

COLLEGE AND INSTITUTE APPLIED RESEARCH ACCELERATING BUSINESS AND COMMUNITY INNOVATION ENVIRONMENTAL SCAN 2013-14





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Colleges and Institutes Canada

1 Rideau Street, Suite 701 Ottawa, Ontario, Canada K1N 8S7 Tel. 613-746-2222

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Cover designed by:

Julia Paddick

Graphic Design Student (3rd Year) Algonquin College, Ottawa

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COLLEGE AND INSTITUTE APPLIED RESEARCH - ACCELERATING BUSINESS AND COMMUNITY INNOVATION / ENVIRONMENTAL SCAN 2013-14

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Executive Summary

Colleges and institutes contribute to the research and innovation cycle in Canada through applied research. More specifically, they directly contribute to applied research through enhanced research infrastructure, involvement of faculty and students, and the creation of partnerships with the business, industry and social innovation sectors. Colleges and institutes receive the majority of their funding from the Government of Canada.

For the 2013-14 fiscal period, \$85,124,512 were granted, up 19% from the previous year. At \$78,275,654, funding from the private sector rose 9% from 2012-13 levels, making it the second greatest source of external funding for applied research.



Business and Industry Partnerships

 5,633 companies partnered with colleges and institutes in 2013–14 (a 3% increase from 2012–13) mostly in business and industrial research.



- 95% of external funding was for business and industrial research.
- 77% of partnerships were with small- and mediumsized enterprises (SMEs) followed by 14% with large enterprises and 9% with micro-enterprises.

Partnerships for Social Innovation Research

- Colleges and institutes reported 693 social innovation partners.
- Funding devoted to social innovation research accounts for 5% of external funding, a one-point increase over last year.
- Most social innovation partners are community-based organizations and public service agencies.

Entrepreneurship

- Colleges and institutes provide targeted services to support students to pursue an entrepreneurial idea, including coaching, mentoring and linkages to business and industry partners.
- With increased focus on entrepreneurship, many colleges and institutes have launched business incubators to support start-up businesses.

Student Involvement

- Colleges and institutes reported that 32,093 students participated in applied research, up by 9% from 2012-13.
- Colleges and institutes involved students in applied research through in-class projects, summer jobs, internships and the integration of research approaches into curricula.
- 87% of colleges and institutes supported student entrepreneurship and 7,639 students received support to pursue an entrepreneurial idea—a 52% increase over last year.

Institutional Expertise

- 2,491 faculty and staff (e.g. industrial experts and technicians) engaged in applied research in 2013-14, up by 8% from 2012-13.
- 107 institutions had a dedicated applied research division.
- 670 specialized research centres and labs were identified, up by 37% from 2012–13.
- 1,083 areas of research specialization were reported in natural resources, energy, environment, health, information and communications technologies, manufacturing and social innovation.













Intellectual Property

- 80% of colleges and institutes had a policy on intellectual property.
- Policies differed from one institution to the next, though in principle, the intellectual property remains with the industry partner.

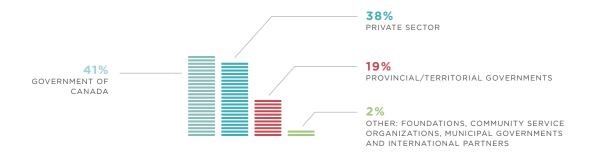
Institutional Investment

 Colleges and institutes continued to allocate internal resources to support applied research with \$52 million reported for 2013-14, up by 6% from last year.

External Funding 2013-2014

Colleges and institutes received \$207 million in external funding from the following sources, up 12% from 2012–13:

| Government of Canada | \$85,124,512 |
|------------------------------------|--------------|
| Private Sector | \$78,275,654 |
| Provincial/Territorial Governments | \$40,025,691 |
| Foundations | \$2,100,513 |
| Community Service Organizations | \$791,962 |
| International Partners | \$865,869 |
| Municipal Governments | \$181,555 |



- Funding from the Government of Canada was up 19% over the previous year.
- Funding from the private sector and provincial and territorial governments rose by 9% and 10%, respectively.
- The amount received from foundations is three times higher than that of the year before.
- Funding from community-based organizations was nearly double that of 2012-13.
- Funding from international partners and municipal governments dropped in comparison to the 2012-13 funding period.

The College and Community Innovation Program, which runs across the three granting councils, receives the largest part of the funding from the Government of Canada (55%), at \$46,427,328. Other sources of federal funding include:

- The Canada Foundation for Innovation's College-Industry Innovation Fund (\$12,920,602).
- The National Research Council Canada Industrial Research Assistance Program (\$2,434,109).
- Regional economic development agencies, including Western Economic Diversification Canada, FedDev

Ontario, Canada Economic Development for Quebec Regions, Atlantic Canada Opportunities Agency and the Canadian Northern Economic Development Agency, for a total of \$17,376,144. Contributions from economic development agencies dropped by 21% in 2013-14.

FUNDING FROM REGIONAL ECONOMIC DEVELOPMENT AGENCIES

| Western Economic Diversification Canada | \$8,036,555 |
|--|-------------|
| Federal Economic Development Agency for Southern Ontario | \$3,243,065 |
| Canada Economic Development for the Regions of Quebec | \$3,171,753 |
| Atlantic Canada Opportunities Agency | \$1,220,537 |
| Canadian Northern Economic Development Agency | \$361,234 |

University Partnerships

- 85% of respondents reported partnerships with universities.
- Institutions reported partnerships with 73 Canadian and 16 foreign universities, which represents a 44% increase from the previous year.
- Among the foreign universities, respondents identified partners in Israel, France, Uruguay, the United States, Brazil, the Netherlands, Ireland, Sweden and Australia.

International Research Partnerships

- Many colleges and institutes have created a variety of international partnerships.
- Member institutions from the Yukon, Alberta, Manitoba, Ontario, Quebec and Newfoundland have reported 48 international research partners in 22 countries, including Japan, the United States, France, South Korea, Germany, Belgium, the Netherlands, China, Argentina, Australia, Qatar, the United Kingdom, Brazil, the United Arab Emirates, Poland, Sweden, Greece, Ukraine, Suriname, India, Mexico and Switzerland.

Federal investment has greatly increased colleges' and institutes' capacity to conduct applied research and meet the needs of SMEs.

Current federal allocations for college applied research represent 2.8% of the \$2.96 billion of annual federal funding for research conducted by the higher education sector.

This is up by 0.4% from last year. Colleges and Institutes Canada's goal is to attract 5% of these investments.

This will enable colleges and institutes to further strengthen their applied research capacity and stimulate innovation among SMEs and community partners.

SUMMARY OF INVESTMENTS

| Investissement | 2009-2010 | 2010-2011 | 2011-2012 | 2012-2013 | 2013-2014 |
|------------------------------------|---------------|---------------|---------------|---------------|---------------|
| Federal Government | \$28,000,000 | \$33,700,000 | \$72,000,000 | \$71,400,000 | \$85,100,000 |
| Private Sector | \$45,000,000 | \$50,300,000 | \$59,400,000 | \$72,000,000 | \$78,300,000 |
| Colleges and Institutes | \$35,000,000 | \$38,000,000 | \$38,000,000 | \$49,200,000 | \$52,100,000 |
| Provincial/Territorial Governments | \$29,000,000 | \$29,700,000 | \$44,000,000 | \$36,345,000 | \$40,000,000 |
| Fondations | \$840,000 | \$1,373,000 | \$730,000 | \$587,000 | \$2,100,000 |
| International Partners | - | \$295,000 | \$1,533,000 | \$3,500,000 | \$865,000 |
| Community Service Organizations | \$168,000 | \$319,000 | \$831,100 | \$407,000 | \$792,000 |
| Municipal Governments | - | - | \$533,000 | \$313,000 | \$182,000 |
| Total investment* | \$138,008,000 | \$153,687,000 | \$217,027,100 | \$233,752,000 | \$259,439,000 |

| Partnerships with companies | 3,795 | 4,444 | 4,586 | 5,444 | 5,633 |
|---|-------|--------|--------|--------|--------|
| Social innovation research partners | - | 289 | 338 | 821 | 693 |
| Research centres | 196 | 305 | 387 | 489 | 670 |
| Faculty engaged in research | 1,196 | 1,606 | 1,774 | 2,298 | 2,491 |
| Students engaged in research | 8,329 | 13,585 | 24,108 | 29,356 | 32,093 |
| Areas of specialization | 304 | 447 | 524 | 654 | 1,083 |
| Institutions eligible for NSERC funding | 64 | 84 | 92 | 96 | 102 |
| Institutions eligible for SSHRC funding | - | 38 | 55 | 59 | 64 |
| Institutions eligible for CIHR funding | - | - | 1 | 3 | 3 |
| Research Networks | 137 | 137 | 171 | 232 | 306 |
| Partnerships with Universities | - | - | - | 62 | 89 |

^{*}Since numbers have been rounded up, sums may not correspond to totals.

Introduction

Through strong industry and community partnerships, colleges and institutes grow the talent pool employers need and support business and community innovation through applied research. The contribution of Canadian colleges and institutes to this cycle of innovation and research is crucial to our knowledge-based economy. Given their mandate to support local social and economic development, these institutions are an ideal source of innovation assistance for small and medium enterprises (SMEs) and community partners.

In December 2014, the Government of Canada launched an updated strategy: Seizing Canada's Moment: Moving Forward in Science, Technology and Innovation 2014 which builds upon the foundation in the 2007 framework to ensure that Canada remains well-positioned in the global arena for research excellence, talent, and wealth. The renewed strategy will leverage the expertise and resources of postsecondary institutions, industry, and government to translate brilliant theories and ideas into applications that will improve the day-to-day lives of Canadians and generate economic growth and jobs across the country.¹

The environmental scans Colleges and Institutes Canada has carried out since 2005-06 confirm consistent growth in college and institute capacity to conduct quality applied research, in partnership with industry and community

partners. Colleges and institutes are on the front lines of helping businesses develop new products, improve existing products and processes, and bring them to market.



This report captures the level of college and institute applied research activity for 2013-14. The responses of 119 (see Annex 1) institutions to the *Survey of 2013-14 College and Institute Applied Research Activity* confirm that colleges and institutes continue to mobilize institutional resources, faculty, and students, and expand partnerships with industry and community partners and government.

 $^{^{1}\,}https://www.ic.gc.ca/eic/site/icgc.nsf/fra/h_07490.html$

1. College and Institute Capacity

Survey results confirm there is growing institutional commitment to applied research, evidenced through institutional financial commitments, the establishment of research structures, opportunities for faculty and students, areas of research expertise, research facilities,

involvement in research networks, the use of performance measurement tools, and their impact on curricula and program delivery.



1.1 Institutional Budgets for Applied Research

Applied research is an essential part of educational programming at colleges and institutes and, many dedicate part of their core budget to funding applied research projects. For 2013-14, 112 colleges and institutes

(94% of respondents) reported a total of \$52,120,022 in institutional budgets for applied research development offices and innovative projects, up by 6% from 2012-13.

1.2 Applied Research Structures

Seventy-nine per cent of institutions are subject to provincial law that recognizes applied research, while 85% confirm that applied research is part of their college's mission statement. In all, 90% of respondents have a research and development (R&D) department dedicated

to applied research. In 2013-14, applied research and development offices reported over 1,613 full- and part-time staff, up by 21% from last year. Survey results show an increase in the number of scientific/ technical staff.

TABLE 1
PROFILE OF R&D PERSONNEL

| | Number of Full-Time Staff | Number of Part-Time Staff |
|---------------------------|---------------------------|---------------------------|
| Management/Administration | 372 | 54 |
| Technical and Scientific | 791 | 49 |
| Total | 1,163 | 103 |

1.2.1 Intellectual Property

Colleges and institutes that carry out applied research must consider the institutional policies regulating ethics, governance, integrity and conflicts of interest.

Among respondents, 80% uphold a policy regulating intellectual property within their institution.

Our Survey of Applied Research Activity confirms that intellectual property rights are clearly defined in various institutional policies. The enforcement of these rights extends to "collaborative projects with corporate partners ... the instructional objectives of the college, and the rights—academic, remunerative, and otherwise—of faculty researchers." In principle, the intellectual property remains with the industry partner.

Policies on intellectual property differ from one institution to the next. In some circumstances, after consulting business partners, colleges retain the rights to use intellectual property as part of research projects. In research involving a third party, different agreements can be negotiated that take each party's contribution into consideration. In other cases, the agreement allows the college or institute to incorporate new knowledge or technologies into their learning methods. Students having participated in a project have the right to list this accomplishment on their résumé.

Generally, when applied research involves a third party, there is an array of options regarding intellectual property. Colleges and institutes can:



- Retain all intellectual property rights throughout the project.
- Transfer intellectual property rights to the partner.
- Retain intellectual property rights only for projects led by professors.
- Retain intellectual property rights only for projects led by students.

Colleges and Institutes Canada's online Intellectual Property Toolkit helps colleges identify and manage intellectual property issues that may come up in applied research projects with industry or community partners. With support from the Natural Sciences and Engineering Research Council (NSERC), the Toolkit was designed based on data provided by colleges and institutes who receive grant funding through the Tri-Council College and Community Innovation (CCI) Program. For more information, please visit: http://www.collegesinstitutes.ca/the-issues/applied-research/ip-toolkit/welcome-to-the-college-and-institute-intellectual-property-toolkit-project/

²Fisher, Roger. (2010). Cadre conceptuel pour la recherche dans les collèges canadiens (vol.24, numéro 1), p.29.

1.3 Building Applied Research Capacity

Colleges and institutes take an institutional approach to applied research, and as such require the mobilization of various human, material and technological resources to offer client-centred services to commercial, industrial and community partners.

To this end, colleges and institutes continue to increase their research capacity by offering training activities to their faculty, non-teaching staff and students. In all, 85% of respondents offer training activities.

These activities include workshops, presentations, lectures, symposia, mentoring, one-on-one guidance to fill out grant requests, and funding to take part in conferences and

symposia. Training sessions intended to increase research capacity were offered, and touched more specifically on ethics, intellectual property and the preparation of grant requests. Some of the topics addressed included:

- · Project management
- Development of a work plan and research project
- Analysis of qualitative and quantitative data
- · Health and safety
- · Technical report writing, team building
- · Dissemination of research results
- Methodology
- Networking

1.4 Promotion and Knowledge Transfer

Knowledge transfer is a process by which information gained through research is transferred from the researcher to his or her audience. In 2013-14, 87% of respondents indicated they conducted promotional activities and marketing, and 84% mentioned knowledge transfer activities.

Knowledge can be transferred in many different ways, including seminars, conferences, symposia, presentations and publications. This provides opportunities for the creation of new partnerships with key stakeholders, particularly business and industry, but also community organizations, colleges, institutes and universities.

Presentations can address a very wide audience: college- and university-level students, recent graduates, professionals, the private sector and international partners. Almost all respondents participated in Colleges and Institutes Canada's annual symposium on applied research. This event offers participants a platform to network, discuss challenges and share best practices with the goal of increasing the number of applied research activities within their institutions.

Some colleges and institutes have developed in-house methods for disseminating research results. More and more institutions hold special theme days on applied research where students display their projects or submit their work to science competitions. A growing number of colleges and institutes transfer knowledge and showcase various projects and initiatives carried out within their institutions, whether through their own publications, or through, the publication of articles in scientific journals or specialized magazines.

Faculty have a key role in promoting applied research. Active participation by teaching staff fosters the integration of research into programs of study and improves the learning experience.

Continued - Promotion and Knowledge Transfer

In 2013-14, many institutions indicated that they use social media, such as Twitter and specialized blogs, to promote applied research. Some use digital technology to offer webinars to partners from the private sector and newsletters to share developments in applied research. An ever-growing number of institutions participate in research consortiums where they have direct contact with partners from various industries.

To stimulate general interest in applied research, some institutions are organizing symposia, producing press releases, developing promotional materials and regularly updating their websites. Radio, television, print and other media also play a key role in promoting and marketing applied research.

1.5 Eligibility with Federal Granting Councils

The Natural Sciences and Engineering Research Council of Canada (NSERC) is one of the main funding sources for applied research activities in Canadian colleges and institutes. As a result of major financial commitment in the last years through a dedicated envelope for college and institute applied research, the number of institutions eligible for NSERC funding has increased from only 13 in 2005-06 to 102 in 2013-14.

Sixty-four colleges and institutes are eligible for grants from the Social Sciences and Humanities Research Council (SSHRC), as compared to 59 last year. Three colleges are eligible for grants from the Canadian Institutes of Health Research (CIHR).

1.6 Research Opportunities For College and Institute Faculty and Staff

In 2013-14, 2,491 faculty and non-teaching staff members took part in applied research activities. This is a rise of 8% from last year. The majority of employees (65%) work part time and have an impressive range of credentials: 17% hold a college-level degree, 29% have a bachelor's; 32% hold a master's, and 23% have completed a doctorate degree.

The participation of professors and non-teaching staff is key to the success of applied research projects. The vast majority of institutions responded that their applied research office provided support for developing research projects, drafting grant requests, organizing promotional activities, seeking out contacts and setting up networks.

An increased number of colleges and institutes are allocating resources to offer faculty release time, which enables teachers and professionals to conduct collaborative research and participate in projects as co-researchers, partners or associate scientists. Institutional participation in research consortiums is also on the rise. In some cases, teaching staff can participate through internal proposal calls, writing workshops or consulting.

FIGURE 1
HOW COLLEGES AND INSTITUTES FACILITATE THE PARTICIPATION OF TEACHING STAFF IN APPLIED RESEARCH PROJECTS



1.6.1 Faculty Release Time

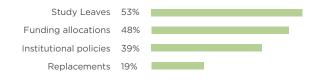
Applied research is a valuable source of ongoing professional development for teachers and a pathway to developing innovative teaching materials. Faculty release time allows a professor to devote more time to research activities, contributing to the success of applied research at the institution. In 2013-14, 83% of institutions offered their faculty release time for research.

Figure 2 lists s some ways in which colleges and institutes encourage the use of release time. Among respondents offering release time, 48% reported using funding support. In addition, 53% offered study leaves while 39% had institutional policies in place. In some cases, colleges and institutes replace their professor-researchers with part-time teachers (19%).

Funding support (48%) allows researchers to take time off from their teaching responsibilities. Some institutions have professional development funds available for professor-researchers, who can use these monies to cover their replacement costs. In other cases, an external grant, such as from the Tri-Council College and Community Innovation (CCI) Program, allows release time as an eligible expense.⁴

Some colleges and institutes report that faculty members may obtain study leaves. In some cases, institutions reorganize professor-researchers' schedules to relieve them of their teaching duties.

FIGURE 2
HOW COLLEGES AND INSTITUTES ENCOURAGE RELEASE TIME MEASURES



⁴NSERC's CCI Program is the only funding program that recognizes faculty release time as an eligible expense and provides up to \$7,000 per faculty release (to hire a replacement teacher) to allow a faculty to participate in CCI projects.

1.7 Students at the Centre of Applied Research

In 2013-14, 32,093 students participated in applied research activities, up by 9%. A majority of the students who participated in applied research activities (91%) were not paid to do so, and only 2,778 students (9%) were paid as part of a part-time job, summer job or internship.

As Roger Fisher reported in his report entitled *A Conceptual Framework for Research at Canadian Colleges*, ⁵ student participation increases hands-on learning while allowing them to acquire both interpersonal experience and training. The students who participated in research activities are better prepared to contribute to the economic and social development of their communities. ⁶ Internships in an industry setting, summer or part-time jobs, or work

as research assistants offer students valuable experience and put them directly into contact with potential employers.



Many institutions favour student participation through competitions, which highlight student projects. Many colleges and institutes also offer students applied research experience through class projects. Results also show that many institutions are requiring the completion of an applied research project at the end of their programs.

1.8 Student Entrepreneurship

Entrepreneurship is key in stimulating innovation, productivity, job creation and economic growth. In general, countries with a high level of entrepreneurial activity have better economic performance. In 2013-14, 90% of institutions supported student entrepreneurship and 7,639 students received funding support to start a business, up by 52% from the previous year. Increasingly, institutions are incorporating courses on entrepreneurship into their curricula to prepare new graduates for this path.

Many colleges and institutes create opportunities for students to discover entrepreneurship through interactions with entrepreneurs willing to share their business experience.

In a country as economically diverse as Canada, where unemployment rates vary by region, young entrepreneurs are a major driving force in the creation of local jobs.

⁵A Conceptual Framework for Research at Canadian Colleges; Cadre conceptuel pour la recherche dans les collèges canadiens. ⁶lbid, p.28.

Examples of Entrepreneurship Centres and Incubators at Colleges and Institutes

ALBERTA

Medicine Hat College's Entrepreneur Development Centre provides students seed money to develop and implement business ideas, and receive business coaching and mentorship.

The Northern Alberta Institute of Technology's

Duncan McNeill Centre for Innovation (DMCI) provides
business incubation and development services to help
entrepreneurial start-ups become high-growth companies.

ONTARIO

Centennial College's Centre of Entrepreneurship helps teach, coach and inspire aspiring entrepreneurs. The Centre provides the tools and experience needed to turn ideas into reality with hands-on training taught by seasoned business experts, and supports a student business incubator competition.

The Centre d'orientation et d'entrepreneuriat at **Collège Boréal** supports the integration of new immigrants and assists them to develop business start-up plans.

George Brown College's Institute of Entrepreneurship and Community Innovation (IECI) helps young entrepreneurs start small businesses through the Creating Entrepreneurial Opportunities Program and provides consulting services to local not-for-profit organizations and small- to-medium-sized businesses through IGNITE consulting services.

Georgian College's Centre for Social Entrepreneurship promotes innovative and transformative social change processes. Students and graduates learn how to develop new social enterprises and use their newly developed skills within community organizations. Additionally, the Centre teaches skills that will help to increase opportunities for self-employment and to create new businesses within the region.

QUEBEC

Dawson College's Centre for Innovation and Entrepreneurship Education serves as a portal and central hub for entrepreneurship education, promotion, advancement, support and resources. The Centre drives entrepreneurial initiatives, economic growth and productivity in the artistic and cultural sectors in Montreal with emphasis on economic, social and environmental responsibility, and sustainability.

Cégep Garneau offers an entrepreneurship stream for students registered in business administration and who want to start their own business. The *Garneau Travail* business training centre is also available to students from all departments who wish to explore entrepreneurship, and develop administrative and managerial skills through hands-on experience.

Cégep de Jonquière operates Tango, a business training centre for students in their business management program. Students can learn the realities of local businesses, build a network of contacts and put their business skills to work. This school-based business resource offers sound training in entrepreneurship.

1.8.1 The Integration of Entrepreneurship in Curriculum

The integration of entrepreneurship in curriculum at colleges and institutes contribute to the development of innovation across Canada. In 2013-14, more than 558 courses or programs that integrate entrepreneurship into curricula were offered in colleges and institutes. Students acquired the skills to write business plans, start a business and manage projects.

In Quebec, **Cégep de Sherbrooke** offers a program in agricultural business management and technologies with a wide range of courses to develop students' entrepreneurship skills. For example, courses such as *Planning Business Development* and *Micro-Businesses and the Business Plan* are incorporated into the curriculum. Accounting and management students can also take a class on starting a business and the overall economic context.

The Youth Secretariat of the Government of Quebec has also developed a pedagogical guide, entitled Entrepreneurial Spirit in College - Getting down to business, which aims to support college faculty in building entrepreneurial skills across programs. The guide is offered in both official languages at https://www.jeunes.gouv.qc.ca/documentation/outils/brochures-guides/entreprendre-collegiale.asp

In the Atlantic region, Nova Scotia Community College teaches the underpinnings of entrepreneurship through its business administration, cosmetics, graphic design and music programs to prepare students to develop innovative projects.

In Alberta's **Olds College**, all students who intend to graduate with a certificate, a diploma or applied degree will complete Spirit of Entrepreneurship – a gamified entrepreneurship iPad app – as a graduation requirement. The app starts out simply: students buy and sell lemonade stand inventory to the citizens of The Blands. Mini-games

and awards encourage students to move through 12 modules of comprehensive content. As they progress through the content, more activities are unlocked in the game. As students become more skilled, they are able to run their stands more effectively and, hopefully, more profitably. Students are required to assess their business environment, make financial decisions, and apply marketing strategies within the game itself. They are also able to review slide notes and interact with each other, in real-time, right from the app.

In Manitoba, University College of the North offers two interesting classes, Entrepreneurial Development and New Ventures Analysis. These courses focus on shaping students' abilities to think about creating their own business, to evaluate situations from a strategic perspective, and to reach strategic decisions. Accomplishing these objectives entails introducing students to how an enterprise must deal with all complexities and constraints of the environment in which it operates, why none of these can be assumed away or ignored, and how situation factors impact strategic decisions.

1.8.2 Incubators

Creating a business is an invaluable source of wealth that directly contributes to the economic growth of an industry, region and country. However, from initial idea to business development, it is an arduous process that often fails. A true sign of the momentum entrepreneurship is gaining, many colleges and institutes now offer assistance in the form of business incubators. The basic premise is to support the entrepreneurs, rather than the businesses. If their business plans do not pan out, entrepreneurs can participate in other incubator projects.

In Alberta, **SAIT** Polytechnic's Idea Incubator is inventing new ways to design collaborative instruction for students that reflects workplace teamwork. The IDEA Room (Instructional Development and Enhancement) is a revolutionary new concept to promote brainstorming, organization and the capture of ideas. It combines new educational technology and novel teaching methods with brain power and collaboration to generate new initiatives and inspire action and innovative thinking.

In Ontario, the incubator at **Durham College** is a collaborative effort with the University of Ontario Institute of Technology and the Durham Strategic Energy Alliance/Spark Centre to support entrepreneurial activities. It was envisioned as a suite of resources for inventors and entrepreneurs, helping them bring their ideas from concept to successful commercialization while engaging students and faculty in research. Value-added services for clients, students and faculty will be provided in the future such as workshops that help inventors and entrepreneurs more rapidly define their ideas and value proposition. As well, an expanded relationship with the Business Advisory Centre Durham was developed.

Conestoga College's Accelerator Centre (AC) provides an essential combination of in-house mentorship, educational programming, facilities, networking, and access to funding and facility services, with a goal of building successful companies. The AC helps entrepreneurs move from start-up to scale-up, accelerate their time to market, and help them attract customers, investment and revenue.

Cégep Garneau will soon open a business incubator to support start-ups by providing mentoring and technical services to young entrepreneurs. Businesses can use the Espace Entreprendre space for up to 12 months.

The Marconi Campus at **Nova Scotia Community College** offers a range of programs and a friendly learning atmosphere. The campus business centre serves as an incubator for small businesses and provides opportunities for students to work part-time in their field of study, and build their portfolio. It also provides the resources to help them develop their own small business ideas.

Holland College partnered with the Government of Prince Edward Island to offer a business incubator program for students interested in starting their own business. The LaunchPad space at Holland College provides a professional setting for start-up companies and includes office furniture and access to communications technologies.

The **Humber College** ITAL HumberLaunch incubator provides Humber students and alumni with the environment and resources to cultivate innovative ideas into successful business ventures. This is achieved by offering Humber entrepreneurs funding, mentorship, coaching, resources, business development, one-on-one assistance and meeting facilities.

1.9 Research Specializations and Expertise

Colleges and institutes identified a growing number of fields of specialization in research. With the 2013-14 results, 1,083 areas of research have been identified, compared to 654 for the year before—an increase of 66%.

Table 2 displays in six categories the fields of specialization from the ten provinces and three territories:

- · Natural Resources and Energy
- Environmental Science and Technologies
- Health Medical and Life Sciences
- Information & Communication Technologies
- Manufacturing and Building Technology
- Social Innovation

The top three categories are highlighted in different colours. The fields of research are mainly aligned with the socioeconomic needs met by the colleges and institutes. The list of all areas of specialization is provided in Annex 2.

Institutions in Ontario stand apart in five of the six categories, especially in manufacturing and building technologies, and health, medical and life sciences. Alberta had high areas of concentration in social innovation, natural resources and energy and the environment. Social innovation, health and the environment are the main areas of activity in British Columbia. Quebec stands out with its high number of specializations in manufacturing and building technologies, environment and natural resources.

