

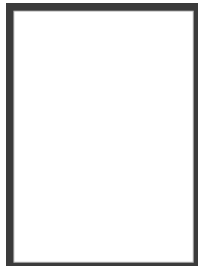


# 2017 Canadian Engineers for Tomorrow

Trends in Engineering Enrolment and Degrees Awarded 2017

# Trends in Engineering Enrolment and Degrees Awarded 2013-2017

## Message from the Chief Executive Officer



Engineers Canada is pleased to publish this year's enrolment and degrees awarded report highlighting trends in post-secondary engineering education in Canada. This document comprises information on all academic terms from the calendar years 2013 through 2017.

Canadian post-secondary institutions continue to report a strong growth in undergraduate degrees awarded, presenting 23.3 per cent more engineering degrees in 2017 than in 2013. It is reassuring to see that every engineering discipline awarded more degrees in 2017 than in 2013, and that most engineering disciplines have experienced a growth in undergraduate enrolment numbers in the same period.

We are excited to report that the proportion of female students established new records in the categories of undergraduate and post-graduate enrolment, as well as undergraduate degrees awarded. As of 2017, women accounted for 21.8 per cent of undergraduate students and 25.7 per cent of post-graduate students, as well as 20.6 per cent of undergraduate engineering degrees awarded. We hope that these achievements will inspire engineering education and the engineering profession to break new records in the years to come.

Canadian engineering programs remain a popular choice for international students. In 2017, the number of undergraduate students reached 13,474 or 16.3 per cent of the total.

For the third consecutive year, Engineers Canada collected data regarding Indigenous students' enrolment and degrees awarded. Similar to the female population in engineering programs, Indigenous peoples are still greatly underrepresented, accounting for just over 1.2 per cent of reported undergraduate students. This is around four times lower than the 4.9 per cent of Canadians who identify as Indigenous peoples (Statistics Canada, 2017).

Engineers Canada will continue to track this information in the coming years to identify trends and to further encourage enrolment and achievement by post-secondary engineering programs that reflect Canada's diversity.

Gerard McDonald, MBA, P.Eng.  
Chief Executive Officer

## Acknowledgements

Engineers Canada gratefully acknowledges the contribution of data and information from the deans and associate deans of the engineering and applied science faculties at Canadian higher education institutions.

Cover Image Credit: Mikael Kristenson  
Report By: Vinicius Rossi

## Introduction

The Engineering Enrolment and Degrees Awarded Report is an annual examination of Canada's undergraduate and post-graduate engineering programs that evaluates trends in part- and full-time student enrolment and degrees awarded over a five-year period. In 2017, 51 universities provided information on their enrolment, programs, and degrees awarded.

The results highlight enrolment trends by discipline and institution, as well as the number of undergraduate and post-graduate degrees awarded each year. These results reveal trends specific to discipline, education, and gender, as well as the number of engineering graduates available to enter the labour market, international students' participation in Canadian engineering education, and students studying in co-op programs. Enrolment trends in undergraduate, master's, and doctorate levels are compared, along with men and women studying and graduating from engineering programs. For the third consecutive year, data regarding Indigenous peoples' enrolment and graduation from engineering programs is presented in this report. Engineers Canada plans to continue this data collection in coming years to be able to identify emerging trends.

Data is provided by higher education institutions to Engineers Canada. Engineers Canada compiles the information in this report. Findings are then shared with Engineers Canada's stakeholders and with the public. Engineers Canada greatly appreciates the contribution of these higher education institutions.

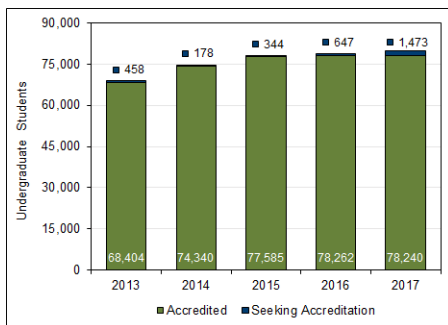
NOTE: When comparing data between years, only those higher education institutions who consistently responded to the survey year after year are included in the comparison. If an institution did not provide data in one or more of those years, they were not included in the comparison. This was done to ensure that the comparisons are fair and are as accurate as possible.

## Undergraduate students

## Total undergraduate student enrolment

Undergraduate student enrolment in accredited engineering programs totalled 82,480 in 2017. This is an increase of 14.4 per cent from 2013 and no significant change from 2016 was observed.

If engineering programs seeking accreditation—but not yet accredited—are included in the sum, total undergraduate enrolment rises to 83,953 students. Chart 1.1 illustrates undergraduate enrolment numbers for engineering institutions that consecutively replied to this survey since 2013.

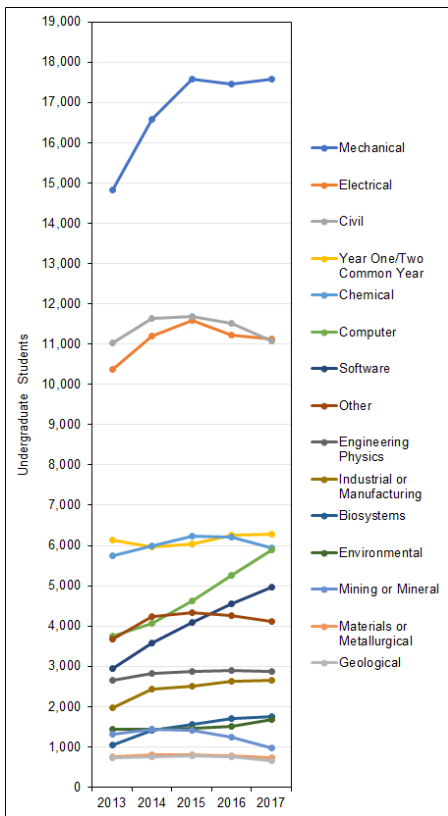


**Chart 1.1 - Undergraduate enrolment (2013-2017, full-time equivalent)**

## Total undergraduate student enrolment by discipline

The most popular undergraduate engineering disciplines in 2017 were mechanical engineering, civil engineering, and electrical engineering, representing 22.1 per cent, 14.1 per cent, and 13.6 per cent of total undergraduate enrolment, respectively. On the other hand, the fields that accounted for the smallest proportion of undergraduate enrolment were geological engineering (0.8 per cent), materials or metallurgical engineering (1.1 per cent), and mining or mineral engineering (1.2 per cent).

Computer engineering (12.1 per cent), environmental engineering (11.2 per cent), and software engineering (8.9 per cent), presented the highest growth rate over the previous year. Likewise, the disciplines that experienced the largest cumulative growth from 2013 were software engineering (67.8 per cent), biosystems engineering (67.1 per cent), and computer engineering (56.7 per cent). Conversely, mining or mineral engineering (-22.5 per cent), geological engineering (-12.4 per cent), and materials or metallurgical engineering (-7.3 per cent) had the greatest rate of decline from the previous year. Additionally, only three disciplines presented a decline in enrolment since 2013: mining or mineral engineering (-25.8 per cent), geological engineering (-10.5 per cent), and materials or metallurgical engineering (-3.6 per cent). Once again, these comparisons were made between institutions that consecutively replied to the enrolment and degrees awarded survey since 2013.

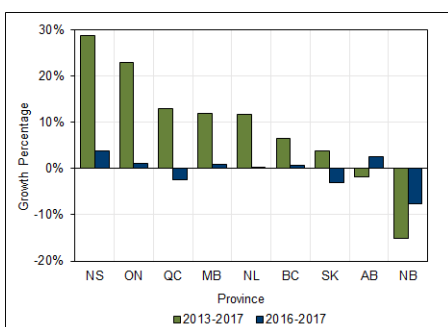


**Chart 1.2 - Undergraduate enrolment by program (2013-2017, full-time equivalent)**

## Total undergraduate student enrolment by province

The highest proportion of undergraduate enrolment continues to belong to the provinces of Ontario and Quebec. In 2017, they accounted for 44.2 per cent and 25.6 per cent of total enrolment, respectively. Furthermore, Nova Scotia and Alberta underwent the largest percentage increase in enrolment from the previous year, with growths of 3.9 per cent and 2.6 per cent, respectively, over 2016.

The highest cumulative enrolment growths from 2013 were seen in Nova Scotia (28.7 per cent) and Ontario (22.9 per cent). On the other hand, New Brunswick (-15.0 per cent) and Alberta (-1.8 per cent) were the only provinces to experience a decrease in enrolment since 2013, while New Brunswick (-7.6 per cent), Saskatchewan (-3.0 per cent), and Quebec (-2.4 per cent) were the only ones to experience a decrease from the previous year.

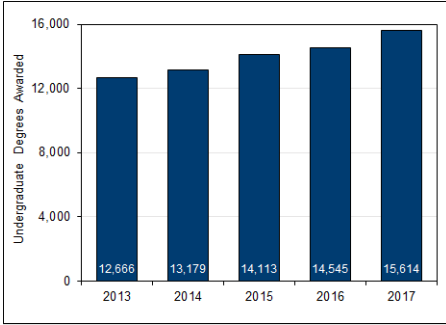


**Chart 1.3 - Average rate of change in undergraduate enrolment by province (2013-2017, 2016-2017, full-time equivalent)**

## Total undergraduate degrees awarded

The number of undergraduate degrees awarded totalled 15,782 in 2017. The number of undergraduate degrees awarded increased by 7.3 per cent from the previous year, characterizing a faster growth when compared to the average annual increase of 5.4 per cent for the period of 2013 to 2017. Cumulatively, the number of degrees awarded has increased 23.3 per cent from 2013. Once again, these comparisons were made between institutions

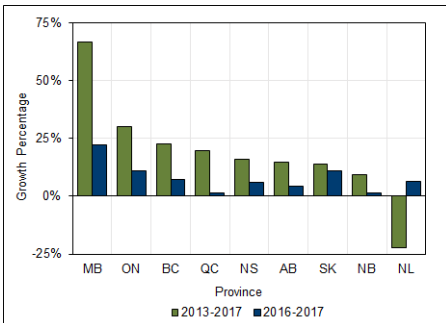
that consecutively replied to the enrolment and degrees awarded survey since 2013.



**Chart 1.4 - Undergraduate degrees awarded (2013-2017)**

Chart 1.5 shows that Manitoba, Ontario, and Saskatchewan witnessed the highest increases in undergraduate degrees awarded from 2016, with growths of 22.4 per cent, 11.2 per cent, and 10.8 per cent, respectively. Similarly, Manitoba, Ontario, and British Columbia experienced the highest increases in undergraduate degrees awarded from 2013, with growths of 66.8 per cent, 30.3 per cent, and 22.5 per cent, respectively.

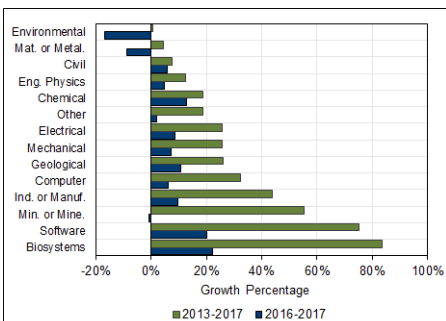
No provinces experienced decreases in undergraduate degrees awarded from the previous year, while Newfoundland and Labrador was the only province to experience a cumulative decrease in undergraduate degrees awarded from 2013 (-22.2 per cent).



**Chart 1.5 - Average rate of change in undergraduate degrees awarded by province (2013-2017, 2016-2017)**

Mechanical engineering, civil engineering, and electrical engineering were awarded the greatest number of degrees in 2017, representing 25.3 per cent, 18.0 per cent, and 16.3 per cent of the total, respectively. Furthermore, biosystems engineering exhibited the largest growth in degrees awarded from both 2016 (22.4 per cent) and 2013 (83.6 per cent).

