

## Green Education and Training Programs by Job Title

	Program Title	Pre-requisites	Program Name	Green Jobs
Cambrian College (Sudbury)	<p><b>Energy Systems Technology (ESTY)</b> 3 years</p> <p>K. Mina kameal.mina@CambrianCollege.ca (705) 566-8101 ext. 7578 Wwww.CambrianCollege.ca</p>	<ul style="list-style-type: none"> <li>* any grade 12 English (C, (U), or (M)</li> <li>* any grade 12 Math (C), (U), or (M) (MCT4C is highly recommended)</li> </ul> <p>Recommended:</p> <ul style="list-style-type: none"> <li>* any grade 12 Physics (C), (U), or (M)</li> <li>* any technology subjects (construction, manufacturing design, transportation)</li> <li>* computer competency in relevant software</li> </ul>	<p>The Energy Systems Technology program prepares students for employment in the sustainable energy field, with a focus on energy systems for residential and small commercial buildings. Students will study energy systems harnessing energy from renewable sources - sun, wind, water, geothermal heat, and biomass - in order to have a sustainable environment that will meet our present needs without compromising the ability of future generations to meet theirs. Topics on energy management, energy efficiency and energy conservation and sustainable building and development are also covered in the program.</p>	<p>Energy Designer Energy Modeler</p>
Canadore College	<p><b>Environmental Technician - Protection and Compliance</b> 2 years (Environmental Technician - Protection and Compliance) program</p> <p>Derek M. Erickson Professor 705-474-7600 ext. 5236 derek.erickson@canadore.on.ca</p>	<ul style="list-style-type: none"> <li>* OSSD at or above the general level or its equivalent (GED or College and Career Prep) and Mature Students (MSS)</li> <li>* Grade 12 English is required.</li> <li>* Applicants aged 19 or over without the OSSD will be considered on the basis of their results on the College's Mature Student Test.</li> </ul>	<p>If you care about the environment and would like to make a difference, then this program is for you. The Environmental Technician program is designed to create well-trained and diversely skilled graduates who wish to pursue a career in the environmental industry. The job opportunities for a graduate of this program are plentiful on the provincial, national and global scale. A graduate from this program could choose to work in the field, in a laboratory or in an office setting.</p>	<p>Environmental Compliance Officer Health and Safety Officer Renewable Energy Technician</p>

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Centennial College (Toronto)	<p><b>Energy Systems Engineering Technology</b> 2-3 years</p> <p>Robert Hellier Manager, Centennial Energy Institute energy@centennialcollege.ca (416) 289-5000 x8363 www.centennialcollege.ca</p>	<ul style="list-style-type: none"> <li>* Compulsory English 12C or U or skills assessment, or equivalent</li> <li>* Math 11M or U, or 12C or U, or skills assessment, or equivalent</li> <li>* Semester and Graduation Requirements</li> <li>* Minimum C grade required for technologist graduation</li> </ul>	<p>Through the Energy Systems Engineering Technology program, Centennial College teaches you the fundamental skills to understand energy and its uses in modern society. The program offers a unique blend of technical, managerial and entrepreneurial skills that are highly sought after in modern energy and sustainable building companies. You can graduate as a technician after the first two years or continue onto paid work experience or follow a purely academic path to an advanced diploma.</p>	<p>Energy Consultant Green HVAC Specialist</p>
Durham College (Oshawa)	<p><b>Renewable Energy Technician and Energy Audit Techniques</b> 2 years (Renewable Energy Technician) and/or 1 year (Energy Audit Techniques)</p> <p>www.durhamcollege.ca 905-721-2000</p>	<p>OSSD, GED, ACE (BTSD) or Mature Student Status (MSS) Plus senior level (Grade 11 or higher) subject credits:</p> <ul style="list-style-type: none"> <li>* Grade 12 English</li> <li>* Grade 12 mathematics (college technology MCTC4C, general tech MTT4G)</li> <li>* Construction Technology TGJ4M and/or Manufacturing Technology TMJ4E and/or Technological Design TTJ4C recommended</li> <li>* Computer literacy skills recommended</li> </ul>	<p>The program is designed to meet the rapidly increasing demand for technicians with knowledge and skills in the renewable energy field. Graduates will be able to perform energy audits of new and existing homes; and assist in the installation and assembly of solar energy panels; geothermal heat pump systems; and wind turbines. After successful completion of year one of this program, students may elect to graduate with an Energy Audit Techniques Ontario College Certificate credential.</p>	<p>Energy Auditor Energy Consultant Green HVAC Specialist Renewable Energy Technician</p>

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George Brown College (Toronto)	<p><b>Bachelor of Applied Technology – Construction and Environment: Regulations and Compliance (Co-op)</b> 4-year degree program</p> <p>Centre for Advanced Building Technologies 416-415-5000 ext. 4398 www.georgebrown.ca/buildingtechnologies</p>	<p>Ontario Secondary School Diploma with: * six grade 12 University (U) or University/College (M) courses, or equivalent * Grade 12 English (U) and grade 12 Mathematics (U)</p>	<p>The first of its kind in North America, this four-year degree program, with a mandatory co-op component, in the field of construction and environmental compliance prepares students for success in a new and emerging profession developing, implementing and enforcing regulatory frameworks and laws related to construction and environmental issues.</p> <p>Students learn how to interpret and apply the laws that protect our environment and make our buildings safe. They also learn to design and establish management systems to address public concern for safety and the environment, develop proactive procedures to implement the laws, regulations and new standards being imposed on both the public and the private sectors.</p>	<p>Building Inspector City Planner Environmental Officer Sustainability Manager</p>