TABLE 2
BREAKDOWN OF RESEARCH SPECIALIZATIONS - TOTAL 1,083

| | * | 汁 | | | Ę | 9 | | | J | | ήÑ | |
|------------------------------|------------------------------------|------|--------------------|------|--|------|--|------|---|------|----------------------|------|
| | Natural Resources and Energy | | ources Science and | | Health Medical and Life Sciences | | Information & Communication Technologies | | Manufacturing and Building Technology | | Social Innovation | |
| | # | % | # | % | # | % | # | % | # | % | # | % |
| Newfoundland and Labrador | 7 | 3% | 7 | 4% | 2 | 1% | 3 | 2% | 5 | 3% | 2 | 1% |
| Prince Edward Island | 4 | 2% | 2 | 1% | 3 | 2% | 1 | 1% | 3 | 2% | 4 | 2% |
| Nova Scotia | 9 | 4% | 12 | 7% | 2 | 1% | 3 | 2% | 9 | 5% | 0 | 0% |
| New Brunswick | 10 | 4% | 2 | 1% | 4 | 2% | 4 | 3% | 7 | 4% | 6 | 3% |
| Quebec | 28 | 13% | 26 | 15% | 6 | 4% | 19 | 14% | 26 | 15% | 47 | 22% |
| Ontario | 60 | 27% | 39 | 23% | 62 | 38% | 61 | 45% | 72 | 41% | 46 | 21% |
| Manitoba | 12 | 5% | 7 | 4% | 4 | 2% | 4 | 3% | 2 | 1% | 14 | 7% |
| Saskatchewan | 6 | 3% | 3 | 2% | 5 | 3% | 1 | 1% | 1 | 1% | 3 | 1% |
| Alberta | 48 | 22% | 32 | 18% | 28 | 17% | 18 | 13% | 24 | 14% | 34 | 16% |
| British Columbia | 29 | 13% | 32 | 18% | 43 | 26% | 18 | 13% | 22 | 13% | 54 | 25% |
| North West Territories | 3 | 1% | 6 | 3% | 2 | 1% | 1 | 1% | 1 | 1% | 0 | 0% |
| Nunavut | 2 | 1% | 1 | 1% | 1 | 1% | 1 | 1% | | 0% | 1 | 0% |
| Yukon | 5 | 2% | 4 | 2% | 1 | 1% | 1 | 1% | 3 | 2% | 3 | 1% |
| Total | 223 | 100% | 173 | 100% | 163 | 100% | 135 | 100% | 175 | 100% | 214 | 100% |



1.10 Research Centres and Laboratories

With the results of the 2013-14 Applied Research Survey, 670 research centres and laboratories have been identified, this is 181 more than the previous year. Table 3 illustrates the breakdown of these centres by province and territory. A more detailed list of research centres and laboratories is provided in Annex 3.



TABLE 3
BREAKDOWN OF CENTRES AND RESEARCH LABORATORIES - TOTAL 670

| | Natu Resou | | Environ | | Hea Medica | | Informa | | Manufa and Bu | | Soci | |
|------------------------------|---------------|------|---------|------|---------------|------|---------|------|------------------|-----|-------|-------|
| | and E | | Technol | | Life Sc | | Techno | | Techn | | Innov | ation |
| | # | % | # | % | # | % | # | % | # | % | # | % |
| Newfoundland and Labrador | 4 | 3% | 1 | 1% | 2 | 2% | 1 | 1% | 2 | 1% | | |
| Prince Edward Island | 1 | 1% | 1 | 1% | 3 | 3% | | | 3 | 2% | 1 | 1% |
| Nova Scotia | 4 | 3% | 3 | 4% | 1 | 1% | 3 | 3% | 4 | 3% | | |
| New Brunswick | 2 | 2% | 0 | | 2 | 2% | 4 | 4% | 4 | 3% | 1 | 1% |
| Quebec | 19 | 15% | 13 | 16% | 9 | 8% | 13 | 13% | 29 | 19% | 31 | 31% |
| Ontario | 44 | 34% | 31 | 38% | 62 | 56% | 54 | 56% | 78 | 51% | 24 | 24% |
| Manitoba | 7 | 5% | 1 | 1% | 3 | 3% | 2 | 2% | 6 | 4% | 2 | 2% |
| Saskatchewan | 2 | 2% | 1 | 1% | 2 | 2% | 1 | 1% | | | 2 | 2% |
| Alberta | 30 | 23% | 15 | 18% | 10 | 9% | 10 | 10% | 14 | 8% | 13 | 13% |
| British Columbia | 6 | 5% | 14 | 17% | 16 | 14% | 7 | 7% | 12 | 8% | 24 | 24% |
| North West Territories | 3 | 2% | 0 | | 0 | | 0 | | | | | |
| Nunavut | 4 | 3% | 0 | | | | 1 | 1% | | | | |
| Yukon | 2 | 2% | 2 | 2% | 1 | 1% | 1 | 1% | 1 | 1% | 1 | 1% |
| Total | 128 | 100% | 82 | 100% | 111 | 100% | 97 | 100% | 153 | 99% | 99 | 100% |



Institutions in Ontario reported the highest number of research centres and laboratories across the six areas of research, except social innovation. Similar to last year, Quebec has the largest number of research centres in social innovation. Alberta stands out in the natural resources, environmental and health fields, while in British Columbia

there is a high proportion of centres for social innovation and life sciences. Newfoundland and Labrador, Nova Scotia and the Yukon have seen a slight increase in the number of centres in natural resources and energy, and in the health, medical and life sciences.

1.11 Research Networks

The 2013-14 survey identified 306 research networks at the local, regional, provincial and national levels. A list of the research networks is available in Annex 4.



1.11.1 Provincial and Territorial College and Institute Research Networks

The provincial and regional research networks strive to increase institutions' capacity through knowledge sharing and developing common practices. The current provincial and regional networks are described below.

The British Columbia Applied Research and Innovation Network (BCARIN), with representatives from colleges in British Columbia and from Yukon College, meets to share information about applied research and innovation activities and to support the development of institutional policies and practices. http://www.bcarin.ca/

The Heartland Applied Research Partners (HARP), formerly the Great Plains Applied Research Network (GPARN), comprises directors of applied research from Red River College and Saskatchewan Polytechnic, and senior officers of academic and research services from University College of the North and Assiniboine Community College. HARP delivers applied research capacity that brings value to students, industry and community partners and the regional economy.

The Colleges Ontario Network for Industry Innovation (CONII) comprises 24 colleges and institutes supported by the Ministry of Economic Development and Innovation. CONII connects SMEs to the applied research and commercialization expertise of colleges and institutes to help SMEs develop their products and become more competitive. All 24 colleges and institutes have representation on the Colleges Ontario Heads of Applied Research Committee that assists with the promotion and expansion of applied research. Effective February 1st, 2013, CONII was integrated into the Ontario Centres of Excellence (OCE). OCEs, with support from the provincial and federal governments, drive the development of Ontario's economy by helping create new jobs, products, services, technologies and businesses. In partnership with industry and universities, OCEs invest in commercializing the innovations coming out of the province's colleges, universities and research hospitals.

http://www.oce-ontario.org/

Representing the 48 cégeps of Quebec, the Association pour la recherche au collégial (ARC) works to develop research in college-level academic institutions by taking a position on relevant and related issues, hosting activities and lectures, setting up support measures for research, and awarding prizes. http://vega.cvm.qc.ca/arc

The Réseau Trans-tech groups Quebec's 49⁷ college centres for the transfer of technology (CCTTs). Falling under cégeps' authority, CCTTs s are recognized by Quebec's ministère de l'Éducation, du Loisir et du Sports (MELS). The CCTTs' mandate is to conduct applied research activities and provide technical support and information in a particular field to help develop and accomplish technologically and socially innovative projects and implement and disseminate innovation. http://reseautranstech.qc.ca/

The Applied Research Network of the Atlantic Provinces Community College Consortium is formed of research directors from the College of the North Atlantic, Nova Scotia Community College, Holland College, New Brunswick Community College and the Collège communautaire du Nouveau Brunswick. Its primary mandate is to help applied research progress through collaboration, cooperation and the sharing of best practices. http://www.apccc.ca/research/reference.html

The Social Economy Research Network of Northern Canada is part of a national research program funded by the SSHRC. This network is led by Aurora College, Nunavut Arctic College and Yukon College and their respective research institutes. The network links researchers working in the North with students, community organizations and universities for research on the following themes: the social economy in northern Canada; resource regimes and social economy in the north; the impact of public policy on social economic development in the north; and indigenous communities and the social economy. http://yukonresearch.yukoncollege.yk.ca/sern/aboutsernnoca/

⁷There are currently 49 CCTTs in Quebec. However, at the time of this study, only 46 CCTTs were recognized by the MELS.

1.11.2 Regional and Sector-Specific Networks

Involvement in regional and sector-specific research networks enables colleges and institutes to remain abreast of industry innovations and connected to leading edge practices and research. The following are some examples of sector research networks.

The Regional Innovation Network of Southern Alberta (RINSA) is a collaborative partnership between Lethbridge College, Economic Development Lethbridge, and the University of Lethbridge, with support from Community Futures Lethbridge Region, SouthGrow Regional Initiative and the National Research Council – Industrial Research Assistance Program. RINSA serves an area from south of Calgary to the Canada/USA border, and from the Town of Taber to the Alberta/BC border, however, its effect is felt far beyond these informal borders. The purpose of RINSA is to offer entrepreneurs and SMEs:

- Innovation support, technology transfer and commercialization programs;
- Marketing, business development, training and export development services;
- · Networking and match-making services;
- Business incubation opportunities;
- Access to funding at various stages (vouchers, angel investment, venture capital) and;
- Access to funding through Community Futures' lending services for start-up and/or expansion.

http://www.rinsa.ca/

The Canadian Rural Research Network (CRRN) facilitates sharing of research outputs and research-related information among various rural stakeholders, from academia, the public sector and the private sector, including practitioners, professional consultants, formal and informal community groups and organizations, local government and government officials. The CRRN is a vehicle for partners on the demand and supply side of rural research to keep up-to-date with rural research news, to make connections with other stakeholders or interested parties, and to develop partnerships for research and dissemination purposes. The Selkirk College in British Columbia is a member of the CRRN along with public colleges in Alberta, which are also members of the Alberta Rural Development Network.

The Interactive Manufacturing Innovation Networks

(iMiN) is an online network for manufacturers throughout Ontario, developed in partnership with local manufacturers, government, associations and academic institutions. iMiN helps manufacturers become more innovative by building awareness and innovation throughout Ontario and beyond. iMiN aims to improve collaboration and knowledge sharing between companies and industry professionals facilitate the sharing of best practices, standard protocols and new innovations. Centennial, Conestoga, Durham, St. Clair, St. Lawrence and Seneca Colleges are members of iMiN. http://www.iminonline.ca/

The Territoire innovant en économie sociale et solidaire (TIESS-OLT) has been established in Quebec by the Chantier de l'économie sociale, the Centre de recherche sur les innovations sociales (CRISES), the Karl Polanyi Institute at Concordia University, and the Université du Québec à Montréal, Service aux collectivités. Cégep régional de Lanaudière is involved in TIESS-OLT through their social innovation research activities. TIESS-OLT gathers organizations and researchers in the social economy field, and centralizes and broadcasts information on innovation that meets regional development needs. http://www.chantier.qc.ca/?module=document&uid=2056.

The Geomatics Association of Nova Scotia (GANS) is a non-profit association created to help further promote the development of the geomatics industry in Nova Scotia, while making it competitive both domestically and internationally, and increasing its material contribution to the provinces economy. GANS fosters geomatics within all sectors of the Nova Scotia economy through collaboration among a broad membership representing the public and private sector. The Centre of Geographic Sciences at Nova Scotia Community College works closely as a private partner with GANS. http://www.gans.ca/

1.12 Performance Measurement of Applied Research

Colleges and institutes use performance measurement metrics and tools to report on applied research activity.

Colleges and institutes in Alberta, Ontario and Quebec have strong performance measurement and reporting systems owing to research-intensive provincial associations.

In 2013-14, 61% of respondents had performance indicators in place. Colleges and institutes identified the following performance indicators that most effectively demonstrate the impact of research activities on business or community partners:

- Number of new products, technologies, services or processes
- Number of prototypes
- Number of improved products, technologies, services or processes
- · Number of new licenses
- Number of patents
- Number of jobs created or maintained for the company or community partner

Colleges and institutes identified the following indicators to report on the impact of applied research on institutions, faculty, staff and students. The institutions establish indicators that summarize their contributions:

- Number of students who participate in these projects
- Number of professors and professionals participating in the applied honours projects
- Number of business and community partners
- Funding for research activities and the total of in-kind contributions invested by SMEs in research and development projects

- Impact of applied research on (1) businesses, (2) community, (3) faculty (4) and students
- Number of partnerships
- Number of businesses having received R&D services from the college
- Number of projects under member agreement in the NRCC's IRAP network
- Number of specialized workshops offered
- Number of articles published in scientific journals
- Return on investment of provincial grants

In Quebec, the Ministère de l'Enseignement supérieur, de la Recherche et de la Science (MESSR) produced the *Rapport d'évaluation de la performance du dispositif des centres collégiaux de transfert de technologie (CCTT)* (evaluation report for the performance of college centres for technology transfer), which assessed CCTT research activities.

1.13 The Legacy Impact of Applied Research on Curricula

Introducing applied research to curricula has forged new ways of learning in colleges and institutes. Students can now work directly on innovative and applied research projects in collaboration with partners from the private sector. Fulfilling applied research mandates also allows faculty to stay abreast of the latest trends. As a result, research has been

integrated directly into many new courses. Survey findings show that colleges and institutes offer many courses with applied research projects and therefore the long-term effects of applied research can be felt by employers, in students' learning process, the educational approach and the programs.

1.13.1 Impact for Students

Applied research provides students with an authentic learning experience, enriches their academic background and allows them to be even further engaged in their studies. It links faculty members with outside partners by aligning the curriculum with the industry's future needs. As a result, students develop rigour and professional skills that are desirable in the job market. Applied research activities facilitate skill acquisition in innovation. Various applied research activities in the classroom round out existing coursework and help students acquire or deepen the concepts and values of innovation, scientific research, social development, community involvement and sustainable development.

The NSERC-funded Industrial Research Chair for Colleges at the Cégep de Sept-Îles focuses on railway operations and maintenance. More specifically, it is focused on operating long and heavy rail convoys in northern areas. A total of 33 students participated in the research projects and 25 students attended a lecture on industrial maintenance, with a section on railway maintenance. Several projects would never have seen the light of day without the Chair, and therefore student participation would not have occurred.

1.13.2 Impact on Curriculum

Applied research also has an impact on teaching methods. Students participate in interactive learning sessions and have opportunities to solve the types of problems they could encounter in the workforce. This added-value in students' training strengthens coursework. Employers prefer learning approaches, where students develop employment-ready skills. New technologies are incorporated into the curriculum and specific projects can be used as examples throughout the semester.

The integration of applied research and curricula also keeps program content current and provides access to industry-relevant technologies and equipment. The inter-relationships between industry and teaching staff allow teachers to stay informed in their respective fields.

Colleges and institutes reported that the integration of applied research in curriculum fosters new partnerships with industry and business, and strengthens existing partnerships. It is an opportunity for students to develop a passion that can lead them to create businesses or develop and improve products, processes or services.

The Office of Research and Innovation at George Brown College has launched a new digital badging program to acknowledge students' participation and accomplishments in applied research. A digital badge of excellence in research and innovation indicates a tangible experience in a real and professional setting as part of applied research at the college. Students who receive these badges have acquired hands-on skills that may not be reflected on their transcripts. These skills include problem-solving, teamwork and finding innovative solutions to industry issues.

1.14 Outcomes of Applied Research

The fine-tuning of new products and capitalizing on innovative ideas is key to improving productivity in Canada. Respondents were asked to report on the number of products, processes and services that were created or

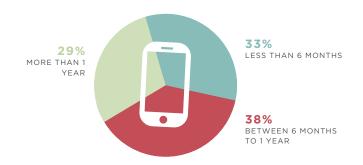
improved through their applied research activities, and the timeframe over which these activities were carried out.

1.14.1 Products

Respondents identified 467 products, most of which were designed or improved over a short period (6 months to 1 year), including:

- · Mobile applications
- A manipulator robot
- · A solar mill
- A network of wireless sensors for an energy efficiency measurement system
- An online tutorial for reading, analysis and writing of documents
- An optical eye for pharmacies
- · A network of captors at water level
- Agricultural products (seeds)

FIGURE 3: PRODUCTS



In May 2011, Red River College became a partner in an international consortium with Mitsubishi Heavy Industries, New Flyer Industries, Manitoba Hydro and the Province of Manitoba to develop an all-electric, zero emission transit bus and rapid charger. The project grew with additional support from Sustainable Development Technology Canada, City of Winnipeg, Manitoba's Vehicle Technology Centre and NSERC CCI ARD-2 grant.

In 2014, the consortium achieved their goal of developing and testing a prototype all-electric transit bus and rapid charger that works in Winnipeg's harsh winter conditions. This was followed by full production and field demonstration, bringing four more buses into full service with Winnipeg Transit.

1.14.2 Processes

Colleges and institutes also improve or design processes through applied research. A process refers to a continuous series of actions or steps taken in order to achieve a particular end.

For 2013-14, respondents identified 243 processes, such as:

- · Automation of tool injection moulding process
- Automated the production line for a local manufacturer
- · Aquaculture monitoring protocols
- Correction methods for telescope beams
- · New welding process
- IT infrastructure to improve shipping processes
- Liquid extraction process
- Vegetable cultivation techniques
- Prescription verification system for pharmacies
- GPS technology solution to track materials on job sites.

FIGURE 4: PROCESSES



Once again, a relatively stable breakdown can be seen across time, as shown in Figure 4.

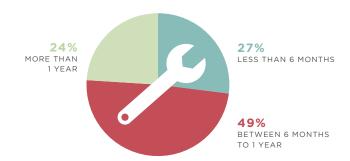
Zandel Média, Inc. works in digital entertainment. Created in 2011, the Zandel called on the Cégep de Matane's Centre de développement et de recherche en imagerie numérique (CDRIN) for assistance in their innovation process. A CCI Program Level 1 Applied Research and Development grant received in 2012 led to a proof of concept to combine the interactivity of the video game with the richness of movie images in yet unattained ways. Jean-Michel Simard,

professor of Multimedia Integration Techniques, and Maxime-Raphaël Cyr, professor of 3D Cartoon Images and Image Synthesis participated in research work and development for this proof of concept. Four years later, on November 26, 2014, Zandel officially launched MISSING, its first interactive suspense application. The day following its launch, MISSING proudly figured among the top paid applications on iTunes Canada.

1.14.3 Services

Applied research also produces services, which are non-material goods, the production and consumption of which are simultaneous. This could include wholesale and retail sales, restaurants and hotels, transportation, storage, communications, finance, insurance and community, social or personal services. Colleges and institutes identified 65 services developed over the course of 2013-14, Examples include the establishment of local open online courses (LOOC), and the use of digital tablets for teaching purposes.

FIGURE 5: SERVICES



1.14.4 The Impact of CCTTs in Quebec

Réseau Transtech was not able to provide specifics with respect to the number of products, processes, and services developed by the 46 CCTTs. They did, however, provide an indication of the impact CCTTs are having in on local businesses and communities in Quebec from a 2014 report entitled *La contribution économique des cégeps et des centres collégiaux de transfert de technologie*.

The CCTTs have worked with an ever-growing number of businesses and organizations. Many SMEs in the embryonic stage are lacking financial and human resources, thus slowing their innovation. The collaborative approach of the CCTT networks fills this need and strengthens the cycle

of innovation. In parallel, income from these activities is assessed at 50.4 million dollars for 2012-13.8 CCTTs have carried out 8,678 mandates in more than 3,800 organizations, 65% of which are SMEs and 15% are large companies. They also led 1,450 applied research projects, 5,400 technical support projects and 1,700 training and information projects.

⁸ KPMG (2014).La contribution économique des cégeps et des centres collégiaux de transfert de technologie, p. 16.

2. External Funding Sources

The Survey of Applied Research Activity has confirmed that, over the last five years, colleges and institutes have been receiving increased funding for applied research, particularly from the private sector and the federal government.

In 2013-14 colleges and institutes reported \$207,365,756 in external funding, up by 12% from 2012-13. Table 4 shows that the federal government remains the largest source of funding for college and institutes for a total of \$85,124,512, up 19% from the previous year. Contributions from the private sector are also significant at \$78,275, 654, a 9% increase from the previous year.

Investments from provincial and territorial governments are assessed at a total of \$40,025,691, up 10%. Contributions from foundations quadrupled in 2013-14, while those from community-based organizations doubled.

Colleges and institutes also reported a decrease in contributions from municipalities and international partners.

TABLE 4
EXTERNAL FUNDING SOURCES FOR COLLEGES AND INSTITUTES IN APPLIED RESEARCH

| Funding Sources | 2009-2010 | 2010-2011 | 2011-2012 | 2012-2013 | 2013-2014 |
|---------------------------------------|---------------|---------------|---------------|---------------|---------------|
| Federal Government | \$27,886,643 | \$33,661,068 | \$71,978,719 | \$71,424,198 | \$85,124,512 |
| Private Sector | \$44,622,335 | \$50,376,575 | \$59,445,302 | \$71,948,284 | \$78,275,654 |
| Provincial/Territorial Governments | \$28,821,309 | \$29,760,550 | \$44,034,464 | \$36,344,644 | \$40,025,691 |
| Fondations | \$838,411 | \$1,372,555 | \$730,347 | \$587,468 | \$2,100,513 |
| Community Service Organizations | \$167,575 | \$318,554 | \$831,083 | \$406,960 | \$791,962 |
| Municipal Governments | - | - | \$532,762 | \$313,131 | \$181,555 |
| International Partners | - | \$295,260 | \$1,532,583 | \$3,510,400 | \$865,869 |
| Total | \$102,336,273 | \$115,784,562 | \$179,085,260 | \$184,535,085 | \$207,365,756 |

In 2013-14, 95% of external funding was for business and industrial research and 5% for social innovation. Colleges and institutes saw a considerable rise (20%) in research on social innovation funded by the private sector and foundations for a total of \$3,744,402. Municipalities invested in industrial research more than in social innovation. In contrast, over

the same period, foundations favoured research in social innovation (52%) over commercial and industrial research (48%). The proportion of investment from the Government of Canada in industrial research dropped slightly this year (91%), compared to last year (97%).

Table 5 shows the sources of federal funding for 2013-14. The Tri-Council College and Community Innovation program, administered by NSERC, is again the main funding source this year, for a total of \$46,427,328, up 30% from 2012-13.

The second funding source is the Canada Foundation for Innovation, which makes up 15% of all federal sources (doubling from last year). Funding from Western Economic Diversification also rose (85%) and represents 9% of federal sources. In 2013-14, the CCTTs received \$3,171,753 from the Canada Economic Development for Quebec Regions—a 32% rise from the previous year. However, colleges and institutes reported a major drop (-29%) in the funding received through the Indirect Costs Program, which added up to \$798,785.

TABLE 5
FEDERAL FUNDING FOR APPLIED RESEARCH IN COLLEGES AND INSTITUTES

| Tri-Council College and Community Innovation Program | \$46,427,328 |
|---|--------------|
| Canada Foundation for Innovation | \$12,920,602 |
| Western Economic Diversification | \$8,036,555 |
| Federal Economic Development Agency for Southern Ontario (FedDev Ontario) | \$3,243,065 |
| Canada Economic Development for Quebec Regions | \$3,171,753 |
| National Research Council - Industrial Research Assistance Program (IRAP) | \$2,434,109 |
| Federal Economic Development Initiative for Northern Ontario | \$1,343,000 |
| Atlantic Canada Opportunities Agency | \$1,220,537 |
| Natural Sciences and Engineering Research Council (non-CCI) | \$1,125,708 |
| Department of National Defence | \$820,283 |
| Federal Government Indirect Costs Program | \$798,785 |
| Employment and Social Development | \$725,936 |
| Canadian Institutes of Health Research | \$184,939 |
| Agriculture Agri Food Canada | \$478,372 |
| Aboriginal Affairs and Northern Development | \$456,991 |
| Social Sciences and Humanities Research Council | \$390,239 |
| Canadian Northern Economic Development Agency (CanNor) | \$361,234 |
| Citizenship and Immigration Canada | \$336,079 |
| Environment Canada | \$184,610 |
| Other | \$130,769 |
| Canada Research Chairs | \$100,000 |
| Natural Resources Canada | \$99,832 |
| International Development Research Centre | \$60,000 |
| Parks Canada | \$50,000 |
| Transport Canada | \$18,113 |
| Health Canada | \$5,672 |
| Total | \$85,124,512 |

2.1. Tri-Council College and Community Innovation Program

The Tri-Council College and Community Innovation (CCI)
Program was founded in 2008 and is managed by the
Natural Sciences and Engineering Research Council of
Canada (NSERC) in partnership with the Social Sciences and
Humanities Research Council (SSHRC) and the Canadian
Institutes of Health Research (CIHR).

The CCI Program aims to increase innovation at the community and/or regional level by enabling Canadian colleges to increase their capacity to work with local companies, particularly small- and medium-sized enterprises

(SMEs). It supports applied research and collaborations that facilitate commercialization, as well as technology transfer, adaptation and adoption of new technologies.

Since its inception, the Program has demonstrated benefits for all stakeholders: increased research capacity of colleges and institutes, value-added research partnerships that benefit companies and colleges, enhanced curricula and professional growth for faculty and employment opportunities for students.

Innovation Enhancement (IE) Grants enhance college applied research capacity and strengthen industry partnerships. IE grants are awarded for either a two-year or a five-year period. The two-year grants include funding of \$100,000 per year over two years. The five-year grants include funding of up to \$500,000 per year for the first three years, and up to \$400,000 for the remaining years.

Applied Research and Development (ARD)⁹ Grants provide companies with access to college expertise and student support for specific research projects that help solve problems geared to business goals. The grants range from six months to three years in duration and have three levels of funding – under \$25,000; up to \$75,000; and over \$75,000.

Applied Research Tools and Instruments (ARTI) Grants support the purchase of research equipment and installations to enhance college applied research with industry partners. Grants range from \$7,000 to \$150,000.

Technology Access Centre (TAC) Grants provide companies with access to college expertise, technology and equipment. TAC grants provide five-year, renewable funding of up to \$350,000 per year.

Industrial Research Chairs for Colleges (IRCC) Grants support applied research leaders in economic sectors that spark greater innovation in communities, enhanced teaching and curricula, and more opportunities for college-industry and college-university partnerships. IRCC grants range from \$100,000 to \$200,000 annually.

College-University Idea to Innovation (CU-I2I) Grants develop and strengthen collaborations between colleges, universities and businesses to improve a company's technology or commercial products, processes or services. CU-I2I grants are valued up to \$250,000 per year, for up to three years.

For 2013-14, colleges and institutes received \$46,427,328 from the CCI Program, as shown in Table 6. As in the previous year, the highest proportion (39%) of the funds was for the five year Innovation Enhancement grants. The Applied Research Tools and Instruments grants, the Applied Research and Development grants and the Technology Access Centre grants account for 22%, 15% and 9%, respectively.

⁹ÀEffective April 1, 2015:

⁽¹⁾ The ARD Level 1 Grant will be renamed Engage for Colleges Grants and will be grouped with the university Engage Grants.

⁽²⁾ The ARD Levels 2 and 3 Grants will be combined into one Applied Research and Development Grants (with two levels of funding and matching).

TABLE 6
TRI-COUNCIL CCI FUNDING (2013-2014)

| Tri-Council CCI Grants | Total |
|--|--------------|
| Innovation Enhancement grants (5-yr) | \$18,106,011 |
| Applied Research Tools and Instruments (ARTI) grants | \$10,326,978 |
| Applied Research and Develop (ARD) grants | \$6,995,411 |
| Technology Access Centre (TAC) grants | \$4,325,454 |
| Industrial Research Chairs for Colleges (IRCC) | \$3,500,500 |
| College-University Idea to Innovation Program | \$2,356,166 |
| Innovation Enhancement Grants | \$599,960 |
| Technology Access Centres—letters of intent | \$96,630 |
| Workshops on best practices | \$90,000 |
| Grants for partnership workshops | \$17,561 |
| Undergraduate research grants | \$12,656 |
| Total | \$46,427,327 |

Increased investments in the CCI Program to support student applied research awards for college students in diploma and post-diploma programs would provide more students with industry-relevant research experience that contribute to business innovation.

For the 2014-15 fiscal year, requests for five-year innovation enhancement grants have increased by 64% (46 for the current year compared with 28 for last year). The 2014-15 CCI Program budget can only fund eight new grants. In 2014-15, 32 TAC grant applications were received. In the next two years, the budget can only fund three full TACs and three incremental TACs (in Quebec) annually.

Colleges and Institutes Canada recommends an increase to the budget of the CCI program by \$25 million annually:

- \$15 million to meet the increased demand for Innovation Enhancement and Applied Research and Development grants;
- \$7 million to fund 20 additional Technology Access Centres, and;
- \$3 million to establish a dedicated envelope within the CCI for 650 applied research awards for students in college diploma, degree and post-graduate programs.

2.1.1. Impact of the CCI program

Colleges and institutes confirmed the CCI Program builds capacity within their institutions, enhances research partnerships and contributes to economic and social development within the communities and regions they serve. Applied research enhances links to local businesses, bolsters research infrastructure, develops specialized research centres, and enhances curriculum by integrating research results into

academic programs. Students gain hands-on experience with industry to conduct research, troubleshoot problems, and develop products. On the other hand, companies benefit from access to the expertise and technologies available in colleges and institutes.

2.2. Social Sciences and Humanities Research Council

The mandate of the Social Sciences and Humanities Research Council (SSHRC) is to promote and support postsecondary research and research training in the social sciences and humanities through partnership funding opportunities under its Insight, Connection and Talent programs.