Even though environmental engineering (-16.8 per cent), materials or metallurgical engineering (-8.9 per cent), and mining or mineral engineering (-0.9 per cent) were the only disciplines to display decreases since 2016 in the number of undergraduate degrees awarded, every discipline saw an increase from 2013.



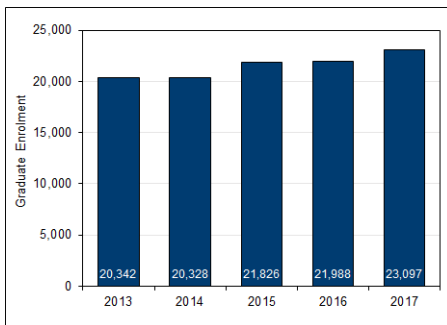
**Chart 1.6 - Average rate of change in undergraduate degrees awarded by discipline (2013-2017, 2016-2017)**



# Graduate students

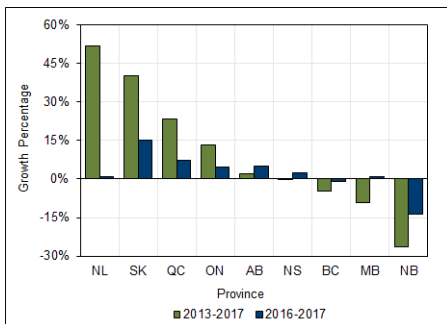
## Total graduate student enrolment

Graduate student enrolment totalled 23,992 in 2017. When comparing institutions that consecutively replied to this survey since 2013, graduate student enrolment increased by 5.0 per cent from 2016 and 13.5 per cent from 2013, averaging a 3.3 per cent annual growth rate.



**Chart 1.7 - Graduate Student Enrolment (2013-2017, full-time equivalent)**

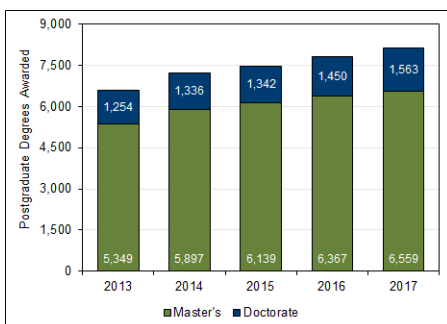
The province that displayed the highest growth in graduate enrolment over the previous year was Saskatchewan (15.2 per cent), while the one that displayed the highest cumulative growth since 2013 was Newfoundland and Labrador (51.8 per cent). The greatest decrease from both 2016 and 2013 was observed in New Brunswick at -13.6 per cent and -26.5 per cent, respectively.



**Chart 1.8 - Average rate of change in graduate student enrolment by province (2013-2017, 2016-2017, full-time equivalent)**

## Total post-graduate degrees awarded

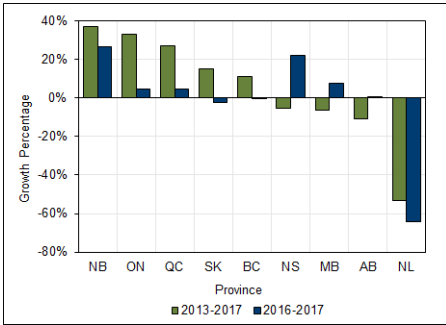
A total of 6,844 master's and 1,713 doctorate of engineering degrees were awarded in 2017, for a combined sum of 8,557 post-graduate degrees awarded. This corresponds to a growth of 3.0 per cent in master's degrees awarded and 7.8 per cent in doctoral degrees awarded from 2016. Similarly, a cumulative growth of 22.6 per cent in master's degrees awarded and 24.6 per cent in doctoral degrees awarded was seen from 2013.



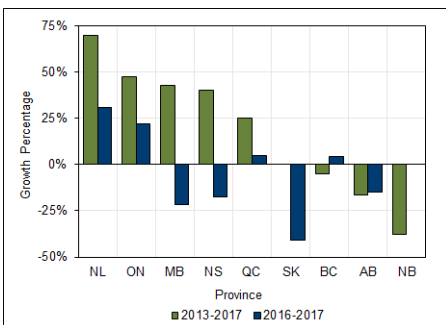
**Chart 1.9 - Postgraduate degrees awarded (2013-2017)**

New Brunswick displayed the fastest growth in the number of post-graduate degrees awarded from both 2016 (21.6 per cent) and 2013 (36.8 per cent).

Chart 1.10 indicates the average growth in master's degrees awarded by province for the periods of 2013 to 2017 and 2016 to 2017, while chart 1.11 indicates the same trends for doctoral degrees.



**Chart 1.10 - Average rate of change in master's degrees awarded by province (2013-2017, 2016-2017)**

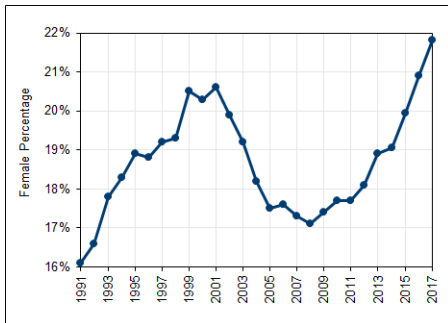


**Chart 1.11 - Average rate of change in doctoral degrees awarded by province (2013-2017, 2016-2017)**

# Female students

## Female undergraduate enrolment

Female enrolment remained above 20 per cent in 2017, with a 0.9 percentage point increase from 20.9 per cent in 2016 to 21.8 per cent in 2017. This is the highest proportion of females enrolled in undergraduate engineering programs ever recorded by this report. The total number of females enrolled in undergraduate-level engineering programs has increased by 3.7 per cent since 2016 and 32.2 per cent since 2013.



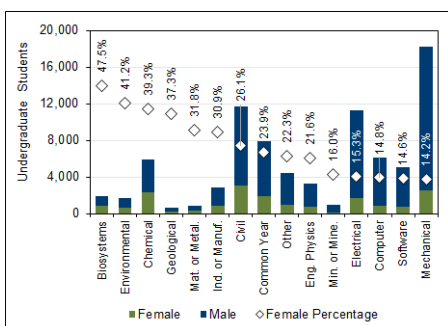
**Chart 2.1 - Female undergraduate enrolment (1991-2017, full-time equivalent)**

## Female undergraduate enrolment by discipline

The disciplines that presented the highest percentages of female undergraduate enrolment in 2017 were biosystems engineering, environmental engineering, and chemical engineering, with 47.5 per cent, 41.2 per cent, and 39.3 per cent of total enrolment, respectively. Four out of the five disciplines with the highest percentage of females enrolled were also four out of the five disciplines with the least number of undergraduate students enrolled (see Chart 2.2).

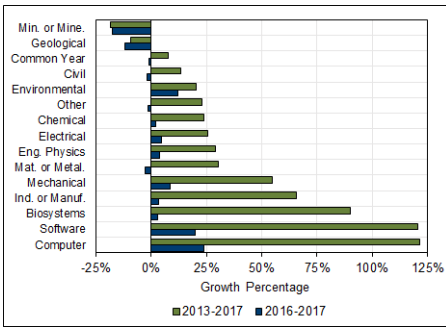
The disciplines with the lowest percentages of female undergraduate enrolment were mechanical engineering (14.2 per cent), software engineering (14.6 per cent), and computer engineering (14.8 per cent). While these three disciplines account for 55.1 per cent of the total number of undergraduate students, they only account for 23.5 per cent of the total number of female undergraduate students.

Furthermore, the disciplines that presented the highest growth in the proportion of females from 2016 were chemical engineering and materials or metallurgical engineering, which rose from 36.8 per cent and 31.6 per cent in 2016, to 39.3 per cent and 33.1 per cent in 2017, respectively. Similarly, the disciplines that presented the highest growth in the proportion of females from 2013 were again materials and metallurgical engineering and chemical engineering, which went from 24.5 per cent and 32.8 per cent in 2013, to 33.1 per cent and 39.3 per cent in 2017, respectively.



**Chart 2.2 - Female undergraduate enrolment by discipline (2017, full-time equivalent)**

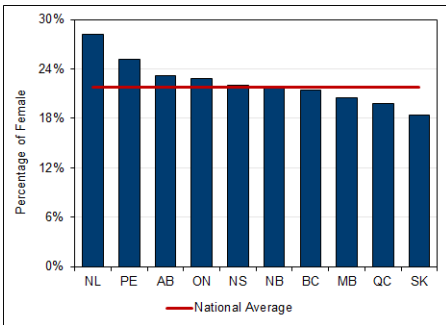




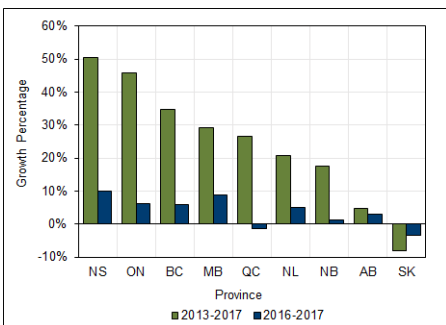
**Chart 2.3 - Average rate of change in female undergraduate enrolment by discipline (2013-2017, 2016-2017, full-time equivalent)**

## Female undergraduate enrolment by province

Newfoundland and Labrador had the highest percentage of female undergraduates (28.2 per cent), while Saskatchewan displayed the lowest percentage of female enrolment in 2017, with only 18.5 per cent in the undergraduate engineering student population. Seven out of the nine provinces considered experienced increases in female undergraduate enrolment from 2016, while eight out of these same nine provinces experienced increases from 2013.



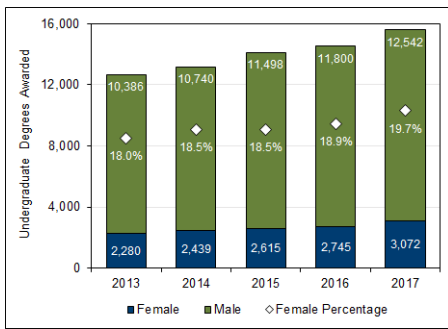
**Chart 2.4 - Female undergraduate enrolment by province (2017, full-time equivalent)**



**Chart 2.5 - Average rate of change in female undergraduate enrolment by province (2013-2017, 2016-2017, full-time equivalent)**

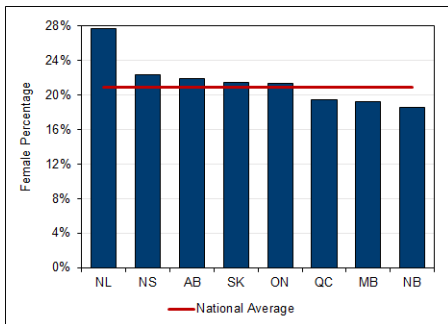
## Female undergraduate degrees awarded

Of the 15,782 engineering degrees awarded in 2017, 3,244 were awarded to women, accounting for 20.6 per cent of the sampled population. When comparing engineering programs that consecutively replied to this survey, increases of 11.9 per cent from 2016 and 34.7 per cent from 2013 were observed. Furthermore, this proportion is not suggestive of any significant gender differences in completion rates when compared to the 20.1 per cent average proportion of women in undergraduate enrolment over the past five years.



**Chart 2.6 - Undergraduate degrees awarded to female students (2013-2017)**

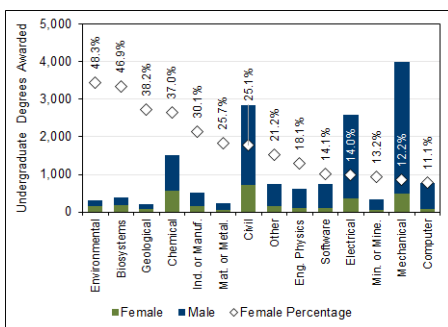
The province with the highest proportion of female undergraduate degrees awarded was Newfoundland and Labrador (27.6 per cent), followed by Nova Scotia (22.3 per cent), and Alberta (21.9 per cent). Moreover, Newfoundland and Labrador had the greatest increase in the proportion of female undergraduate degrees awarded when compared to 2016, with a growth of 10.4 percentage points overall.