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George Brown College (Toronto)	<p><b>Heating, Refrigeration and Air Conditioning Technician Program</b> 2 years</p> <p>George Brown School of Construction Management and Trades a416-415-5000 ext. 4398 e-mail: construction@georgebrown.ca</p>	<ul style="list-style-type: none"> <li>• Ontario Secondary School Diploma (OSSD) or equivalent</li> <li>• Grade 11 math (M or U) or grade 12 (C or U)</li> <li>• Grade 12 English (C or U)</li> </ul>	<p>Over two years, you will gain solid skills and knowledge in design, operation and maintenance of environmental systems, in heating, ventilation, air conditioning and refrigeration (HVAC/R). The Heating, Refrigeration and Air Conditioning Technician program at George Brown College follows industry- standard design practices for environmentally responsible and energy-efficient residential, commercial and industrial systems, as established by the Heating, Refrigeration and Air Conditioning Institute (HRAI), the American Society of Heating, Refrigeration and Air Conditioning Engineers (ASHRAE) and the Canada Green Building Council (LEED certification).</p>	Green HVAC Specialist Energy Consultant
Humber College (Toronto)	<p><b>Sustainable Energy &amp; Building Technology (SEBT) program</b> 3 years</p> <p>Kerry Johnston, Program Co-ordinator kerry.johnston@humber.ca 416 675 6622 ext. 4512</p>	<ul style="list-style-type: none"> <li>* Ontario Secondary School Diploma (OSSD) or equivalent, or mature student status;</li> <li>* Grade 12 English (ENG4C or ENG4U)</li> <li>* Grade 12 Mathematics (MAP4C, MCT4C, MDM4U, MCB4U, MGA4U, MCV4U or MHF4U);</li> <li>* Two Grade 11 or Grade 12 C, U or M courses in addition to those listed above</li> </ul>	<p>The three-year, multidisciplinary program will position you to work effectively with other professionals in providing truly integrated solutions in the sustainable technologies sectors that deal with energy efficiency and renewable energy. You will be able to assess site characteristics and client needs, provide advice on renewable energy, building design and heating/cooling system alternatives, prove energy efficiency through energy audits and energy performance simulation, cost the energy system and select appropriate suppliers and contractors.</p>	Energy Auditor Energy Consultant Energy Manager

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Lambton College (Sarnia)	<p><b>Alternative Energy Engineering Technology</b> 3 years</p> <p>School of Technology, Applied Sciences, Apprenticeship &amp; Fire Science 519-541-2444 -or- Information Office 519-541-2436 info@lambton.on.ca</p>	<p>O.S.S.D. or equivalent with:</p> <ul style="list-style-type: none"> <li>* Grade 12 English C or U</li> <li>* Grade 12 Mathematics C or U</li> <li>* Grade 11 or Grade 12 Physics C or U</li> <li>* Grade 11 or Grade 12 Chemistry, recommended but not required.</li> </ul>	<p>The Alternative Energy Engineering Technology Program is a three year program with a co-op component that provides students with a combination of theory and application skills in current and emerging energy technologies. Graduates will deal with the integration of current energy sources along with newly developing alternative green energy sources and distribution systems. These specialists will be given the technical and applied knowledge in renewable energy concepts combined with energy efficient design principals. Basic computer skills are recommended.</p>	<p>Energy Auditor Project Engineer</p>
Mohawk College of Applied Arts and Technology (Hamilton)	<p><b>Energy Systems Engineering Technology – Clean and Renewable Energy</b> 3 Year Advanced Diploma</p> <p>www.mohawkcollege.ca 905-575-1212</p>	<p>OSSD or equivalent (GED, College and Career Preparation) including:</p> <ul style="list-style-type: none"> <li>* Grade 12 English, C or U or equivalent</li> <li>* Grade 12 Mathematics, C (Math for College Technology is recommended) or U, or Mohawk College Prep Math for Technology or equivalent</li> </ul>	<p>Students will focus on clean energy and renewable energy sources including wind, bioenergy, hydro power, solar/photovoltaic, solar thermal, geothermal, strategies for conservation and clean energy supported by micro grids and distributed energy systems. This program is unique in introducing a multi disciplinary approach that focuses on the generation, capture, storage, and distribution of clean and renewable energy and their integration with conventional systems</p>	<p>Green Construction and Design Green Electrician Green HVAC Specialist Solar PV Manufacturer</p>