The scale and scope of college and institute applied research in social innovation is significant, and makes a difference for community and social service organizations across the country, whether improving the lives of disadvantaged Canadians, addressing environmental challenges, enhancing teaching and learning, or improving health and wellness in communities.

While colleges and institutes are encouraged to apply to SSHRC's funding opportunities, the proportion of projects awarded to colleges and institutes has remained small. In 2013-14, SSHRC funds received by colleges and institutes totaled \$390.239.

The launch of the pilot Community and College Social Innovation Fund in November 2014 within SSHRC's Partnership Development Grants will provide \$15 million over three years in support of social innovation research projects at colleges and institutes. It will connect the talent, facilities, and capabilities of Canada's colleges and institutes with the research needs of local community organizations as well as facilitate the development of collaborative social innovation research that brings together researchers, students and partners to address research challenges pertaining to social innovation. Currently, 64 colleges and institutes are eligible to apply for SSHRC funding.

The value of the grant is up to \$200,000 plus an additional 20 per cent to offset overhead costs, administrative costs, reduction in course load for full-time college and institute faculty staff and some salary support for part-time college faculty staff. The duration of the grant is one to three years. The deadline date for the first competition was March 2, 2015. Results will be announced in June 2015. For more information regarding this program, please visit: http://www.sshrc-crsh.gc.ca/funding-financement/programs-programmes/social_innovation-innovation_sociale-eng.aspx?pedisable=true

2.3. Canada Foundation for Innovation - College-Industry Innovation Fund

The Canada Foundation for Innovation's College-Industry Innovation Fund (CIIF) aims to reinforce colleges' capacity to support innovation in Canadian businesses. This fund puts cutting-edge and industry-relevant research infrastructure at colleges' disposal, in order to favour partnerships with the private sector in a specific field strategic to the institution.

In 2013-14 colleges and institutes reported \$12,920,602 in CIIF funding, more than double the amount reported in 2012-13. The CFI has allocated up to \$50 million to the CIIF for five annual competitions.

With the launch of the CIIF, colleges and institutes have access to two funding streams:

STREAM 1:

Research infrastructure

Aims to enhance existing applied research and technology development capacity.

STREAM 2:

RESEARCH INFRASTRUCTURE ASSOCIATED WITH PROJECTS THAT QUALIFY FOR FIVE-YEAR CCI PROGRAM INNOVATION ENHANCEMENT GRANTS

Builds on the research infrastructure associated with projects that qualify for Five-Year CCI Program Innovation Enhancement Grants. This joint initiative allows colleges to submit a combined funding request to cover research costs (grant from the CCI-RI) and research infrastructure (CFI's College-Industry Innovation Fund – Stream 2).

2.3.1. Impact of the Canada Foundation for Innovation

The grants received through the CFI are used to pay for equipment, laboratories, databases, scientific collections, computers, communications and buildings necessary to carry out cutting-edge research.

2.4. Regional Economic Development Agencies

Regional economic development agencies support applied research through programs and initiatives that provide businesses with access to college and institute research capacity. For 2013–14, colleges and institutes reported funding from the Atlantic Canada Opportunities Agency (ACOA), the Canada Economic Development Agency for Quebec Regions, the Canadian Northern Economic Development Agency (CANOR), the Federal Development Economic Development Agency for Southern Ontario (FedDev Ontario), the Federal Economic Development Initiative for Northern Ontario (FedNor), and Western Economic Diversification Canada (WED). Combined, these Federal economic agencies represent the second largest Federal source of funding after the Tri-Council CCI Program, totaling \$17,376,144.

Canada Economic Development Agency for Quebec Regions provided \$3,171,753 to CCTTs, as reported by Réseau Trans-Tech. Canada Economic Development Agency for Quebec Regions supports innovation, technology adoption or transfer. The CCTTs received funding for several activities including technology transfer, performance enhancement and increased productivity of industry partners.

Yukon College reported a \$361,234 grant from CanNor in 2013-14 for research related to the knowledge economy and business planning innovation projects. This grant is funded by CanNor's Strategic Investments in Northern Economic Development (SINED) Program, which focuses on long-term economic growth, economic diversification and capacity-building in all three territories.

In Ontario, FedDev Ontario has enabled colleges and institutes to work with SMEs on research and innovation in areas that include product, process and technology development; and product testing, piloting and demonstration. In 2013–14, Ontario colleges reported they received \$3,243,065.

WED supported the expansion of the applied research and innovation portfolio of colleges and institutes in Western Canada through infrastructure investments. Five institutions received funding from WED in 2013-14: Camosun College, Lakeland College, Medicine Hat College, Olds College and Northern Alberta of Institute of Technology, SAIT Polytechnic and Saskatchewan Polytechnic, for a total of \$8,036,555.

Contributions from regional development organizations reinforce institutions' capacity to meet local companies' needs in innovation. However, these contributions dropped by 21% in 2013-14.

2.4.1. Impact of Regional Economic Development Agencies

Contributions from regional economic development agencies support faculty's professional development while also connecting with various players in the private sector. Students also benefit from these activities, since they provide access to work opportunities, professional networks and practical experience on a specific project. Access to these funds strengthens colleges and institutes' credibility in applied research. Small, medium and large businesses

now have access to the resources colleges and institutes offer, which was not the case before the creation of these grants. Collaboration between these stakeholders leads to a reduction in time-to-market and improves businesses' ability to commercialize their products.

2.5. National Research Council of Canada - Industrial Research Assistance Program

The \$80 million three year pilot Digital Technology Adoption Pilot Program (DTAPP) delivered through the Industrial Research Assistance Program (IRAP) of the National Research Council of Canada provided support to SMEs to accelerate the adoption of digital technologies. The pilot provided opportunities for colleges and institutes to work with local companies to adopt new technologies, identify areas for productivity improvement and assess methods, technologies and operational changes on how to implement and integrate the new systems. Table 7 shows the National Research Council support to colleges and institutes for both IRAP and DTAPP.

In March 2014, NRC-IRAP launched a \$20 million commercialization voucher program for SMEs. The two year pilot Business Innovation Access Program (BIAP) will provide SMEs with the opportunity to partner with colleges and universities for their applied research needs, adopt new technologies, and bring innovative products and solutions to the marketplace more rapidly. This program will further enhance the value of college-SME applied research partnerships and the importance of linking SMEs with the applied research services of colleges and institutes.

With the support of DTAPP, Selkirk College was able to leverage its greatest assets – digital technology and geospatial research – to meet the critical needs of SMEs for digital technology R&D. The college has moved from a place of limited capacity to one of established procedures,

processes and successes in helping SMEs with challenges such as database mechanization, rapid prototyping and geospatial mapping. DTAPP terminated March 31, 2014.

TABLE 7 FINANCIAL SUPPORT FROM THE IRAP-NRCC FOR COLLEGES AND INSTITUTES IN THE 2013-14 FISCAL YEAR

| Region | College/Institute | Number of Projects | Funded Amounts |
|---|--|--------------------|----------------|
| Pacific | British Columbia Institute of Technology | 2 | \$21,647 |
| | Camosun College | 1 | \$154,995 |
| | College of New Caledonia | 2 | \$138,062 |
| | Okanagan College | 1 | \$5,678 |
| | Selkirk College | 1 | \$245,107 |
| | Yukon College | 2 | \$57,660 |
| Pacific Total | | 9 | \$623,149 |
| West | Grande Prairie Regional College | 1 | \$44,040 |
| | Red Deer College | 2 | \$124,951 |
| | Red River College | 1 | \$68,345 |
| Total West | | 4 | \$237,336 |
| Ontario | Cambrian College | 2 | \$15,000 |
| | George Brown College | 2 | \$149,918 |
| | Georgian College | 1 | \$130,000 |
| | Mohawk College | 1 | \$30,840 |
| | Niagara College | 1 | \$100,000 |
| Ontario Total | | 7 | \$425,758 |
| Quebec | Cégep de Sherbrooke (CPIQ) | 1 | \$5,695 |
| | Cégep de Lévis-Lauzon (CRVI) | 1 | \$49,524 |
| | Réseau des centres de transfert de technologies des cégeps du Québec | 6 | \$658,659 |
| Total Quebec ¹ | | 8 | \$713,878 |
| Atlantic | Collège communautaire du Nouveau-Brunswick (CCNB) | 2 | \$128,992 |
| | College of the North Atlantic | 1 | \$70,000 |
| | Holland College | 2 | \$85,000 |
| | New Brunswick Community College | 2 | \$50,000 |
| | Nova Scotia Community College | 2 | \$69,996 |
| | Nunavut Arctic College | 1 | \$30,000 |
| Total Atlantic | | 10 | \$433,988 |
| Grand Total | | 38 | \$2,434,109 |
| 34 colleges received a grant from the IRAP ² | | 34 | |

^{1.} In Quebec, 12 unique colleges participate in the Trans-tech network or in an independent contribution agreement.
2. This includes colleges' financial contributions for the 2013-14 fiscal year via regular IRAP, CO and DTAPP funding data source: Sigma/Sonar
Prepared for the IRAP workgroup on September 24, 2014

2.5.1. Benefits of the Industrial Research Assistance Program

This program supports regional economic development by giving regions the tools they need to be more competitive both nationally and internationally. The IRAP fosters a culture focused on applied research in colleges and institutes. The positive results of this program can be measured primarily by better access to resources in a field of interest. More specifically, various partners from the private sector can

benefit from a network of qualified students ready to work on specific projects. All in all, the partnerships between colleges, institutes and private sector partners improve the product commercialization process.

2.6. Indirect Costs Program

For 2013-14, colleges and institutes reported a major drop in funding (29%) from the Indirect Costs Program (ICP), totaling \$798,785. This is mainly because colleges and institutes have limited opportunities to access Tri-Council research grants and funding programs. The ICP, the annual budget of which is \$342 million, will be replaced by the new Research Assistance Fund after the 2014-15 fiscal year.

The CCI program remains ineligible to the ICP. Currently, the 20% for overhead and administrative costs for CCI grants must be applied to expenses related to a specific grant. This comes at the expense of reducing the grant funds available for the research project. Eligibility under ICP would free CCI

funds to be spent entirely on the direct costs of research, allowing colleges and institutes to focus on the objectives of CCI grant and solutions. In addition, this hinders institutions' ability to make long-term planning and investments for future applied research activities. Colleges and Institutes Canada recommends that the Tri-Council CCI Program be included under the ICP to ensure equity and uniformity across the research system for all research activities, be it basic or applied.

3. Partnerships

3.1. Business and Industry Partnerships

In 2013-14, colleges and institutes partnered with 5,585 companies for business and industrial research. Ninety-five per cent of external funding was for business and industrial research totaling \$199,013,153, up by 12% over last year. As shown in Figure 6, the majority of partnerships were with



SMEs defined as having 5 to 500 employees, followed by large companies with over 500 employees and micro-enterprises with 1 to 4 employees.

FIGURE 6
DISTRIBUTION OF BUSINESS AND INDUSTRY PARTNERS BY SIZE OF ENTERPRISES

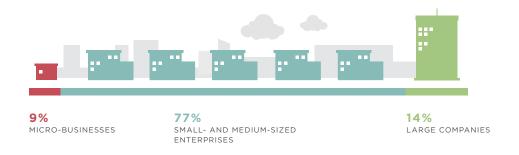


Table 8 shows a sector breakdown of college and institute partnerships with business and industry. The highest proportion of SME partners were in the environmental, natural resources and manufacturing sectors.

TABLE 8
BREAKDOWN OF PARTNERSHIPS BY SECTOR AND BUSINESS SIZE

| | Micro-businesses | Small- and Medium-sized Enterprises | Large Companies |
|--|------------------|--|-----------------|
| Natural Resources and Energy | 18% | 19% | 25% |
| Environmental Science and Technologies | 25% | 7% | 6% |
| Health Medical and Life Sciences | 6% | 4% | 4% |
| Information and Communication Technologies | 11% | 11% | 15% |
| Manufacturing | 16% | 49% | 46% |
| Building Technology | 8% | 6% | 1% |
| Other | 11% | 3% | 2% |
| Services | 4% | 2% | 2% |
| Social Innovation | 0% | 0% | 1% |

3.2. Partnerships for Social Innovation Research

Funding for social innovation research represented 5% of college and institute research funding and totaled \$10,474,376 from all sources, up by 41% from 2012–13. Colleges and institutes identified 693 research partners in social innovation, with the greatest portion being community-based organizations or social services.

The survey results show that social service or community organizations, public service agencies or ministries, non-governmental organizations and businesses represent 40%, 30%, 24% and 6% of partnerships, respectively.

FIGURE 7

BREAKDOWN OF RESEARCH IN SOCIAL INNOVATION BY ORGANIZATION TYPE



Table 9 shows the social innovation partnerships by category. The greatest number of social innovation partnerships were in education, followed by health, environmental awareness and planning, and services offered to disadvantaged populations.

TABLE 9
BREAKDOWN FOR RESEARCH IN
SOCIAL INNOVATION

| | % |
|--------------------------------------|-----|
| Other | 19% |
| Education | 18% |
| Health | 14% |
| Environmental Awareness and Planning | 13% |
| Social Services | 12% |
| Disadvantaged Populations | 11% |
| Management and Business | 3% |
| Communications and Media | 3% |
| Industrial Relations | 2% |
| Legal System | 2% |
| Educational Grants | 2% |
| Public Safety | 1% |

3.3. Partnerships with Other Post-Secondary Institutions

All colleges and institutes confirmed partnerships with other post-secondary institutions in Canada and abroad.

3.3.1. Collaboration with Other Colleges and Institutes

Ninety colleges and institutes reported partnerships with other colleges and institutes across Canada and internationally. These post-secondary institutions work closely together and form strategic alliances in the form of institutional partnerships or consortiums.

3.3.2. Collaboration with Universities

Eighty-five per cent of respondents reported working with universities. Overall, institutions identified partnerships with 89 universities in Canada and overseas (see Annex 5 for a full list), up 43% from 2012-13. Among these, partnerships in Israel, Uruguay, the United States, Brazil, the Netherlands, Ireland, France, Sweden and Australia were identified by Canadian colleges and institutes.

Partnerships with universities are established through joint research agreements, memoranda of understanding, research groups, consortia, transfer agreements and collaboration between Research Ethics Boards. These partnerships mainly touch on information technologies, natural resources and the environment, health and manufacturing.



The CCI program also fosters college/institute and university partnerships through the College-University Idea to Innovation (CU-I2I) Grants. In 2013-14, the CCI program supported CU-I2I grants for a value of \$2,356,166.

3.4. International Research Partnerships

Colleges and institutes are increasingly creating international partnerships with the goal of sharing their capacities and expertise. Institutions from the Yukon, Alberta, Manitoba, Ontario, Quebec and Newfoundland reported 48 international partnerships. The value of the funding received in 2013–14 was \$865,869.



TABLE 10 INTERNATIONAL RESEARCH PARTNERSHIPS

| Sector | Number of Partners | Country | Approximate Funding Received in 2013-2014 (\$) |
|---|--------------------|---|--|
| Natural resources and energy | 10 | Japan, the United States, France, South Korea, Germany, Belgium, the Netherlands | \$64,500 |
| Environmental science and technologies | 5 | Qatar, Germany, China, Argentina, the United States | - |
| Health, medical and life sciences | 4 | Qatar, Australia, the United Kingdom, the United States | - |
| Information and communications technology | 12 | The United States, Brazil | \$209,000 |
| Manufacturing | 2 | Japan | \$230,094 |
| Building Technology | 1 | The United Arab Emirates, Poland | \$2,000 |
| Disadvantaged populations | 1 | Brazil | \$25,000 |
| Education | 8 | Sweden, Greece, the Ukraine, Suriname, India, Mexico | \$232,000 |
| Management and business | 2 | The United States, Switzerland | \$47,584 |
| Other | 3 | France, Brazil, the United Kingdom | \$55,691 |
| Total | 48 | 22 Countries | \$865,869 |

Conclusion

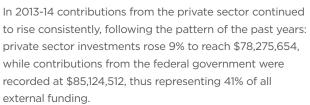
The results of the Survey of 2013-14 College and Institute Applied Research Activity clearly demonstrate steady growth in applied research activities in colleges and institutes across Canada. By allocating human and financial resources and putting the necessary infrastructure in place, these institutions are building their capacity to undertake applied research.

Survey results show a high level of partnerships, networks, fields of specialization and applied research centres. Colleges and institutes have expanded their areas of expertise and research specialization with a total of 1,083 in six categories: natural resources and energy, environment, health and medical sciences, information technologies, manufacturing and social innovation. There were 670 research centres and laboratories identified, which is an increase of 37% from 2012-13.



Colleges and institutes also understand the link between innovation and entrepreneurship and the need to foster an entrepreneurial mindset as a core value of their institution and in the businesses and communities they serve. Colleges and institutes instill an entrepreneurial mindset in students through the integration of entrepreneurial skills into curricula, and provide support services for emerging entrepreneurs through on-campus entrepreneurship centres and incubators.

In terms of investments, colleges and institutes have access to various funding sources. Internal funding rose by 6% to a total of \$52,120,022.



The Government of Canada has recently launched a new pilot project—the Community and College Social Innovation Fund which will provide further opportunities for colleges and institutes to enhance their expertise in in social innovation research.

Colleges and institutes are responding to the applied research needs of industry, especially SMEs, the source of 70% of new jobs. Yet, only 2.8% of the \$2.96 billion of federal research investments that flow to post-secondary education institutions are targeted for college and institute applied research partnerships with businesses and communities. Additional federal support for college and institute applied research would increase the capacity of SMEs to innovate and improve productivity.



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Appendix / Annexe 1

2013–2014 Applied Research Environmental Scan /
Enquête sur les activités de recherche appliquée 2013-2014
List of Participating Institutions / Liste des établissements participants

North West Territories Northern Alberta Institute of Technology

Aurora College Northern Lakes College

Olds College

Nunavut Portage College

Nunavut Arctic College Red Deer College SAIT Polytechnic

Yukon

Yukon College Saskatchewan/

Gabriel Dumont Institute of Native Studies and

Applied Research
Parkland College

British ColumbiaParkland College
British Columbia Institute of Technology
Saskatchewan Polytechnic

Camosun College
Douglas College

Justice Institute of British Columbia

Kwantlen Polytechnic University

Langara College

College of New Caledonia Northern Island College

Northwest Community College

Okanagan College College of the Rockies

Selkirk College

Vancouver Community College

Alberta

Bow Valley College

Grand Prairie Regional College

Keyano College Lakeland College Lethbridge College

Medicine Hat College NorQuest College Assiniboine Community College

Red River College of Applied Arts, Sciences and

Technology

Manitoba

University College of the North

Ontario

Algonquin College Collège Boréal Cambrian College Canadore College Centennial College

Conestoga College Institute of Technology and

Advanced Learning
Confederation College
Centennial College
Fanshawe College
Fleming College

George Brown College

Georgian College

Humber College Institute of Technology and

Advanced Learning

La Cité

Ontario

Lambton College Mohawk College Niagara College Northern College St. Clair College St. Lawrence College

Sault College Seneca College

Sheridan College Institute of Technology and

Advanced Learning

Quebec

Cégep Garneau
Cégep Gérald-Godin
Heritage College
Collège Montmorency
Cégep de l'Outaouais

Cégep Régional de Lanaudière Cégep de Rivière-du-Loup Cégep Saint-Jean-sur-Richelieu

Vanier College

Institut de tourisme et d'hôtellerie du Québec

Data Provided by Réseau Trans-tech for the 46 College Centres for the Transfer of Technology at the following cégeps:

Cégep de l'Abitibi-Témiscamingue

Cégep André-Laurendeau Cégep de Baie-Comeau Cégep Beauce-Appalaches

Cégep de Chicoutimi

Cégep de Gaspésie des Îles Cégep John-Abbott College

Cégep de Jonquière
Cégep de La Pocatière
Cégep de Lévis-Lauzon
Cégep Marie-Victorin
Cégep de Rimouski

Cégep de Saint-Hyacinthe Cégep de Saint-Jérôme Cégep de Saint Laurent Cégep de Sainte-Foy Cégep de Sept-Îles Cégep de Sherbrooke
Cégep de Sorel-Tracy
Cégep de Thetford
Cégep de Trois-Rivières
Cégep du Vieux Montréal
Cégep de Victoriaville
Collège Ahuntsic
Collège d'Alma
Collège Dawson

Collège Édouard-Montpetit

Collège Lionel-Groulx Collège de Maisonneuve

Collège Mérici

Collège de Rosemont Collège Shawinigan

Institut de technologie agroalimentaire

New Brunswick

Collège communautaire du Nouveau-Brunswick

New Brunswick Community College

Nova Scotia

Nova Scotia Community College

Newfoundland

College of the North Atlantic

Prince Edward Island

Holland College

APPENDIX / ANNEXE 2

2013-2014 Applied Research Environmental Scan / Enquête sur les activités de recherche appliquée 2013-2014 Areas of Research Specialization by Category and Province or Territory / Domaines de spécialisation par catégorie et par province ou territoire

| Natural Resources and Energy - 223 Areas of Specialization | | |
|---|---|--|
| Ressources naturelles et énergie - 223 domaines de spécialisation | | |
| Province / College/ Collège | Area of Specialization / Domaine de spécialisation | |
| Newfoundland / Terre-Neuve-et-Labrador | | |
| College of the North Atlantic | Mining Technology | |
| | Petroleum Engineering | |
| | Renewable Energy | |
| | Wage energy conversion for sea water pumping | |
| | Integerated Multitrophic Aquaculture | |
| | Energy | |
| | Natural Resources | |
| Prince Edward Island / Île-du-Pri | nce-Édouard | |
| Holland College | Food Production Development | |
| | Wind Turbine | |
| | Sustainable Energy | |
| | Renewable Energy Systems | |
| Nova Scotia / Nouvelle-Écosse | | |
| Nova Scotia Community College | Energy Sustainability and Environmental Technologies | |
| | Solar photocoltaic and solar thermal systems | |
| | Energy monitoring technology development | |
| | Energy supervisory control and data acquisition | |
| | Energy data telemetry | |
| | Energy data analytics | |
| | Enegy project feasibility analysis | |
| | Energy auditing including solar site assessment | |
| | Geomatics | |
| New Brunswick / Nouveau-Bruns | swick | |
| Collège communautaire du | Agriculture de précision | |
| Nouveau-Brunswick | Biotechnologies, bioénergies, bioprocédés et biofermentation | |
| | Bio-rafinage et biotechnologie au stage pré-commercial | |
| | Pêche et aquaculture | |
| | Centre de conservation des sols et de l'eau | |
| | Agroenvironnement, agroforesterie, agriculture de précision, cartographie et géomatique | |
| | Technologies pour la transformation des produits forestiers | |
| New Brunswick Community | Aquaculture | |
| College | Engineering Energy | |
| | Energy Efficiency | |
| | Enougy Emolency | |

| Québec | | |
|---|---|--|
| Collège d'Alma | Recherche et innovation en agriculture | |
| Cégep André-Laurendeau | Génie physique | |
| Cogep / Ware Laurendeda | | |
| Cégep de Baie-Comeau | Logistique du transport Expérimentation et de développement en forêt boréale | |
| Cégep Édouard-Montpetit | Chimie | |
| | Photonique | |
| Cégep Garneau | | |
| Cégep de la Gaspésie et des Îles | Énergie éolienne Aquaculture et des pêches | |
| Cégep de Jonquière | Énergie renouvelable et rendement énergétique pour les sites isolés | |
| Cégep de l'Outaouais | Intelligence territoriale | |
| Cegep de l'Oulabuais | Énergie | |
| Cágan da La Basstiàra | | |
| Cégep de La Pocatière | Centre de développement des bio-produits Transformation des aliments | |
| Cégep régional de Lanaudière | | |
| Cégep de Rimouski | Transformation des produits forestiers Biométhanisation | |
| Of many da Bhithea da Laur | | |
| Cégep de Rivière-du-Loup | Biochar | |
| Cégep de Saint-Hyacinthe | Agroalimentaire | |
| Cégep de Saint-Jérôme | | |
| Cégep Saint-Laurent | Technologie de l'eau | |
| Cégep de Sainte-Foy | Foresterie | |
| Collège Shawinigan | Procédés industriels | |
| | Traitement des gaz | |
| Cégep de Thetford | Technologie minérale et de plasturgie | |
| Cégep de Trois-Rivières | Pâtes et papier | |
| Vanier College | Uses for biomass material | |
| Cégep de Victoriaville | Agriculture biologique | |
| | Agriculture de proximité et à valeur ajoutée | |
| | Efficacité énergétique | |
| Institut de technologie agroalimentaire - La Pocatière | Bioproduits | |
| | Dioproduits | |
| Ontario Algonquin College | Dlugged in Llubrid Floatric Vahiolog | |
| ,go.rquii Conogo | Plugged in Hybrid Electric Vehicles | |
| | SmartGrid Technologies | |
| Collège Boréal | Energy Auditing | |
| Conege Borean | Foresterie | |
| | Pisciculture | |
| 0 / : 0 # | Horticulture | |
| Cambrian College | Mining Process Control & maintenance | |
| | Alternative & renewable energies | |
| | Power and control of electrical Systems | |
| | Automation | |
| | Sustainable Energy Technologies | |
| Centennial College | Sustainable Energy Technology | |
| Confederation College | Renewable Energies including Biomass | |
| | Water Treatment | |

| Durham College | Renewable Energy | |
|-----------------------------|---|--|
| Fanshawe College | Alternative Energy & Sustainable Environments | |
| | Fuel Additives Evaluation | |
| | Renewable Energy Technologies | |
| Fleming College | Water and Wastewater Treatment Technology Research | |
| | Wildlife-based Research | |
| George Brown College | Green Technology (computer, construction, architecture) | |
| Georgian College | Alternative Energy/Systems | |
| | Environmental Sustainability Solutions | |
| | Electrical and Power Distribution | |
| | Sustainable Technologies | |
| | Energy Management | |
| | Proof of Principal and Testing product | |
| Humber College Institute of | Sustainability Energy Efficiency Management and Evaluation | |
| Technology and Advanced | Building Technology | |
| Learning | Conservation research in the Arboretum | |
| Lambton College | Alternative Energy, Energy Conversion, Storage and Conservation, incl. H2 fuel cells | |
| | Biodegradable Thermoplastic Vulcanizates (TPV's) | |
| | Advanced Process Control and Optimization and Simulation | |
| | Bioprocess Ethanol | |
| | Bio-refinery, Bio Technology | |
| | Water and Wastewater | |
| | Hydrogen Generation and Fuel Cells | |
| Loyalist College | CO2 Extraction | |
| | Energy Technologies | |
| | Advanced Power System Laboratory: protection and control, industrial network and communication. | |
| | Advanced Power Quality Laboratory: research related to modern distribution system: electrical vehicle | |
| Mohawk College | charging unit, smart applicances, photo voltaic unit and distribution transformer | |
| Niagara College | Agriculture | |
| | Horticulture & Greenhouse | |
| | Viticulture and Wine Making | |
| | Food Sciences | |
| Northern College | Electrical power distribution, protection and controls | |
| | Weater treatment and wastewater management | |
| Coult Callage | Diamond drilling innovation and performance | |
| Sault College | Renewable & Wind Energy | |
| Seneca College | Water Treatment Environment-Energy Conservation (Aerobic Bioreactor Landfill Technology) | |
| Serieca College | Built Environment | |
| | Environmental Remediation | |
| | Bioinformatics | |
| | Microbiology | |
| | Virology | |
| | Genetics | |
| | Ochelios | |

| Sheridan College Institute of | Energy |
|--|---|
| Technology and | |
| Advanced Learning | |
| St. Lawrence College | Agricultural Extension: Artisanal Cheese |
| | Renewable Energy |
| Manitoba | |
| Assiniboine Community College | Horticulture/Greenhouse/Regional Diets |
| | Renewable Energy |
| | Field and Greenhouse Food Production |
| | Agriculture |
| Red River College of Applied Arts, Science & Technology | Development and operation using renewable fuels |
| Science & recrinology | Transportation (fuel efficiency and use of renewable fuels) |
| | Clean Technology |
| Collège Universitaire de Saint- Boniface | Sciences naturelles |
| University College of the North | Community gardens |
| | Northern Manitoba Mining Academy |
| | Geochemical/geological |
| | Biofuels and Diesel Emissions Reduction |
| Saskatchewan | |
| Gabriel Dumont Institute of Native | Traditional lands, peoples, and lifestyles of the Metis |
| Studies and Applied Research | Loss of rights or landbase |
| | Historical use and ownership |
| Parkland College | Agriculture |
| | Agronomy |
| Saskatchewan Institute of Applied Science and Technology | Natural Resources |
| Alberta | |
| Grande Prairie Regional College | Bio-Carbon Initiatives |
| | Carbon capture (CO2) with micro algae |
| | Improving Survival and Growth of Conifer Species Seedlings |
| | Effluent as an irrigant for hybrid poplar clones |
| | Bee Diseases and Pests |
| | Honey bee production practices to mitigate bee mortality |
| | National Bee Diagnostic Centre |
| Lakeland College | Field Crop Trials |
| G | Grazing Management/Habitat Restoration |
| | Livestock Trials |
| | Renewable Energy |
| | Wildlife Use of Natural Area |
| | Biodiesel |
| | Geothermal and Solar Thermal Heat Storage |
| | Solar heat capture from an attached solarium, integrated with thermal mass and water for heat storage |
| | Solar concentrator |
| | Wind Energy |