**Chart 2.7 - Undergraduate degrees awarded to female students by province (2017)**

The disciplines that had the highest growth over the previous year in the proportion of female undergraduate degrees awarded were that of environmental engineering (8.7 percentage points, going from 39.7 per cent in 2016 to 48.3 per cent in 2017) and biosystems engineering (3.3 percentage points, going from 42.5 per cent in 2016 to 45.8 per cent in 2017). Likewise, the categories that presented the highest growth from 2013 were that of environmental engineering (8.0 percentage points, going from 40.3 per cent in 2013 to 48.3 per cent in 2017) and industrial or manufacturing engineering (7.5 percentage points, going from 20.3 per cent in 2013 to 27.8 per cent in 2017).

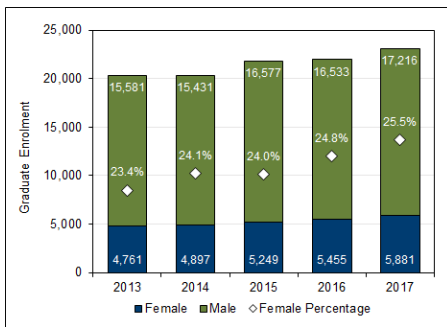
The proportion of female undergraduate degrees awarded should experience a consistent growth in the coming years to the cumulative increase in the proportion of female undergraduate enrolment in many disciplines, as illustrated in Chart 2.3. This should be especially reflected in the disciplines of environmental engineering, industrial or manufacturing engineering, and chemical engineering.



**Chart 2.8 - Undergraduate degrees awarded to female students by discipline (2017)**

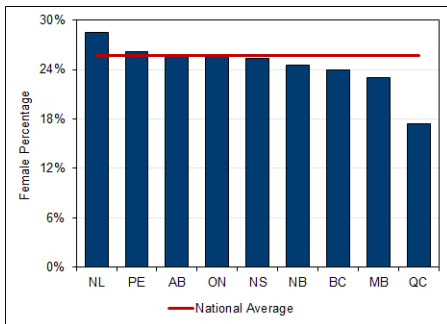
## Female graduate student enrolment

The proportion of females enrolled in post-graduate engineering programs continues to grow, reaching 25.7 per cent in 2017. When comparing institutions that consistently replied to this survey since 2013, an increase in proportion of 0.7 percentage points from 2016 and 2.1 percentage points from 2013 was observed.



**Chart 2.9 - Female graduate student enrolment (2013-2017, full-time equivalent)**

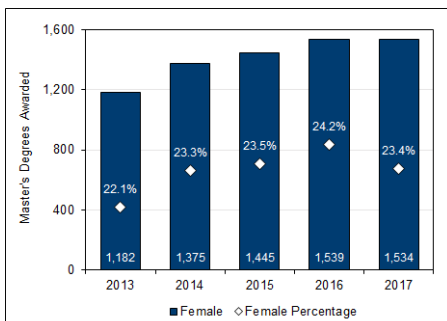
The highest proportions of female post-graduate enrolment in 2017 were seen in Alberta, British Columbia, and Quebec, with values of 28.5 per cent, 26.1 per cent, and 25.8 per cent, respectively.



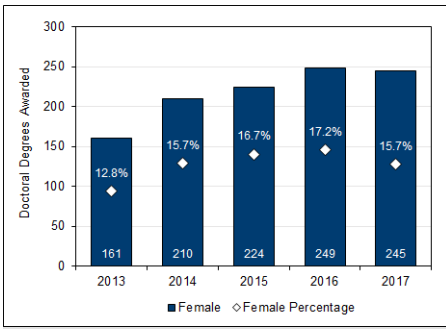
**Chart 2.10 - Female graduate student enrolment by province (2017, full-time equivalent)**

## Female post-graduate degrees awarded

The number of post-graduate degrees awarded to women in 2017 consisted of 1,740 master's degrees and 401 doctoral degrees. When compared to 2016, this represented no significant changes in the number of master's degrees awarded or doctoral degrees awarded. However, when comparing institutions that consistently replied to this survey since 2013, the proportion of master's degrees awarded to women has decreased from 24.2 per cent in 2016 to 23.4 per cent in 2017, while the proportion of doctoral degrees awarded to women went from 17.2 per cent in 2016 to 15.7 per cent in 2017.

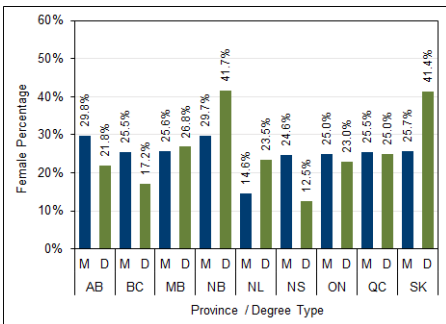


**Chart 2.11 - Proportion of master's degrees awarded to female students (2013-2017)**



**Chart 2.12 - Doctoral degrees awarded to female students (2013-2017)**

In 2017, the province with the largest percentage of master's degrees awarded to women was Alberta, at 29.8 per cent, while New Brunswick had the greatest percentage of women receiving doctoral degrees, at 41.7 per cent. Conversely, Manitoba had the smallest percentage of master's degrees awarded to women (14.6 per cent), while Nova Scotia displayed the smallest proportion of women who received doctoral degrees (12.5 per cent).

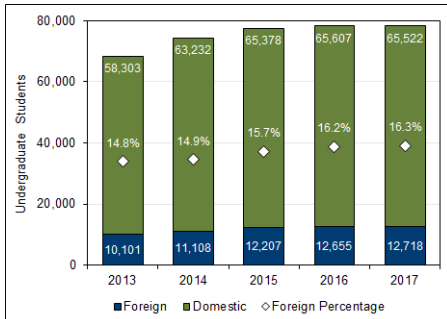


**Chart 2.13 - Postgraduate degrees awarded to female students by province (2017)**

# Foreign students

## Foreign undergraduate enrolment

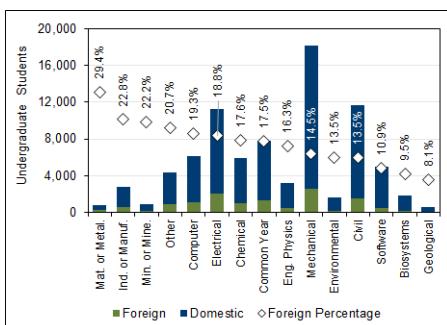
There were 13,474 international students enrolled in undergraduate engineering programs in 2017, accounting for 16.3 per cent of total enrolment. When comparing institutions that consecutively replied to this survey since 2013, foreign undergraduate enrolment increased by 0.5 per cent from the previous year, when international students corresponded to 16.2 per cent of total undergraduate enrolment, and 12.4 per cent from 2013, when international students corresponded to 14.8 per cent of total undergraduate enrolment.



**Chart 3.1 - Foreign undergraduate enrolment (2013-2017, full-time equivalent)**

## Foreign undergraduate enrolment by discipline

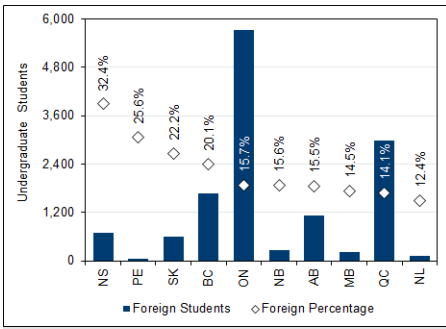
Materials or metallurgical engineering and industrial or manufacturing engineering had the highest proportion of foreign students enrolled, at 29.4 per cent and 22.8 per cent, respectively. Conversely, the programs that displayed the lowest proportion of international students were geological engineering (8.1 per cent) and biosystems engineering (9.5 per cent).



**Chart 3.2 - Foreign undergraduate enrolment by discipline (2017, full-time equivalent)**

## Foreign undergraduate enrolment by province

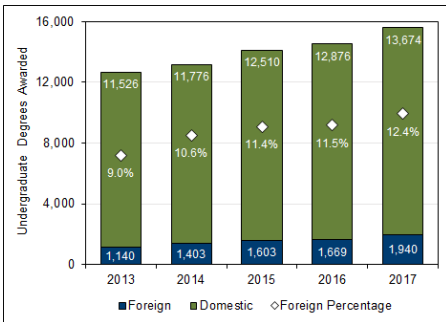
Out of the 13,474 international students enrolled in undergraduate engineering programs in Canada in 2017, 42.5 per cent (5,729) studied in Ontario and 22.1 per cent (2,973) studied in Quebec. Prince Edward Island and Nova Scotia displayed the highest proportion of international students enrolled at 10.0 per cent (61 students) and 6.5 per cent (692 students), respectively. The largest growth in international student enrolment over the previous year was found in Nova Scotia (13.2 per cent) and Newfoundland and Labrador (10.6 per cent).



**Chart 3.3 - Foreign undergraduate enrolment by province (2017, full-time equivalent)**

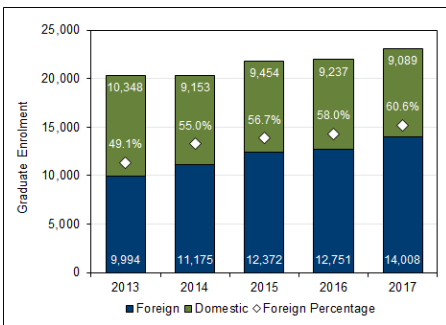
### Visa undergraduate degrees awarded

In 2017, 2,228 of the 15,774 undergraduate degrees were awarded to foreign students, representing 14.1 per cent overall. When comparing institutions that consecutively replied to this survey since 2013, the proportion of degrees awarded to international students experienced a growth of 0.9 percentage points from 2016 and 3.4 percentage points from 2013.

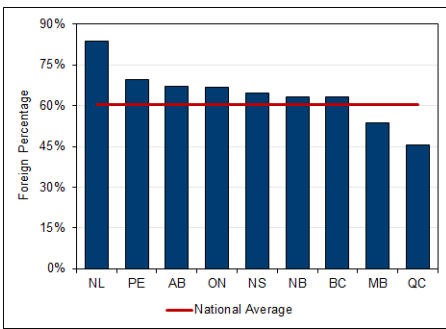


**Chart 3.4 - Undergraduate degrees awarded to foreign students (2013-2017)**

### Foreign graduate student enrolment



**Chart 3.5 - Foreign graduate student enrolment (2013-2017, full-time equivalent)**



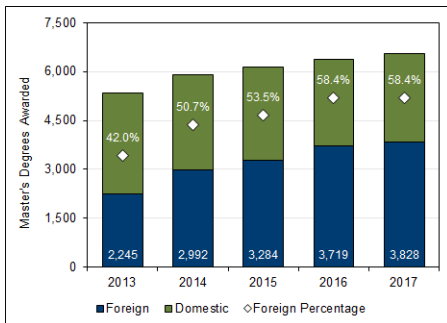


**Chart 3.6 - Foreign graduate student enrolment by province (2017, full-time equivalent)**

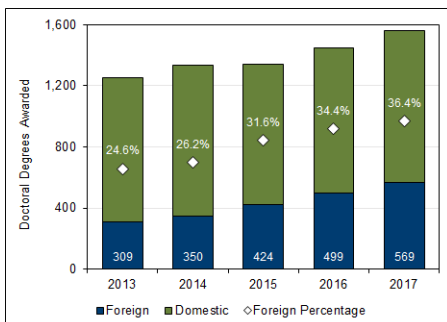
## Foreign post-graduate degrees awarded

In 2017, the number of master's degrees awarded to foreign students totalled 4,059 while the number of doctoral degrees awarded totalled 861. When comparing institutions that consecutively replied to this survey, visa master's degrees awarded to foreign students increased by 2.9 per cent over the previous year and 70.5 per cent from 2013, while doctoral degrees awarded increased by 14.0 per cent over the previous year and 84.1 per cent from 2013.