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Niagara College	<p>* Environmental Technician-Field and Laboratory (Co -op) 2 year program Graduate Certificates - 1 year program</p> <p>Graduate Programs: * Ecosystem Restoration * Environmental Management and Assessment * Geographic Information Systems-Geospatial Management</p> <p>Martin Smith, B.Sc., M.Sc. Co-ordinator Tel: 905-641-2252, ext. 4075 Email: enviro@niagaracollege.ca</p>	<p>* Ontario Secondary School Diploma (OSSD), or equivalent, or 19 years of age or older as of the first day of classes, with no OSSD or equivalent (Mature Student) including the following required courses: * English – any Grade 12 (C) or (U), or equivalent. * Mathematics – any Grade 12 (C) or (U), or equivalent. Recommended Courses and/or Recommended Skills (Not Required for Admission): * Biology – Grade 11 (C) or (U) or Grade 12 (U). * Chemistry – Grade 11 (U) or Grade 12 (C) or (U)</p>	<p>Hands-on training includes co-op experience, practical exercises in on-campus environmental labs and on the college grounds, and off-campus lab sessions and field trips.</p> <p>Graduates of the Environmental Technician program can pursue graduate certificates in: * Ecosystem Restoration * Environmental Management and Assessment * Geographic Information Systems-Geospatial Management</p>	<p>Air Monitoring Technicians Environmental Consultants Environmental Field Technicians Environmental Lab Technicians Field Supervisors Plant Operators Research Assistants Water/Wastewater Treatment</p>
Northern College	<p><b>Environmental Technician - Water and Wastewater Systems Operations</b> 2 year program</p> <p>Richard Kallio Program Coordinator 705-567-9291 ext. 705 kallior@northern.on.ca</p>	<p>Ontario Secondary School Diploma (OSSD) Grade 12 English (C, M, U) Grade 12 Math (C, M, U) (MCT4C preferred; MAP4C is accepted with a minimum GPA of 60%)</p>	<p>Legislation requires that all operators of municipal water and wastewater treatment plants be certified. This program will give students the necessary knowledge and training to prepare them for the Class I Certification examinations in water and wastewater plant operations.</p>	<p>Environmental Consultants Solid Waste Management Water And Wastewater Technologist</p>

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Seneca College	<p><b>Environment and Site Remediation (ESR)</b> 4 year Bachelor of Applied Technology</p> <p>Nadia Kelton Telephone: (416) 491-5050 Ext. 6659 Email: nadia.kelton@senecac.on.ca</p> <p>Jonathan Hunt Telephone: (416) 491-5050 Ext. 2521 Email: jonathan.hunt@senecac.on.ca</p>	<p>OSSD with a majority of senior credits at the University Preparation (U) or University/College Preparation (M) level or Mature Student Status (age 19 or older)</p> <p>* Six Grade 12 (U) or (M) courses with a minimum 65% average including Grade 12 English, Grade 12 Mathematics, Grade 12 Chemistry, One additional Grade 12 (U) Science credit</p> <p>Recommended Courses: * One other Grade 12(U) Mathematics: MCV4(U) strongly recommended * One other Grade 12(U) Science</p>	<p>This ground-breaking program examines all aspects of site contamination including scientific evaluation, property assessment and sustainable redesign. Graduates will be knowledgeable professionals and major participants in a field providing significant local and international opportunity. Over 40% of developed land world-wide is considered to be polluted in some form. You will be a leader in developing strategies for its remediation and re-use in environmentally sustainable ways.</p>	<p>Environmental Project Manager Environmental Site Assessor Remediation Technologist/Specialist</p>
Seneca College (Toronto)	<p><b>Photovoltaic (PV) Technician Program</b> combined distance learning and in-class study</p> <p>Centre for the Built Environment, Seneca College energy.training@senecac.on.ca 1-800-572-0712 http://eto.senecac.on.ca/photovol.html</p>	<p>contact Program Administrator</p>	<p>Seneca College, in partnership with CanSIA, offers an eleven-part training program for people who want to become professionally trained in the design and installation of solar photovoltaic (PV) systems. The program provides a comprehensive understanding of related electric theory and the fundamentals of PV systems. By a combination of individualized distance learning and in-class study, students will learn the theory and practice required to use and install a solar electric system.</p>	<p>PV Solar Design PV Solar Installer</p>



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Sir Sanford Fleming College	<p><b>Environment Technician</b>  <b>Environmental Technologist</b>                      2 years (technician) or 3 years (technologist)</p> <p>Stephen Thompson                      stevthom@flemingc.on.ca                      1-866-353-6464 ext. 3263</p>	<p>OSSD with the majority of credits at the College (C) and Open (O) level, including:                      * 2 College (C) English courses (Grade 11 or Grade 12)                      * 2 College (C) Math courses (Grade 11 or Grade 12)</p>	<p>As an Environmental Technician, you will work to prevent environmental problems, resolve environmental issues when necessary, and provide education to the public.</p>	<p>Environmental Officer                      Environmental Technician                      Groundwater Technician                      Soil/terrain Specialist                      Water Quality Technician                      Watershed Technician</p>
Sir Sanford Fleming College (Halliburton)	<p><b>Sustainable Building Design and Construction</b>                      20-week course **course workload is equivalent to a three-semester (45 week) program</p> <p>Chris Magwood                      cmagwood@flemingc.on.ca                      1-866-353-6464                      Www.flemingc.on.ca</p>	<p>OSSD with the majority of credits at the College (C) and Open (O) level, including:                      * 2 College (C) English courses (Grade 11 or Grade 12)                      * Or a current Certificate of Qualification as a Carpenter - General.</p>	<p>Students will gain skills in the design of structures using green, natural or sustainable building methods, technologies, materials and renewable energy resources. Students will have the opportunity to apply, practice, and enhance what they learn in the classroom to real-world situations via the hands-on construction of a sustainable building.</p>	<p>Green Building Construction and Design</p>