| | Agriculture |
|--------------------|--------------------------|
| Lethbridge College | Conservation Enforcement |
| | Sustainable Housing |

| Medicine Hat College | Ecotourism and Sustainability |
|--|---|
| wedicine hat college | · · |
| | Land use practices including agriculture, oil and gas |
| | Renewable Energy |
| Newton and Alberta Institute of | Solar Energy Applied Research |
| Northern Alberta Institute of Technology (NAIT) | Local Economic Development |
| recimology (NAIT) | Green Chemistry and Engineering |
| | Sustainable Building Technologies |
| Olds College | Alternative Energy Feedstock Trials |
| | Bio-Fuel Producation and Testing |
| | Feed Efficiency Studies |
| | Livestock Management |
| | Agronomy |
| | Bio-Energy |
| | Bioprocessing |
| SAIT Polytechnic | Alternative Energy - Biodiesel |
| | Bench-scale prototype testing |
| | Membrane filtration |
| | Ultrafiltration |
| | Nanofiltration |
| | Reverse Osmosis |
| | Electrodialysis |
| | High-Efficienty Electro-Pressure Membrane |
| | Hybrid Ceramic Membrane |
| | Nanotechnology |
| | Frac and Produced water treatment |
| | De-Oiling |
| | Desalination |
| | PCB Soil Remediation |
| British Columbia/Colombie-Britar | |
| British Columbia Institute of | |
| Technology | Energy Systems Applications |
| | Natural Resources and the Environment |
| | Smart Microgrid |
| | Renewable Energy |
| Camosun College | Ocean and Marine Technology |
| Justice Institute of British Columbia | Rural Remote Coastal Community Disaster Resilience |
| | Use of simulations to support diverse training needs |
| Kwantlen Polytechnic University | Horticulture |
| Langara College | Conversion of BioMass to Biochar |
| | Biochar and its Soil Remediation potential |
| | Local Archaeology |
| College of New Caledonia | Forestry |
| | Geomatics |
| | Silviculture |
| | Biomass gasification for power generation |
| | Natural Resource Management |
| | Pratural resource Management |

| North Island College | Fish Farm Wast & Reclamation |
|----------------------------------|--|
| Tierur Iolana Comogo | Renewable Energy |
| Northern Lights College | Rehabilitation of Soils |
| Northwest Community College | Gread Blue Heron Rookery Study |
| Northwest Community Conege | Skeena Watershed Euchon Study |
| | Shames River |
| | |
| Okanagan College | Remote Surveillance of Abalone Bed Magnetic properties of rocks and sediments |
| Granagan Genege | Soil mapping |
| Selkirk College | Forest Ecology, Soils and Restoration |
| | Online forestry decision-support tools |
| | |
| | Remote sensing for agriculture |
| Newthernest Territories | Adopting Digital Technologies in SME's |
| Northwest Territories | Water Decauses |
| Aurora College | Water Resources |
| | Wind Energy/Solar Energy |
| 1 | Gas hydrates |
| Nunavut | |
| Nunavut Arctic College | Water Quality Studies |
| | Analyse wastewater |
| Yukon | |
| Yukon College | Biochar |
| | Water Purification |
| | Alternative Energies (Stirling engine, wind power, in river hydro, biomass) |
| | Mining Technologies all under the theme of cold climate innovations |
| | Climate change adaptation Technologies |
| | rironmental Science and Technologies- 173 Areas of Specialization |
| Science | es et technologies environnementales - 173 domaines de spécialisation |
| Province / College/collège | Area of Specialization / Domaine de spécialisation |
| Newfoundland / Terre-Neuve-et- | Labrador |
| College of the North Atlantic | Geo-Informatics |
| | Nanotechnology material design |
| | Petroleum Engineering |
| | Physical Sciences |
| | Interdisciplinary Sciences |
| | Material Sciences |
| | Environmental Science |
| Prince Edward Island / Île-du-Pr | |
| Holland College | Bioscience |
| - | Energy Systems Engineering |
| Nova Scotia / Nouvelle-Écosse | |
| Nova Scotia Community College | Marine Geomatics |
| | Marine - Accounstics system trainer for SONAR |
| | Coastal Erosion |
| | Climate Change |
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| | Flood risk mapping |
| | Land use planning & mapping |
| | GIS technologies |
| | GPS syrveying & data collection |
| | Horticulture |
| | Sea floor mapping |
| | Applications of weather prediction tools (with over 80 weather stations) |
| | Remote sensing (Airborne & ground-based Lidar) |
| New Brunswick / Nouveau-Bru | nswick |
| Collège communautaire du | Biotechnologies * |
| Nouveau-Brunswick | Bioprocédés * |
| | Révision de plan de ferme environnemental. |
| | Centre de conservation des sols et de l'eau * |
| | Agroenvironnement, agroforesterie, agriculture de précision, cartographie et géomatique * |
| | Technologies pour la transformation des produits forestiers |
| Québec | |
| Cégep de Chicoutimi | Géomatique |
| Cégep Garneau | Sciences de l'environnement |
| Cégep de Lévis-Lauzon | Biotechnologies |
| Collège Montmorency | Entomologie |
| , | Lutte intégrée |
| | Lutte biologique en agriculture |
| | Microbiologie |
| Cégep régional de Lanaudière | Agriculture |
| Cogop rogicinal do Edinadalero | Horticulture et transformation des aliments |
| | Développement durable |
| | Écoconception |
| Cégep de Rivières-du-Loup | Traitement des eaux usées |
| Cogop do Minoros da Loup | Analyse de laboratoire |
| | Caractérisation des éléments |
| | Biométhanisation |
| Collège Shawinigan | Technologies de l'électrochimie et environnementale |
| Conege Shawinigan | Technologies de rélection par membrane |
| Cégep de Saint-Laurent | Technologies de l'eau |
| Cégep de Sherbrooke | Lumière et technologies de l'éclairage |
| Gegep de Gherbrooke | Développement durable |
| | |
| Cársar de Caral Trans. | Environnement |
| Cégep de Sorel-Tracy | Écologie industrielle |
| Cégep de Thetford | Technologie en oléochimi industrielle |
| Cégep de Trois-Rivières Cégep de Victoriaville | Bio et nano-technologies |
| Cegep de Victoriaville | Développement durable |
| | Agriculture biologique |
| Ontario | |
| Algonquin College | Biotechnology |
| | Water and Wastewater |
| | Riparian Health Eel Research |

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|---|---|
| | Geographic Information Systems |
| Callà va Davíal | Environmental Technologies |
| Collège Boréal | Environment |
| Oznak sizar Ozlla sa | Biocharbon |
| Cambrian College | Environmental Assessment |
| | Impact Monitoriring (Mining related) |
| | Chemistry Testing and Validation |
| Canadore College of Applied Arts | Environmental Assessment |
| and Technology | Biotechnology |
| Centennial College | Environmental Science and Technologies |
| | Sustainable Energy Technology |
| Conestoga College Institute of Technology and Advanced Learning | Environment |
| Confederation College | Remote Sensing |
| Durham College | Science and Technology - chemical, mechanical, PLC |
| Fanshawe College | Environment |
| G | Sustainable buildings/structures and liveable communities |
| Fleming College | Water and Wastewater Treatment Technology |
| Georgian College | Environmental |
| e e e gran e e mege | Port Development |
| | Electric Vehicles and their impact on the power grid |
| Humber College Institute of | Lieutic vericles and their impact on the power grid |
| Technology and Advanced | |
| Learning | Butternut Tree Preservation |
| La Cité | Technologies environnementales |
| | Centre de recherche appliquée en biovalorisation |
| | Biotechnologie |
| Lambton College | Optimization and Control * |
| | Water & Wastewater * |
| Loyalist College | CO2 Extraction |
| Niagara College | Environmental Management |
| | Agriculture & Environment |
| | GIS |
| Sault College | Environmental Technologies |
| | GIS |
| | Natural Environment |
| Sheridan College Institute of | Ivatural Environment |
| Technology | Energy Management |
| Seneca College | Environment |
| - | Economic Sustainable Development |
| | Biological and Applied Sciences |
| St. Lawrence College | Biotechnology |
| Manitoba | <u> </u> |
| Assiniboine Community College | Environmental Management |
| | Land and Water Management |
| | |
| | Geomatics |

| Red River College of Applied Arts, | Sustainable Infrastructure |
|--|--|
| Science & Technology | Clean Technology * |
| University College of the North | Water & wastewater management |
| Oniversity College of the North | Wildlife and fisheries management |
| | |
| | Indoor air pollution & control |
| Saskatchewan | |
| Gabriel Dumont Institute of Native Studies & Applied Research | Traditional lands, peoples and lifestyles of the Metis |
| Saskatchewan Polytechnic | Environment |
| | Urban Development |
| Alberta | |
| Grande Prairie Regional College | Pollution to Products (P2P carbon capture) |
| 3 | Climate Change |
| Grant MacEwan University | Detection, Tracing & Destruction of Antibiotics and Hormones Biowaste |
| | Environmental Sciences |
| | Environmental |
| | Amphibian health in the oil sands |
| Keyano College | Seed collection for indigenous plants used for oil sands reclamation |
| , | Environmental |
| | Agriculture technologies, both crops and livestock |
| Lakeland College | Establishment of an area to native prairie grassland |
| | Environment and Ecology |
| | Environmental sustainability with particular emphasis on aquatic including aquaculture, aquaponics and algae |
| Lethbridge College | Water Quality |
| Medicine Hat College | Water Resources |
| | Environmental |
| Northern Alberta Institute of | Boreal Forest Reclamation |
| Technology (NAIT) | Green Roofs Technology |
| | Watershed Habitat Management and Improvement |
| Olds College | Solid Waste Management |
| | Bioremediation and Reclamation |
| | Waste Water Treatment |
| | Watershed Assessment and Reclamation |
| | Agri-food Composting |
| | Sustainable Waste Management |
| | Turfgrass Wetlands and Water Quality |
| | Water Quality and Treatment |
| | Land and Water Reclamation |
| Red Deer College | Environment and Ecology |
| | Animal - vehicle collisions |
| | Human-Animal (Bear) Interactions |
| SAIT Polytochnic | · |
| SAIT Polytechnic | Green Building Technology |
| | PCB Soil Remediation * |
| | Enrivonmental Technology - Water, Air and Soil Treatment and Remediation |

| British Columbia / Colombie-Bri | tannique |
|---------------------------------|--|
| British Columbia Institute of | Environment |
| Technology | GIS/Geomatics |
| | Green Roof Technology |
| | Mathematical Modelling of Developmental Biology |
| Camosun College | Food |
| | Beverage |
| | Cosmetic |
| | Environmental |
| | Functional Food Testing and Development |
| Douglas College | Biology - Pest Management |
| | Geology |
| Kwantlen Polytechnic University | Sustainable Horticulture |
| | Sustainable Agriculture |
| | Design Thinking |
| | Materials Innovation |
| North Island College | Sustainable Aquaculture |
| rvorur rolaira College | Wireless Sensor Technology |
| Northwest Community College | Marine/Environmental |
| Tveranical Community Comogo | Environmental Research |
| Okanagan College | Air and soil temperatures |
| enanagan eenege | Water conditions and conservation |
| | Sediment transport around static structures in environments |
| | Scour model development |
| | Development of a natural history collection of birds, mammals, reptiles, amphibians, fish, insects, and herbarium |
| | Mathematical techniques in river stability problems |
| | Using the synthesis telescope at DRAO to observe the interaction regions between old planetary nebulae and the interstellar medium |
| Selkirk College | Geographic Information Systems |
| | Fisheries sensitive watersheds |
| | Long term soil productivity |
| | Galcier and snow research |
| | White-bark pine research |
| | Environmental Sustainability and Geospatial Science |
| Northwest Territories | |
| Aurora College | Permafrost |
| | Carbon |
| | Air Quality |
| | Vegetation/Reclamation |
| | Neutron Monitors |
| | Northern Agriculture |
| Nunavut | |
| Nunavut Arctic College | Biological |
| Yukon | |
| Yukon College | Permafrost Assessents |

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| | Mine soil and water remediation |
| | Geophysical Hazards |
| | Climate Change |
| | Health, Medical and Life Sciences - 163 Areas of Specialization |
| | la santé et de la vie et science médicale - 163 domaines de spécialisation |
| Province / College/collège | Area of Specialization / Domaine de spécialisation |
| Newfoundland / Terre-Neuve-et-L | |
| College of the North Atlantic | Entomology |
| | Health |
| Prince Edward Island / Île-du-Prir | |
| Holland College | Health |
| | Food Product Development |
| | Advanced Care Paramedicine |
| New Brunswick / Nouveau-Bruns | wick Centre pré-commercial de tehnologies en bioprocédé: analyses spécialisé, élaboration des boissons |
| Collège communautaire du Nouveau-Brunswick | alcoolisées, évaluation pré-commerciale de concepts, précédés de bio-raffinage (fermentation, hydrolyse, purification) Laboratoire d'aquaculture expérimentale: collaboration à un programme de recherche visant la commercialisation de l'Omble chevalier. |
| | Unité de simulation en technologies routières: collaboration à un programme de recherche visant èa aider les conducteurs professionnels à mieux comprendre l'impact de leur tâche sur leur santé, avec l'aide d'un laboratoire mobile comprenant un simulateur de consuite et des appareils de mesure biopsychologiques. |
| New Brunswick Community College - Saint John | Innovation in healthcare |
| Nova Scotia / Nouvelle-Écosse | |
| Nova Scotia Community College | Medical Assistive Technologies |
| | Marine - Accounstics system trainer for SONAR |
| Québec | |
| Cégep Garneau | Recherches en technique de soins dentaires |
| Cégep régional de Lanaudière | Transformation des aliments |
| Cégep de Lévis-Lauzon | Bio-technologies |
| Collège Mérici | Solutions technologiques en orthèses et prothèses |
| Cégep de Sherbrooke | Mannequins simulateurs |
| Cégep de Victoriaville | Santé globale et saines habitudes de vie |
| Ontario | |
| Algonquin College | Health and Wellness |
| | Medical Assistive and Analytical Devices |
| | Food Research |
| | Brain and Vision Research |
| Collège Boréal | Biomédicale |
| Cambrian College | Nursing practices and procedures |
| | Medical Laboratory testing and validation |
| Conodoro Collogo of Ameliad Arts | Medical Supply and Services |
| Canadore College of Applied Arts and Technology | Health Sciences |
| and roomingy | Mental Health |
| | Client Care |
| | Geriatrics |

| Centennial College | Health Sciences |
|--------------------------------|---|
| eememan eemege | Emergency & Disaster Preparedness |
| | Health & related life sciences and technologies |
| Conestoga College Institute of | Health Informatics |
| Technology and Advanced | Seniors' Care |
| Learning | Food Safety |
| Confederation College | Health and related life sciences and technologies |
| Contederation College | Improving Health Treatment |
| | Health Care Delivery (prevention/wellness) in small, rural, remote communities |
| Durham College | Health Sciences |
| Fanshawe College | Health & Human Services |
| ransnawe College | |
| Fleming College | Nursing Health sciences areas focuses on healthy aging |
| | |
| George Brown College | Nursing |
| | Health Services |
| | Health Information |
| | Health Recipe Development |
| | Prosthetics Outleties |
| | Orthotics Nutrition and Health Promotion (recipe development, scaling up for industrial production, health |
| | ingredient alternatives) |
| | Culinary Arts and Food Product Development |
| | Health Technologies |
| Humber College Institute of | Clinical Health |
| Technology and Advanced | Applied Nutrition |
| Learning | Healthy Living Centre |
| | Health & Wellness |
| La Cité | Biotechnologie * |
| | Agro-alimentaire |
| Lambton College | Health and Wellness |
| - | Mental Health |
| | Nursing |
| | Public Safety |
| Mohawk College | Health Informatics |
| | Mobile Health Applications |
| | Health Sciences |
| | Nursing Lab and Applications |
| | Health Care (Including eHealth and mHealth) |
| | Mobility |
| Niagara College | Health & Community Studies |
| · - | Food, Beverage Innovation |
| Northern College | Companion animal rehabilitation, nutrition and wellness |
| | Wildlife rehabilitation |
| | Telemedicine |
| Sault College | Health Sciences |
| Seneca College | Health and Community Studies |

| Charidan Callaga Instituta of | 1 |
|---|---|
| Sheridan College Institute of Technology and Advanced | |
| Learning | Population aging and elder care |
| St. Clair College | Bio-medical engineering |
| St. Lawrence College | Nursing |
| en zamenee eenege | Biotechnology |
| | Culinary |
| | Health Science |
| Manitoba | Trouble Colonic |
| Red River College of Applied Arts, | |
| Science & Technology | Health & Nutrition Sciences |
| University College of the North | Health |
| | Midwifery |
| | Nursing - linking teaching to clinical Diabetes in northern Manitoba |
| Saskatchewan | |
| Gabriel Dumont Institute of Native Studies & Applied Research | Traditional medicines and uses of natural resources: flora, fauna, land |
| Saskatchewan Polytechnic | Health Education |
| | BioScience |
| | Nursing |
| | Chemical Technology |
| Alberta | |
| Bow Valley College | Health Worforce Development and Deployment |
| Grande Prairie Regional College | Neuroscience |
| | Seasonal affective disorder |
| | Nursing Progam (teaching and learning strategies) |
| Grant MacEwan University | Nursing |
| • | Psychology |
| Lethbridge College | Patient simulation |
| Medicine Hat College | Health |
| 9 | EMS Training Methods |
| Mount Royal University | Health and Wellness |
| Northern Alberta Institute of | Health Sciences |
| Technology (NAIT) | Health Simulation Technology |
| 33 () | Health and Wellness |
| | Occupational Fitness |
| | Health Innovations |
| NorQuest College | Health Care |
| The galest comege | Continuing Care |
| Olds College | Apparel Innovation and Safety |
| SAIT Polytechnic | Sports and Wellness Engininering Technology |
| | Medical device design and fabrication (Post-surgical boot and retractable safety-scalpel testing) |
| | Wheelchair basketball adjustable wheelchair for customized fit |
| | Sliding sport equipment design, fabrication and customization (skeleton, bobsleigh, luge, cross-country skiing) |
| | Sustainable Culinary Operations and Healthy Lifestyles |
| Red Deer College | Health Community of Practices |
| _ | Health & Wellness |
| | 1 |

| ĺ | Rural Health |
|---------------------------------------|--|
| | Poly-Pharmacy |
| | Independent Living |
| British Columbia/Colombie-Brita | · · · · · · · · · · · · · · · · · · · |
| British Columbia Insitute of | Health - Herbal Analysis and Evaluation |
| Technology | Health - Adaptive Technologies for People with Disabilities |
| | Health & Safety |
| | Health Technology |
| | Health Informatics |
| | Human Factors |
| | Bioscience and Human Health |
| | |
| | Aging and Disability |
| | Biotechnology |
| | Food Sciences |
| | Forensics |
| | Medical and Assistive Device Development |
| | Medical Imaging |
| | Mathematical Modeling of Developmental Biology |
| | Natural Health Products |
| | Optical Physics and Laser-Matter Interactions |
| Camosun College | Development of specialized sensor systems, testing and calibration of materials and Technology relatd to High Level Sports Performance |
| | Fitness and Health related applications |
| Douglas College | Therapeutic Recreation |
| | Child, Familty and Community Studies |
| | Human Services |
| | Health Services |
| Justice Institute of British Columbia | Prehospital and Disaster Health Science |
| | Roles and boundaries of paramedicine |
| | Student resilience |
| | Stress assessment |
| | Disaster Management Education Simulation Psychosocial Health Care Community-based |
| Langara College | Epidemiological Research |
| | Functional & Physiological importance of torsion adapters in prosthetic limbs for transtibial amputees |
| North Island College | Food Security |
| | Mobile devices for Nursing and Health Education |
| | Health Sciences |
| Selkirk College | Health Care Delivery |
| - | Health Care Education |
| | Occupational Health |
| | Applied Health & Wellness Research |
| | Educational capacity for a palliative approach to rural nursing |
| | Preparing RN students to write the NCLEX exam research |
| | Scholarship of Teaching and Learning Research |
| | RN students leadership projects |
| | Worksite Health Promotion Research |
| | Mondie Health Followith Research |

| İ | Aution Broads and Chyten Consistration |
|------------------------------------|--|
| Northwest Territories | Artisan Breads and Gluten Sensitivities |
| | |
| Aurora College | Nutrition and Health Promotion |
| N | Food Security |
| Nunavut | In a |
| Nunavut Arctic College | Health |
| Yukon | In 10 % |
| Yukon College | Food Security |
| | tion and Communication Technologies - 135 Areas of Specialization de l'information et de la communication - 135 domaines de spécialisation |
| Province / College/collège | Area of Specialization / Domaine de spécialisation |
| Newfoundland / Terre-Neuve-et-La | |
| College of the North Atlantic | Nano Technology |
| College of the North Adamic | Geo-informatics |
| | Digital Animation |
| Prince Edward Island / Île-du-Prin | |
| Holland College | Computer Information technologies |
| New Brunswick / Nouveau-Bruns | |
| Collège communautaire du | |
| Nouveau-Brunswick | Technologies de l'information et des communications |
| New Brunswick Community College | Gaming Technology |
| Conege | Journalism ICT |
| , | Mobile First Technology |
| Nova Scotia / Nouvelle-Écosse | |
| Nova Scotia Community College | Data acquisition systems |
| | Data communication systems |
| | Data management and design |
| Québec | |
| Collège Ahunstic | Communications graphiques et d'imprimabilité |
| Cégep André-Laurendeau | Optique et photonique |
| Cégep de Chicoutimi | Géomatique |
| Dawson College | Adaptech - Technologies for Persons with Disabilities |
| | Integrating Interactive Technologies and Pedagogies |
| Cégep de Drummondville | Sonorisation |
| Cégep de la Gaspésie et des Îles | Formation à distance en ingénierie |
| Cégep John-Abbott College | Optique et photonique |
| | Communications |
| Cégep de Jonquiere | Littératie numérique |
| Collège Lionel-Groulx | Microélectronique |
| Cégep de la Pocatière | Optique et photonique |
| Cégep régional de Lanaudière | Design industriel |
| Cégep de Sherbrooke | La productique et les technologies numérique |
| Cégep de Sainte-Foy | Imagerie numérirque et médias interactifs |
| | Cybersécurité |
| Cégep de Trois-Rivières | Télécommunications sans fil |
| | Intégration des TIC dans l'enseignement |
| Cégep de Victoriaville | Les Technologies de l'information et des communications |

| Ontario | |
|---|--|
| Algonquin College | Photonics |
| | Design of Virtual Environments |
| | Information and Communication Technologies (ICT) |
| | Digital Technology Adoption |
| | Gamification |
| | Developing Business Systems for SMEs |
| | User Experience Design |
| | Wireless |
| Collège Boréal | La programmation et les réseaux |
| | Le sommeil |
| | Electrical Instrumentation |
| Cambrian College | Application development and integration |
| Canadore College | Digital Media |
| | Mobile Computing |
| Confederation College | E-Business |
| Centennial College | Information and Communication Technologies - Wireless Networking, ICET, Gaming and Animation |
| Conestoga College Institute of Technology and Advanced | Telecommunications |
| Learning | Technology Development / Application Development |
| Durham College | Media Art and Design |
| · · | Animation / IT |
| | Scheduling tools |
| | Development of databases and mobile applications |
| | IT / Web Applications |
| Fanshawe College | Advanced Media |
| | Digital, Interactive Multimedia/New Media and ICT |
| | Digital Media Design |
| George Brown College | Information, Communication Technologies |
| Georgian College | Product, Prototype and Process * |
| | Maritime and Marine Simulations * |
| Humber College Institute of | Applied Technology |
| Technology and Advanced Learning | Game and Application Development |
| Leaning | Music Technology |
| | Hearing Technology |
| La Cité | Multimédia |
| | Technologies de l'information et sécurité des systèmes |
| | Design écologique |
| Lambton College | Mobile Device Application Development |
| | Data base design and services |
| Mohawk College | Mobile Technology |
| | Electronic Health Records |
| | eHealth Infrastructure |
| | Software |
| Niagara College | Data Management and Visualization |
| | Technology (photonics, electronics, energy) |
| | Computer Programming |

| 1 | Computational Agriculture & Remote Sensing |
|--|---|
| | Digital Media and Information Technologies |
| Northern College | Systems analysis and design |
| Tienanem Semege | Digital technology adoption analysis |
| | |
| Sault College | Simulation |
| Saun College | Information Technology and Communication |
| | Programming and application development |
| Seneca College | New Media/Digital Media |
| | Information & Communication Technologies |
| | Open Source Software Development |
| | Computer Studies |
| | Game Development |
| | Animation |
| Sheridan College Institute of Technology and Advanced | Digital media - Gaming |
| Learning | High Performance Computing |
| 3 | Visualization & simulation 2D and 3D Stereoscopic and high frame rate (HFR) capture and display / Previsualization and Virtual Production for Screen Industries |
| | Mobile Computing Applications |
| Manitoba | |
| Assiniboine Community College | Wireless Technology |
| | Telecommunications Technology |
| | Communications Engineering Technology |
| Red River College of Applied Arts, Science & Technology | Information and Communications Technology, including digital multimedia |
| Saskatchewan | |
| Saskatchewan Polytechnic | Information Technology and Communication |
| Alberta | |
| Grande Prairie Regional College | Technology Commercialization |
| Keyano College | Online Learning Systems |
| Medicine Hat College | 3D Printing and Laser Scanning |
| Mount Royal University | Wb 2.0 Technologies |
| NorQuest College | Print Media |
| Northern Alberta Institue of | Nanotechnology |
| Technology (NAIT) | Simulation and Gaming |
| | Sensor Design & Systems Integration |
| | Electronic Prototyping |
| SAIT Polytechnic | UHF RFID inventory management tags, hardware & software |
| - | Unmanned Aerial Vehicle application |
| | Wireless communications |
| | Smart control thermostats |
| | SmartPhone vending machine purchases |
| | Nt-Zero Energy Home systems monitoring and automation |
| | SmartSkate wireless infrastructure and data collection/management system |
| | Sensors and Automation |
| | Animal Tracking and Recording |
| Pritich Columbia/Colombia Brita | |
| British Columbia/Colombie-Brita | milique |

| British Columbia Institute of | Digital Learners in Higher Education |
|---------------------------------------|--|
| Technology | |
| | Forensics Information Technology |
| | Information Technology |
| | Smart MicroGrid/Intelligent Micro Grid |
| | Evolving Technology |
| | Wireless Sensor Systems |
| Camosun College | Sensor Development* |
| | Adaptive Technologies |
| Justice Institute of British Columbia | 2.4.4.2.4.4.4.4.4.4.4.4.4.4.3, |
| College of New Caledonia | Trades & Technologies |
| | Satellite-based communication systems |
| North Island College | Remote Web-based Science Lab |
| Okanagan College | iPads as language learning tools |
| | How mobile devices and online intelligence tools are used in scenarios |
| | The connections amoung media, transnationalism and social cohesion |
| College of the Rockies | Internal Tracking of Students |
| | Program Review Data |
| Selkirk College | Digital Basin Portal Project |
| | Higher-level plan reporting suite (forestry) project |
| | Adopting Digital Technologies for SME's projects * |
| Northwest Territories | |
| Aurora College | Public access technology |
| Nunavut | |
| Nunavut Arctic College | Geomagnetic |
| Yukon | |
| Yukon College | Software application development |
| Manufa | cturing, Building Technology and Other - 175 Areas of Specialization |
| Fabric | ation et technologies du bâtiment - 175 domaines de spécialisation |
| Province / College/collège | Area of Specialization / Domaine de spécialisation |
| Newfoundland / Terre-Neuve-et-L | |
| College of the North Atlantic | Manufacturing Engineering |
| | Innovative Product Development |
| | Alternative Energy Solutions |
| | Materials |
| | Engineering Technology |
| Prince Edward Island / Île-du-Prin | nce-Édouard |
| Holland College | Metallurgy |
| | Precision Machining |
| | Underwater Welding |
| Nova Scotia / Nouvelle-Écosse | |
| Nova Scotia Community College | Mechanical Engineering |
| | Additive manufacturing (laser metal sintering) |
| | Design engineering and rapid prototyping |
| | Advanced Welding |
| | Machining (computer numerical control) |
| | Computer aided design |
| | HVAC |
| | |