The proportion of post-graduate degrees awarded to foreign students reached 59.3 per cent of all master's degrees and 50.3 per cent of all doctoral degrees in 2017. This represents a large growth from 2013, when the proportion of master's was 43.1 per cent and that of doctoral degrees was 27.2 per cent.

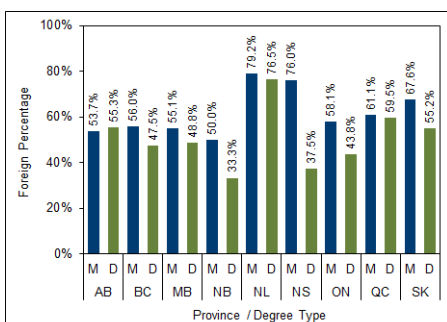


**Chart 3.7 - Master's degrees awarded to foreign students (2013-2017)**



**Chart 3.8 - Doctoral degrees awarded to foreign students (2013-2017)**

In 2017, Newfoundland and Labrador, Nova Scotia, and Saskatchewan had the greatest proportion of master's degrees awarded to visa students (79.2 per cent, 76.0 per cent, and 67.6 per cent, respectively). Similarly, Newfoundland and Labrador, Quebec, and Alberta awarded the greatest proportion of their doctoral degrees to visa students at 76.5 per cent, 59.5 per cent, and 55.3 per cent, respectively.

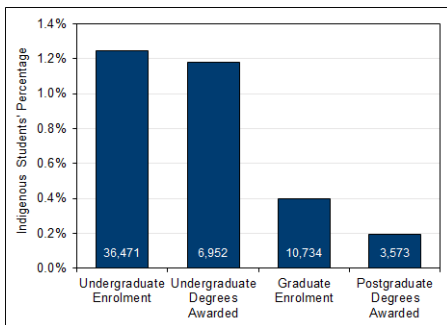


**Chart 3.9 - Postgraduate degrees awarded to foreign students by province (2017)**

# Indigenous peoples' enrolment and degrees awarded

Out of the 23 post-secondary institutions that responded to this survey about Indigenous peoples, 22 institutions were able to provide information on Indigenous peoples' undergraduate enrolment, while only 20 were able to provide information on undergraduate degrees awarded. The 22 institutions represent 44.2 per cent of undergraduate students enrolled in engineering programs across Canada, while the 20 post-secondary institutions represent 44.1 per cent of undergraduate degrees awarded. Furthermore, 20 institutions were able to present data on Indigenous enrolment in graduate programs, with only 18 of them presenting data on post-graduate degrees awarded. These 20 institutions represent 44.7 per cent of post-graduate students in Canada, whereas the 18 post-secondary institutions represent 41.8 per cent of post-graduate degrees awarded. As the reported numbers are of small magnitude, the data on Indigenous student enrolment is presented in a cumulative form to assure anonymity. While not all institutions are able to report the Indigenous identity of their students, Engineers Canada believes this data allows the engineering community to pursue conversations on increasing the representation of Indigenous peoples in engineering. Even if we cannot currently achieve a comprehensive and true representation of Indigenous peoples' enrolment and degrees awarded, this provides us with an important starting point.

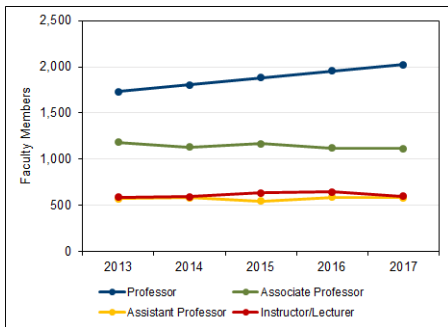
While Indigenous peoples make up 4.9 per cent of the Canadian population (Statistics Canada, 2017), they only account for 1.2 per cent of total undergraduate enrolment in engineering programs and 1.2 per cent of undergraduate degrees awarded. Graduate student enrolment demonstrated lower enrolment of Indigenous peoples, at 0.4 per cent of total enrolment, while graduate degrees awarded represented 0.2 per cent of surveyed students.



**Chart 4.1 - Indigenous Peoples' undergraduate enrolment and degrees awarded**

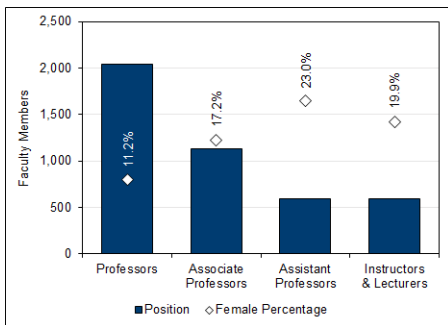
# Faculty members

There was a total of 3,990 full-time equivalent engineering faculty members in 2017. When comparing institutions that consecutively replied to this survey since 2013, the number of full-time equivalent faculty members remained nearly constant from 2016 and increased by 5.9 per cent from 2013.

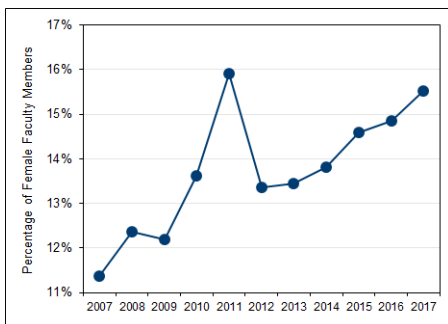


**Chart 5.1 - Faculty members by position and gender (2017, full-time equivalent)**

The percentage of female faculty members has increased from 13.4 per cent in 2013 and 14.9 per cent in 2016, to 15.5 per cent in 2017. The faculty position with the highest percentage of females was that of assistant professors (23.0 per cent), whereas the position with the lowest percentage was that of professor (11.2 per cent).



**Chart 5.2 - Female faculty members (2017, full-time equivalent)**



**Chart 5.3 - Proportion of female faculty members (2007-2017, full-time equivalent)**

As the number of female faculty members remains a small proportion of all faculties, Engineers Canada advises readers to use caution when drawing conclusions from year-to-year variation. Small inaccuracies in the reported data as well as changes in programming will affect the percentage presented in Chart 5.3.

# Appendix A

Data found in the following tables can also be downloaded in Excel format.

## Undergraduate Enrolment (U)

- »U.1. National
- »U.2. Provincial
- »U.3. Institutional

## Undergraduate Degrees Awarded (UD)

- »U.1. National
- »U.2. Provincial
- »U.3. Institutional

## Post-graduate Student Enrolment (G)

- »U.1. National
- »U.2. Provincial
- »U.3. Institutional

## Post-graduate Degrees Awarded (GD)

- »U.1. National
- »U.2. Provincial
- »U.3. Institutional

## Faculty Members by institution (F)

- »F.1. Faculty Composition

## Co-op, Internship, and Professional Experience Programs (C)

- »C.1. Industry Experience Options by Institutions

## Undergraduate Enrolment (U)

<b>Table U.1.1 Total undergraduate enrolment in accredited engineering programs by discipline: 2013 to 2017</b>					
<b>Discipline</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>
<b>Biosystems</b>	1,080	1,402	1,558	1,787	1,855
<b>Chemical</b>	5,825	6,076	6,323	6,341	5,949
<b>Civil</b>	11,957	11,974	12,595	12,379	11,666
<b>Computer</b>	3,873	4,105	4,838	5,473	6,097
<b>Electrical</b>	10,556	11,411	11,764	11,391	11,222
<b>Engineering Physics</b>	3,081	3,222	2,865	3,303	3,245
<b>Environmental</b>	1,440	1,444	1,462	1,501	1,668
<b>Geological</b>	730	761	779	746	654
<b>Industrial or Manufacturing</b>	1,959	2,502	2,648	2,787	2,798
<b>Materials or Metallurgical</b>	886	793	1,004	951	869
<b>Mechanical</b>	15,368	17,091	18,691	18,415	18,194
<b>Mining or Mineral</b>	1,304	1,431	1,416	1,249	967
<b>Software</b>	2,974	3,616	4,114	4,649	5,020
<b>Other</b>	3,747	4,293	4,412	4,263	4,419
<b>Year One/Two Common Year</b>	7,668	7,083	7,905	8,067	7,849
<b>TOTAL</b>	<b>72,449</b>	<b>77,203</b>	<b>82,375</b>	<b>83,302</b>	<b>82,473</b>

**Table U.1.2 Total female undergraduate enrolment in accredited engineering programs: 1991 to 2017**

<b>Year</b>	<b>Total Enrolment</b>	<b>Women</b>	<b>Percent of total</b>
1991	36,923	5,947	16.1
1992	40,068	6,659	16.6
1993	41,329	7,348	17.8
1994	40,709	7,436	18.3
1995	39,800	7,505	18.9
1996	40,667	7,659	18.8
1997	41,675	8,006	19.2
1998	43,487	8,391	19.3
1999	44,390	9,103	20.5
2000	46,610	9,460	20.3
2001	48,929	10,089	20.6
2002	52,024	10,350	19.9
2003	53,718	10,317	19.2
2004	54,361	9,901	18.2
2005	53,901	9,435	17.5
2006	52,484	9,235	17.6
2007	55,190	9,561	17.3
2008	56,596	9,695	17.1
2009	57,970	10,062	17.4
2010	61,505	10,915	17.7
2011	65,468	11,563	17.7
2012	69,611	12,626	18.1
2013	72,449	13,686	18.9
2014	77,203	14,689	19.0
2015	82,375	16,412	19.9
2016	83,302	17,393	20.9
2017	82,473	17,985	21.8

**Table U.1.3 Total female undergraduate enrolment in accredited engineering programs: 2013 to 2017**

<b>Discipline</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>
<b>Biosystems</b>	450	603	700	840	881
<b>Chemical</b>	1,920	2,067	2,246	2,323	2,335
<b>Civil</b>	2,718	2,755	3,024	3,103	3,043
<b>Computer</b>	416	478	586	750	904
<b>Electrical</b>	1,367	1,471	1,567	1,635	1,716
<b>Engineering Physics</b>	555	597	590	676	701
<b>Environmental</b>	571	597	594	614	689
<b>Geological</b>	268	280	288	275	244
<b>Industrial or Manufacturing</b>	489	675	760	832	866
<b>Materials or Metallurgical</b>	219	206	272	290	276
<b>Mechanical</b>	1,672	1,882	2,268	2,394	2,582
<b>Mining or Mineral</b>	191	226	215	187	155
<b>Software</b>	330	413	511	618	734
<b>Other</b>	751	873	937	929	981
<b>Year One/Two Common Year</b>	1,769	1,567	1,856	1,927	1,877
<b>TOTAL</b>	13,686	14,689	16,412	17,393	17,985

**Table U.1.4 Total 2017 undergraduate enrolment in engineering programs, which will be seeking accreditation**

<b>Institution</b>	<b>Program</b>	
<b>BCIT</b>	Mineral and Mining Exploration Engineering	54
<b>Concordia</b>	Aerospace Engineering	95
<b>Laurentian</b>	Civil Engineering	16
<b>McGill</b>	Bioengineering	32
<b>McGill</b>	BioResource Engineering	179
<b>McMaster</b>	Biomedical Engineering	60
<b>UOIT</b>	Energy Systems Engineering	8
<b>UOIT</b>	Mechatronics Engineering	68
<b>UQAT</b>	Génie électrique	5
<b>UQO</b>	Génie électrique	45
<b>Waterloo</b>	Biomedical Engineering	147
<b>York</b>	Civil Engineering	152
<b>York</b>	Mechanical Engineering	161
<b>York</b>	Year One - Common	449
<b>TOTAL</b>		1,473