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St. Lawrence College (Kingston)	<p><b>Energy Systems Engineering Technician and Technology Program</b> 2 years (technician) or 3 years (technologist)</p> <p>Steve Lapp, M.Sc. P.Eng. Coordinator - Energy Systems Engineering Technician (ESET) and Technology Program slapp@sl.on.ca (613) 544-5400 ext. 1528</p>	<p>Ontario Secondary School Diploma or equivalent with the following prerequisite: * Grade 12 Math at the C or U level (or MCR3U or MCF3M)</p> <p>The majority of Grade 11 and 12 courses must be college or university preparation level.</p>	<p>Unique to St. Lawrence College is Energy House, the site of the Energy Systems Engineering Technology and Technician practical laboratories in renewable energy. Opened in Fall 2005, this off-grid training facility offers a comprehensive selection of renewable energy equipment for hands-on training in solar thermal and photovoltaic, ground source heat pump, small wind, solar air heating, and other sustainable energy technologies.</p>	<p>Energy Auditor Solar PV Installer Solar Thermal Installer</p>
St. Clair College	<p><b>Energy Systems Design Technology</b> 3 Year Advanced Diploma</p> <p>Bill White (519) 972-2727, ext. 4927 email: wwhite@stclaircollege.ca</p>	<p>OSSD with the majority of courses at the College (C), University (U), University/College (M) or Open (O) level plus * Grade 12 Math (C) or (U) * Senior Level Physics (C) or (U)</p>	<p>This new program is the first of its kind to be offered in Ontario. It will prepare graduates for careers in energy utilization with a focus on the efficient application, design, control and management of energy conversion systems for industry, buildings and transportation</p>	<p>Energy Manager Environmental Consultant Industrial Design Engineer Renewable Energy Technician</p>

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Algonquin College of Applied Arts and Technology	<p><b>Green Architecture</b> 1 year Graduate Certificate program</p> <p>Chris Hewett, Program Coordinator, at 613-727-4723 ext. 5889 or hewettc@algonquincollege.com</p>	<ul style="list-style-type: none"> <li>* An Ontario College Advanced Diploma in Architectural Technology.</li> <li>* An Ontario College Diploma in Architectural Technician, Building Construction Technician, Interior Design or Interior Decorating.</li> <li>* Applicants without a community college diploma or degree may be considered on an individual basis.</li> </ul>	<p>This Ontario College Graduate Certificate program offers students an opportunity to broaden their existing skills to compete in the burgeoning field of alternative technologies related to eco-friendly (green) architecture. Students are exposed to a specialized range of technologies that reduce the environmental impact of human habitation and commercial activity.</p> <p>Typically, graduates work as technicians, technologists, consultants, and specialized practitioners in architectural, construction, and design firms and related industries.</p>	<p>Specialized Architectural and Construction Practitioners Technicians and Technologists Environmental Consultant</p>
Seneca College	<p><b>Green Business Management</b> 2 Semesters (8 Months)</p> <p>Angela Li Telephone: (416) 491-5050 Ext. 2036 Email: angela.li@senecac.on.ca</p>	<ul style="list-style-type: none"> <li>• A degree or three-year diploma from a recognized college/university and/or mature student with a minimum of five years documented related work experience.</li> <li>• English proficiency at the college level.</li> </ul>	<p>The program will provide graduates with the transformational leadership skills to help companies become more successful by integrating environmentally and socially responsible strategies into the fabric of their organizations. It will provide graduates the project and change management skills to operationalize environmental sustainability into an organization's bottom-line, assisting in creating greater value, improved productivity and enhanced corporate responsibility for the organization.</p>	<p>Green Business Development Manager Green Entrepreneur Sustainability Manager</p>

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York University	<p><b>Masters in Environmental Studies</b> 2 years Faculty of Environmental Studies HNES 109, York University 4700 Keele Street Toronto, Ontario M3J 1P3</p> <p>Telephone: (416) 736-5252 Fax: (416) 736-5679</p>	<p>To be considered for admission to the MES program, you must normally have an Honours (4-year) undergraduate degree from an accredited university with an academic standing of at least a “B+”.</p>	<p>Developed through more than 35 years of excellence in graduate education, our research-based Master in Environmental Studies (MES) program takes a unique and creative approach to graduate studies. Intrinsically interdisciplinary, the program encourages exploration by not requiring you to follow any set courses or field of study. Instead, we provide flexibility and support you in taking ownership of your studies – so you can pursue the research path you’ve always dreamed of exploring.</p>	<p>Environmental Consultant Environmental Impact Assessor Environmental Officer Environmental Policy Analyst Sustainability Manager</p>
Canada Green Building Council	<p><b>LEED AP certification</b> Study time for exams</p> <p>Workshop/LEED® AP Exam inquiries: workshops@cagbc.org 613-241-1184</p>	<p>To write the AP accreditation exam, you must have:</p> <ul style="list-style-type: none"> <li>Passed the LEED Green Associate exam, which requires: Experience in the form of EITHER documented involvement on a project registered or certified for LEED OR employment (or previous employment) in a sustainable field of work OR engagement in (or completion of) an education program that addresses green building principles.</li> <li>Experience in the form of documented professional experience on a LEED project, within the last 3 years, with verification through LEED Online or employer attestation</li> </ul>	<p>LEED is an internationally recognized green building certification system, providing third-party verification that a building or community was designed and built using strategies aimed at improving performance across all the metrics that matter most: energy savings, water efficiency, CO2 emissions reduction, improved indoor environmental quality, and stewardship of resources and sensitivity to their impacts.</p> <p>To achieve accreditation, students must study for and pass first the LEEDS GA exam and then the LEEDS AP exam. Study materials and books are available and exam prep courses are optional.</p>	<p>LEED Accredited Professional (Leaders in Environmental and Energy Design)</p>