| 1 | le un en | | |
|---|---|--|--|
| | Building monitoring systems | | |
| | Engineered Technologies | | |
| | New Brunswick / Nouveau-Brunswick | | |
| Collège communautaire du Nouveau-Brunswick | Le prototypage mécanique | | |
| Nouveau-Bruriswick | Transformation des métaux et soudure | | |
| | Technologies de la production des métaux | | |
| | Technologies d'assemblage et de soudure avancées | | |
| | Simulation de transport routier | | |
| New Brunswick Community College | Non-destructive testing | | |
| | Welding Technology | | |
| Québec | | | |
| Cégep de l'Abitibi-Témiscamingue | Technologies des résidus industriels | | |
| Cégep André-Laurendeau | Logistique du transport * | | |
| Cégep Beauce-Appalaches | Mécanique industrielle | | |
| Collège Édouard-Montpetit | Technologies de l'aérospatiale | | |
| Cégep de Jonquière | Production automatisée | | |
| Collège Lasalle | Mode | | |
| Cégep de Lévis-Lauzon | Robotique et de vision industrielle | | |
| Collège de Maisonneuve | Procédés chimiques | | |
| Conege de Maisonneuve | Technologies des emballages et du génie alimentaire | | |
| Cégep Marie-Victorin | Habillement | | |
| Cégep de la Pocatière | Technologie physique | | |
| Cegep de la Focaliere | Électronique, Laser, Élecromécanique et Informatique | | |
| Cégep régional de Lanaudière | Design industriel durable | | |
| Cogop regional de Landadiere | | | |
| | Objet intelligent | | |
| Oá na na da Dina a sa lá | Innovation ouverte | | |
| Cégep de Rimouski | Innovation maritime | | |
| Cégep de Saint-Jérôme | Transport avancé Conception de systèmes électriques, mécaniques et mécroniques, le prototypage, l'instrumentaiton le contrôle, la certification et les essais | | |
| | Développement des composites | | |
| | Matériaux composites thermodurcissables en aéronautique, énergie, génie civil et secteur industriel | | |
| Cegep de Sainte-Hyacinthe | Technologies textiles, géosynthétiques et matériaux souples | | |
| Cégep des Sept-Iles | Maintenance industrielle | | |
| Cégep de Sherbrooke | Production et fabrication intégrées | | |
| Cégep de Sorel-Tracy | Technologie en écologie industrielle | | |
| | Production des métaux | | |
| Cégep de Trois Rivières | Produits cellulosiques | | |
| Cégep de Victoriaville | Technologie meuble et bois ouvré | | |
| Ontario | | | |
| Algonquin College | Mechanical Engineering | | |
| | Building Analytics | | |
| | Enhancing collaboration through Digital tools | | |
| | Buuilding Safety | | |
| | Electrical Engineering Technology | | |
| | Construction and Building Sciences | | |
| | Civil Engineering | | |
| | OWI Engineering | | |

| Collège Boréal | Génie électronique |
|---|--|
| College Bereal | Mécanicien de machinerie lourde |
| | Génie civil et minier |
| | Mining Supply and Services |
| | Heating, Ventilation and Air Conditioning |
| | Automation * |
| | |
| | Carpentry Advanced Welding and Enhancement |
| Cambrian Callaga | Advanced Welding and Fabrication |
| Cambrian College Canadore College | Civil Engineering |
| <u> </u> | Aviation Advanced Composites |
| | Advanced Manufacturing |
| Centennial College | Engineering Technology |
| | Prototype Design and Development |
| Concetege College Institute of | Aerospace Technologies |
| Conestoga College Institute of Technology and Advanced | Advanced Manufacturing |
| Learning | Product Enhancement |
| | Smart Manufacturing |
| | Food Technology |
| | Engineering and Engineering Technology |
| | Advanced Manufacturing |
| Confederation College | Prototyping |
| Durham College | Manufacturing |
| | Electronics |
| | Mechatronics |
| | Robotics |
| | Agricultural Equipment |
| | Egineering Technology |
| Fanshawe College | Advanced Manufacturing |
| | Product Validation |
| George Brown College | Construction Management and Trades |
| | Advanced Product Development and Manufacturing |
| | Green Building (sustainable construction, building automation and building information modeling) |
| Georgian College | Product, Prototype and Process Development * |
| | Maritime and Marine Simulation * |
| Humber College Institute of | Prototype Development |
| Technology and Advanced | |
| Learning | Engineering Technology and Design |
| La Cité | Building Technology |
| | Engineering Technology |
| | Construction |
| | Structure et matériaux |
| Lambton College | Advanced Extrusion Process Identification and Control |
| | Additive Manufacturing |
| | 3D Printing |
| | Process Control and Optimization and Simulation |
| | Advanced Materials Development |
| Mohawk College | Energy Technologies |

| I | Engineering Industry Projects |
|------------------------------------|--|
| | Advanced Materials/Manufacturing |
| Nie waye Callage | |
| Niagara College | Mechanical Engineering Technology |
| N. // 0 // | Advanced Manufacturing |
| Northern College | Cold Weather testing |
| Sault College | Manufacturing |
| | Engineering and Technology |
| | Industrial Automation and robotics |
| | Electrical Automation and Mechanical |
| Seneca College | Aviation |
| | Manufacturing |
| | Robotic Systems |
| | Prototype Development |
| | Machining-conventional and CNC |
| | Tool Design |
| | Product Development |
| | Simulation / Modeling |
| Sheridan College Institute of | Manufacturing & Design Technologies |
| Technology & Advanced Learning | Advanced Manufacturing & robotics |
| St. Clair College | Manufacturing |
| - | Materials |
| St-Lawrence College | Small Manufacturing including software |
| Manitoba | |
| Assiniboine Community College | Motive Trades |
| Red River College of Applied Arts, | Advanced Design and Manufacturing (including Aerospace) |
| Science & Technology | Sustainable Infrastructure * |
| Saskatchewan | |
| Saskatchewan Polytechnic | Architectural Technologies |
| Alberta | |
| Grande Prairie Regional College | Innovation Services (Technology Commercialization of Client-driven R&D) |
| Lethbridge College | Sustainable building practices |
| Medicine Hat College | Power Engineering Technology |
| Northern Alberta Institute of | Product Development and Prototyping |
| Technology | Productivity Improvement |
| | Robotics, Automation and Autonomous Vehicles |
| | Sustainable building and urban ecological design |
| | NanoCARTS |
| | Environmental Management |
| Red Deer College | Advanced Manufacturing |
| New Book Conlege | Prototyping & proof of concept fabrication |
| | Design Engineering Project Management |
| | |
| SAIT Polytechnic | |
| SAIT Polytechnic | Net-Zero Energy Home construction |
| SAIT Polytechnic | Net-Zero Energy Home construction Roof-top greenhouse optimization |
| SAIT Polytechnic | Net-Zero Energy Home construction Roof-top greenhouse optimization Roof-top beekeeping facilities and procedures |
| SAIT Polytechnic | Net-Zero Energy Home construction Roof-top greenhouse optimization |

| | Building integrated renewabel energy and alternative energy - solar photovoltaic and solar thermal research, collection, storage, design, installation and operation |
|---------------------------------------|--|
| | Advanced wall assemblies |
| | Building envelope prototypes and testing |
| | Skate lace extender |
| | Market assessment |
| | Rapid prototyping |
| | Independent product testing |
| British Columbia/Colombie-Britar | nique |
| British Columbia Institute of | Housing and Construction |
| Technology | Building Science (Whole Building Performance) |
| | Energy, Manufacturing and Transportation |
| | Civil Engineering |
| | Construction Management |
| | Fish, Wildlife and Recreation |
| | The Rivers Institute |
| | GIS / Geomatics Green Roof Technology |
| | |
| | Infrastructure Management Sustainable and Environmental Initiatives |
| | |
| | Sustainability, Infrastructure and Transportation Economics |
| Camosun College | Housing and Construction |
| Carriosuri College | Clothing and Textiles |
| | Advanced Manufacturing & Prototyping |
| | Additive Manufacturing |
| | Prototype Design and development |
| | Automation and robotic |
| Justice Institute of British Columbia | Critical infrastructure |
| Kwantlen Polytechnic University | Technical Apparel (Emerging Area) |
| | Design Thinking * |
| | Materials Innovation * |
| College of New Caledonia | LED lighting systems for greenhouse applications |
| Okanagan College | Building information modeling to enhance productivity |
| Vancouver Community College | Transportation Trades |
| Northwest Territories | |
| Aurora College | Permafrost and Intrastructure |
| Yukon | |
| Yukon College | Cold Climate Construction (housing, HRV, energy inventories and audits) |
| - | Construction |
| | Permafrost and Linear Infrastructure |
| | Social Innovation - 214 Areas of Specialization |
| | Innovation sociale - 214 domaines de spécialisation |
| Province / College/collège | Area of Specialization / Domaine de spécialisation |
| Newfoundland / Terre-Neuve-et-La | |
| College of the North Atlantic | Social Science and Humanities |
| <u> </u> | Interdisciplinary Research |
| Prince Edward Island / Île-du-Prin | |
| Holland College | Early Chidhood Education |
| , | I Total Control of the Control of th |

| 1 | Transfer and Large transfer |
|--|--|
| | Teaching and Learning Social Innovation |
| | |
| N. D | Essential Skills |
| New Brunswick / Nouveau-Bruns Collège communautaire du | |
| Nouveau-Brunswick | Compétences essentielles au travail |
| | Étudiants à besoins spéciaux |
| New Brunswick Community College | Advanced Learning Technologies |
| | Entrepreneurship |
| | Social Innovation |
| | Teaching, learning and Services for students Aboriginal Learning |
| Québec | |
| Cégep André-Laurendeau | Pédagogie |
| | Enseignement et apprentissage |
| Collège Dawson | Inclusion scolaire et professionnelle des étudiants en situation de handicap |
| | Pedagogical research and innovation |
| Cégep Édouard-Montpetit | Éducation |
| Cégep Garneau | Interculturalisme |
| Cégep de la Gaspésie et des Îles | Aide au développement durable |
| Cégep Héritage | Pedagogical / learning |
| Cégep de Jonquière | Conditions de vie, la santé et les aspiratiaons des jeunes |
| | Pratiques psychomotrices chez les 0-107 ans |
| | Persévérance scolaire |
| | Éducation à l'enfance |
| Collège de Maisonneuve | Intégration professionnelle des immigrants |
| Cégep Marie-Victorin | Pégagogie |
| | Sciences sociales |
| Collège Montmorency | Education, pédagogie en enseignement supérieur |
| | Inclusion étudiants en situation de handicap |
| | Conception universelle des apprentissages |
| | Intégration professionnelle des personnes immigrantes |
| Cégep de l'Outaouais | Sciences sociales |
| oogop ao . Oatabaa.b | Innovation sociale |
| | Recherche pédagogique |
| | Littérature |
| Cégep régional de Lanaudiere | Économie sociale et solidaire |
| Cegep regional de Lanaudiere | Engagement communautaire et citoyen |
| | Pratiques éducatives innovantes |
| | Enseignement et apprentissage |
| | Éducation |
| Cégep de Rivière-du-Loup | Innovation ouverte living-lab |
| Collège de Rosemont | Responsabilité sociale et écocitoyenneté |
| Cégep de Saint-Laurent | Recherche - création et médiation culturelle |
| Cégep de Sherbrooke | Recherche en Éducation |
| овувр ив энвнигике | |
| | Pédagogie de l'enseignement supérieur Menteret et insertien professionnelle |
| | Mentorat et insertion professionnelle |
| | Economie sociale et solidaire |
| | Minorités et inclusion sociale |

| Cégep de Trois-Rivières | Réussite éducative |
|--|--|
| Vanier College | Pedagogical and some basic research |
| | Pratiques sociales novatrices en agriculture et en agroalimentaire |
| Cégep de Victoriaville | Enseignement et apprentissage |
| Cégep du Vieux-Montréal | Inclusion scolaire et professionnelle des étudiants en situation de handicap |
| Institut de tourisme et d'hôtellerie | Technologies |
| du Québec | Service |
| | Satisfaction de la clientèle |
| | Évaluation des produits |
| | Santé en restauration |
| | Gestion entreprise HRI |
| Ontario | |
| Algonquin College | Interprofessional Education |
| | Devices for people with disabilities |
| | Marketing Research Entrepreneurship |
| | Digital Technology development for not-for-profits |
| | Marketing |
| Collège Boréal | La relation de ventes et l'architecture d'intérieur |
| Centennial College | Emergency & Disaster Preparedness |
| Oemennar College | Teaching and Learning |
| Conestoga College Institute of | Business |
| Technology and Advanced | Academic Development: Innovation with Technology |
| Learning | Entrepreneurship |
| | Human Resource Development: Interprofessional Practice and Role Development |
| Confederation College | Aboriginal Learning |
| Durham College | Self Advocacy for Students with Disabilities (delivered by Centre for Students with Disabilities CSD) |
| Dumam College | Outcomes-based measurement |
| | Scholarship of Teaching and Learning |
| | Social Services to support at-risk populations (e.g. young parents, crown wards, at-rish high school |
| Farabawa Callana | Students) |
| Fanshawe College | Business & Entrepreneurship Student success, teaching and learning and vulnerable/under-represented groups |
| | |
| 0 0 " | Social Innovation |
| George Brown College Humber College Institute of | Emergency Management |
| Technology and Advanced | Interprofessional Education |
| Learning | Effective Advertising |
| | Early Childhood Education |
| | Business Development and Market Research |
| | Entrepreneurism, Social Innovation |
| | Outdoor learning and classrooms (natural playgrounds in the Early Childhood Education Program |
| Lambton College | Social Entreprise |
| | Fire and Public Safety |
| Mohawk College | Service |
| Niagara College | Business & Commercialization Solutions |
| | Hospitality & Tourism |
| Seneca College | Competitive Intelligence/ Market Intelligence Research |
| | Simulation in Aviation Training |

| 1 | | |
|---|---|--|
| | Teaching & Learning | |
| | Financial Services | |
| | Big Data and Business Analytics | |
| | Advanced Instrumental Analysis | |
| | Finite Element Analysis | |
| | Educational Effectiveness | |
| Sheridan College Institute of | Securities | |
| Technology & Advanced Learning | | |
| | Social Innovation | |
| St. Lawrence College | Applied Behavioural Analysis | |
| | Training Methods | |
| | Business | |
| | Behavioural Psychology | |
| Manitoba | | |
| College Universitaire de Saint- | Éducation | |
| Boniface | Langue et Culture | |
| | Sciences humaines et sociales | |
| | Administration des affaires | |
| Red River College of Applied Arts, | The Science of Early Child Developemnt (SECD) | |
| Science & Technology | Social Sciences | |
| University College of the North | Social Sciences and Humanities | |
| | Education | |
| | Urban poverty & marginalized populations | |
| | Homelessness in northern Manitoba | |
| | | |
| | Cree language revitalization | |
| | Early childhood literature | |
| | Land-based education | |
| 0 | Aboriginal Language and Culture | |
| Saskatchewan Gabriel Dumont Institute of Native | Needs assessments for Metis education, best practices, impact of education and training on Metis, and | |
| Studies | thus the province | |
| | Research on missing or absent pieces of Canada's history as well as Metis perspectives | |
| Saskatchewan Polytechnic | | |
| | Scholarly Activities | |
| Alberta | | |
| Bow Valley College | Aboriginal Advancement | |
| | Essential Skills | |
| | Curriculum Design and Delivery Strategies | |
| | Support for Distance and Online Learners | |
| | Literacy and Language Training | |
| | Advancement of Immigrants | |
| | Teaching and Learning | |
| | Social Policy | |
| | | |
| Cront MooFwon I had a waite | Foundational Learning & Assessment | |
| Grant MacEwan University | Business Tracking and Learning Incorpting | |
| | Teaching and Learning Innovation | |
| Keyano College | Lives of the working poor of Fort McMurray | |
| Lakeland College | Social Innovation (teaching and learning, leadership, entrepreneurship, economic development) | |

| 1 | Firefighting and Emergency Medicine |
|---|---|
| | Emergency Services |
| Lethbridge College | Behavioural Aspects of Worker Safety |
| | Public Opinion Polling |
| | English as a Second Language |
| | Workplace safety focusing on driving safety |
| Mount Royal University | Justice |
| Medicine Hat College | Community Development |
| NorQuest College | Workplace Intercultural Communication, Immigrant Integration (English to Workplace EWP) |
| The quest conege | Supports and Services for Students with Disabilities |
| | Aboriginal Learning and Evaluation |
| | Aboriginal Literacy |
| | Business and Industry |
| | |
| | Scholarship of Teaching and Learning |
| Northern Alberta Institute of | Community and Social Innovation |
| Technology (NAIT) | Corporate Social Responsibility |
| , , , , , , , , , , , , , , , , , , , | Sustainable Economic Development |
| | Entrepreneurship and Capital Wealth Management |
| | Scholarship Teaching and Learning |
| | Leadership and talent |
| | Hospitality Industry |
| Portage College | Scholarship of Teaching and Learning |
| Red Deer College | Human-Animal (bear) Interactions |
| SAIT Polytechnic | SPIN Farming Construction industry transformation |
| British Columbia/Colombie-Britan | |
| British Columbia Institute of Technology | Learning & Teaching |
| Technology | Digital Learners in Higher Education |
| | Business Analytics Human Capital Sustainability |
| | Infrastructure |
| | Transportation Economics |
| | Forensics |
| Camosun College | Human Factors Analysis |
| Douglas College | Social Sciences, Arts and Humanities |
| | Business |
| | Pedagogy (Teachning and Learning) |
| Justice Institute of British Columbia | Public Safety and Security |
| | Decision-making in Emergency Operations |
| | Emergency management |
| | Disaster resilience planning |
| | Bona fide occupational requirements |
| | Psychosocial Simulation Exercises, Scenarios, Injects |
| | Simulation and Applied Learning |
| | Practitioner Research |
| Kwantlen Polytechnic University | Education impacts |
| | Psychology |
| | Social Sciences |
| | |
| | At Risk Populations Food Security |

| I | Food Self-Reliance Reducing Unsustainability | |
|-----------------------------|--|--|
| | Creating Sustainability | |
| | Community Engaged Research | |
| Langara College | Research Racially Connected Gang Violence | |
| Langura Comogo | Social Science Research | |
| | Literary and Social History Research | |
| College of New Caledonia | Business | |
| North Island College | Homelessness & Housing | |
| G | Local Food Security | |
| | Distance Education | |
| | Community Based Research | |
| | Youth Justice Initiatives | |
| Okanagan College | Examination of linkage between ethics and security in the theorizing and implementation of Canadian foreign policy | |
| | Examination of information literacy programs and high school to post-secondary transition programs in academic institutions in Canada, the US, Wales and England | |
| | Examine the arc of the born criminal theory | |
| | Social entrepreneurship | |
| College of the Rockies | Labour Market | |
| Selkirk College | Rural Development Institute and Regional Innovation Chair | |
| | Scholarship of Teaching and Learning | |
| | Sustainable Community Development | |
| | Employment Lands Research | |
| | Business Retention and Expansion Research | |
| | Digital Basin portal and Indicators research | |
| | Adopting Digital Technologies for SME's * | |
| | Rural Development Trends Analysis and Knowledge Mobilization projects | |
| | State of the Environment project | |
| | Internationalization of the College | |
| | Indigenizing Course Materials and Curriculum | |
| Vancouver Community College | Language Studies (English as a second language) | |
| | Scholarship of Teaching and Learning | |
| Nunavut | | |
| Nunavut Arctic College | Social Science | |
| Yukon | | |
| Yukon College | Sustainable development of Arctic natural resources | |
| | Cambridge Bay energy Project | |
| | Yukon health and wellness | |

APPENDIX / ANNEXE 3

2013-2014 Applied Research Environmental Scan / Enquête sur les activités de recherche appliquée 2013-2014 Research Centres and Specialized Laboratories by Category and Province/Territory / Centres de recherche et laboratoires spécialisés, par catégorie et province/territoire

| | atolics specialises, par eategorie et province/territorie | |
|---|--|--|
| Natural Resources and Energy - 128 Research Centres | | |
| Ressources natur | relles et énergie - 128 centres de recherche | |
| Province/ College/ Collège | Research Centre / Centre de recherche | |
| Newfoundland / Terre-Neuve-et-Labrador | research centre / centre de recherche | |
| College of the North Atlantic | Petroleum Specialty Centre | |
| College of the North Atlantic | Applied Mineralogy Lab | |
| | | |
| | Wave Energy Research Centre | |
| Prince Edward Island / Île-du-Prince-Édouard | Geospatial Research Facility at Corner Brook Campus | |
| | han in the second of the secon | |
| Holland College | Wind Energy Turbine Facilities and Labs | |
| Nova Scotia / Nouvelle-Écosse | | |
| Nova Scotia Community College | Applied Energy Research Lab | |
| , , | Applied Oceans Research Lab | |
| | Nautical Institute (Simulated ship navigation and propulsion technologies) | |
| | School of Fisheries | |
| New Brunswick / Nouveau-Brunswick | | |
| Collège communautaire du Nouveau-Brunswick | Centre de conservation des sols et de l'eau de l'est du Canada | |
| Somogo communication of the record of this wick | Centre de conservation des sois et de read de rest du Canada Centre pré-commercial de technologies en bioprocédés | |
| Nova Scotia / Nouvelle-Écosse | Toeritie pre-commercial de technologies en bioprocedes | |
| | Energy December 1 ab | |
| Nova Scotia Community College | Energy Research Lab | |
| | Nautical Institute (Simulated ship navigation and propulsion technologies) | |
| | School of Fisheries | |
| New Brunswick / Nouveau-Brunswick | | |
| Collège communautaire du Nouveau-Brunswick | Centre de conservation des sols et de l'eau de l'est du Canada | |
| | Centre pré-commercial de technologies en bioprocédés | |
| Québec | | |
| Collège d'Alma | Agrinova - Recherche et innovation en agriculture | |
| Cégep de Baie-Comeau | Centre d'expérimentation et de développement en forêt boréale (CEDFOB) | |
| Cégep François-Xavier-Garneau | Centre de démonstraiton en sciences physiques (CDSP) | |
| Cégep de la Gaspésie et des Îles | Technocentre éolien | |
| | Merinov - Centre d'innovation de l'aquaculture et des pêches du Québec | |
| Cégep de Jonquière | Chaire de recherche du rendement énergétique (TERRE) | |
| | Chaire de recherche industrielle en technologies des énergies renouvelables | |
| | et rendement énergétique | |
| Cégep de l'Outaouais | Le Laboratoire en Énergie Durable du Cégep de l'Outaouais (LÉDCO) | |
| | Réseau interordre en énergie durable du Québec (RIED) | |
| Cégep Rivière-du-Loup | Laboratoire de biométhanisation | |
| Cégep de Rimouski | Service de recherche et d'expertise en transformation des produits forestiers | |
| Cegep de Millodski | (SEREX) | |
| Cégep de Saint-Laurent | Centres des technologies de l'eau (CTE) | |
| | | |
| Cégep de Sainte-Foy | Centre d'enseignement et de recherche en foresterie de Ste-Foy inc. | |
| | (CERFO) | |
| Cégep de Sherbrooke | Centre de recherche disciplinaire | |
| Cégep de Trois-Rivières | Centre intégré de fonderie et de métallurgie (CIFM) | |
| | Centre spécialisé en pâtes et papiers (CSPP) | |
| | Le Centre interdisciplinaire de perfectionnement pédagogique et de | |
| | recherche en enseignement supérieur -Le groupe de recherche nature et | |
| | génie | |
| Cégep de Victoriaville | Centre d'expertise et de transfert en agriculture biologique et de proximité | |
| | (CETAB+) | |
| Institut agro-alimentaire de La Pocatière | Biopterre – Centre de développement des bioproduits | |
| | 2.5pt.55 Contro do dottolopponioni doo bioproduito | |
| Ontario | | |
| Algonquin College | Full Spectra Centre Hydro One Lab | |
| Cambrian College | Glencore's Centre for Innovation | |
| Canadore College | Simulation Lab | |
| Centennial College | Centennial Energy Institute | |
| Confederation College | BioEnergy Learning and Research Centre | |
| | 1 3, 3 | |

| F | Ocates for Ocates in the Fig. 0.5 1 (COSE) |
|---|---|
| Fanshawe College | Centre for Sustainable Energy & Environments (CSEE) |
| | Solar Simulator |
| | Solar Panels/Collection System |
| | Metrology Lab |
| George Brown College | Gemology Lab |
| | Rare earth metal working facilities |
| Georgian College | Alternative Energy Solutions |
| | Electrical and Power Distribution |
| | Great Lakes International Marine Training & Research Centre |
| | Solar Research Lab |
| La Cité | Laboratoire de biotechnologie |
| Lambton College | Alternative Energy Lab |
| | Lambton Water Centre |
| | Bluewater Technology Access Centre |
| | Centre of Excellence for Energy & Bio Technology |
| | Renewable Energy Conversion and Storage Research |
| | Material Testing Lab |
| | Hydrogen & Fuel Cell Lab |
| | Bio Analytical Lab |
| | Programmable Logic Controller (PLC) Automation Lab |
| | Power Generation Lab |
| Mohawk College | Power Systems Lab |
| | Adanced Power System Lab (APSL) |
| | Advanced Power Quality Lab (APQL) |
| | Hydro One Lab |
| | Cleand and Renewable Lab |
| Niagara College | Wine and Viticulture Research Labs (temperature controlled refrigeration, |
| | chemistry lab, production tanks) |
| | Consumer Research Lab |
| Northern College | Hydro One Energy Centre |
| | Water/Wastewater Treatment Pilot Plants |
| | Diamond Drilling and Exploration Centre |
| Sault College | Wind Energy |
| | Electrical Process Automation Lab |
| | Water/Wastewater Treatment Pilot Plants |
| | Brookfield Power - Energy |
| | Motive Power Lab |
| Seneca College | Centre for the Built Environment and Civil Engineering Technology |
| St. Lawrence College | Centre for Sustainable Energy and Environments (CSEE) |
| | Sustainable Energy Applied Research Centre (SEARC) |
| Manitoba | |
| Assiniboine Community College | Solar and Conventional Greenhouse |
| | Sustainable Greenhouse Facility |
| | Irrigated Field Research Area |
| Red River College of Applied Arts, Sciences & | Advanced Transportation & Energy Research Centre/Electric Vehicle |
| Technology | Technology & Education Centre |
| | Centre for Applied Research in Sustainable Infrastructure (CARSI) |
| University College of the North | Northern Manitoba Mining Academy |
| | Flin Flon Academic Teaching Labs |
| Saskatchewan | |
| Parkland College | Applied Research Farm |
| Saskatchewan Polytechnic | Natural Resources Applied Research |
| Alberta | |
| Grande Prairie Regional College | National Bee Diagnostic Centre - Technology Access Cenetre |
| | Pollutants to Products (P2P) |
| Lakeland College | Centre for Sustainable Innovation |
| | |
| | Livestock Research Facility |
| | Student Managed Farm Facilities |
| | Renewalble Energy Cabin |
| Lethbridge College | Aquaculture Centre of Excellence |

| I | Analytic Chemistry |
|---|---|
| | Hubbard Wildlife Collection |
| Northern Alberta Institute of Technology (NAIT) | NAIT Boreal Research Institute |
| Northern Alberta Institute of Fedinology (NAIT) | NAIT Applied Research Centre for Oil Sands Sustainability (NARCOSS) |
| | Alternative Energy Centre |
| Olds College | Bio-Industry Resource Centre |
| | BioFuel Technology Centre |
| | BioProcessing Pilot Plant |
| | National Meat Training Centre |
| | Olds College Brewery |
| | Turner Research Centre |
| | Grow Safe Research Facility |
| | Plant Pathology Lab |
| | Seed Processing and Cleaning Lab |
| | Canadian Equine Centre for Innovation |
| | Prairie Turfgrass Research Centre |
| SAIT Polytechnic | Technology Mall - Chemical Analysis Lab |
| Gran i digitatimia | Mobile Produced Water Treatment Trailer |
| | PCB Soil Remediation Trailer |
| | Environmental Enclosure |
| | Clean Energy Research Environemntal Enclosure |
| | Rooftop Beekeeping Facilities - 4 Hives |
| | Biodiesel Research Chemical Analysis Lab |
| British Columbia / Colombie-Britannique | |
| British Columbia Institute of Technology | Centre for Energy System Applications |
| 1 13 | Smart MicroGrid Centre for Energy Education and Research (CEER) |
| | Technology Centre * |
| | Internet Engineering Lab (IEL) |
| College of New Caledonia | Research Forest |
| | |
| Okanagan College Selkirk College | Geography Lab Geospatial Research Centre |
| Northwest Territories | Geospatial Nesearch Centre |
| Aurora College | Western Artic Research Centre |
| Adiora College | Research Labs |
| | Warehouses |
| Nunavut | Wateriouses |
| Nunavut Artic College | Two Research Labs |
| Numavat Artic College | Nunavut Research Institute |
| | Wet Laboratories |
| | Cold Storage Warehouses |
| Yukon | Cold Storage Waterloases |
| Yukon College | Reseach Lab (metal analysis) |
| Tukon College | Cold Climate Water Purification Bioreactors |
| Fundamental Caia | |
| | nce and Technologies - 82 Research Centres |
| _ | ies environnementales - 82 centres de recherche |
| Province/ College/ Collège | Research Centre / Centre de recherche |
| Newfoundland / Terre-Neuve-et-Labrador | IO |
| College of the North Atlantic | Geospatial Research Facility at Corner Brook Campus* |
| Prince Edward Island / Île-du-Prince-Édouard | Nanotechnology Lab |
| | Bioscience Research Lab |
| Holland College Nova Scotia / Nouvelle-Écosse | Dioscience Research Lab |
| | Contro of Coographia Saisness |
| Nova Scotia Community College | Centre of Geographic Sciences Centre for the Build Environment Building Systems Lab |
| | |
| | Nautical Institute (Simulated ship navigation and propulsion technologies)* |
| New Brunswick / Nouveau-Brunswick | Applied Geomatics Research Group |
| | Centre de conservation des sols et de l'eau de l'est du Canada* |
| | |
| Collège communautaire du Nouveau-Brunswick | |
| Québec | Centre pré-commercial de technologies en bioprocédés* |