**Table U.2.1 Total undergraduate enrolment in accredited engineering programs by province: 2013 to 2017**

<b>Province</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>
<b>AB</b>	7,334	5,818	7,317	6,839	7,170
<b>BC</b>	6,935	8,082	8,063	8,080	8,335
<b>MB</b>	1,412	1,483	1,521	1,565	1,580
<b>NB</b>	2,025	1,886	1,836	1,863	1,723
<b>NL</b>	937	989	1,030	1,046	1,048
<b>NS</b>	2,049	2,137	2,093	2,261	2,132
<b>ON</b>	30,314	34,113	36,344	37,208	36,434
<b>PE</b>	126	120	128		238
<b>QC</b>	18,744	19,993	21,266	21,654	21,099
<b>SK</b>	2,574	2,584	2,778	2,785	2,714
<b>TOTAL</b>	72,449	77,203	82,375	83,302	82,473

**Table U.2.2 Total female undergraduate enrolment in accredited engineering programs by province: 2013 to 2017**

<b>Province</b>	<b>Total Enrolment</b>	<b>Female Enrolment</b>	<b>Percent Female Enrolment</b>
<b>AB</b>	7,170	1,660	23.10%
<b>BC</b>	8,335	1,788	21.40%
<b>MB</b>	1,580	325	20.50%
<b>NB</b>	1,723	373	21.70%
<b>NL</b>	1,048	295	28.10%
<b>NS</b>	2,132	469	22.00%
<b>ON</b>	36,434	8,336	22.90%
<b>PE</b>	238	60	25.20%
<b>QC</b>	21,099	4,179	19.80%
<b>SK</b>	2,714	501	18.50%
<b>TOTAL</b>	82,473	17,985	21.80%



**Table U.2.3 Total undergraduate foreign student enrolment in accredited engineering programs by province: 2013 to 2017**

<b>Province</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>
<b>AB</b>	795	644	929	968	1,112
<b>BC</b>	1,018	1,226	1,407	1,551	1,675
<b>MB</b>	245	276	258	245	229
<b>NB</b>	674	451	465	370	268
<b>NL</b>	95	102	109	118	131
<b>NS</b>	479	513	536	674	692
<b>ON</b>	4,201	4,843	5,449	5,729	5,729
<b>PE</b>	20	30	30		61
<b>QC</b>	2,643	2,778	3,118	3,265	2,973
<b>SK</b>	573	577	659	604	603
<b>TOTAL</b>	10,743	11,441	12,960	13,522	13,474

**Table U.2.4 - Total undergraduate enrolment in accredited engineering programs by discipline and province: 2017**

<b>Discipline</b>	<b>AB</b>	<b>BC</b>	<b>MB</b>	<b>NB</b>	<b>NL</b>	<b>NS</b>	<b>ON</b>	<b>PE</b>	<b>QC</b>	<b>SK</b>	<b>Total</b>
<b>Biosystems</b>		188	129				1,263		276	0	1,855
<b>Chemical</b>	832	236		226		146	3,236		1,105	169	5,949
<b>Civil</b>	952	941	269	380	163	159	4,349		4,242	211	11,666
<b>Computer</b>	278	387	125	1	59		3,793		1,230	224	6,097
<b>Electrical</b>	851	1,147	304	271	86	175	4,841		3,425	122	11,222
<b>Engineering Physics</b>	73	957				227	1,499		433	56	3,245
<b>Environmental</b>		253				82	985		84	264	1,668
<b>Geological</b>		116		39			202		233	64	654
<b>Industrial or Manufacturing</b>						125	823		1,465	385	2,798
<b>Materials or Metallurgical</b>	107	153				29	332		248		869
<b>Mechanical</b>	1,648	1,645	468	436	254	188	8,150		5,151	254	18,194
<b>Mining or Mineral</b>	102	150				74	291		351		967
<b>Software</b>	151	218		134			1,893		2,478	146	5,020
<b>Other</b>	300	167		113	185	817	1,920	238	378	301	4,419
<b>Year One/Two Common Year</b>	1,875	1,778	285	123	302	111	2,858			518	7,849
<b>TOTAL</b>	7,170	8,335	1,580	1,723	1,048	2,132	36,434	238	21,099	2,714	82,473

**Table U.2.5 - Total female undergraduate enrolment in accredited engineering programs by discipline: 2017**

<b>Discipline</b>	<b>AB</b>	<b>BC</b>	<b>MB</b>	<b>NB</b>	<b>NL</b>	<b>NS</b>	<b>ON</b>	<b>PE</b>	<b>QC</b>	<b>SK</b>	<b>Total</b>
<b>Biosystems</b>		82	54				609		137	0	881
<b>Chemical</b>	296	85		84		56	1,231		528	56	2,335
<b>Civil</b>	321	247	71	94	58	41	1,164		997	50	3,043
<b>Computer</b>	42	72	17	0	12		584		157	19	904
<b>Electrical</b>	153	181	48	42	11	30	778		460	14	1,716
<b>Engineering Physics</b>	10	185				37	388		75	6	701
<b>Environmental</b>		108				33	400		41	107	689
<b>Geological</b>		45		14			84		88	13	244
<b>Industrial or Manufacturing</b>						39	286		491	50	866
<b>Materials or Metallurgical</b>	33	50				5	106		83		276
<b>Mechanical</b>	261	227	63	65	51	23	1,209		661	24	2,582
<b>Mining or Mineral</b>	13	26				9	59		49		155
<b>Software</b>	25	33		25			292		338	21	734
<b>Other</b>	59	40		25	75	170	433	60	73	47	981
<b>Year One/Two Common Year</b>	448	406	71	25	89	27	717			95	1,877
<b>TOTAL</b>	1,660	1,788	325	373	295	469	8,336	60	4,179	501	17,985

**Table U.3.1 Total undergraduate enrolment in accredited engineering programs by institution: 2013 to 2017**

<b>Institution</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>
<b>Acadia</b>	171	153	153	169	
<b>Alberta</b>	4,145	3,277	4,222	4,207	4,352
<b>BCIT</b>	486	784	882	379	405
<b>Calgary</b>	3,189	2,541	3,095	2,632	2,818
<b>Cape Breton</b>	83	54	41	88	93
<b>Carleton</b>	3,228	3,511	4,022	4,281	4,443
<b>Concordia</b>	3,090	3,228	3,463	3,655	3,459
<b>Conestoga</b>	98	161	176	195	104
<b>Dal</b>	1,343	1,508	1,588	1,719	1,794
<b>ETS</b>	4,382	5,762	5,201	5,216	5,344
<b>Guelph</b>	942	1,320	1,392	1,612	1,738
<b>Lakehead</b>	798	849	1,006	1,087	
<b>Laurentian</b>	382	544	481	498	427
<b>Laval</b>	1,987	1,135	2,443	2,411	2,329
<b>Manitoba</b>	1,412	1,483	1,521	1,565	1,580
<b>McGill</b>	2,734	2,847	2,884	2,924	2,532
<b>McMaster</b>	2,737	3,330	3,473	3,601	3,633
<b>Moncton</b>	358	343	422	348	328
<b>MUN</b>	937	989	1,030	1,046	1,048
<b>NSAC</b>	65	72	19	28	18
<b>Ottawa</b>	2,340	2,661	3,009	3,130	3,260
<b>Polytechnique</b>	4,305	4,704	4,896	5,048	4,982
<b>Queen's</b>	2,745	2,811	2,974	3,066	2,986
<b>Regina</b>	1,157	1,166	1,389	1,406	1,376
<b>RMC</b>	513	418	416	379	470
<b>Ryerson</b>	3,193	3,632	3,913	4,071	4,222
<b>Saskatchewan</b>	1,418	1,417	1,390	1,378	1,338
<b>SFU</b>	1,120	1,245	1,215	1,162	1,090
<b>Sherbrooke</b>	1,339	1,358	1,459	1,469	1,569
<b>SMU</b>	297	281	214	258	227
<b>StFX</b>	90	70	79		
<b>Toronto</b>	4,560	4,672	4,745	4,681	4,553
<b>UBC</b>	3,699	3,501	3,537	3,821	3,638
<b>UBCO</b>	262	1,092	806	952	1,065
<b>UNB</b>	1,667	1,543	1,414	1,515	1,395
<b>UNBC</b>	84	85	89	102	190
<b>UOIT</b>	763	1,633	1,787	940	930
<b>UPEI</b>	126	120	128		238
<b>UQAC</b>	358	370	387	374	336
<b>UQAM</b>	42	47			
<b>UQAR</b>	89	88	114	91	83
<b>UQAT</b>	62	63	63	87	87
<b>UQO</b>	30	29	28	39	34
<b>UQTR</b>	327	362	329	342	344
<b>UVic</b>	1,284	1,374	1,534	1,664	1,948
<b>Waterloo</b>	5,182	5,315	5,456	5,545	5,750
<b>Western</b>	1,321	1,582	1,695	2,020	1,992

<b>Windsor</b>	1,245	1,468	1,540	1,591	1,563
<b>York</b>	267	207	260	513	365
<b>TOTAL</b>	72,449	77,203	82,375	83,302	82,473

**Table U.3.2 Total female undergraduate enrolment in accredited engineering programs by institution: 2013 to 2017**

<b>Institution</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>
<b>Acadia</b>	38	31	37	44	
<b>Alberta</b>	827	658	893	894	948
<b>BCIT</b>	42	59	62	42	50
<b>Calgary</b>	773	645	791	677	712
<b>Cape Breton</b>	18	10	4	18	20
<b>Carleton</b>	450	504	669	712	762
<b>Concordia</b>	606	645	705	767	743
<b>Conestoga</b>	5	10	8	7	3
<b>Dal</b>	262	291	321	369	405
<b>ETS</b>	385	507	458	471	522
<b>Guelph</b>	228	362	388	464	493
<b>Lakehead</b>	88	88	130	126	
<b>Laurentian</b>	52	84	81	84	77
<b>Laval</b>	361	242	473	449	465
<b>Manitoba</b>	250	275	277	297	325
<b>McGill</b>	633	675	708	752	696
<b>McMaster</b>	514	587	686	726	756
<b>Moncton</b>	65	65	63	74	73
<b>MUN</b>	243	241	269	282	295
<b>NSAC</b>	9	17	1	5	7
<b>Ottawa</b>	445	527	595	622	678
<b>Polytechnique</b>	992	1,168	1,269	1,411	1,386
<b>Queen's</b>	775	815	882	918	881
<b>Regina</b>	266	249	251	234	239
<b>RMC</b>	71	51	48	34	60
<b>Ryerson</b>	539	638	738	782	873
<b>Saskatchewan</b>	279	277	272	283	263
<b>SFU</b>	155	187	197	185	178
<b>Sherbrooke</b>	213	207	214	221	234
<b>SMU</b>	42	42	32	42	37
<b>StFX</b>	26	22	27		
<b>Toronto</b>	1,116	1,198	1,282	1,370	1,458
<b>UBC</b>	783	787	863	974	952
<b>UBCO</b>	32	148	124	149	173
<b>UNB</b>	255	277	244	314	300
<b>UNBC</b>	38	32	35	43	84
<b>UOIT</b>	66	111	144	85	91
<b>UPEI</b>	18	10	14		60
<b>UQAC</b>	53	58	64	71	59
<b>UQAM</b>	3	4			
<b>UQAR</b>	13	8	6	5	3
<b>UQAT</b>	13	12	9	11	12
<b>UQO</b>	3	5	7	11	6
<b>UQTR</b>	50	69	62	60	52
<b>UVic</b>	133	151	188	242	351
<b>Waterloo</b>	975	1,058	1,188	1,301	1,460
<b>Western</b>	261	312	343	422	421

<b>Windsor</b>	178	236	242	253	258
<b>York</b>	47	38	51	91	67
<b>TOTAL</b>	13,686	14,689	16,412	17,393	17,985



Table U 3.3 Total undergraduate enrolment in accredited engineering programs by institution and discipline: 2017