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CANSIA	<p><b>Solar Hot Water Installation</b> Dependent on experience, workshops taken</p> <p>Canadian Solar Industries Association 2378 Holly Lane #208 Ottawa, Ontario, Canada, K1V 7P1 Tel (613) 736-9077 Fax (613) 736-8938 Email info@cansia.ca</p>	<p>To become a CanSIA Certified Solar Hot Water System Installer you must have installer and/or other trades experience. Students with no experience are welcome to participate in CanSIA Solar Hot Water System workshops however they must obtain the experience requirements for certification on their own.</p>	<p>In anticipation of federal, provincial and municipal programs supporting the deployment of solar domestic hot water systems for residential applications, the Canadian Solar Industries Association (CanSIA) has developed and is implementing a program for:</p> <ul style="list-style-type: none"> <li>- Experienced Applicants; and to</li> <li>- Initiate a training program for new members of the solar industry.</li> </ul> <p>This will insure that SHW installations are done by professional and trained installers and will provide guidelines on who can install government-supported systems. Natural Resources Canada (NRCan) has funded the development of this certification.</p>	<p>Solar Hot Water System Installer</p>
Centennial College (Toronto)	<p><b>Industrial and Building Energy Expertise (IBEX)</b> Self-paced up to one year</p> <p>Ms. Lynda O'Malley, Project Analyst, Tel: 416-289-5000, ext. 2104, CENTENNIAL ENERGY INSTITUTE, School of Engineering Technology and Applied Science email: cei@centennialcollege.ca or lomalley@centennialcollege.ca</p>	<p>contact Program Administrator</p>	<p>This is a self-paced, online energy-management training program, combining foundational knowledge and skills in energy and water efficiency technologies, energy auditing, building a business case for energy management projects, as well as incentives and rebate programs for energy retrofits. These comprise 16 on-line modules, which are supplemented by 6 workshops. At the conclusion of studies, students complete a mentored audit of an appropriate facility and produce recommendations specific to it.</p>	<p>Energy Auditor Energy Consultant Energy Manager</p>

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Green Roofs for Healthy Cities Greensaver	<b>Green Roof Professional certification</b> 4 classes, 1 day each, plus exam  Luna Ghose - Training and Accreditation Assistant lghose@greenroofs.org 416-971-4494 ext. 228	None	Green Roof Professionals (GRPs) will be well versed in both the 'black' and the 'green' arts in order to gain this new professional distinction of green building expertise. The Green Roof Professional (GRP) accreditation, and professional courses that support it, will however, provide a number of important benefits that are key to the long-term health and growth of the green roof industry.	Green Roof Designer Green Roof Installer
	<b>Certified Energy Advisor Training</b> 5 day workshop, plus additional projects  Green Saver ecoENERGY Training 74 Six Point Rd Toronto ON M8Z 2X2, GreenJobs@greensaver.org	<ul style="list-style-type: none"> <li>Provide a resume that clearly shows experience in construction practices for residential housing.</li> <li>Pass a prequalification test (80%) which tests knowledge in building science, construction and building code and basic geometry and arithmetic skills.</li> </ul>	To become an energy advisor, you must attend an energy advisor workshop that covers all of the job functions of an energy advisor. You must also perform a minimum of two house evaluations in the presence of a recognized instructor and be supervised during a probationary period during which a minimum of five house evaluations will be assessed and quality assured by the instructor. The instructor will either recommend that you be certified or that you complete additional evaluations under supervision until your performance meets the required standards. The training will give you the basic skills and knowledge required to be an energy advisor. The field evaluations will provide you with supervised practice in performing all the tests and evaluation procedures before completing evaluations independently.	Energy Auditor Energy Consultant Energy Manager

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Kortright Centre	<p><b>Photovoltaic training courses</b> 4 days</p> <p>Please register by calling 416-667-6295 then press option #3 or email <a href="mailto:cmacgillivray@trca.on.ca">cmacgillivray@trca.on.ca</a>.</p>	contact Program Administrator	To meet the growing demand for trained installers and educators, Kortright has developed a new five-day training session that includes theory, hands-on laboratory, and installation components that prepare you to write the NABCEP (North American Board Certified of Energy Practitioners) entry level certification exam, to enter into the growing solar energy marketplace.	Solar Panel Installer Solar Service Technician
Brock University	<p><b>Tourism and Environment</b> *BA Honours and a BA with Major in Tourism and Environment, both of which are four-year programs. *Certificate program in Tourism and Environment for candidates with post secondary degrees (1 year).</p> <p>Academic Adviser Jeanette Ramsay Administrative Assistant Barb Alexander 905-688-5550, extension 3292 Mackenzie Chown C418 <a href="http://brocku.ca/tren">brocku.ca/tren</a></p>	Ontario Secondary School Diploma (OSSD) with an overall average of 70 percent on six Grade 12 U or M courses is the minimum required for consideration, but a higher average will be required for most programs since the number of qualified applicants normally exceeds the spaces available.	The Department of Tourism and Environment strives to foster knowledge of sustainability (environmental, social, economic and political) and the tourism environment. Programs of study are designed for students pursuing careers in tourism administration, environmental management, economic development, or planning in local organizations, multinational corporations or municipal, provincial or national government agencies.	Eco-Tourism Guide

