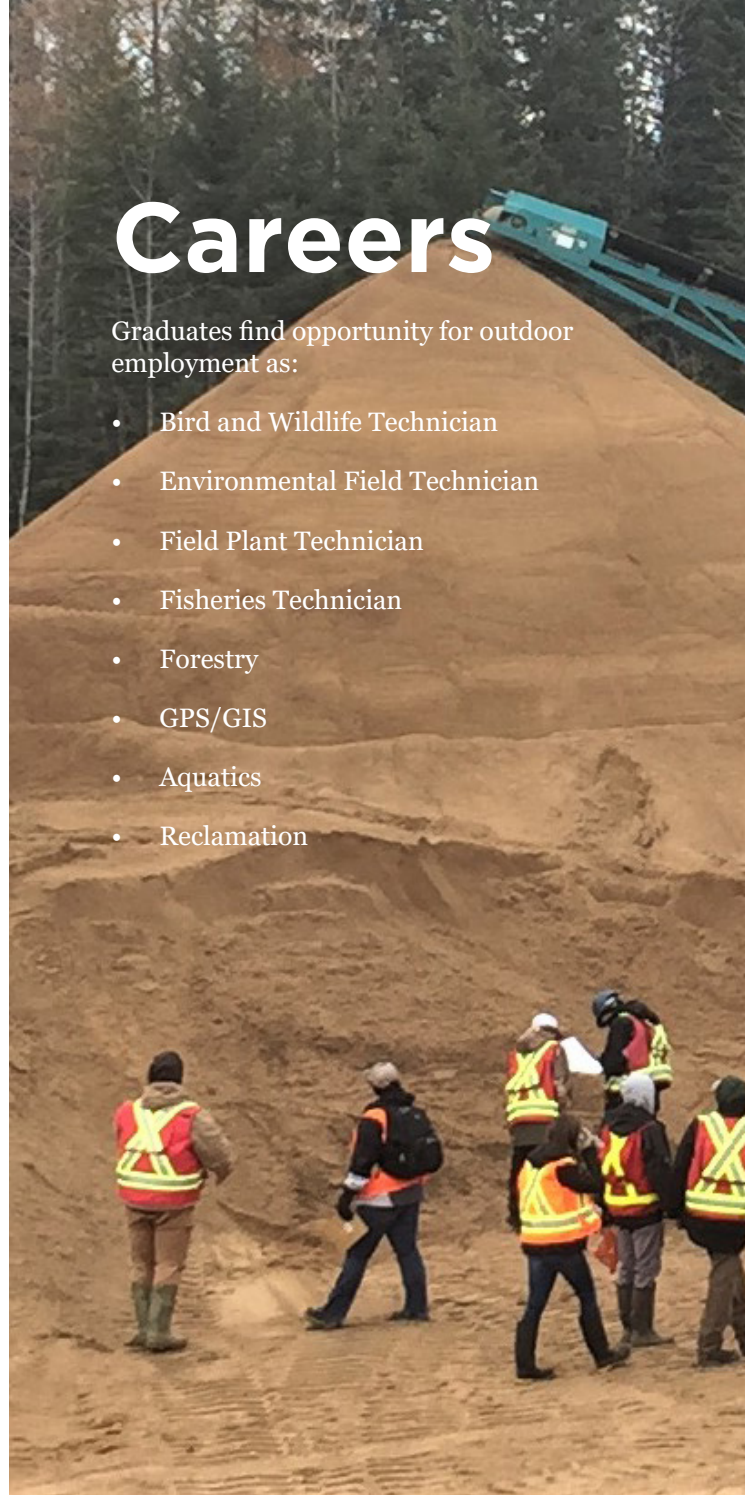


ALBERTA INSTITUTE OF AGROLOGISTS

Careers

Graduates find opportunity for outdoor employment as:

- Bird and Wildlife Technician
- Environmental Field Technician
- Field Plant Technician
- Fisheries Technician
- Forestry
- GPS/GIS
- Aquatics
- Reclamation





HANDS ON TRAINING

NATURAL RESOURCES TECHNOLOGY

Student residence

We offer housing for single students and families at our Lac La Biche campus. The on-campus Residence Hall offers students self-contained rooms designed for two students to share, attached to the main campus building on two floors.

Each room includes two beds and desks, a kitchenette with a two-burner stove top and fridge, table and chairs, and a full bathroom. Common lounges in residence have microwaves, vacuums, and TVs with cable.

Singles' townhouses are also on campus, and a short walk to the main building. Fully furnished townhouses are shared by four students, each with their own bedroom. There are two bathrooms, a living room, dining room and full kitchen. Each unit has cable TV provided at no cost to the student.

A total of 50 units of two, three and four bedroom townhouse accommodations are available for families. All family townhouses are furnished. Due to high demand, only students who reside further than 75 km from Lac La Biche will be considered for family housing.



HOW TO APPLY FOR HOUSING:

Complete a student accommodation form and submit it with your application form. Once you receive written notification of acceptance into your program, you will be required to provide the security deposit within two weeks to hold your accommodation space. Full time students pay rent monthly.

Family applicants must also include rental references. Upon review of applications, family applicants will be contacted to set up an appointment for an interview to determine eligibility.

All accepted students will receive a letter of confirmation.

WHAT TO BRING:

- Alarm clock
- Bed linens (single bed)
- Cooking pots & pans
- Cooking utensils
- Glassware/silverware
- Dish rag/tea towel
- Extension cord
- Hangers
- Laundry bag
- Laundry detergent
- Mattress pad (single bed)
- School supplies (pens, paper, stapler, etc.)
- Slippers or inside shoes
- Toiletry items
- Towels



EMBRACE YOUR
PASSION



Admission requirements

Alberta high school diploma with at least:

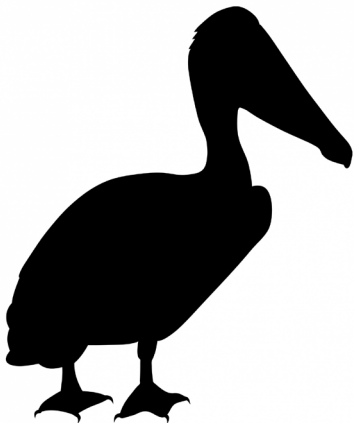
- ELA 30-1*, English 30, or 60% in ELA 30-2 or English 33 (60%)
- Biology 30* (recommended) or 60% in Biology 20, or Chemistry 30* or 60% in Chemistry 20 or 50% in Science 30
- Math 30-1*, Math 30-2, Pure Math 30, Math 30, or 60% in Applied Math 30 or Math 33

*Transfer to universities may be affected for students entering the diploma without ELA 30-1, Chemistry 30, Biology 30 or Math 30-1.

Unsure if you meet the requirements or applying from outside Alberta?

If you're unsure if you meet the requirements, speak to a student advisor for the NRT Program by calling 1-866-623-5551, extension 5575.

Individuals who do not meet the above academic requirements may be granted admission based on mature status. Placement assessment is required. An interview with the program coordinator may also be required.



HOW TO APPLY:

Step 1: Fill out an application form

Apply online at portagecollege.ca or complete an application form and submit by mail, fax or in person at any of our campuses.

Step 2: Transcripts

Online application: Your transcripts will be automatically sent to us.

Paper application: Arrange to have the necessary transcripts sent to us.

Come visit!

Custom tours and student-for-a-day opportunities are available free of charge for groups or one-on-one. To book a tour or student-for-a-day experience, call 1-780-623-5654.

We look forward to meeting you!

For additional information

portagecollege.ca
1.866.623.5551



PORTAGE
COLLEGE