Institution	Biosystems	Chemical	Civil	Computer	Electrical	Engineering Physics	Environmental	Geological	Industrial or Manufacturing	Materials or Metallurgical	Mechanical	Mining or Mineral	Software	Other	Year One/Two Common Year
Alberta		467	672	278	491	73				107	997	102		157	1,008
BCIT			137		127						141				
Calgary		365	280		360						651		151	143	867
Cape Breton															93
Carleton	185		869	402	1,014	110	371				542		400	550	
Concordia			854	246	383				332		974		670		
Conestoga				43							62				
Dal		146	159		175		82		125	29	188	74		817	
ETS			1,510		1,357				414		1,326		736		
Guelph	424			262			365				619				68
Laurentian		125									171	121			10
Laval	123	113	383	117	162	153	84	105	157	41	466	113	200	112	
Manitoba	129		269	125	304						468				285
McGill		316	346	159	482					207	642	82	273	24	
McMaster		363	382	186	467	124				144	662		333		972
Moncton			148		72						108				
MUN			163	59	86						254			185	302
NSAC															18
Ottawa	293	396	603	395	573						739		261		
Polytechnique	153	421	750	368	488	280		95	472		991	156	599	210	
Queen's		315	308	274	205	442		105			520	87			730
Regina				164			223		385				146	301	156
RMC		27	63	52	33						64			70	161
Ryerson	360	401	722	447	679				256		823			461	73
Saskatchewan		169	211	59	122	56	41	64			254				363
SFU						718					372				
Sherbrooke		252	281	280	318						438				
SMU						227									
Toronto		481	426	648	592	823			412	188	710	83			191
UBC	94	236	414	332	496	239	63	116		153	386	150		167	792
UBCO			178		128						265				494
UNB		226	232	1	199			39			328		134	113	123
UNBC							190								
UOIT					193				31		450		131	126	
UPEI														238	
UQAC			118	26	76			33			83				
UQAR					17						35			32	
UQAT					44						43				
UQO				34											

<b>UQTR</b>		2			99				90		153				
<b>UVic</b>	94		212	55	396						481		218		492
<b>Waterloo</b>		922	509	904	449		214	97			1,536		500	619	
<b>Western</b>		206	229	87	181						440		205	57	587
<b>Windsor</b>			237		351		36		125		748				66
<b>York</b>				95	105						65		63	37	
<b>TOTAL</b>	1,855	5,949	11,666	6,097	11,222	3,245	1,668	654	2,798	869	18,194	967	5,020	4,419	7,849

**Table U 3.4 Total female undergraduate enrolment in accredited engineering programs by institution and discipline: 2017**

<b>Institution</b>	<b>Biosystems</b>	<b>Chemical</b>	<b>Civil</b>	<b>Computer</b>	<b>Electrical</b>	<b>Engineering Physics</b>	<b>Environmental</b>	<b>Geological</b>	<b>Industrial or Manufacturing</b>	<b>Materials or Metallurgical</b>	<b>Mechanical</b>	<b>Mining or Mineral</b>	<b>Software</b>	<b>Other</b>
<b>Acadia</b>													44	
<b>Alberta</b>		168	212	31	75	10				35	131	17	182	33
<b>BCIT</b>			24		10						8			
<b>Calgary</b>		111	108		70						106		18	213 51
<b>Cape Breton</b>													18	
<b>Carleton</b>	64		205	32	139	18	94				49		42	69
<b>Concordia</b>			259	23	70				143		159		113	
<b>Conestoga</b>				3							5			
<b>Dal</b>		42	39		20		28		32	6	23	9		172
<b>ETS</b>			221		124				28		66		32	
<b>Guelph</b>	217			31			147				59			10
<b>Lakehead</b>		35	60		13						14		5	
<b>Laurentian</b>		38									21	23		3
<b>Laval</b>	56	37	81	7	17	20	38	32	49	11	46	17	19	19
<b>Manitoba</b>	54		61	17	44						57			65
<b>McGill</b>		165	140	25	118					80	140	20	47	17
<b>McMaster</b>		128	88	21	94	14				43	77		44	218
<b>Moncton</b>			43		17						14			
<b>MUN</b>			51	9	10						43			97 72
<b>NSAC</b>														5
<b>Ottawa</b>	143	140	123	46	61						67		43	
<b>Polytechnique</b>	83	229	312	49	77	52		54	223		193	28	71	41
<b>Queen's</b>		151	131	34	42	113		66			134	26		222
<b>Regina</b>				13			83		52				16	5 65
<b>RMC</b>		10	2	3	1						6			12
<b>Ryerson</b>	159	119	146	45	78				75		65			29 66
<b>Saskatchewan</b>		68	53	4	9	5	21	16			23			84
<b>SFU</b>						142					42			
<b>Sherbrooke</b>		88	62	11	16						44			
<b>SMU</b>						42								
<b>Toronto</b>		226	157	114	146	220			163	71	162	23		89
<b>UBC</b>	37	85	116	70	107	40	29	48		44	96	25		241 36
<b>UBCO</b>			25		12						21			149
<b>UNB</b>		97	57	18	18			18			41		11	32 21
<b>UNBC</b>							43							
<b>UOIT</b>					39				5		67		24	36
<b>UQAC</b>			36	3	6			15			11			
<b>UQAR</b>					2						2			2

<b>UQAT</b>					6						5				
<b>UQO</b>				11											
<b>UQTR</b>					10				39		11				
<b>UVic</b>				2	47						51		21	93	
<b>Waterloo</b>		298	168	100	87		111	27			211		82		219
<b>Western</b>		90	65	6	29						57		33	124	20
<b>Windsor</b>			60		43		20		26		88			16	
<b>York</b>				23	17						15				10
<b>TOTAL</b>	812	2,323	3,103	750	1,671	676	614	275	834	290	2,428	187	621	1,950	947

## Undergraduate Degrees Awarded (UD)

Table UD.1.1 Total undergraduate degrees awarded by discipline: 2013 to 2017

Discipline	2013	2014	2015	2016	2017
<b>Biosystems</b>	194	211	235	278	384
<b>Chemical</b>	1,307	1,292	1,297	1,370	1,511
<b>Civil</b>	2,751	2,688	2,772	2,757	2,843
<b>Computer</b>	686	573	713	713	766
<b>Electrical</b>	2,137	2,202	2,375	2,435	2,578
<b>Engineering Physics</b>	548	532	599	588	618
<b>Environmental</b>	300	360	337	363	302
<b>Geological</b>	164	152	192	187	207
<b>Industrial or Manufacturing</b>	361	440	527	472	518
<b>Materials or Metallurgical</b>	216	213	235	248	226
<b>Mechanical</b>	3,255	3,338	3,634	3,791	3,987
<b>Mining or Mineral</b>	220	280	307	345	342
<b>Software</b>	434	547	632	634	751
<b>Other</b>	790	908	702	724	749
<b>Year One/Two Common Year</b>	72	0	0		
<b>TOTAL</b>	13,363	13,808	14,557	14,904.60	15,781.50

Table UD.1.2 Total undergraduate degrees awarded to female students by discipline: 2013 to 2017

Discipline	2013	2014	2015	2016	2017
<b>Biosystems</b>	87	101	97	115	180
<b>Chemical</b>	427	402	442	466	559
<b>Civil</b>	605	597	644	657	713
<b>Computer</b>	71	59	67	61	85
<b>Electrical</b>	283	330	335	314	361
<b>Engineering Physics</b>	92	93	115	120	112
<b>Environmental</b>	121	147	138	144	146
<b>Geological</b>	58	57	71	69	79
<b>Industrial or Manufacturing</b>	73	125	139	138	156
<b>Materials or Metallurgical</b>	43	53	51	66	58
<b>Mechanical</b>	344	357	391	428	485
<b>Mining or Mineral</b>	38	44	64	62	45
<b>Software</b>	43	57	57	64	106
<b>Other</b>	162	182	129	178	159
<b>Year One/Two Common Year</b>	17	0	0		
<b>TOTAL</b>	2,447	2,621	2,740	2,882	3,244

**Table UD.2.1 Total undergraduate degrees awarded by province: 2013 to 2017**

Province	2013	2014	2015	2016	2017
<b>AB</b>	1,282	1,346	1,373	1,408	1,467
<b>BC</b>	1,278	1,324	1,519	1,470	1,622
<b>MB</b>	188	219	218	255	312
<b>NB</b>	320	308	307	340	345
<b>NL</b>	270	194	196	197	210
<b>NS</b>	477	654	318	346	367
<b>ON</b>	5,927	5,996	6,465	6,692.60	7,126.50
<b>PE</b>					7
<b>QC</b>	3,202	3,370	3,676	3,771	3,855
<b>SK</b>	419	397	485	425	470
<b>TOTAL</b>	13,363	13,808	14,557	14,904.60	15,781.50

**Table UD.2.2 Total undergraduate degrees awarded to female students by province: 2013 to 2017**

Province	2013	2014	2015	2016	2017
<b>AB</b>	290	277	319	299	321
<b>BC</b>	172	210	265	253	286
<b>MB</b>	29	52	42	47	60
<b>NB</b>	45	65	53	55	64
<b>NL</b>	77	44	42	34	58
<b>NS</b>	101	142	63	57	82
<b>ON</b>	1,123	1,155	1,215	1,354	1,522
<b>PE</b>					0
<b>QC</b>	518	593	656	698	750
<b>SK</b>	92	83	85	85	101
<b>TOTAL</b>	2,447	2,621	2,740	2,882	3,244

**Table UD.2.3 Total undergraduate degrees awarded to foreign students by province: 2013 to 2017**

Province	2013	2014	2015	2016	2017
<b>AB</b>	107	122	114	171	169
<b>BC</b>	109	140	197	193	239
<b>MB</b>	14	34	44	41	63
<b>NB</b>	57	70	71	69	63
<b>NL</b>	16	30	22	21	21
<b>NS</b>	65	103	53	63	64
<b>ON</b>	585	640	816	833	1,020.50
<b>PE</b>					0
<b>QC</b>	353	424	421	441	514
<b>SK</b>	63	63	84	72	74
<b>TOTAL</b>	1,369	1,626	1,822	1,904	2,227.50

**Table UD.2.4 Total undergraduate degrees awarded by province and discipline: 2017**

Discipline	AB	BC	MB	NB	NL	NS	ON	PE	QC	SK
<b>Biosystems</b>		39	37				212		96	
<b>Chemical</b>	245	65		56		50	799		221	75
<b>Civil</b>	252	278	68	108	47	62	1,006		950	72
<b>Computer</b>	34	106	21	1	15		409		151	29

<b>Electrical</b>	271	283	82	62	18	66	1,160	608	28	
<b>Engineering Physics</b>	13	193					333.50	68	10	
<b>Environmental</b>		60				22	147	22	51	
<b>Geological</b>		46		15			70	49	27	
<b>Industrial or Manufacturing</b>						41	208	251	18	
<b>Materials or Metallurgical</b>	40	32				13	88	53		
<b>Mechanical</b>	387	432	104	73	69	71	1799	971	81	
<b>Mining or Mineral</b>	69	27				42	119	85		
<b>Software</b>	35	32		6			378	283	17	
<b>Other</b>	121	29		24	61		398	7	47	62
<b>TOTAL</b>	1,467	1,622	312	345	210	367	7,126.50	7	3,855	470

Table UD.2.5 Total undergraduate degrees awarded to women by province and discipline: 2017

<b>Discipline</b>	<b>AB</b>	<b>BC</b>	<b>MBNB</b>	<b>NL</b>	<b>NS</b>	<b>ON</b>	<b>PE</b>	<b>QC</b>	<b>SK</b>
<b>Biosystems</b>		12	14			101		53	
<b>Chemical</b>	76	26		20	18	295		104	20
<b>Civil</b>	80	54	11	24	11	15	281	216	21
<b>Computer</b>	6	18	5		1		43	9	3
<b>Electrical</b>	50	33	14	4	7	7	172	71	3
<b>Engineering Physics</b>		30					72	10	
<b>Environmental</b>		31				11	74	9	21
<b>Geological</b>		21		7			26	20	5
<b>Industrial or Manufacturing</b>						10	63	80	3
<b>Materials or Metallurgical</b>	11	4				4	26	13	
<b>Mechanical</b>	55	46	16	8	13	12	223	104	8
<b>Mining or Mineral</b>	3	3				5	19	15	
<b>Software</b>	8	3					50	38	7
<b>Other</b>	32	5		1	26		77	8	10
<b>TOTAL</b>	321	286	60	64	58	82	1,522	750	101