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Carleton University	<p><b>Environmental Science</b></p> <p>Sustainable and Renewable Energy Engineering 3-4 year B.Sc program</p> <p>4 year B.Eng. program</p>	<p><b>Environmental Science</b> OSSD or equivalent, including a minimum of six 4 U/M courses. Your six 4 U/M courses must include Advanced Functions or Calculus and Vectors* (*strongly recommended) and two of Biology, Chemistry, Earth and Space Science, or Physics. (Biology and Chemistry are recommended.)</p> <p><b>Sustainable and Renewable Energy Engineering</b> (OSSD) or equivalent, including a minimum of six 4 U/M courses. Your six courses must include four prerequisite courses:  <small>100 120</small> Advanced Functions  <small>100 120</small> Chemistry  <small>100 120</small> Physics  <small>100 120</small> one of: Calculus and Vectors, Biology, Earth and Space Science</p>	<p>Environmental scientists are key participants in the risk assessments associated with environmental concerns—ones that typically include a combination of biology, chemistry, geology (earth sciences), and geography.</p> <p>Sustainable and Renewable energy provides analytical, technical and market skills for designing, building, operating, and enhancing sustainable energy systems that combine energy generation, its distribution and end use, in an environmentally responsible and economically beneficial manner.</p>	<p>Energy Manager Environmental Consultant Environmental Consultant Environmental Impact Assessor Environmental Officer Renewable Energy Technician</p>



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McMaster University	<p><b>Environmental and Earth Sciences</b></p> <p>Mechanical Engineering Electrical Engineering Engineering Physics Materials Engineering Mechatronics Engineering</p> <p>4 year degree program (B.Sc or B.Eng)</p>	<p><b>Environmental and Earth Sciences</b> Completion of High School Diploma plus; Grade 12 U/M requirements - 6 courses in total, including:</p> <ul style="list-style-type: none"> <li>English (ENG4U)</li> <li>One of: Advanced Functions(MHF4U), Calculus &amp; Vectors (MCV4U) (Calculus &amp; Vectors is strongly recommended)</li> <li>2 of the 4 remaining credits must be at the U level</li> </ul> <p><b>Faculty of Engineering</b> Completion of High School Diploma plus; Grade 12 U/M requirements - 6 courses in total, including:</p> <ul style="list-style-type: none"> <li>English (ENG4U)</li> <li>Calculus &amp; Vectors (MCV4U)</li> <li>Chemistry (SCH4U)</li> <li>Physics (SPH4U)</li> </ul>	<p>Human life and society depend critically on environmental resources we all too often take for granted: air, water, soil, and the mineral and organic resources of the earth. With the recent attention given to global warming and climate change, there has been a dramatic increase in scientific research and employment opportunities in this area.</p> <p>McMaster's Faculty of Engineering is committed to identifying new trends in the global engineering profession, and to introducing unique programs to cater to these trends,</p>	<p>Design Engineer Energy Auditor Energy Utility Industry Officer Environmental Policy Maker Field Engineer Manufacturing Engineer Renewable Energy Technician</p>
Nipissing University	<p><b>B.A Environmental Geography</b> 4 year degree program</p> <p>Nipissing University 100 College Drive, Box 5002 North Bay ON Canada P1B 8L7</p> <p>General Information: Phone (705) 474-3450 Fax: (705) 474-1947 tty: (705) 474-3897 nuinfo@nipissingu.ca</p>	<p>OSSD with a combination of a minimum of six 4U and/or 4M courses.</p> <p>An overall average of 70% on a combination of six 4U and/or 4M courses, including required 4U courses is the minimum required for full-time admission consideration.</p>	<p>Environmental Geography courses examine the ecological principles underlying environmental problems such as climate change, pollution and wetland degradation.</p>	<p>City Planner Environmental Consultant Environmental Officer Environmental Impact Assessor</p>

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Queens University	<p><b>Bachelor of Science in Environmental Science</b> and  <b>Bachelor of Arts in Environmental Studies</b>                      4 year degree programs</p> <p>Admission and General Information Email: admission@queensu.ca                      Phone: (613) 533-2218                      Fax: (613) 533-6810</p>	<p>The Ontario Secondary School Diploma (OSSD) and six 4U and M courses. Students in francophone schools may offer the equivalent of English 4U.</p> <p>* Science -                      English 4U, Advanced Functions 4U, Calculus and Vectors 4U and Biology 4U, Chemistry 4U or Physics 4U</p> <p>* Engineering -                      English 4U, Calculus and Vectors 4U, Chemistry 4U, Physics 4U, plus one of Advanced Functions 4U, Biology 4U, Data Management 4U, Computer Science 4U, Earth and Space Science 4U. Final grade in English 4U must be a minimum of 70%.</p>	<p>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 technology, the natural sciences, humanities, and social sciences to understanding and solving environmental problems.</p>	<p>Environmental Conservationist                      Environmental Policy Advocate                      Environmental Policy Analyst                      Natural Resources Management                      Wastewater Management</p>
Trent University	<p><b>Indigenous Environmental Studies Bachelor of Arts (Environmental Studies)</b>  <b>Bachelor of Science (Environmental Science)</b>                      2 year diploma</p> <p>The Indigenous Environmental Studies Program                      1-705-748-1011 ext 7426                      ies@trentu.ca</p>	<p>The two year diploma in IES is open to students of Aboriginal ancestry who have the equivalent of Ontario Grade 12, or qualify as mature students. Applications are reviewed by the Registrar's office and the Indigenous Studies Department.</p>	<p>The Indigenous Environmental Studies Program (IES) is an innovative new program at Trent University. IES is collaboration between the Department of Indigenous Studies (INDG) and the Environmental and Resource Science/Studies Program (ERS), and is designed to give students the necessary skills and knowledge to work in the growing field of Indigenous environmental issues. The Program uses Indigenous knowledge systems, science and information from the social and environmental sciences to explore local, regional, national and international environmental issues impacting Indigenous People.</p>	<p>Environmental Lawyer                      Environmental NGO Program Manager                      Environmental Protection Specialist                      Park Naturalist                      Policy Analyst                      Water Quality Inspector</p>