| Cágan da l'Abitibi Támissaminaus | Contra tachnologique des résidus industrials (CTDI) |
|--|--|
| Cégep de l'Abitibi-Témiscamingue Collège Montmorency | Centre technologique des résidus industriels (CTRI) Institut de design et de développement des terres urbaines |
| Cégep de l'Outaouais | Laboratoire de Gestion des Écosystèmes pour le développement durable |
| Cegep de l'Odiaodais | (LabGEDD) |
| | Le Laboratoire de modélisation et d'intelligence territoriale (LabMIT) |
| Cégep régional de Lanaudière | Centre d'expertise et de formation en technologies alimentaires (CEFTA) |
| Coegep regional de Landduiere | Centre d'expertise et de formation en design industriel (CEFdi) |
| Cégep de Rivière-du-Loup | Laboratoire de biométhanisation |
| Collège Shawinigan | Centre national en électrochimie et en technologies environnementales inc. |
| 3 | (CNETE) |
| Cégep de Sherbrooke | Laboratoire spécialisé en Chimie |
| | Laboratoire spécialisé en Physique |
| | Laboratoire spécialisé en Biotechnologie |
| Cégep de Sorel-Tracy | Centre de transfert technologique en écologie industrielle (CTTEI) |
| Cégep de Victoriaville | Le centre d'expertise et de transfert en agriculture biologique et de proximité |
| | (CETAB+) |
| Ontario | |
| Algonquin College | Full Spectra Centre Hydro One Lab * |
| | Biotechnology Labs |
| | Water and Wastewater Labs |
| Collège Boréal | Le Centre Glencore de recherches appliquées en biodiversité |
| Cambrian College | Glencore's Centre for Innovation * |
| Canadore College | Science/Technology Labs |
| Centennial College | Biotechnology/Microbiology Labs |
| Conestoga College Institute of Technology and | Research and Education Centre |
| Advanced Learning | |
| Fanshawe College | Environmental Simulation Lab |
| | Acoustic Noise Emissions Equipment |
| | Centre for Sustainable Energy & Environments |
| | Environmental Science and Monitoring Lab |
| | Product Validation Lab |
| | Exhaust Emission Testing Centre |
| Fleming College | Centre for Alternative Wastewater Treatment (CAWT) |
| George Brown College | Green Building Centre |
| | ARGILE Lab |
| Georgian College | Environmental |
| | Centre for Sustainable Technologies |
| Humber College Institute of Technology and Advanced | Centre for Urban Ecology |
| Learning | |
| | Tree conservation outdoor Lab |
| | Humber Arboretum |
| Lambtan Callaga | Outdoor Learning environment |
| Lambton College | Chemical Analyzer Lab |
| | Lambton Water Centre * |
| | Sustainable Smart House |
| Lo Citá | Water and Wastewater Lab |
| La Cité | Centre de recherche appliquée en biovalorisation |
| Loyalist College | CO2 Extraction Laboratory |
| Niagara College | Environmental Research Labs (living labs) |
| | Niagara College Research Greenhouse |
| | |
| | Land Use Technology Research Lab |
| Sault College | Environment Canada Air Monitoring |
| | Geographic Information System Lab |
| Manitoba | |
| Red River College of Applied Arts, Science & | Centre for Applied Research in Sustainable Infrastructure * |
| Technology | Electric Vehicle Technology & Education Centre |
| University College of the North | Northern Manitoba Mining Academy * |
| | Flin Flon Academic Teaching Labs * |
| Saskatchewan | |
| Saskatchewan Polytechnic | Bioscience Applied Research Centre |
| | |

| Alberta | | | |
|--|---|--|--|
| Lethbridge College | Biotechnology Lab | | |
| Northern Alberta Institute of Technology | Centre for Green Chemistry and Engineering | | |
| Olds College | Analytic Labs | | |
| - | Botanical Gardens & Constructed Treatment Wetlands Robert Turner | | |
| | Research Centre | | |
| | Research Greenhouse Prairie Turfgrass Research Centre | | |
| | Composting Technology Centre | | |
| Grande Prairie Regional College | Grow Safe Research Facility * Carbon Capture Solarium | | |
| Grande i Taine Negional College | | | |
| Grant MacEwan University | Centre for Research & Innovation (CRI) Specialized Lab for Detection, Tracing and Destruction of Antibiotics and | | |
| Grant MacEwari Grillversky | Hormones Biowaste | | |
| Red Deer College | Environmental Ecology | | |
| SAIT Polytechnic | Enerplus Centre for Innovation includes labs for: Biofuel Production; Metals | | |
| | Preparation and Joining; Materials Machining & Water Treatment Systems | | |
| | Solar Roller Mobile Lab | | |
| | Rainwater Harveting Lab | | |
| | Green Building Technologies | | |
| | Mobile Produced Water Laboratory | | |
| British Columbia / Colombie-Britannique | | | |
| British Columbia Institute of Technology | Integrated Molecular Biology Lab (IMBL) | | |
| | Centre for Architechtural Ecology (CAE) | | |
| | Rivers Institute Centre of Excellence | | |
| | Technology Centre Sustainability, Infrastructure, Transportation and Environmental Economics | | |
| | (SITE Centre for Applied Research) | | |
| Camosun College | Applied Chemistry & Biotechnology | | |
| Douglas College | Biology Department Greenhouse | | |
| | Institute of Urban Ecology | | |
| Kwantlen Polytechnic University | Institute for Sustainabble Horticulture | | |
| | Institute for Sustainable Food Systems | | |
| Langara College | Biochar Facility | | |
| Northwest Community College | School of Marine and Coastal Studies | | |
| Okanagan College | Living Lab - Animal Collection | | |
| Selkirk College | Geospatial Research Centre * | | |
| Northwest Territories | Western Artic Research Centre* | | |
| Aurora College | Research Labs* | | |
| | Warehouses* | | |
| Nunavut | Traisileado | | |
| Nunavut Artic College | Two Research Labs * | | |
| | Nunavut Research Institute * | | |
| | Wet Laboratories * | | |
| | Cold Storage Warehouses * | | |
| Yukon | Developed Associated 1-4 | | |
| Yukon College | Permafrost Assessment Lab | | |
| Hoolth Modio | Analytical lab for heavy metals al and Life Sciences - 111 Research Centres | | |
| • | é, médicales et de la vie - 111 centres de recherche | | |
| Province/ College/ Collège | Research Centre / Centre de recherche | | |
| Newfoundland / Terre-Neuve-et-Labrador | | | |
| College of the North Atlantic | Agri-foods Centre | | |
| - | Entomology Research Lab | | |
| Prince Edward Island / Île-du-Prince-Édouard | | | |
| Holland College | Bioscience and Environmental Science Lab | | |
| | Canada's Smartest Kitchen (food product development) | | |
| | Simulation Facilities in Health Labs | | |
| Nova Scotia / Nouvelle-Écosse | | | |

| Nova Scotia Community College | Medical Technologies |
|---|--|
| New Brunswick / Nouveau-Brunswick | |
| Collège communautaire du Nouveau-Brunswick | Centre de conservation des sols et de l'eau de l'est du Canada* |
| Conogo communaciano da ricavoda Branomen | Centre pré-commercial de technologies en bioprocédés* |
| | Laboratoire d'aquaculture expérimentale |
| | Unité de simulation en technologie routières (USTR) |
| Québec | Johns de omination en testimologie realistes (e.e.r.) |
| Cégep de Chicoutimi | Centre d'innovation sur la nutrition et les aliments du Québec |
| Cégep de Drummondville | Institut technologique d'apprentissage gérontologique |
| Cégep de Jonquière | VISAJ - Chaire de recherche conjointe Cégep de Jonquière - UQAC |
| Cégep de Lévis-Lauzon | TransBIOTech -Centre collégial de transfert en biotechnologies |
| Collège Mérici | Centre de solutions technologiques en orthèses et prothèses (CSTOP) |
| Cégep régional de Lanaudière | Centre d'expertise et de formation en transformation des aliments (CEFTA) |
| e e e e e e e e e e e e e e e e e e e | control d'experience et de formation en transformation des airments (e.g. 171) |
| Cégep de Saint-Hyacinthe | La chaire de recherche en matériaux et équipments de protection utilisées en |
| ough as came injusting | santé et sécurité du travail |
| Cégep de Sherbrooke | Centre de recherche et de formation par simulation (CEREFS) |
| Institut de tourisme et d'hôtellerie du Québec | Hôtellerie, restauration et tourisme |
| Ontario | Trotonomo, Tootaanamon ot touriomo |
| Algonquin College | Health and Wellness Research Centre |
| | Design Centre |
| Collège Boréal | Laboratoire de simulation (mannequins électroniques) |
| Conogo Boroan | Laboratoire de soins vétérinaires |
| Cambrian College | North Ontario Assessment and Resource Centre (New Consortium of several |
| Carrishan Conogo | colleges: Confederaton, Boréal, Sault, Canadore & Northern) |
| | Glencore's Centre for Innovation * |
| Canadore College | Simulation Lab |
| Centennial College | Emergency Management and Public Safety Institute |
| Conestoga College Institute of Technology and | The Centre for Advancing Seniors' care |
| Advanced Learning | The Centre for Advancing Seniors care |
| Auvanceu Learning | Life Sciences Application Lab |
| | Life Sciences Application Lab Centre for Health and Life Sciences |
| | |
| Fanshawe College | Health Informatics Hub & Service Centre Nursing and Technology Lab |
| ransnawe College | · · · · · · · · · · · · · · · · · · · |
| | Biotechnology and Medical Simulation Lab |
| | Nursing and Health Simulation Labs |
| | Simulated Dental Office and Dental Radiography Lab |
| | Respiratory Therapy Lab |
| | Simulation lab and mannequins (health) |
| Fleming College | Institute for Healthy Aging (IHA) |
| George Brown College | Nursing Simulated Practice Centre |
| | Dental technology laboratories |
| | Dental clinic |
| | Interprofessional Learning Clinic |
| | Prosthetics and Orthotics Lab |
| | Emergency Management Simulation Centre |
| | Simulation Centre |
| | Health e-Home |
| | Culinary & food development laboratories |
| | Food Innovation and Research Studio (FIRST) |
| Humber College Institute of Technology and Advanced | , , |
| Learning | Cumary Labs |
| Loaning | Exercise Prescription Lab |
| | Fitness Testing Lab |
| | Clinical Simulation Labs |
| | Forensic Labs |
| Lambton College | Fire & Public Safety Centre of Excellence |
| Lambium Guilege | |
| Mahauk Callaga | Health Simulation Lab |
| Mohawk College | Health Informatics Lab |
| | Institute for Applied Health |
| | Applied Research Centre |
| | mHealth & eHealth Development & Innovation Centre (MEDIC) |

| | Mobile Technology |
|--|--|
| | Physical Chemistry Lab |
| | Organic Chemistry Lab |
| | Analytical Chemistry Lab |
| | General Chemistry Lab |
| | Medical Imaging Lab |
| Nicara Callaga | Canadian Food & Wine Institute Research Centre labs (Microbiology lab, |
| Niagara College | |
| | Chemistry Lab, Sensory & Quality Analysis lab, Shelf Life Analysis) |
| | |
| | Snoezelen Room |
| Northern College | Veterinary Technology and Rehabilitation Centre (including Wildlife |
| | Rahabilitation) |
| | East End Family Health Team Clinic |
| | Medical Lab Tech Facility (including telemedicine centre) |
| Sault College | Clinical Simulation Lab |
| ŭ | Human Performance Lab |
| | Nursing Simulation Lab |
| | Physiotherapy Clinic |
| St. Lawrence College | Nursing/Health Science Research Lab |
| | Bio Chem Applied Research and Training Lab (BCART) |
| Seneca College | |
| | Nurisng Skills Lab |
| | Computer Simulatin Labs |
| | Animal Health Building |
| | Opticianry Labs |
| • | Sheridan Elder Research Centre (SERC) |
| Learning | |
| | Centre for Healthy Communitites Labs |
| Manitoba | |
| Assiniboine Community College | Fruit and Vegetable Field Research |
| Red River Collegeof Applied Arts, Science & | Paterson Global Food Institute |
| Technology | |
| University College of the North | Faculty of Health - Academic teaching labs |
| Saskatchewan | <u> </u> |
| Saskatchewan Polytechnic | BioScience Applied Research Centre |
| Cachaterionari i olyteeriine | Institute for Nursing Scholarship |
| Alberta | Inditate for Harding Contracting |
| Grande Prairie Regional College | Neuroscience Laboratory |
| Northern Alberta Institute of Technology (NAIT) | NovaNAIT South Research Lab |
| Northern Alberta institute of Technology (NATT) | |
| | South Edmonton Wet Lab |
| Olds College | Microbiology Lab |
| D 10 0 " | Apparel Innovation Centre |
| Red Deer College | Rural Health Research |
| | Central Alberta Health Research Collaborative |
| | Centre for Healthy Communities Labs |
| SAIT Polytechnic | Technology Mall - Materials Testing Lab |
| | Frequency Identification (RFID) Research Trailer |
| British Columbia/Colombie-Britannique | |
| British Columbia Institute of Technology | Herbal Analysis and Evaluation Lab (HEAL) |
| 37 | Integrated Molecular Biology Laboratory (IMBL) |
| | Dr. Tong Louie Living Laboratory (Living Lab) |
| | Rehabilitation Engineering Design Laboratory (REDLab) |
| | |
| | Cold Atom Technology Laboratory |
| | Centre for Rehabilitation Engineering and Technology that Enables |
| | (CREATE) |
| | Advanced Laboratory for Prototyping Health and Automation (ALPHA) |
| | Technology Centre * |
| | Motion Capture Lab (MCL) |
| Douglas College | Centre for Health and Community Partnerships |
| Camosun College | Sport Innovation Centre (SPIN) |
| Justice Institute of British Columbia | Maple Ridge Fire Safety Training Centre |
| The state of the s | Pitt Meadows Traffic Safety Education Centre |
| | 1 Caroty Education Contro |

| | High Fidelity Simulation Labs |
|--|---|
| | Task Trainers |
| | Simulation Facilities |
| Selkirk College | Worksite Health Promotion Research |
| Northwest Territories | |
| Aurora College | Western Artic Research Centre* |
| | Research Labs* |
| | Warehouses* |
| Yukon | |
| Yukon College | New lab and storage buildings |
| Information and Commi | unications Technologies - 97 Research Centres |
| | on et de la communication - 97 centres de recherche |
| Province/ College/ Collège | Research Centre / Centre de recherche |
| Newfoundland / Terre-Neuve-et-Labrador | Research Centre / Centre de recherche |
| College of the North Atlantic | Manatachnology Lab at Lab City Campus |
| Nova Scotia / Nouvelle-Écosse | Nanotechnology Lab at Lab City Campus |
| | Design and Innovation Centre |
| Nova Scotia Community College | Design and Innovation Centre |
| | Nautical Institute (Simulated ship navigation and propulsion technologies) |
| | |
| | Aviation Institute |
| New Brunswick / Nouveau-Brunswick | 10 |
| Collège communautaire du Nouveau-Brunswick | Centre d'excellence en informatique (CEI) |
| | Unité de simulation en technologie routière |
| New Brunswick Community College | Mobile First Technology IdeaSpaces |
| | Research & Innovation Labs |
| Québec | |
| Collège Ahuntsic | Institut des communications graphiques et de l'imprimabilité (ICI) |
| Cégep André-Laurendeau | Centre collégial de transfert technologique en optique-photonique OPTECH |
| Of some de Obie entirei | Operators de referencialment de Orifhan (OOO) |
| Cégep de Chicoutimi | Centre de géomatique du Québec (CGQ) Musilab Inc. |
| Cégep de Drummondville Cégep de la Gaspésie | Centre d'innovation en formation à distance (CIFAD) |
| Cegep de la Gaspesie | Centre d'innovation en formation à distance (CIFAD) Centre d'étude et de développement pour l'innovation technopédagogique |
| Cégep John-Abbott College | Centre collégial de transfert technologique en optique-photonique OPTECH * |
| Cégep de Jonquière | Centre de recherche, de développement et d'innovation en communication |
| Cégep de Joriquiere Cégep de La Pocatière | Centre de recherche, de developpement et d'innovation en communication Centre collégial de transfert technologique en optique-photonique OPTECH* |
| Collège Lionel-Groulx | Centre d'innovation en microélectronique du Québec (CIMEQ) |
| Cégep de Matane | Centre de développement et de recherche en imagerie numérique (CDRIn) |
| Cégep de l'Outaouais | Laboratoire de modélisation et d'intelligence territoriale (LABMIT) |
| Cégep régional de Lanaudière | Centre d'expertise et de formation en design industriel (CEFDI) |
| Cégep de Sainte-Foy | Centre en imagerie numérique et médias interactifs - (CIMMI) |
| Cégep de Trois-Rivières | Centre collégial de transfert de technologie en télécommunications (C2T3) |
| Ontario | South Consider the transfer as too more give on to coordinate medicine (CETO) |
| Algonquin College | Design Centre * |
| r nganyami canaga | Full Spectra Centre * |
| | Media Convergence Centre |
| | Photonics Lab |
| | Health & Wellness Research Centre |
| | Wireless Technologies Lab |
| | |
| Collège Boréal | Laboratoires de télécommunication |
| Cambrian College | Glencore's Centre for Innovation * |
| Canadore College | Integrated Digital Media Hub |
| Centennial College | HDTV Digital Broadcasting and Film Studio |
| | Simulation Lab |
| | Information and Communication Technology Labs |
| Conestoga College Institute of Technology and | The Applied Research Integrated Telecommunication and Computer |
| Advanced Learning | Technologies LAB |
| | The advanced Sensors' Lab |
| | MAC Lab |
| | Centre of Excellence in Digital Media |
| | The Applied Research Software Lab |

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| Fanshawe College | Computer Numerical Control Lab |
| | CAD Labs |
| | TV and Radio Broadcasting Centre/Broadcast Newsroom |
| | Video Audio Editing and Post Production Suites Mobile Platform Lab |
| | Multimedia Labs |
| O | |
| George Brown College | Institute Without Boundaries |
| | Game-Design Laboratory |
| | StudioLab |
| | Automated Manufacturing Laboratory |
| | Surface Mount Laboratory |
| | Construction Technologies Laboratories |
| | Computer laboratories, including 3D modeling |
| | Computer Numerical Control (CNC) Lab |
| | Application Development Lab |
| Humber College Institute of Technology and Advanced | Industrial Design Prototyping Lab |
| Learning | RhyTHM Lab |
| | Film and TV Broadcast Studio |
| | Music Production Centre |
| | Recording Studio |
| | Digital Media Research Lab |
| | Wireless Lab |
| | Creative Advertising Centre |
| Lambton College | Process Simulation Lab |
| Mohawk College | Procor Lab |
| | Mobile Technology Lab * |
| | Mohawk's mHealth and eHealth Development and Innovation Centre |
| | (MEDIC) * |
| Niagara College | Technology Research Centre (industry flex space) |
| | Augmented Reality Research Labs and Centre for Land Use Technology |
| | |
| | Computer Programming Research Lab |
| | Web Design and Development Research Lab |
| | Computational Agriculture and Remote Sensing/3D Visualization Research |
| | Lab |
| Northern College | Systems Analysis and Design and Simulation |
| Sault College | Network Lab |
| Seneca College | Centre for Advanced Technologies |
| | Centre for the Development of Open Technologies (CDOT) |
| | Aviation Simulators |
| | High Performance Computing Facilities |
| Learning | Visualization Design Institute (VDI) |
| | Mobile Computing Applications Development Labs |
| | Screen Industries Research and Training Centre (SIRT) |
| | Sharcnet and Access Grid |
| Manitoba | |
| Red River College of Applied Arts, Sciences & | Centre for Aerospace Technology & Training |
| Technology | Two specially designed networking classrooms/labs as well as Industry |
| | Project student/client facilities |
| Saskatchewan | |
| Saskatchewan Polytechnic | Computer Science Applied Research Centre |
| Alberta | |
| NorQuest College | Centre for Excellence in Print Media |
| Northern Alberta Institute of Technology (NAIT) | Prototyping Laboratory (School of Electrical and Electronics Technology) |
| | St. Albert Centre (Biological Sciences, Digital Media & Robotics) |
| | Nanotechnology Centre for Applied Research, Industry Training and Services |
| | (nanoCARTS). |
| Red Deer College | Mobile Computing Applications Development Labs |
| | High Performance Computing Facilities |
| | SPARK New Business Development Incubator |
| | |

| SAIT Polytechnic | Radio Frequency Identification Application Development Lab (RADLab) |
|--|--|
| | Centre for Innovative Information Technology Solutions Technology Mall - Solids Modeling Lab |
| British Columbia/Colombie-Britannique | |
| British Columbia Institute of Technology | Advanced Prototyping Hub |
| | Centre for Forensics and Security Technology Studies |
| | Dr. Tong Louie Living Laboratory |
| | Industrial Instrumentation Process Lab |
| | Technology Centre* |
| Douglas College | Digital Cultures Lab |
| North Island College | Remote Web-based Science Labs |
| Selkirk College | Selkirk Geospatial Research Centre |
| Northwest Territories | |
| Aurora College | Western Artic Research Centre* |
| | Research Labs* |
| | Warehouses* |
| Nunavut | |
| Nunavut Artic College | Geomagnetic Observatory |
| Yukon | Nunavut Research Institute * |
| Yukon College | Yukon Technology Innovation Centre |
| | uilding Technology - 153 Research Centres |
| | ologies du bâtiment - 153 centres de recherche |
| Province/ College / Collège | Research Centre / Centre de recherche |
| Newfoundland / Terre-Neuve-et-Labrador | |
| College of the North Atlantic | Innovative Product Development Centre |
| | Manufacturing Technology Centre |
| Prince Edward Island / Île-du-Prince-Édouard | |
| Holland College | Precision Maining Labs |
| | Specialized metallurgy equipment (proposed Atlantic Research network) |
| | Georgetown, PEI |
| Nova Scotia / Nouvelle-Écosse | Georgetown Welding and Fabrication Centre |
| Nova Scotia / Nouvelle-Ecosse Nova Scotia Community College | Advanced Manufacturing Research Lab |
| Nova dedita dominanty donege | |
| | Design & Innovation Centre Centre for the Built Environment |
| | Pilikan House |
| New Brunswick / Nouveau-Brunswick | |
| Collège communautaire du Nouveau-Brunswick | Centre d'excellence en bois ouvré (CEBO) |
| | Centre de technologies en soudage du Canada atlantique (CTSCA) |
| | Services d'appui à l'industrie des matériaux composites |
| Quebec | Centre d'innovation et de transfert technologique des métaux |
| Cégep André-Laurendeau | Institut international de logistique de Montréal |
| Cégep Beauce-Appalaches | MÉCANIUM - Centre d'innovations en mécanique industrielle |
| Cégep de La Pocatière | Centre spécialisé de technologie physique du Québec Inc. (CSTPQ) |
| | Solutions Novika |
| Collège Édouard-Montpetit | Centre technologique en aérospatiale (CTA) |
| Cégep François-Xavier Garneau Cégep de la Gaspésie et des Îles | Centre d'expertise en transport et logistique (CETL) Halieutec |
| Cégep de la Gaspesie et des lies Cégep de Jonquière | Centre de production automatisée (CPA) |
| Collège Lasalle | Centre de transfert technologique de la mode (CTTM) |
| Cégep de Lévis-Lauzon | Centre de robotique et de vision industrielles (CRVI) |
| Collège de Maisonneuve | Centre d'études en procédés chimiques du Québec (CÉPROCQ) |
| | Institut de technologie des emballages et du génie alimentaire – (ITEGA) |
| Cégep Marie-Victorin Cégep de Rimouski | VESTECHPRO - Centre de recherche et d'innovation en habillement |
| | Innovation maritime - Centre de recherche appliquée en technologies |

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|---|--|
| | Corporation du service de recherche et d'expertise en transformation des |
| | produits forestiers (SEREX) |
| Cégep régional de Lanaudière | Centre d'expertise et de formation en design industriel (CEFdi) |
| Cégep de Rivière-du-Loup | Laboratoire de biométhanisation |
| Cégep de Saint-Hyacinthe | Groupe CTT - Centre d'excellence des technologies textiles, |
| | géosynthétiques et matériaux souples Centre d'innovation technologique en agro-alimentaire (Cintech |
| | agroalimentaire) |
| Cégep de Saint-Jérôme | Centre de développement des composites du Québec (CDCQ) |
| Cegep de Saint-Jerome | Institut de transport avancé de Québec (ITAQ) |
| Cégep de Sept-Îles | Institut de transport avance de adebec (TAQ) Institut technologique de maintenance industrielle- ITMI |
| Cégep de Sherbrooke | Centre de productique intégrée du Québec (CPIQ) |
| Cégep de Thetford | Centre de technologie minérale et de plasturgie (CTMP) |
| eogop de modera | OLEOTEK - Centre collégial de transfert de technologie en oléochimie |
| | industrielle |
| Cégep de Trois-Rivières | Innofibre - Centre d'innovation des procuits cellulosiques |
| cogop ac monor | Centre de métallurgie du Québec (CMQ) |
| Cégep de Valleyfield | Centre d'innovation en mécanique industrielle |
| Cégep de Victoriaville | Entreprises Centre d'aide technique et technologique en meuble et bois |
| 9-h | ouvré (EQMBO) |
| Ontario | |
| Algonquin College | Construction Research Centre |
| Cambrian College | Glencore's Centre for Innovation * |
| Collège Boréal | Laboratoire d'automation |
| Canadore College | Innovation Centre for Advanced Manufacturing and Production |
| | Advanced Composites Fabrication, Repair and Test Centre |
| Centennial College | CNC/Rapid Prototyping Lab |
| Conestoga College Institute of Technology and | Centre for Smart Manufacturing |
| Advanced Learning | Johnson Grand manuactum g |
| Fanshawe College | Construction Lab |
| T anonawe conoge | Power Electronics Development Lab |
| | Concrete Testing Lab |
| | Mechatronics Lab |
| | Electrical/Electronics Lab |
| | |
| | Engine Lab |
| | Instrumentation Lab |
| | Driving Simulator |
| | Mechanical |
| | Metrology Lab |
| | Robotics |
| George Brown College | The Centre for Construction & Engineering Technologies |
| | |
| | Advanced Prototyping Lab |
| | Advanced Product Development Lab |
| | Application Development Lab |
| | Building Scineces Lab |
| | Computer Numerical Control Lab |
| | Programmable Logic Controllers Lab |
| | Building Information Medeling |
| | Test Hut for building materials and processes testing |
| | Building Automation Lab |
| | Machine Shop |
| | HVAC Lab |
| | Plumbing Lab |
| | Pneumataics Lab |
| | Materials Testing Lab |
| | - |
| | Metrology Lab |
| | Radio Frequency Identification (RFID) Lab |
| | Wireless Networking Lab |
| | Fashion sewing lab |
| Georgian College | Centre for Sustainable Technologies |
| 1 | Green Innovation Centre |