Table UD.3.1 Total undergraduate degrees awarded by institution: 2013 to 2017

<b>Institution</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>
<b>Acadia</b>		0			
<b>Alberta</b>	760	737	792	810	827
<b>BCIT</b>	52	54	71	73	72
<b>Calgary</b>	522	609	581	598	640
<b>Carleton</b>	427	453	530	568	584
<b>Concordia</b>	462	458	491	472	500
<b>Conestoga</b>	11	30	26	30	42
<b>Dal</b>	477	582	318	346	367
<b>ETS</b>	828	788	898	948	1,018
<b>Guelph</b>	104	220	212	279	318
<b>Lakehead</b>	302	283	298	312	
<b>Laurentian</b>	249	83	78	110	106
<b>Laval</b>	300	300	441	502	499
<b>Manitoba</b>	188	219	218	255	312
<b>McGill</b>	487	546	574	565	586
<b>McMaster</b>	590	588	653	644	717
<b>Moncton</b>	67	71	49	45	65

<b>MUN</b>	270	194	196	197	210
<b>NSAC</b>		72	0	0	
<b>Ottawa</b>	286	363	374	347	444
<b>Polytechnique</b>	686	790	780	797	777
<b>Queen's</b>	641	594	595	576	625
<b>Regina</b>	123	158	160	153	149
<b>RMC</b>	93	0	89	0	0
<b>Ryerson</b>	514	557	567	733	837
<b>Saskatchewan</b>	296	239	325	272	321
<b>SFU</b>	142	157	189	220	244
<b>Sherbrooke</b>	279	276	286	299	304
<b>SMU</b>		0		0	0
<b>Toronto</b>	960	938	1,035	1,048	1,116
<b>UBC</b>	764	758	889	769	784
<b>UBCO</b>	142	145	151	157	221
<b>UNB</b>	253	237	258	295	280
<b>UNBC</b>	14	25	28	32	30
<b>UOIT</b>	228	239	262	289	355
<b>UPEI</b>					7
<b>UQAC</b>	65	71	72	71	84
<b>UQAM</b>	9	6			
<b>UQAR</b>	16	16	16	14	13
<b>UQAT</b>	7	10	14	10	14
<b>UQO</b>	7	5	5	5	
<b>UQTR</b>	56	104	99	88	60
<b>UVic</b>	164	185	191	219	271
<b>Waterloo</b>	1,082	1,113	1,194	1,136	1,206
<b>Western</b>	249	291	305	317	367
<b>Windsor</b>	191	221	218	283	360
<b>York</b>		23	29	21	50
<b>TOTAL</b>	13,363	13,808	14,557	14,904.60	15,781.50

**Table UD.3.2 Total undergraduate degrees awarded to female students by institution: 2013 to 2017**

<b>Institution</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>
<b>Acadia</b>		0			
<b>Alberta</b>	159	141	176	162	163
<b>BCIT</b>	1	1	2	5	5
<b>Calgary</b>	131	136	143	137	158
<b>Carleton</b>	74	74	94	102	92
<b>Concordia</b>	88	96	92	100	105
<b>Conestoga</b>	1	5	1	1	1
<b>Dal</b>	101	125	63	57	82
<b>ETS</b>	90	65	83	79	89
<b>Guelph</b>	30	58	49	70	99
<b>Lakehead</b>	28	30	31	32	
<b>Laurentian</b>	33	16	8	22	11
<b>Laval</b>	49	49	90	94	94
<b>Manitoba</b>	29	52	42	47	60
<b>McGill</b>	75	134	127	129	161

<b>McMaster</b>	104	111	101	111	143
<b>Moncton</b>	8	20	10	3	10
<b>MUN</b>	77	44	42	34	58
<b>NSAC</b>		17	0	0	
<b>Ottawa</b>	57	70	82	72	104
<b>Polytechnique</b>	148	168	175	201	224
<b>Queen's</b>	170	159	170	184	195
<b>Regina</b>	23	36	22	25	37
<b>RMC</b>	11	0	9	0	0
<b>Ryerson</b>	92	112	112	127	152
<b>Saskatchewan</b>	69	47	63	60	64
<b>SFU</b>	12	21	37	37	26
<b>Sherbrooke</b>	46	40	46	44	49
<b>SMU</b>		0		0	0
<b>Toronto</b>	207	237	236	275	280
<b>UBC</b>	128	141	185	156	187
<b>UBCO</b>	11	20	21	15	28
<b>UNB</b>	37	45	43	52	54
<b>UNBC</b>	8	10	10	17	15
<b>UOIT</b>	21	17	16	17	24
<b>UPEI</b>					0
<b>UQAC</b>	8	10	5	14	20
<b>UQAM</b>	0	0			
<b>UQAR</b>	0	3	2	4	0
<b>UQAT</b>	2	1	3	5	3
<b>UQO</b>	2	0	0	0	
<b>UQTR</b>	10	27	33	28	5
<b>UVic</b>	12	17	10	23	25
<b>Waterloo</b>	218	189	201	211	255
<b>Western</b>	48	48	64	73	93
<b>Windsor</b>	29	26	38	52	63
<b>York</b>		3	3	5	10
<b>TOTAL</b>	2,447	2,621	2,740	2,882	3,244



Table UD.3.3 Total undergraduate degrees awarded by institution &amp; discipline: 2017

Institution	Biosystems	Chemical	Civil	Computer	Electrical	Engineering Physics	Environmental	Geological	Industrial or Manufacturing	Materials or Metallurgical	Mechanical	Mining or Mineral	Software	Other
Alberta		160	156	34	113	13				40	194	69		48
BCIT			24		20						28			
Calgary		85	96		158						193		35	73
Carleton	21		129	24	133	9	41				98		40	89
Concordia		170	17	54				44		165		50		
Conestoga			11							31				
Dal		50	62		66		22		41	13	71	42		
ETS			331		251				68		263		105	
Guelph	89			36			68				125			
Laurentian	23									35	48			
Laval	26	21	127	20	32	28	22	18	33	14	92	36	23	7
Manitoba	37		68	21	82						104			
McGill	43	90	67	18	114					39	149	19	47	
McMaster	96	97	39	138	35				49	168		95		
Moncton			30		18						17			
MUN			47	15	18						69			61
Ottawa	33	84	125	21	54						88		39	
Polytechnique	27	58	158	41	62	40		17	89		162	30	58	35
Queen's		105	84	37	46	112		47			146	48		
Regina				17			35		18				17	62
RMC														
Ryerson	69	53	184	67	142				68		152			102
Saskatchewan	75	72	12	28	10	16	27			81				
SFU						143					101			
Sherbrooke	50	68	48	46						92				
SMU														
Toronto		138	111		339	178			97	39	191	23		
UBC	23	65	141	93	132	50	30	46		32	116	27		29
UBCO			72		53						96			
UNB		56	78	1	44			15			56		6	24
UNBC							30							
UOIT					83				6		182		30	54
UPEI														7
UQAC			29	7	13			14			21			
UQAR					3						5			5
UQAT					7						7			
UQTR		2			26				17		15			
UVic	16		41	13	78						91		32	
Waterloo		235	118	153	119		33	23			285		106	134
Western		65	80	3	38						110		63	8

<b>Windsor</b>			78		64		5		37		176			
<b>York</b>				18	4						12		5	11
<b>TOTAL</b>	384	1,511	2,843	766	2,578	618	302	207	518	226	3,987	342	751	749

**Table UD.3.4 Total undergraduate degrees awarded to women by institution and discipline: 2017**

<b>Institution</b>	<b>Biosystems</b>	<b>Chemical</b>	<b>Civil</b>	<b>Computer</b>	<b>Electrical</b>	<b>Engineering Physics</b>	<b>Environmental</b>	<b>Geological</b>	<b>Industrial or Manufacturing</b>	<b>Materials or Metallurgical</b>	<b>Mechanical</b>	<b>Mining or Mineral</b>	<b>Software</b>	<b>Other</b>
<b>Alberta</b>		44	48	6	17					11	21	3		13
<b>BCIT</b>			3		1						1			
<b>Calgary</b>		32	32		33						34	8		19
<b>Carleton</b>	11		25	2	15	1	16				10	2		10
<b>Concordia</b>		45	1	9				23		17		10		
<b>Conestoga</b>										1				
<b>Dal</b>		18	15		7		11	10	4	12	5			
<b>ETS</b>			46		24			5		9		5		
<b>Guelph</b>	44			4			31			20				
<b>Laurentian</b>	7									1	3			
<b>Laval</b>	11	6	28	1	3	2	9	4	12	4	6	4	2	2
<b>Manitoba</b>	14		11	5	14						16			
<b>McGill</b>	26	44	22	1	19					9	25	4	11	
<b>McMaster</b>	39	26	5	28	2			13	19			11		
<b>Moncton</b>			7		1						2			
<b>MUN</b>			11	1	7						13			26
<b>Ottawa</b>	18	28	28	4	10						11	5		
<b>Polytechnique</b>	16	33	49	5	8	8		9	38		35	7	10	6
<b>Queen's</b>		51	39	6	5	27		19			39	9		
<b>Regina</b>				2			15	3				7		10
<b>RMC</b>														
<b>Ryerson</b>	28	20	38	8	13			22		11				12
<b>Saskatchewan</b>	20	21	1	3		6	5			8				
<b>SFU</b>						21					5			
<b>Sherbrooke</b>	21	17	1	3						7				
<b>SMU</b>														
<b>Toronto</b>		48	34		60	42		37	13	39	7			
<b>UBC</b>	7	26	32	18	22	9	16	21		4	24	3		5
<b>UBCO</b>			11		7						10			
<b>UNB</b>		20	17		3			7			6			1
<b>UNBC</b>							15							
<b>UOIT</b>					7						7	2		8
<b>UPEI</b>														
<b>UQAC</b>			9		1			7			3			
<b>UQAR</b>														
<b>UQAT</b>					1						2			
<b>UQTR</b>					3			2						
<b>UVic</b>	5		8		3						6	3		
<b>Waterloo</b>		70	41	8	18		23	7			29	17		42

<b>Western</b>		32	26		10						9		13	3
<b>Windsor</b>			24		6		4		4		25			
<b>York</b>				6							2			2
<b>TOTAL</b>	180	559	713	85	361	112	146	79	156	58	485	45	106	159

## Post-graduate Enrolment (G)

**Table G.1.1 Total full-time master's students: 2013 to 2017**

<b>Year</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>
<b>Cdn Male</b>	4,654	4,001	4,259	4,232	4,308
<b>Cdn Female</b>	1,396	1,221	1,334	1,459	1,568
<b>Visa Male</b>	4,454	4,945	5,569	5,814	6,568
<b>Visa Female</b>	1,348	1,679	1,877	1,971	2,278
<b>Total</b>	11,852	11,845	13,040	13,476	14,723

**Table G.1.2 Total full-time doctoral students: 2013 to 2017**

<b>Year</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>
<b>Cdn Male</b>	3,336	3,065	3,064	2,839	2,675
<b>Cdn Female</b>	1,089	1,000	989	963	965
<b>Visa Male</b>	3,287	3,615	4,018	4,136	4,266
<b>Visa Female</b>	997	1,076	1,150	1,209	1,354
<b>Total</b>	8,709	8,756	9,221	9,146	9,261

**Table G.1.3 Total part-time master's students: 2013 to 2017**

<b>Year</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>
<b>Cdn Male</b>	1,790	1,290	1,190	1,470	1,314
<b>Cdn Female</b>	498	395	324	375	360
<b>Visa Male</b>	204	203	228	310	309
<b>Visa Female</b>	47	64	70	110	120
<b>Total</b>	2,539	1,952	1,812	2,264	2,103