## Green Education and Training Programs by Job Title

University of Guelph	Program Title	Pre-requisites	Program Name	Green Jobs
	<p><b>Environmental Economics &amp; Policy</b>  <b>Environmental Governance</b>  <b>Environmental Management</b>                      4 year degree program</p> <p>Environmental Governance                      Program Coordinator                      Dr. Ben Bradshaw Hutt                      519-824-4120 ext. 58460</p> <p>Jonathan Newman                      Professor &amp; Director, School                      of                      Environmental Sciences                        519 824 4120 ext.                      52147 email:                      jnewman@uoguelph.ca</p>	<p>Ontario Secondary School Diploma (OSSD), or equivalent, and a minimum of 6 Grade 12 U/M courses including:</p> <ul style="list-style-type: none"> <li>* ENG4U</li> <li>* MHF4U</li> <li>* 2 credits from: SBI4U, SCH4U, SPH4U</li> <li>* 2 additional 4U or 4M credits</li> </ul>	<p>Gain the interdisciplinary expertise needed to deal with the environmental problems facing our world now and those we will face in the future. Balance scientifically grounded solutions with an understanding of the social and economic consequences of environmental change.</p>	<p>Environmental Consultant                      Environmental Economist                      Environmental NGO Program Manager</p>

## Green Education and Training Programs by Job Title

	Program Title	Pre-requisites	Program Name	Green Jobs
University of Guelph	<p><b>Environmental Economics &amp; Policy</b>  <b>Environmental Governance</b>  <b>Environmental Management</b>                      4 year degree program                      Environmental Governance                      Program Coordinator                      Dr. Ben Bradshaw Hutt                      519-824-4120 ext. 58460</p> <p>Jonathan Newman                      Professor &amp; Director, School                      of                      Environmental Sciences                        519 824 4120 ext.                      52147 email:                      jnewman@uoguelph.ca</p>	<p>Ontario Secondary School Diploma (OSSD), or equivalent, and a minimum of 6 Grade 12 U/M courses including:</p> <ul style="list-style-type: none"> <li>* ENG4U</li> <li>* MHF4U</li> <li>* 2 credits from: SBI4U, SCH4U, SPH4U</li> <li>* 2 additional 4U or 4M credits</li> </ul>	<p>Gain the interdisciplinary expertise needed to deal with the environmental problems facing our world now and those we will face in the future. Balance scientifically grounded solutions with an understanding of the social and economic consequences of environmental change.</p>	<p>Environmental Officer                      Environmental Policy Analyst</p>

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	Program Title	Pre-requisites	Program Name	Green Jobs
University of Ontario Institute of Technology	<p><b>Energy Systems Engineering</b> 4 year degree program</p> <p>Joanna Campbell Academic Advisor Faculty of Engineering and Applied Science (905)721-8668 Ext:2971 E-mail: joanna.campbell@uoit.ca</p>	<p>OSSD with a minimum overall average of 70 per cent in six 4U or 4M credits, including:</p> <ul style="list-style-type: none"> <li>* English (ENG4U);</li> <li>* Physics (SPH4U);</li> <li>* Chemistry (SCH4U);</li> <li>* Advanced Functions (MHF4U); and</li> <li>* Calculus and vectors mathematics (MCV4U).</li> </ul>	<p>Graduates will be well prepared to work with systems that involve the generation, transmission or utilization of energy. Career opportunities are increasing for graduates in industry, government and non- government organizations. Graduates may also choose to start their own energy enterprise or pursue graduates studies. This program was developed to meet the requirements of the Canadian Engineering Accreditation Board. Graduates will be eligible to apply for licensure as a professional engineer in any Canadian province or territory.</p>	<p>Energy Manager Environmental Consultant Renewable Energy Technician</p>
University of Ottawa	<p>Environmental Law</p> <p>comlaw@uOttawa.ca Tel.: (613) 562-5800 ext.3270 Fax: (613) 562-5124</p>	<ul style="list-style-type: none"> <li>* At least three years of university studies is preferred. Students are strongly encouraged to complete their undergraduate program of study prior to beginning law school.</li> <li>* Successful completion of the Law School Admission Test (LSAT). Students applying to the French program of the Common Law Section of the Faculty of Law do not write the LSAT.</li> </ul>	<p>Environmental issues have always been of concern from the perspective of public interest law and in recent years arise increasingly in relation to other areas of practice including corporate and administrative law, municipal and planning law, and real estate transactions. It is impossible, as Canada and other nations address climate change, global warming and the Kyoto Protocol to read or listen to daily news without encountering significant environmental law issues. Whether you hope to devote a career</p> <p>To some of these matters, expect to encounter them from time to time, or simply wish to pursue a personal interest, environmental law courses are essential.</p>	<p>Environmental Lawyer Policy Advocate Policy Analyst</p>