| I | IAmplied December 9 Improvetion Lab |
|---|---|
| | Applied Research & Innovation Lab |
| Humber College Institute of Technology and Advanced | Applied Design & Manufacturing Solutions Wine Lab |
| , | wine Lab |
| Learning | Contro dos máticos Minto |
| La Cité | Centre des métiers Minto |
| | Centre de recherche en construction - Structure et matériaux |
| Lambtan Callaga | Technologie du génie |
| Lambton College | Advanced Materials Engineering Research (AMER) Lab |
| | Advanced Process Control & Simulation (APCS) Lab |
| | Material Testing Lab |
| | Disributed Control Systesm (DCS) Lab |
| | Distillation Lab |
| | Instrumentation Lab |
| | 3D Printing Lab |
| | Robotics Lab |
| | Process Simulation Lab |
| | Millwright and Welding Shops |
| Mohawk College | Foundry Lab |
| | Physical Chemistry Lab |
| | Organic Chemistry Lab |
| | Analytical Chemistry Lab |
| | General Chemistry Lab |
| | Metallurgy Lab |
| | Electrical Circuits Lab |
| | |
| | Electrotechnology Lab |
| | Process Automation Lab |
| | Electrotechnology Lab |
| | Electronics Lab |
| | Electric Vehicle Lab |
| Niagara College | Mechanical Engineering Research Lab |
| | Industry Innovation Centre at Niagara (3 labs) |
| | Clean Room Research Facilities |
| Northern College | Trades and Technology Centre |
| | Process Control and Instrumentation Lab |
| | Productivity and Innovation Centre |
| | Material Join and Innovation Centre (MAJIC) |
| Sault College | Electrical Automation Lab |
| | Mechanical Testing Lab |
| Seneca College | Training and Testing Labs |
| Johnson Johnsgo | Centre for Advanced Technologies |
| Sheridan College Institute of Technology and Advanced | Centre for Advanced Manufacturing & Design Technologies (CAMDT) |
| Learning | Control of Advanced Manufacturing & Boolgh Footiniologies (CAMB1) |
| Manitoba | |
| Red River College of Applied Arts, Sciences & | Centre for Non-Destructive Inspection |
| Technology | Centre for Aerospace Technology & Training |
| Teoffiology | Centre for Applied Research in Sustainable Infrastructure * |
| | Centre for Non-Destructive Inspection |
| | Technology Access Centre - Aerospace & Manufacturing |
| | Advanced Transportation & Energy Centre |
| University College of the North | Academic teaching shops |
| Alberta | r roadonno roadonny driopo |
| Grande Prairie Regional College | Innovation Services - Centre 2000 |
| Medicine Hat College | Advanced Manufacturing - 3D Printing and Laser Scanning |
| | |
| Northern Alberta Institute of Technology (NAIT) | NAIT Shell Manufacturing Centre |
| Olds College | Natural Fibre Research Centre |
| Red Deer College | Centre for Innovation in Manufacturing |
| SAIT Polytechnic | Bubble Greenhouse FABLab |
| | Enerplus Centre for Innovation |
| | Solids Modeling Lab |
| | Composites Fabrication Lab |
| | Solar Lab * |

| Aurora College Western Artic Research Centre* Research Labs* Warehouses* Yukon Yukon College Laboratory for testing cold climate wall R values Social Innovation - 99 Research Centres Innovation sociale - 99 centres de recherche Province/ College/collège Research Centre / Centre de recherche New Brunswick / Nouveau-Brunswick Collège communautaire du Nouveau-Brunswick Collège Communautaire du Nouveau-Brunswick Centre d'excellence en compétences essentielles au travail (CECET) Prince Edward Island / Île-du-Prince-Édouard Holland College Teaching and Learning Labs | | |
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| Materials Testing Lab Small-scale hipsacton Molding Facilities Green Building Technologies Lab Damonstration Centre British Columbia (Colombie-Britannique) British Columbia Institute of Technology AFRESH Home British Columbia Institute of Technology AFRESH Home British Columbia Institute of Technology AFRESH Home Building Envelope Test Hut Building Envelope (BSCE) Centre for Architectural Ecology (CAE) Colleborations in Living Walls Food Processing Research Centre Smath Mitror Grid Technology Centre 'Green Roof Research Eastility Camosun College Vancouver Island Centre for Advanced Manufacturing and Prototyping (VICAMP) Camosun Technology Access Centre (CTAC) Institute for Materials Innovation Northwest Territories Aurora College Western Artic Research Centre' Research Labs' Warehouses' Vilkon Vilkon Vilkon Vilkon College Laboratory for testing cold climate wall R values Social Innovation 99 Research Centres Innovation socials-99 centres de recherche Provincef College/Collège Now Brunswick / Nouveau-Brunswick Collège communautaire du Nouve | | Rainwater Harvesting Lab * |
| Small-scale Injection Molding Facilities Green Building Technologies Lab Demonstration Centre British Columbia Institute of Technology AFRESH Home British Columbia Institute of Technology AFRESH Home British Columbia Institute of Technology AFRESH Home British Columbia Institute of Technology Canadian Housing & Construction Centre Building Brivelope Test Hut Building Science Centre of Excellence (BSCE) Centre for Architectural Ecology (CAE) Collaborations in Living Walls Food Processing Research Centre Smart Micro Grid Technology Centre Green Roof Research Facility Vancouver Island Centre for Advanced Manufacturing and Prototyping (VICAMP) Carnosun College Vancouver Island Centre for Advanced Manufacturing and Prototyping (VICAMP) Carnosun Technology Access Centre (CTAC) Kwantion Polytechnic University Institute for Materials Innovation Northwest Territories Aurora College Western Artic Research Centre* Research Labs' Warehouses* Yukon Vikon College Laboratory for testing cold climate wall R values Social Innovation - 99 Research Centres Innovation social - 99 centres de recherche Provincel College/Collège Research Centres / Centre de recherche Provincel College/Collège Research Centre / Centre de recherche Provincel College Collège Technology Access Centres de recherche Collège communautaire du Nouveau-Brunswick Collège Communautaire du Nouveau | | |
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| Consortium québécois de développement des pratiques psychomotrices | New Brunswick / Nouveau-Brunswick Collège communautaire du Nouveau-Brunswick Prince Edward Island / Île-du-Prince-Édouard Holland College New Brunswick / Nouveau-Brunswick Collège communautaire du Nouveau-Brunswick Québec Collège Bois-de-Boulogne Cégep de Chicoutimi Dawson College Collège Edward-Montpetit Cégep François-Xavier-Garneau Cégep de la Gaspésie et des Îles | Centre d'excellence en compétences essentielles au travail (CECET) Teaching and Learning Labs Unité de simulation en technologie routière * Centre de développement de la relève scientifique et technologique (CDRST) Centre de démonstration scientifique Saguenay Lac-St-Jean Centre de recherche pour l'inclusion scolaire et professionnelle des étudiants en situation de handicap (CRISPESH) SALTISE - Centre for research on active learning in science education Laboratoire intercollégial de recherche en enseignement de la littérature (LIREL) Centre d'Aude d'études de la nouvelle (CAEN) Centre d'intervention et de recherche en évaluation du personnel en éducation et en entreprise (CIREPE) Centre d'initiation à la recherche et d'aide au développement durable (CIRADD) Centre d'innovation en formation à distance (CIFAD) Centre d'étude et de développement pour l'innovation technologique (Cédit) Écobes Recherche et transfert - Centre d'étude des conditions de vie et des besoins de la population (PSN) |
| | New Brunswick / Nouveau-Brunswick Collège communautaire du Nouveau-Brunswick Prince Edward Island / Île-du-Prince-Édouard Holland College New Brunswick / Nouveau-Brunswick Collège communautaire du Nouveau-Brunswick Québec Collège Bois-de-Boulogne Cégep de Chicoutimi Dawson College Collège Edward-Montpetit Cégep François-Xavier-Garneau Cégep de la Gaspésie et des Îles | Centre d'excellence en compétences essentielles au travail (CECET) Teaching and Learning Labs Unité de simulation en technologie routière * Centre de développement de la relève scientifique et technologique (CDRST) Centre de démonstration scientifique Saguenay Lac-St-Jean Centre de recherche pour l'inclusion scolaire et professionnelle des étudiants en situation de handicap (CRISPESH) SALTISE - Centre for research on active learning in science education Laboratoire intercollégial de recherche en enseignement de la littérature (LIREL) Centre d'Aude d'études de la nouvelle (CAEN) Centre d'intervention et de recherche en évaluation du personnel en éducation et en entreprise (CIREPE) Centre d'initiation à la recherche et d'aide au développement durable (CIRADD) Centre d'innovation en formation à distance (CIFAD) Centre d'étude et de développement pour l'innovation technologique (Cédit) Écobes Recherche et transfert - Centre d'étude des conditions de vie et des besoins de la population (PSN) Groupe de recherche TRÉFIE sur la petite enfance |

| Sheridan College | Centre for Financial Services Centre for Academic Excellence Applied Research and Collaboration Centre (ARCC) |
|---|---|
| | Centre for Financial Services |
| | Centre for Financial Services |
| | · · · · |
| | TOOLIGO TO ETHOPTOHOUND |
| ı | Centre for Entrepreneurship |
| Seneca College | Technology Enhanced Learning Unit |
| Sault College | Training Centre |
| Carrollog College | Control of Exponence for Benavioural Research in Our Community (CEDINO) |
| Niagara College St. Lawrence College | Centre of Excellence for Behavioural Research In Our Community (CEBRIC) |
| Niagara College | Business & Commercialization Solutions Research Lab |
| | iDeaWorks (Innovation/applied research and commercialization) Lab |
| | campaigns for non-profit and for-profit organizations) |
| | The Agency (McKeil School of Business initiative where marketing/advertising/desighn/journalism/PR students work on real |
| Mohawk College | Millennium Foundations for Success The Agency (McKeil School of Rusiness initiative where |
| Lambton College | Circles Millennium Foundations for Suppose |
| Learning | Cirolog |
| Humber College Institute of Technology and Advanced | Humber Launch Centre for Entrepreneurs |
| | Henry Bernick Entrepreneuship Centre |
| Georgian College | Centre for Russian Canada Relations |
| | Counseling Lab |
| Fanshawe College | Activity of Daily Living Laboratory |
| | Doon Campus Lab |
| | Cambridge Campus Lab |
| Advanced Learning | Centre of Business Excellence |
| Conestoga College Institute of Technology and | The Centre for Entrepreneurship |
| Centennial College | Interprofessional Education Lab |
| | Health & Wellness Research Centre * |
| J. 1 | ACOV Research Centre |
| Algonquin College | ACHI Research Centre |
| Ontario | • |
| | Institut de technologie de Montréal |
| 0 , | en situation de handicap (CRISPESH)* |
| Cégep du Vieux Montréal | Centre de recherche pour l'inclusion scolaire et professionnelle des étudiants |
| Cégep de Victoriaville | Centre d'innovation sociale en agriculture (CISA) |
| Tame. Conogo | Institutional Development & Research Office |
| Vanier College | CFI Lab |
| | culture |
| | recherche en enseignement supérieur -Le groupe de recherche société et |
| | Groupe de recherche sur l'inclusion sociale (GRIS) Le Centre interdisciplinaire de perfectionnement pédagogique et de |
| | industrielle (GRADEI) |
| Cégep de Trois-Rivières | Groupe de recherche et d'applications didactiques en électronique |
| Of your de Trais Bird's | (CCTT-PSN), |
| | Centre collégial de transfert de technologie en pratiques sociales novatrices |
| Collège de Rosemont | Centre d'étude en responsabilité sociale et écocitoyenneté (CÉRSÉ) |
| Cégep de Rivière-du-Loup | Laboratoire d'innovation ouverte Living-Lab |
| Cégep régional de Lanaudière | Centre collégial de recherche en économie sociale (CERESO) |
| | (CeRTIT) |
| | Centre collégial de recherche en transfert de l'intelligence territoriale |
| Togop do i odiadadio | (LIREL) |
| Cégep de l'Outaouais | Laboratoire intercollégial de recherche en enseignement de la littérature |
| Conege Monunorency | des personnes immigrantes |
| Cégep Marie-Victorin Collège Montmorency | Chaire Unesco de recherche appliquée pour l'écudation en prison Centre d'expertise et de recherche sur l'intégration sociale et professionnelle |
| Collège de Maisonneuve | Institut de recherche sur l'intégration professionnelle des immigrants (IRIPI) |
| Collège de Maisenneuve | (CRDIC) |
| | Centre de recherche et de développement en Innovation et Communication |
| | les aspirations des jeunes (VISAJ) |
| | |

| Red River College of Applied Arts, Sciences & Technology | The Science of Early Child Development | |
|--|--|--|
| University College of the North | Cente for Aboriginal Languages & Culture | |
| Saskatchewan | Conto for Albertamar Languages a Suitare | |
| Saskatchewan Polytechnic | Early Childhood Demonstration Lab Day Care Centre | |
| Caskatonewan i Ciytecinilo | Interprofessional Simulation Learning Centre Labs | |
| Alberta | Interpreteestation Control Control Case | |
| Bow Valley College | Test of Workplace and Essential Skills (TOWES) | |
| | Foundational Learning Centre | |
| | Institutional Analysis | |
| | Evaluation Unit in Learning Resource Services | |
| | Intercultural Education | |
| Lakeland College | Emergency Training Centre | |
| Lethbridge College | Citizen Society Research Lab | |
| NorQuest College | Centre for Excellence in Education in Continuing Care | |
| - | Centre for Excellence in Intercultural Education (CEIE) | |
| | Centre for Excellence in Learner Supports (CELS) | |
| | Centre for Excellence in Aboriginal Learning (CEAL) | |
| Red Deer College | SEARCH Asset | |
| | Applied Research and Collaboration Centre (ARCC) | |
| British Columbia/Colombie-Britannique | | |
| British Columbia Institute of Technology | Learning & Teaching Centre | |
| | Centre for Forensics and Security Technology Studies | |
| | Sustainability, Infrastructure, Transportaton & Environmental Economics | |
| | Centre for Applied Research (SITE) * | |
| | Technology Centre * | |
| | Economics (SITE) | |
| Douglas College | Digital Cultures Lab | |
| Justice Institute of British Columbia | Centre for Prevention and Reduction of Violence | |
| | Centre for Resilient Communities | |
| | Centre for Environmental Justice | |
| | Qualitative Analysis Lab | |
| | Driving Track | |
| | Shooting Range | |
| | Vehicle extraction | |
| | Live fire burn building | |
| | Full-scale train derailment simulation | |
| | Simulation spaces (apartment, configurable gym with moveable walls, mock jail, mock courtroom) | |
| | Donald B Rix Public Safety Simulation Centre | |
| W # 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | - | |
| Kwantlen Polytechnic University | The Centre for Interdisciplinary Research: Community Learning & | |
| | Engagement (CIR:CLE) | |
| Okanagan Collge | Acting Together: Community-University Research Alliance (AT-CURA) Wine Sensory Lab | |
| Chanagan Conge | Community Garden | |
| Selkirk College | Regional Innovation Chair (RIC) | |
| - Commit Comogo | Rural Development Institute (RDI) | |
| | MIR Centre for Peace | |
| | Teaching and Learning Institute | |
| | Columbia Basin Rural Development Institute | |
| Nunavut | 12 2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2. | |
| Nunavut Artic College | Two Research Labs * | |
| | Nunavut Research Institute * | |
| Yukon | • | |
| Yukon College | Social Science Lab | |
| • | | |

APPENDIX / ANNEXE 4

2013-2014 Applied Research Environmental Scan / Enquête sur les activités de recherche appliquée 2013-2014 Research Networks Identified by Respondent Colleges / Réseaux de recherche - par collège répondant

| Regions / Régions | orks Identified by Respondent Colleges / Réseaux de recherche - par collège répondant Research Networks / Réseaux de recherche |
|-------------------|---|
| Yukon | British Columbia Applied Research and Innovation Network (BCARIN) |
| | Canadian Mining Innovation Council (CMIC) |
| | Colleges & Institutes Canada - National Research Advisory Committee (NRAC) |
| | Colleges & Institutes Canada - Research Network |
| | Polar Commission |
| | Polar Continental Shelf Program |
| British Columbia/ | Advanced Networks for Higher Education and Research in British Columbia (BCNET) |
| Colombie- | Alliance for Commercialization of Canadian Technologies (ACCT) |
| Britannique | BC-Alberta Social Economy Research Alliance |
| | BCNET |
| | BC Nurse Research Initiative (BCNRI) |
| | British Columbia Applied Research and Innovation Network (BCARIN) |
| | British Columbia Rural Research Network |
| | Canadian Alliance for Community Service Learning |
| | |
| | Canadian Association of University Research Administrators (CAURA) |
| | Canadian Columbia Basin Glacier & Snow Research Network |
| | Canadian EMS Research Network |
| | Canadian Rural Revitalization Foundation |
| | Colleges & Institutes Canada - National Research Advisory Committee (NRAC) |
| | Colleges & Institutes Canada - Research Network |
| | Columbia Mountains Institute of Applied Ecology DND Canadian Safety & Security Program Communities of Practice: Police, Fire, EMS, Emergency Management, Psychosocial |
| | Greater Victoria Chamber of Commerce (Manufacturing & Industrial Sector Operational Committee |
| | Green Marine |
| | Inspirenet: Innovative Health Services & Practice |
| | NSERC Smart Microgrid Network (NSMG-Net) |
| | Research Impact CIC |
| | Vancouver Island Community Research Alliance (VICRA) |
| | Victoria Advanced Technology Council (VIATeC) Westlink Innovation Network |
| | World Conference on Disaster and Emergency Medicine (WCDEM) Planning Committee |
| Alberta | Advancing the Commercialization of Canadian Technologies |
| | Agriculture Food & Fibre Applied Research Network (regional) |
| | Alberta Association of Colleges and Technical Institutes (AACTI) |
| | Alberta Biochar Network |
| | Alberta Innovates |
| | Alberta Innovates Technology Futures |
| | Alberta Institutional Research Managers Committee |
| | Alberta Prion Research Network |
| | Alberta Regional Innovation Networks |
| | Alberta Research Innovation Network |
| | Alberta Rural Development Network |
| | Alberta Rural Organic Waste to Resources Network (AROWRN) |
| | Alberta Turfgrass Research Foundation |
| | Alliance for Commercialization of Canadian Technologies (ACCT) |
| | Animal Care Coordinator Listservs |
| | Biorefining Conversions Network |
| | |
| | Calgary Regional Innovation Network Campus Alberta |
| | |
| | Canada's Oil Sands Innovation Alliance (COSIA) |

Canadian Association of University Research Administrators (CAURA) Canadian Community Economic Development Network Canadian Council of Animal Care Canadian Evaluation Society Canadian Manufacturers and Exporters Central Alberta Economic Partnership (CAEP) Central Alberta Region Innovation Network (CARIN) Central Alberta Rural Manufacturers Association Clearinghouse Colleges & Institutes Canada - National Research Advisory Committee (NRAC) Colleges & Institutes Canada - Research Network Community Research Ethics Board of Alberta (CREBA) Cvbera Edmonton Regional Alliance **Evaluation Society Alberta Innovates Connector Directory** Innovation Management Committee Institute for Continuing Care Education and Research (ICCER) National Research Council-Industrial Research Assistance Program (IRAP) - West North American Research Network Linkages Northern Alberta Development Council Northern Labour Market Information Polytechnics Canada Regional Alliance Partnership Regional Innovation Network (RIN) Renew West Renewable Energy Research Alberta RIN Consortium (which consists of Entrecorp Community Futures, Medicine Hat College and the Economic Developers Alberta) Rural Development Network Southern Alberta Intellectual Property Network (SAIPN) Sustainable Cropping System Platforms for Biodiesel Feedstock Quantity and Quality Network Virtual Researcher On Call (VROC) West Link Innovation Network Western Innovation Office Initiative Colleges & Institutes Canada - National Research Advisory Committee (NRAC) Saskatchewan Colleges & Institutes Canada - Research Network Communities of Tomorrow Heartland Applied Research Partners (formerly Great Plains Applied Research Network) Danish Technology Network and TRLabs Polytechnics Canada Saskatchewan Council for Archives and Archivists Saskatchewan Environmental Industry and Managers Association (SEIMA) Saskatchewan Museums Association Saskatchewan Research Council TRLabs Partnership University of Regina University of Saskatchewan Westlink Innovation Network Aboriginal Education Research Forum Manitoba Canada's Advanced Research and Innovation Network (CANARIE) Colleges & Institutes Canada - National Research Advisory Committee (NRAC) Colleges & Institutes Canada - Research Network Danish Technology Network and TRLabs Manitoba Association of Distributed Learning and Technologies (MADLaT) Manitoba Education Research Network (MERN)

Heartland Applied Research Partners (HARP) (formerly Great Plains Applied Research Network)

Manitoba Zero Tillage Research Association (MZTRA)

Prairie IP Activator (PIPA)

TR Labs Partnership

TRTech

Western Canada Innovation Office

WestLink Innovation Network

Ontario

ACM

Advanced Medical Research Institute of Canada (AMRIC)

Alliance for Commercialization of Canadian Technologies (ACCT)

Association for Institutional Research (AIR)

Bioindustrial Innovation Centre (BIC)

Canada's Health Informatics Association

Canada Health Infoway partnership

Canadian Association of University Research Administrators (CAURA)

Canadian Assocation of Research Ethics Boards (CAREB)

Canadian Association on Water Quality

Canadian Council for Animal Care

Canadian Hydrogen and Fuel Cell Association (CHFCA)

Canadian Institutional Research and Planning Association (CIRPA)

Canadian Interprofessional Health Collaboration (CIHC)

Canadian Mining Innovation Council (CMIC)

Canadian Process Control Association (CPCA)

Canadian Water Network

Capital Entrepreneurs

Centre of Excellence for Mining Innovation (CEMI)

Centre for Innovation and Collaboration in the Art and Sciences (CICAS)

COACH

Colleges & Institutes Canada - National Research Advisory Committee (NRAC)

Colleges & Institutes Canada - Research Network

Colleges Ontario Heads of Applied Research (HAR)

Colleges Ontario Heads of Applied Research Executive

Colleges Ontario Network for Industry Innovation (CONII)

Colleges Ontario Network for Industry Innovation (CONII) - Research Ethic Board (REB)

Conference Board of Canada - Council for Innovation and Commercialization

Conseil national de recherches du Canada (CNRC)

Consortium on New Media, Creative and Entertainment R&D (CONCERT)

Council on Undergraduate Research (CUR)

Eastern Ontario Wood Centre

FedDev Best Practices Working Group

Génome Ontario

Greater Sudbury Regional Business Centre

Halton Regional Innovation Centre (Haltech)

Higher Education Quality Council of Ontario (HEQCO)

Hydro One Applied Research Consortium -(HARC)

Inclusive Design Institute (IDI)

Innovate Niagara

Innovation in Manufacturing Network

Innovation Synergy Centre in Markham (ISCM)

Institute of Electrical and Electronics Engineers (IEEE)

Institute for Watershed Science

Interactive Manufacturing Innovation Network (IMIN)

International Electrotechnical Commission (IEC)

International Polar Year Program

MaRS

Mississauga Research Innovation Centre (RIC)

Nano Ontario

National Institute for Health Informatics

National Photovoltaic Innovation Network

NSERC Synergy & Innovation Awards Committee

Network for Innovation & Entrepreneuship (NIE)

Non-Residential Attendance Centre (NRAC)

Northeast Academic Health Sciences Network

Northeastern Ontario Research Alliance (NEORA)

Northeastern Ontario Resource Association

Northern Interprofessional Committee for Health Education

Northern Ontario Research Ethics Board Consortium

Northern Policy Insitute

Northern Research Working Group

OCE - Advanced Manufacturing Sector Advisory Board

OCE - Talent External Advisory Panel

Ontario Augmented Reality Network

Ontario Centres of Excellence (OCE)

Ontario Colleges - Heads of Applied Research Executive

Ontario Colleges Institutional Research Committee (OCIRC)

Ontario Golden Horseshoe Biosciences Network

Ontario Grapevine and Wine Research Network

Ontario Network of Entrepreneurs (ONE)

Ontario Network of Excellence (ONE)

Ontario Onsite Wastewater Association

Ontario Research and Innovation Optical Network (ORION)

Ontario Research Ethics Sub-Committee

Ontario Society for Excellence in Technology Transfer (OnSETT)

Ontario Tire Stewardship (OTS)

Ottawa Technology Transfer Network

Ontario Vineland Research and Innovation Centre

Ottawa Young Entrepreneurs

Ottawa Centre for Research and Innovation (OCRI)

Pan-Northern Applied Research Network

Partnerships in Academic Collaboration and Entrepreneurship (PACE)

Peel Regional Innovation Centre

Photovoltaic Innovation Network Ontario

Polytechnics Canada

Recording Arts Canada

Regional Innovation Centre (RIC)

Réseau pour l'innovation industrielle des collèges de l'Ontario

Regional Innovation Network (RIN)

SHARCnet

Silicon Halton

Smart Grid Consortium - Sustainable Energy Applied Research Centre (SEARC)

Society for College and University Planning (SCUP)

Solar Building Research Network

Southwestern Ontario Bioproducts Innovation Network (SOBIN)

Standards Collaborative Working Groups

Sustainable Chemistry Alliance (SCA)

The Ontario Augmented Reality Network

TechAlliance (London Ontario)

Technology Evaluation in the Elderly Network (TVN)

Toronto Region Research Alliance (TRRA)
Underground Ultra Deep Mining Research Network
Vineland Research and Innovation Centre Ontario
World Discoveries (London, Ontario)
York BioTech

Québec
American Composites Manufacturers Association
ArboraNano
Association aquacole du Canada

Association de la pédagogie collégiale

Association des industriels de la pêche du Québec

Association des pêcheurs propriétaires du Québec

Association francophone pour le savoir (ACFAS)

Association pour la recherche au collégial (ARC)

Association pour le développement et l'innovation en chimie au Québec (ADICQ)

Association pour le développement de la mesure en évaluation en éducation (ADMEE)

Association pour le développement de la recherche et de l'innovation du Québec (ADRIQ)

Association québécoise de pédagogie collégiale (AQPC)

Association québécoise en maîtrise de l'énergie

Associations de pêcheurs indépendantes

Bureau canadien de l'éducation internationale (BCEI)

Canadian Association of University Research Administrators (CAURA)

Cégep International

Centre collégial de développement de matériel didactique (CCDMD)

Centre d'innovation et de technologies industrielles de Granby (CITIG)

Centre international pour l'enseignement et la formation technique et professionnelle (UNEVOC)

Centre interuniversitaire de recherche sur la science et la technologie (CIRST)

Centre québécois de recherche et de développement de l'aluminium (CQRDA)

Centre québécois de valorisation des biotechnologies (CQVB)

Centre de recherche interuniversitaire sur la littérature et la culture québécoises (CRILCQ)

Centre de recherche sur les matériaux renouvelables (CRMR)

Centre de recherche sur les systèmes polymères et composites haute performance (CREPEC)

Chaires de recherche industrielle dans les collèges (CRIC)

Colleges & Institutes Canada - National Research Advisory Committee (NRAC)

Colleges & Institutes Canada - Research Network

Comité d'experts du Programme de recherche et de développement Moule en Gaspésie

Comité de développement du programme ACCORD

Comité sectoriel de main-d'œuvre des pêches maritimes (CSMOPM)

Conseil de recherches en sciences naturelles et en génie du Canada (CRSNG)

Conseil Régional de Prévention de l'Abandon Scolaire (CREPAS)

Consortium d'animation sur la persévérance et la réussite en enseignement supérieur (CAPRES)

Consortium Innovation Polymères (CIP)

Consortium de recherche en innovation aérospatiale du Québec (CRIAQ)

Consortium de recherche et innovations en bioprocédés industriels au Québec (CRIBIQ)

Consortium régional de la recherche en éducation (CRRE)

Corporation de recherche et d'action sur les maladies héréditaires (CORAMH)

Fédération des cégeps du Québec

Figura, le Centre de recherche sur le texte et l'imaginaire

Fondation Canadienne pour l'Innovation (FCI)

Groupe de recherche en médiation culturelle

Groupe de recherche sur l'immigration, l'équité et la scolarisation (GRIÉS)

Groupe de recherche sur les imaginaires politiques en Amérique latine (GRIPAL)

Inno-VÉ

INRS

Institut de recherche Robert-Sauvé en santé et en sécurité du travail (IRSST)

Institute of Electrical and Electronics Engineers (IEEE)

Laboratoire d'histoire et du patrimoine de Montréal (LHPM)

Ministère de l'Agriculture, des Pêcheries et de l'Alimentation du Québec (MAPAQ)

Ministère Pêches et Océans Canada (MPO)

Observatoire interdisciplinaire de création et de recherche en musique (OICRM)

PERFORMA

Pôle d'excellence québécois en transport terrestre

Pratiques de participation citoyenne dans la recherche et l'action sur les inégalistés sociales (PAXCIT)

Programme d'aide à la recherche sur l'enseignement et l'apprentissage (PAREA)

PROMPT

Regroupement des chercheurs en aluminium (REGAL)

Regroupement des industries des composites du Québec (RICQ)

Regroupements sectoriels du Ministère du Développement économique, de l'Innovation et de l'Exportation (MDEIE)

Regroupements stratégiques pour la programmation portant sur Figura

Res Artis

Réseau Aquaculture Québec

Réseau des Cégeps et des Collèges Francophones du Canada (RCCFC)

Réseau Environnement

Réseau International Education et Diversité (RIED)

Réseau Interordre de l'énergie durable

Réseau des universités du Québec

Réseau de Recherche Adaptech

Réseau recherche innovation Québec

Réseau Trans-Tech et les CCTT

Ressources Aquatiques Québec (RAQ)

Ressources, sciences et technologies marines (RSTM)

SADC Rocher Percé

Service de technologie en pêche (STEP)

Société de développement de l'industrie maritime (SODIM)

Société de la Vallée de l'Aluminium

Sociétés de valorisation de la recherche universitaire

Supporting Active Learning & Technological Innovation in Science Education (SALTISE)

Territoires innovants en économie sociale et solidaire (TIESS-OLT)

Université Laval

Université du Québec à Rimouski

Atlantic Provinces / Provinces atlantiques

Agriculture et agro-alimentaire Canada

Alliance for Commercialization of Canadian Technologies (ACCT)

Association canadienne des administrateurs de recherche universitaire (ACARU)

Association canadienne des ressources hydriques

Association canadienne pour la Commercialisation des Technologies (ACCT)

Association of University Technology Managers (AUTM)

Atlantic Provinces Community College Consortium (APCCC) - Applied Research Network

Atlantic Welding Network

Atlantic Wine Institute

BioAtlantech

Canadian Association of University Research Administrators (CAURA)

Canadian Association of Research Ethics Boards (CAREB)

Canadian Foundation for Climate and Atmospheric Sciences (CFCAS) - 1P3

Canadian Police Knowledge Network

CARET (IBM) Research & Development Committee

C-Clear

Centre de recherche et de développement en éducation (CRDÉ) de l'Université de Moncton

Conseil national de recherches du Canada (CNRC) - PARI

Colleges & Institutes Canada - National Research Advisory Committee (NRAC)

Colleges & Institutes Canada - Research Network

Comité de la chaine de valeur des bioproduits

Comité directeur sur la recherche postsecondaire du Nouveau-Brunswick

Conseil Atlantique pour la bioénergie (CAB)

Conseil canadien de protection des animaux (CCPA)

Conseil national de recherches du Canada (CNRC) - Programme d'aide à la recherche industrielle (PARI)

Conseil de conservation des sols du Canada

Conseil de recherches en sciences naturelles et en génie du Canada (CRSNG)

Conseil sur la recherche et la productivité du Nouveau-Brunswick

Consortium des collèges communautaires des provinces de l'Atlantique - sous groupe de recherche

Flintbox.com

Geomatics Assocation of Nova Scotia

Institute for Ocean Research Enterprise

National Register of Access Consultants (NRAC)

NCE-Capsnet

NSERC Atlantic Advisory Committee

NSERC Strat-Aware

Nova Scotia Research and Innovation Trust Provincial Research Advisory Committee

Offshore Energy Research Association

Réseau Atlantique de recherche en bio-raffinage

Regional Adaptation Collaboratives - Atlantic Climate Adaptation Solutions

Sous-comité conjoint (CCNB/Université de Moncton) sur la recherche

Springboard Atlantic Inc.