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	Program Title	Pre-requisites	Program Name	Green Jobs
University of Toronto	<p><b>Environmental Engineering - Faculty of Applied Science and Engineering</b> 4-year Bask Undergraduate Program</p> <p>Engineering Undergraduate Admissions Office engineering@ecf.utoronto.ca 416-978-0120</p>	<p>* Completion of Ontario Secondary School Diploma or equivalent, and: Six required courses: * English (ENG4U) * Calculus and Vectors (MCV4U) * Chemistry (SCH4U) * Physics (SPH4U)</p> <p>One of: * Advanced Functions (MHF4U)* * Mathematics of Data Manager (MDM4U) * Biology (SBI4U) * Earth and Space Science (SES4U) * Geometry and Discrete Mathematics (MGA4U) * 1 additional U or M course</p>	<p>Environmental engineers play a pivotal role in improving polluted environments, designing facilities that directly affect our modern economy, public health and safety, and designing environmentally responsible products and processes. Their knowledge of physics, chemistry, and biological processes allows them to address problems such as protecting air, water and land quality; providing safe drinking water; treating and disposing of industrial wastes; preventing environmental problems by designing "cleaner" manufacturing processes; and developing alternative energy sources. Engineers with a firm knowledge of environmental processes and solutions are widely sought after by employers in both industry and government.</p>	<p>Environmental Engineer Environmental Policy Analyst</p>
University of Waterloo	<p><b>Environment and Business</b> 3 and 4 year degree programs</p>	<p>OSSD Required courses: Grade 12 U English (at least 70% normally required) Recommended courses: One Grade 12 U Mathematics, one Grade 12 U Science, Principles of Financial Accounting, Analyzing Current Economic Issues Admission average: Low 80s</p>	<p>Addresses the huge need for sustainability professionals by producing knowledgeable and experienced graduates—people who know the tools of business and sustainability and who have experience gained through paid co-op work terms. Graduates leave with all the foundations of a business degree - economics, finance, accounting, management and marketing. They also are provided with an environmental education including field ecology, human geography and environmental research techniques. Most significantly, integrated courses show how businesses can be both sustainable and profitable.</p>	<p>Green Business Development Manager Green Entrepreneur Sustainability Manager</p>

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	Program Title	Pre-requisites	Program Name	Green Jobs
University of Western Ontario - Center for Environment and sustainability  Wilfred Laurier University	<b>Environmental Science</b> (Baccalaureate of Science, Faculty of Science)  <b>Environmental Engineering</b> (Baccalaureate of Engineering, Faculty of Engineering)  <b>Environmental Studies</b> (Faculty of Social Science) 3 and 4 year degree programs  Dr. Christie Stewart Email: cstewa26@uwo.ca Phone: 519.661.2111 ext. 89034	Ontario Secondary School Diploma and:  * Completion of six Grade 12 U and/or M level courses. * Completion of ENG4U. * Completion of required prerequisites as specified by Western. * Satisfactory completion of the Literacy Test. * An admission average including all prerequisite courses as specified by Western.	The science underlying environmental issues including climate change, waste management, endangered species and spaces, air and water quality, and ecosystem health, is presented and discussed from a variety of perspectives.	Environmental Consultant Environmental Policy Analyst Sustainability Manager
	<b>Environmental Science (BSc)</b> <b>Environmental Studies (BES)</b> 3 and 4 year degree programs 1 year graduate courses Marilyn Watson email: Office of the Registrar phone: 519-884-0710 ext: 6095	A minimum of 6 Grade 12U and/or Grade 12M (U/C) courses are required for admission. Laurier will use the top 6 grades from these courses when calculating the admission average, unless otherwise noted. The following course requirements are listed according to the New Ontario Curriculum.  PLEASE NOTE: Grade 12U English must be at a minimum of 60% for all programs at Laurier unless otherwise specified. Applicants must also meet program-specific requirements; all required courses, listed below, must be at a minimum of 60% unless otherwise specified	The Department of Geography and Environmental Studies offers eight different degrees in Physical and Human Geography, as well as a degree in Environmental Studies. Regardless of the individual degree pursued, all of our degree programs prepare students to establish themselves in a variety of stimulating careers ranging from environmental consulting to teaching, from planning to intelligence work, and from public administration to development work overseas.	Environmental Lawyer Environmental NGO Program Manager Environmental Protection Specialist Park Naturalist Policy Analyst Water Quality Inspector



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	Program Title	Pre-requisites	Program Name	Green Jobs
York University	<p><b>Environmental Studies (BES)</b> with Specialization in:</p> <ul style="list-style-type: none"> <li>• Environmental Politics: Development, Globalization and Justice</li> <li>• Urban &amp; Regional Environments: Analysis, Planning and Design</li> <li>• Environment &amp; Culture: Philosophy, Arts, Technology and Education</li> </ul> <p>3 and 4 year degree programs</p> <p>York University Office of Admissions Bennett Centre for Student Services 99 Ian MacDonald Blvd Toronto, ON CANADA M3J 1P3 Tel: 416-736-5000 Fax: 416-736-5536</p>	<p>OSSD and a minimum of six Grade 12 4U or 4M courses, including ENG4U (Francophone applicants can present FRA4U, FEF4U or FIF4U instead of ENG4U)</p>	<p>So what exactly is Environmental Studies? At York, we look at the environment as being everything, and we mean everything, that surrounds us. We define environment broadly to include interdisciplinary understandings of political, social, cultural, natural and organizational issues. Our approach of studying both local and global environments means that we look at the world that surrounds us for ways to incorporate sustainable change in everyday living.</p>	<p>Environmental Consultant Environmental Impact Assessor Environmental Officer Environmental Policy Analyst Sustainability Manager</p>