Tucker Park Collaborative Group

APPENDIX / ANNEXE 5 2013-2014 Applied Research Environmental Scan / Enquête sur les activités de recherche appliquée 2013-2014

Partnerships with Universities by Province/Territory / Partenariats avec les universités, par province/territoire

| | e partnerships with 89 Universities / 57 collège | |
|--|--|--|
| Province/ College/ Collège | University / Université | Area of Research / Domaine de recherche |
| Newfoundland / Terre-Neuve-et-Labrador | | |
| College of the North Atlantic | Memorial University of Newfoundland | |
| Prince Edward Island / Île-du-Prince-Édouard | · | |
| Holland College | University of Prince Edward Island | All research areas |
| New Brunswick / Nouveau-Brunswick | | |
| | Hairmanite of Name December | Makila First Taskaslam |
| New Brunswick Community College | University of New Brunswick | Mobile First Technology |
| | University of Moncton | Airborne LiDAR (light detection & ranging) technology |
| Collège communautaire du Nouvdau-Brunswick | Université Acadia | Viticulture |
| | Université Dalhousie | Viticulture |
| | Université de Moncton | Aquaculture, Science de la santé |
| | Université Saint Mary's | Viticulture |
| Nova Scotia / Nouvelle-Écosse | | |
| Nova Scotia Community College | Acadia University | Analytics and Optimization |
| , , | Cape Breton University | Analytics and Optimization |
| | Dalhousie University | |
| | | Analytics and Optimization |
| | Mount Saint Vincent University | Analytics and Optimization |
| | St. Francis Xavier University | Analytics and Optimization |
| | Saint Mary's University | Analytics and Optimization |
| Québec | • | • |
| Cégep André-Laurendeau | University du Québec à Montréal | Projet de recherche inter-ordres dans le domaine de la recherche sur |
| | , | l'enseignement collégial |
| Dawson College | Concordia University | Pedagogical Research |
| | Université de Montréal | History research, math research pedagogical research |
| | | 1 2 2 |
| | Université du Québec à Montréal | History research |
| | McGill University | Pedagogical Research |
| Collège Edward-Montpetit | École de technologie supérieure | Caractérisation des site contaminés |
| | Université Laval | Littérature |
| | Université de Montréal | Immigration et réussite, Musique |
| | Université du Québec à Montréal | Histoire |
| Cágan Carnagu | Université Laval | Sciences de l'éducation |
| Cégep Garneau | | Sciences de l'education |
| Cégep de la Gaspésie et des Îles | Université du Québec à Rimouski | |
| | Université Laval | |
| Cégep de Jonquière | University McGill | Innovation sociale |
| | Université du Québec en Abitibi-Témiscamingue | Innovation sociale |
| | Université du Québec à Chicoutimi | Innovation sociale; technologies des énergies renouvelables; phychomotricité |
| | | |
| | Université du Québec à Rimouski | Innovation sociale |
| | Université de Toronto | Innovation sociale |
| Collège Montmorency | Université du Québec à Montréal | Kinésiologie: évaluation de l'efficacité des appareils orthoprothétiques; Philosophie: outils informatiques d'autoapprentissage pour la lecture, l'analyse e l'écriture de textes argumentatifs; sciences de l'éducation: développement de la compétence liée à la relation éducatrice-parent en éducation préscolaire Outils multimédias en ligne pour soutenir les apprentissages en comptabilité. |
| | | Applications pédagogiques de la conception universelle de l'apprentissage |
| | | |
| | Télé-Université | Outils multimédias en ligne pour soutenir les apprentissages en comptabilité. |
| Cégep de Rivière-du-Loup | Télé-Université Université du Québec à Rimouski | Outils multimédias en ligne pour soutenir les apprentissages en comptabilité. Programme de Technologie de l'électronique industrielle dans le domaine de |
| Cégep de Rivière-du-Loup | Université du Québec à Rimouski | |
| Cégep de Rivière-du-Loup Cégep Saint-Jean-sur-Richelieu | | Programme de Technologie de l'électronique industrielle dans le domaine de |
| · · · · · · · · · · · · · · · · · · · | Université du Québec à Rimouski | Programme de Technologie de l'électronique industrielle dans le domaine de l'automatisation et de la robotique. |
| Cégep Saint-Jean-sur-Richelieu | Université du Québec à Rimouski Univertisé du Québec à Montréal | Programme de Technologie de l'électronique industrielle dans le domaine de l'automatisation et de la robotique. Sciences de l'éducation |
| Cégep Saint-Jean-sur-Richelieu | Université du Québec à Rimouski Univertisé du Québec à Montréal École Polytechnique de Montréal Université Laval Université de Sherbrooke | Programme de Technologie de l'électronique industrielle dans le domaine de l'automatisation et de la robotique. Sciences de l'éducation Nanocomposites |
| Cégep Saint-Jean-sur-Richelieu Cégep de Saint-Jérôme | Université du Québec à Rimouski Univertisé du Québec à Montréal École Polytechnique de Montréal Université Laval | Programme de Technologie de l'électronique industrielle dans le domaine de l'automatisation et de la robotique. Sciences de l'éducation Nanocomposites Réalisation d'une hydrolienne oscillante Molécules organiques chimie; Didactiques des mathématiques; Synthèse intégrale (mathématiques); Pollution lumineuse; Français (lecture et écriture); |
| Cégep Saint-Jean-sur-Richelieu Cégep de Saint-Jérôme Cégep de Sherbrooke | Université du Québec à Rimouski Univertisé du Québec à Montréal École Polytechnique de Montréal Université Laval Université de Sherbrooke | Programme de Technologie de l'électronique industrielle dans le domaine de l'automatisation et de la robotique. Sciences de l'éducation Nanocomposites Réalisation d'une hydrolienne oscillante Molécules organiques chimie; Didactiques des mathématiques; Synthèse intégrale (mathématiques); Pollution lumineuse; Français (lecture et écriture); Robotique; Électromécanique Dynamique interstellaire |
| Cégep Saint-Jean-sur-Richelieu Cégep de Saint-Jérôme Cégep de Sherbrooke Cégep de Trois-Rivières | Université du Québec à Rimouski Univertisé du Québec à Montréal École Polytechnique de Montréal Université Laval Université de Sherbrooke Université Laval Université de Montréal Université de Montréal Université de Montréal | Programme de Technologie de l'électronique industrielle dans le domaine de l'automatisation et de la robotique. Sciences de l'éducation Nanocomposites Réalisation d'une hydrolienne oscillante Molécules organiques chimie; Didactiques des mathématiques; Synthèse intégrale (mathématiques); Pollution lumineuse; Français (lecture et écriture); Robotique; Électromécanique Dynamique interstellaire Intégration des TIC dans l'enseignement; apprentissage actif Pédagogie de l'enseignmenet supérieur; intégration des étudians ayant des besoins particuliers |
| Cégep Saint-Jean-sur-Richelieu Cégep de Saint-Jérôme Cégep de Sherbrooke | Université du Québec à Rimouski Univertisé du Québec à Montréal École Polytechnique de Montréal Université Laval Université de Sherbrooke Université Laval Université de Montréal Université de Montréal Université du Québec à Trois-Rivières McGill University | Programme de Technologie de l'électronique industrielle dans le domaine de l'automatisation et de la robotique. Sciences de l'éducation Nanocomposites Réalisation d'une hydrolienne oscillante Molécules organiques chimie; Didactiques des mathématiques; Synthèse intégrale (mathématiques); Pollution lumineuse; Français (lecture et écriture); Robotique; Électromécanique Dynamique interstellaire Intégration des TIC dans l'enseignement; apprentissage actif Pédagogie de l'enseignmenet supérieur; intégration des étudians ayant des besoins particuliers Communications |
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| Cégep Saint-Jean-sur-Richelieu Cégep de Saint-Jérôme Cégep de Sherbrooke Cégep de Trois-Rivières Vanier College Cégep de Victoriaville | Université du Québec à Rimouski Univertisé du Québec à Montréal École Polytechnique de Montréal Université Laval Université Laval Université de Sherbrooke Université de Montréal Université du Québec à Trois-Rivières McGill University Concordia University Université de Sherbrooke Université de Sherbrooke | Programme de Technologie de l'électronique industrielle dans le domaine de l'automatisation et de la robotique. Sciences de l'éducation Nanocomposites Réalisation d'une hydrolienne oscillante Molécules organiques chimie; Didactiques des mathématiques; Synthèse intégrale (mathématiques); Pollution lumineuse; Français (lecture et écriture); Robotique; Électromécanique Dynamique interstellaire Intégration des TIC dans l'enseignement; apprentissage actif Pédagogie de l'enseignmenet supérieur; intégration des étudians ayant des besoins particuliers Communications |
| Cégep Saint-Jean-sur-Richelieu Cégep de Saint-Jérôme Cégep de Sherbrooke Cégep de Trois-Rivières Vanier College Cégep de Victoriaville Institut de tourisme et d'hôtellerie du Québec Ontario | Université du Québec à Rimouski Univertisé du Québec à Montréal École Polytechnique de Montréal Université Laval Université de Sherbrooke Université de Montréal Université de Montréal Université du Québec à Trois-Rivières McGill University Concordia University Université de Sherbrooke Université de Sherbrooke Université de Sherbrooke Université du Québec à Trois-Rivières Université Laval Université Laval | Programme de Technologie de l'électronique industrielle dans le domaine de l'automatisation et de la robotique. Sciences de l'éducation Nanocomposites Réalisation d'une hydrolienne oscillante Molécules organiques chimie; Didactiques des mathématiques; Synthèse intégrale (mathématiques); Pollution lumineuse; Français (lecture et écriture); Robotique; Électromécanique Dynamique interstellaire Intégration des TIC dans l'enseignement; apprentissage actif Pédagogie de l'enseignmenet supérieur; intégration des étudians ayant des besoins particuliers Communications Pedagogy Sciences et gastronomie |
| Cégep Saint-Jean-sur-Richelieu Cégep de Saint-Jérôme Cégep de Sherbrooke Cégep de Trois-Rivières Vanier College Cégep de Victoriaville Institut de tourisme et d'hôtellerie du Québec | Université du Québec à Rimouski Univertisé du Québec à Montréal École Polytechnique de Montréal Université Laval Université de Sherbrooke Université de Montréal Université de Montréal Université du Québec à Trois-Rivières McGill University Concordia University Université de Sherbrooke Université de Sherbrooke Université de Sherbrooke Université de Sherbrooke Université du Québec à Trois-Rivières Université Laval Carleton University | Programme de Technologie de l'électronique industrielle dans le domaine de l'automatisation et de la robotique. Sciences de l'éducation Nanocomposites Réalisation d'une hydrolienne oscillante Molécules organiques chimie; Didactiques des mathématiques; Synthèse intégrale (mathématiques); Pollution lumineuse; Français (lecture et écriture); Robotique; Électromécanique Dynamique interstellaire Intégration des TIC dans l'enseignement; apprentissage actif Pédagogie de l'enseignmenet supérieur; intégration des étudians ayant des besoins particuliers Communications Pedagogy |
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| Cégep Saint-Jean-sur-Richelieu Cégep de Saint-Jérôme Cégep de Sherbrooke Cégep de Trois-Rivières Vanier College Cégep de Victoriaville Institut de tourisme et d'hôtellerie du Québec Ontario Algonquin College Collège Boréal | Université du Québec à Rimouski Univertisé du Québec à Montréal École Polytechnique de Montréal Université Laval Université de Sherbrooke Université de Montréal Université de Montréal Université du Québec à Trois-Rivières McGill University Concordia University Université de Sherbrooke Université de Sherbrooke Université de Sherbrooke Université de Sherbrooke Université Laval Université Laval Carleton University Université Laval Carleton University University University University Université Laval Université Laval Brock University | Programme de Technologie de l'électronique industrielle dans le domaine de l'automatisation et de la robotique. Sciences de l'éducation Nanocomposites Réalisation d'une hydrolienne oscillante Molécules organiques chimie; Didactiques des mathématiques; Synthèse intégrale (mathématiques); Pollution lumineuse; Français (lecture et écriture); Robotique; Electromécanique Dynamique interstellaire Intégration des TiC dans l'enseignement; apprentissage actif Pédagogie de l'enseignmenet supérieur; intégration des étudians ayant des besoins particuliers Communications Pedagogy Sciences et gastronomie Entrepreneurship; Crash test dummy 3; Aviation Entrepreneurship Health Sciences |
| Cégep Saint-Jean-sur-Richelieu Cégep de Saint-Jérôme Cégep de Sherbrooke Cégep de Trois-Rivières Vanier College Cégep de Victoriaville Institut de tourisme et d'hôtellerie du Québec Ontario Algonquin College | Université du Québec à Rimouski Univertisé du Québec à Montréal École Polytechnique de Montréal Université Laval Université Laval Université de Sherbrooke Université de Montréal Université de Montréal Université du Québec à Trois-Rivières McGill University Concordia University Université de Sherbrooke Université de Sherbrooke Université de Sherbrooke Université du Québec à Trois-Rivières Université Laval Carleton University Université Laval Carleton University University University University University of Ottawa Université Laurentienne | Programme de Technologie de l'électronique industrielle dans le domaine de l'automatisation et de la robotique. Sciences de l'éducation Nanocomposites Réalisation d'une hydrolienne oscillante Molécules organiques chimie; Didactiques des mathématiques; Synthèse intégrale (mathématiques); Pollution lumineuse; Français (lecture et écriture); Robotique; Electromécanique Dynamique interstellaire Intégration des TIC dans l'enseignement; apprentissage actif Pédagogie de l'enseignmenet supérieur; intégration des étudians ayant des besoins particuliers Communications Pedagogy Sciences et gastronomie Entrepreneurship; Crash test dummy 3; Aviation Entrepreneurship |

| | Nippissing University | Health Sciences |
|-----------------------|---|--|
| | Ottawa University | Health Sciences |
| | Queens University | Mental Health |
| | | |
| | Trent University | Health Sciences |
| | University of Western Ontario | Health Sciences |
| | University of Windsor | Health Sciences |
| | University of Ontario Institute of Technology | Health Sciences |
| | York University | Health Sciences |
| Centennial College | York University | Connected Wellness project |
| Conestoga College | Laurentian University | Electronic Systems Engineering |
| | University of Toronto | Seniors' care |
| | University of Waterloo | Seniors' care |
| Confederation College | Lakehead University | Biomass Energy |
| Durham College | Ryerson University | Cognitive Science |
| | University of Ontario Institute of Technology | Outcomes based measurement, Cognitive Science |
| Fanshawe College | Western University | Information & Communication Technologies |
| George Brown College | University of Toronto | Mechanical & Engineering Department |
| | | Environmental Science & Technologies |
| | Rverson University | Aeronautics Team - aerospace technologies Building Technology |
| | York University | Medical and Life Sciences |
| Humber College | Brock University | Creative & Performing Arts |
| number College | Carleton University | Drinking water filtration technology |
| | | 5 5 |
| | University of Toronto | Clininical Anatomy |
| La Cité collégiale | Carleton University | Nutrition and food science |
| Lambton College | University of Calgary | Materials, Enegy systems optimization, Control |
| | University of Waterloo | Hydrogen and Fuel Cells |
| | University of Toronto | Hydrogen and Fuel Cells |
| | Western University | Water & waste water, bio-chemicals, optimization, CFF |
| Mohawk College | University of Hawaii | Computer Science |
| | University of Ontario Institute of Technology | Computer Science |
| | McMaster University | Nursing, Department of Family Medicine: BTech: School of Engineering: Auto Resource Centre; OSCAR; Miircam: MOHLTC HSRF |
| Niagara College | Brock University | Ontario Grage & Wine Industry Cliate Change |
| | University of Waterloo | Food & Beverage Technology Validation |
| Northern College | Laurentian University | Nursing Research |

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| St. Clair College Seneca College | University of Windsor York University | Diesel engine efficiency & refrigeration unit research Digital Media |
| Serieca College | McMaster University | Digital Media |
| | Western University | Aviation |
| Sheridan College Institute of Technology | University of Waterloo | Digital Media |
| onendan conege manate or recomblegy | York University | 3D FLIC initiative |
| | McMaster University | Additive manufacturing |
| | University of Toronto | Additive manufacturing |
| | Ryerson University | Additive manufacturing |
| Manitoba | | ···· |
| Red River College | University of Winnipeg | Project specific |
| | University of Manitoba | Project specific |
| | British Columbia Institute of Technology | Green Buildings & Construction: Smart Grid & Electric Vehicles: Information & |
| | | Communications Technology; Aerospace & Manufacturing. |
| | Catholic University of Uruguay | Electric Vehicle Technology: Information and Communications Technology: and Aerospace |
| | Sao Paulo Federal Institute of Education Science & | Civil Engineering Technology; Renewable Fuels: Aerospace; Manufacturing; and |
| | Technology | Information & Communications Technology |
| | University ORT Uruguay | Green Buildings & Consruction; Wood Construction; Information & Communications Technology; and Simulatior |
| | | Green Buildings; Digital Technology; and Advanced Manufacturing |
| | (PUCRS) | Sustainable Building Materials; Reuse & Recycling of Natural Fibers; Shellfish |
| | L'École d'ingénierie et Travaux de la Construction (ESITC Caen) | Aggregates in Building Materials; Reuse & Recycling of Natural Fibers, Sheilish Aggregates in Building Materials; and Environmental Impact of Building Materials. |
| University College of the North | Brandon University | Social innovation research in education; Aboriginal storytelling |
| | University of Manitoba | Water management & water security on First Nations; Aboriginal storytelling; |
| | | Social innovation - success factors for female postsecondry students: Social innovation - homelessness in northern Manitoba; Environmental sciences - teaching and learning; Social sciences - marginalized populations; Social innovation - natural resource management |
| | Trent University | Water management & water security on First Nations |
| | University of Winnipeg | Purchasing experience of cross-cultural consumers in northern Manitoba; |
| | 11.1 | Northern Horizons: contact, culture and education in Canada |
| | University of Saskatoon | Aboriginal storytelling; Northern Horizons: contact, culture and education in Canada; Humanities researche - Aboriginal focus |
| | University of Toronto | Social sciences - marginalized populations |
| | Algoma University | Northern Horizons: contact, culture and education in Canada |
| | Royal Roads University | Social innovation - use of photo voice in natural resource management |
| | University of British Columbia | Humanities researche - ecocriticism |
| | University of Arizona | Social sciences - marginalized populations |
| | Univesity of Utah | Social sciences - marginalized populations |
| | University of Amsterdam | Social sciences - marginalized populations |
| | Federal University of Pará (Brazil) | Reseach & development for the establishment of a PhD program in Anthropolog |
| | University of Ireland | Humanities research - popular culture |
| | Washburn University | Humanities research - popular culture |
| Saskatchewan | <u> </u> | |
| Saskatchewan Polytechnic | University of Saskatchewan | IMII Project, Occupational Health & Safety |
| Alberta | | |
| David Vallage Callage | | [50] - 0 - 1 - |
| Bow Valley College | Mount Royal University | Effects & Implications of Environmental Disasters on the Familty (Social |
| | · | Sciences & Humanities) |
| Lakeland College | University of Alberta | Sciences & Humanities) Commercial deployment of biochar production technologies |
| Lakeland College Medicine Hat College | University of Alberta University of Alberta | Sciences & Humanities) Commercial deployment of biochar production technologies Biotechnology research |
| Lakeland College Medicine Hat College | University of Alberta | Sciences & Humanities) Commercial deployment of biochar production technologies Biotechnology research Green Chemistry Boreal Research |
| Lakeland College Medicine Hat College | University of Alberta University of Alberta | Sciences & Humanities) Commercial deployment of biochar production technologies Biotechnology research Green Chemistry |
| Lakeland College Medicine Hat College | University of Alberta University of Alberta University of Alberta | Sciences & Humanities) Commercial deployment of biochar production technologies Biotechnology research Green Chemistry Boreal Research SSHRC Professional Learning of Teachers |
| Lakeland College Medicine Hat College | University of Alberta University of Alberta University of Alberta University of Manitoba | Sciences & Humanities) Commercial deployment of biochar production technologies Biotechnology research Green Chemistry Boreal Research SSHRC Professional Learning of Teachers Talent & Leladership |
| Lakeland College Medicine Hat College | University of Alberta University of Alberta University of Alberta University of Manitoba University of Calgary | Sciences & Humanities) Commercial deployment of biochar production technologies Biotechnology research Green Chemistry Boreal Research SSHRC Professional Learning of Teachers Talent & Leladership SSHRC Social Exchange Relationships |
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| | Umea University (Sweden) | Interprofessional simulations |
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| | Flinders University (Australia) | • |
| | , | Technology-based police simulations |
| Kwantlen Polytechnic University | University of British Columbia | Design & plan of bio-regional food systems & Bio-control research for sustainable horticulture |
| | Fraser Valley University | Design & plan of bio-regional food systems & |
| | Trader valley enversity | Bio-control research for sustainable horticulture |
| | Vancouver Island University | Bio-control research for sustainable horticulture |
| | University of Northern British Columbia | Design & plan of bio-regional food systems |
| | Ben Gurien University of the Negev (Israel) | Design & plan of bio-regional food systems |
| | Wilfrid Laurier University | KPU - Food: Locally Embedded, Globally Engaged |
| | McGill University | KPU - Food: Locally Embedded, Globally Engaged |
| | Laval University | KPU - Food: Locally Embedded, Globally Engaged |
| | Lakehead University | KPU - Food: Locally Embedded, Globally Engaged |
| | Memorial University | KPU - Food: Locally Embedded, Globally Engaged |
| | University of Alberta | KPU - Food: Locally Embedded, Globally Engaged |
| orth Island University | University of Victoria | Sustainable aquaculture |
| | Dalhousie University | Sustainable aquaculture |
| Okanagan College | University of British Columbia | Various including Education and Political Science |
| Selkirk College | University of Victoria | BCNRI Enhancing Education Capacity Palliative Approach & Rural Nursing |
| | University of British Columbia | BCNRI Enhancing Education Capacity Palliative Approach & Rural Nursing |
| | Trinity Western University | BCNRI Enhancing Education Capacity Palliative Approach & Rural Nursing |
| | Memorial University | Canadian Regional Development |
| | Simon Fraser University | Canadian Regional Development |
| | University of Guelph | Canadian Regional Development |
| | Concordia University | Canadian Regional Development |
| | Mount Royal University | Banff & Mount Royal Institute for Scholarship of Teaching - Teaching and Learning |
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| /ukon College | University of Saskatchewan | Soil bio-remediation |
| | University of Alberta | Glacier project |
| | Laval University | Permafrost research |
| | Carleton University | Permafrost research |
| | Ottawa University | Permafrost research |



Member Colleges & Institutes

British Columbia

- British Columbia Institute of Technology (BCIT)
- · Camosun College
- · Capilano University
- · Collège Éducacentre
- · College of New Caledonia
- · College of the Rockies
- Douglas College
- Justice Institute of British Columbia
- Kwantlen Polytechnic University
- · Langara College
- Native Education College
- Nicola Valley Institute of Technology
- · North Island College
- · Northern Lights College
- Northwest Community College
- · Okanagan College
- · Selkirk College
- University of the Fraser Valley
- · Vancouver Community College
- Vancouver Island University

Alberta

- · Bow Valley College
- Grande Prairie Regional College
- Keyano College
- · Lakeland College
- · Lethbridge College
- Medicine Hat College
- · NorQuest College
- Northern Alberta Institute of Technology (NAIT)
- Northern Lakes College
- Olds College
- · Portage College
- Red Deer College
- SAIT Polytechnic

Manitoba

- Assiniboine Community College
- École technique et professionnelle, Université de Saint-Boniface
- Red River College of Applied Arts, Science and Technology
- University College of the North
- Manitoba Institute of Trades and Technology

Saskatchewan

- · Carlton Trail Regional College
- · Cumberland College
- Gabriel Dumont Institute of Native Studies and Applied Research
- · Great Plains College
- North West Regional College
- · Northlands College
- Parkland College
- Saskatchewan Indian Institute of Technologies
- · Saskatchewan Polytechnic
- Southeast Regional College

Ontario

- · Algonquin College
- · Cambrian College
- · Canadore College
- Centennial College
- · Collège Boréal
- Conestoga College Institute of Technology and Advanced Learning
- · Confederation College
- · Durham College
- Fanshawe College
- Fleming College
- George Brown College
- Georgian College
- Humber College Institute of Technology & Advanced Learning
- La Cité
- · Lambton College
- Loyalist College
- The Michener Institute for Applied Health Sciences
- Mohawk College
- Niagara College
- Northern College
- Sault College
- · Seneca College
- Sheridan College Institute of Technology and Advanced Learning
- St. Clair College
- · St. Lawrence College
- Université de Guelph, Campus d'Alfred
- University of Guelph, Kemptville Campus

Quebec

- · Cégep André-Laurendeau
- Cégep de Baie-Comeau
- · Cégep Beauce-Appalaches
- · Cégep de Chicoutimi
- · Cégep de Drummondville
- Cégep de Jonquière
- Cégep de l'Abitibi-Témiscamingue
- · Cégep de l'Outaouais
- Cégep de la Gaspésie et des Îles
- Cégep de La Pocatière
- · Cégep de Matane
- Cégep de Rivière-du-Loup
- · Cégep de Sainte-Foy
- · Cégep de Saint-Félicien
- · Cégep de Saint-Hyacinthe
- · Cégep de Saint-Jérôme
- · Cégep de Saint-Laurent
- Cégep de Sept-Îles
- · Cégep de Sherbrooke
- · Cégep de Thetford
- Cégep de Trois-RivièresCégep de Victoriaville
- Cégep du Vieux Montréal
- · Cégep Édouard-Montpetit
- · Cégep Garneau
- · Cégep John Abbott College
- Cégep Limoilou
- Cégep Marie-Victorin
- Cégep régional de Lanaudière
- Cégep Saint-Jean-sur-Richelieu
- Champlain Regional College
- · Collège Ahuntsic
- Collège André Grasset
- · Collège d'Alma
- Collège de Maisonneuve
- · Collège de Rosemont
- Collège Gérald-Godin
- Collège LaSalle
- · Collège Lionel-Groulx
- · Collège Mérici
- · Collège Montmorency
- Collège Shawinigan
- Dawson CollegeHeritage College
- Institut de technologie agroalimentaire - Québec
- Institut de tourisme et d'hôtellerie du Québec
- · Vanier College

New Brunswick

- Collège communautaire du Nouveau-Brunswick (CCNB)
- New Brunswick College of Craft and Design
- New Brunswick Community College (NBCC)

Nova Scotia

- Université Sainte-Anne -Collège de l'Acadie
- Dalhousie Agricultural Campus of Dalhousie University
- Nova Scotia Community College

Prince Edward Island

- Collège Acadie Î.-P.-É.
- Holland College

Newfoundland and Labrador

- Centre for Nursing Studies
- College of the North Atlantic
- Marine Institute

Nunavut

Nunavut Arctic College

Northwest Territories

· Aurora College

Yukon

Yukon College