**Table G.1.4 Total part-time doctoral students: 2013 to 2017**

<b>Year</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>
<b>Cdn Male</b>	285	239	255	236	232
<b>Cdn Female</b>	59	52	56	53	50
<b>Visa Male</b>	39	34	34	31	36
<b>Visa Female</b>	2	9	6	7	9
<b>Total</b>	386	334	351	327	327

**Table G.1.5 Total full-time equivalent master's students by discipline: 2013 to 2017**

<b>Discipline</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>
<b>Biosystems</b>	378	415	431	464	663
<b>Chemical</b>	1,026	910	989	1,070	1,108
<b>Civil</b>	1,875	1,843	2,064	2,280	2,464
<b>Computer</b>	439	337	402	376	417
<b>Electrical</b>	3,420	3,412	3,645	3,582	3,683
<b>Engineering Physics</b>	184	202	203	179	192
<b>Environmental</b>	296	352	360	396	364
<b>Geological</b>	18	16	16	17	13

<b>Industrial or Manufacturing</b>	427	449	415	458	573
<b>Materials or Metallurgical</b>	261	242	239	251	253
<b>Mechanical</b>	2,110	2,148	2,517	2,699	3,068
<b>Mining or Mineral</b>	148	188	211	210	179
<b>Software</b>	284	297	344	347	412
<b>Other</b>	1,856	1,836	1,878	1,900	2,139
<b>TOTAL</b>	12,725	12,646	13,715	14,229	15,529

**Table G.1.6 Total full-time equivalent doctoral students by discipline: 2013 to 2017**

<b>Discipline</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>
<b>Biosystems</b>	429	448	483	508	648
<b>Chemical</b>	1,007	958	967	980	967
<b>Civil</b>	1,292	1,334	1,424	1,352	1,408
<b>Computer</b>	145	149	199	230	227
<b>Electrical</b>	2,354	2,406	2,423	2,390	2,246
<b>Engineering Physics</b>	219	227	247	192	213
<b>Environmental</b>	136	116	126	143	127
<b>Geological</b>	11	6	2	0	3
<b>Industrial or Manufacturing</b>	185	185	214	193	175
<b>Materials or Metallurgical</b>	359	366	362	380	385
<b>Mechanical</b>	1,631	1,608	1,662	1,666	1,665
<b>Mining or Mineral</b>	100	119	124	142	118
<b>Software</b>	27	51	17	29	44
<b>Other</b>	958	928	1,134	1,055	1,150
<b>TOTAL</b>	8,851	8,899	9,383	9,260	9,378

**Table G.1.7 Total full-time equivalent female master's students by discipline: 2013 to 2017**

<b>Discipline</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>
<b>Biosystems</b>	152	164	171	184	283
<b>Chemical</b>	358	321	370	387	411
<b>Civil</b>	505	489	566	637	761
<b>Computer</b>	56	68	83	102	100
<b>Electrical</b>	721	789	840	873	949
<b>Engineering Physics</b>	42	45	44	44	53
<b>Environmental</b>	134	162	162	182	177
<b>Geological</b>	7	5	4	6	4
<b>Industrial or Manufacturing</b>	114	112	98	119	131
<b>Materials or Metallurgical</b>	77	68	66	65	62
<b>Mechanical</b>	276	328	383	417	434
<b>Mining or Mineral</b>	35	47	53	55	44
<b>Software</b>	54	66	86	97	131
<b>Other</b>	401	412	426	427	497
<b>TOTAL</b>	2,933	3,075	3,352	3,596	4,038

**Table G.1.8 Total full-time equivalent female doctoral students by discipline: 2013 to 2017**

<b>Discipline</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>
<b>Biosystems</b>	160	161	174	192	252
<b>Chemical</b>	351	327	316	315	323
<b>Civil</b>	317	337	350	356	371

<b>Computer</b>	36	33	46	53	50
<b>Electrical</b>	427	452	456	462	468
<b>Engineering Physics</b>	47	52	55	39	48
<b>Environmental</b>	51	44	52	55	51
<b>Geological</b>	3	2	1	0	1
<b>Industrial or Manufacturing</b>	39	42	53	51	50
<b>Materials or Metallurgical</b>	99	106	121	115	116
<b>Mechanical</b>	347	278	264	271	296
<b>Mining or Mineral</b>	26	36	36	40	34
<b>Software</b>	4	9	2	6	11
<b>Other</b>	204	226	250	236	267
<b>TOTAL</b>	2,112	2,104	2,177	2,193	2,339

**Table G.1.9 Total full-time equivalent foreign master's students by discipline: 2013 to 2017**

<b>Discipline</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>
<b>Biosystems</b>	130	117	127	138	221
<b>Chemical</b>	398	492	533	570	602
<b>Civil</b>	701	708	849	975	1,154
<b>Computer</b>	203	184	234	219	231
<b>Electrical</b>	1,904	2,200	2,390	2,360	2,474
<b>Engineering Physics</b>	67	61	73	64	67
<b>Environmental</b>	132	185	185	207	182
<b>Geological</b>	6	5	4	3	2
<b>Industrial or Manufacturing</b>	218	247	236	284	398
<b>Materials or Metallurgical</b>	124	109	103	111	105
<b>Mechanical</b>	913	1,056	1,352	1,494	1,818
<b>Mining or Mineral</b>	73	85	99	96	87
<b>Software</b>	184	231	258	246	303
<b>Other</b>	858	1,056	1,132	1,197	1,415
<b>TOTAL</b>	5,912	6,737	7,576	7,965	9,058

**Table G.1.10 Total full-time equivalent foreign doctoral students by discipline: 2013 to 2017**

<b>Discipline</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>
<b>Biosystems</b>	161	175	188	213	299
<b>Chemical</b>	481	523	553	607	625
<b>Civil</b>	613	678	738	735	815
<b>Computer</b>	80	76	113	134	143
<b>Electrical</b>	1,209	1,328	1,422	1,431	1,368
<b>Engineering Physics</b>	98	108	127	99	116
<b>Environmental</b>	61	63	62	81	71
<b>Geological</b>	5	1	2	0	2
<b>Industrial or Manufacturing</b>	100	98	113	96	87
<b>Materials or Metallurgical</b>	199	218	229	250	252
<b>Mechanical</b>	786	872	955	1,006	1,057
<b>Mining or Mineral</b>	49	61	65	75	62
<b>Software</b>	11	17	5	4	16
<b>Other</b>	450	494	641	628	727
<b>TOTAL</b>	4,300	4,712	5,213	5,359	5,641

**Table G.2.1 Total full-time equivalent master's students by province: 2013 to 2017**

Province	2013	2014	2015	2016	2017
<b>AB</b>	1,307	1,071	1,214	1,324	1,443
<b>BC</b>	848	857	1,065	871	906
<b>MB</b>	228	248	245	253	265
<b>NB</b>	171	133	151	139	134
<b>NL</b>	267	298	300	359	350
<b>NS</b>	418	389	367	366	385
<b>ON</b>	5,343	5,296	5,503	5,912	6,457
<b>QC</b>	3,799	4,023	4,479	4,578	5,088
<b>SK</b>	344	332	391	428	500
<b>TOTAL</b>	12,725	12,646	13,715	14,229	15,529

**Table G.2.2 Total full-time equivalent doctoral students by province: 2013 to 2017**

Province	2013	2014	2015	2016	2017
<b>AB</b>	1,141	1,081	1,101	1,103	1,137
<b>BC</b>	895	884	1,039	842	774
<b>MB</b>	214	214	240	245	243
<b>NB</b>	111	86	76	93	57
<b>NL</b>	127	151	165	213	221
<b>NS</b>	113	123	144	148	138
<b>ON</b>	3,294	3,394	3,424	3,455	3,338
<b>QC</b>	2,751	2,768	2,858	2,925	3,199
<b>SK</b>	206	200	337	237	272
<b>TOTAL</b>	8,851	8,899	9,383	9,260	9,378

**Table G.2.3 Total full-time equivalent female master's students by province: 2013 to 2017**

Province	2013	2014	2015	2016	2017
<b>AB</b>	361	325	360	407	428
<b>BC</b>	194	197	243	226	248
<b>MB</b>	57	67	61	65	72
<b>NB</b>	35	24	41	36	30
<b>NL</b>	72	69	63	66	65
<b>NS</b>	61	62	78	86	93
<b>ON</b>	1,212	1,302	1,378	1,509	1,672
<b>QC</b>	847	943	1,029	1,098	1,313
<b>SK</b>	95	87	100	104	116
<b>TOTAL</b>	2,933	3,075	3,352	3,596	4,038

**Table G.2.4 Total full-time equivalent female doctoral students by province: 2013 to 2017**

Province	2013	2014	2015	2016	2017
<b>AB</b>	332	276	255	263	298
<b>BC</b>	188	190	200	188	185
<b>MB</b>	42	44	50	54	56
<b>NB</b>	34	21	17	18	11
<b>NL</b>	23	32	34	41	34
<b>NS</b>	29	28	33	29	31
<b>ON</b>	743	766	792	801	830

<b>QC</b>	667	688	714	736	820
<b>SK</b>	53	60	83	63	74
<b>TOTAL</b>	2,112	2,104	2,177	2,193	2,339

**Table G.2.5 Total full-time equivalent foreign master's students by province: 2013 to 2017**

<b>Province</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>
<b>AB</b>	610	622	656	675	751
<b>BC</b>	459	502	665	540	589
<b>MB</b>	123	135	134	149	167
<b>NB</b>	87	68	60	49	55
<b>NL</b>	205	245	264	297	285
<b>NS</b>	294	268	255	274	295
<b>ON</b>	1,983	2,474	2,737	3,058	3,523
<b>QC</b>	1,916	2,183	2,538	2,644	3,066
<b>SK</b>	236	241	267	280	327
<b>TOTAL</b>	5,912	6,737	7,576	7,965	9,058

**Table G.2.6 Total full-time equivalent foreign doctoral students by province: 2013 to 2017**

<b>Province</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>
<b>AB</b>	485	719	721	777	842
<b>BC</b>	534	536	643	522	503
<b>MB</b>	123	135	148	153	167
<b>NB</b>	77	57	27	47	27
<b>NL</b>	80	105	125	160	178
<b>NS</b>	48	64	67	69	69
<b>ON</b>	1,358	1,454	1,587	1,634	1,613
<b>QC</b>	1,452	1,503	1,710	1,843	2,047
<b>SK</b>	143	139	187	154	195
<b>TOTAL</b>	4,300	4,712	5,213	5,359	5,641

**Table G.2.7 Total full-time equivalent postgraduate student enrolment by province and discipline: 2017**

<b>Discipline</b>	<b>AB</b>	<b>BC</b>	<b>MB</b>	<b>NB</b>	<b>NL</b>	<b>NS</b>	<b>ON</b>	<b>QC</b>	<b>SK</b>	<b>Total</b>
<b>Biosystems</b>	66	172	78	2		37	494	367	97	1,312
<b>Chemical</b>	690			35		31	876	390	53	2,076
<b>Civil</b>	486	303	128	29	92	55	1,423	1,247	110	3,872
<b>Computer</b>	97	11			87		235	175	39	644
<b>Electrical</b>	379	447	183	33	66	77	2,805	1,828	111	5,929
<b>Engineering Physics</b>	58	117				10	70	151		406
<b>Environmental</b>		27			14	12	227	162	50	491
<b>Geological</b>		4					12			16
<b>Industrial or Manufacturing</b>			10			26	177	477	59	748
<b>Materials or Metallurgical</b>	103	93				16	187	239		638
<b>Mechanical</b>	498	449	109	43	65	30	2,211	1,182	147	4,733
<b>Mining or Mineral</b>	46	81				7	63	99		296
<b>Software</b>							79	355	21	456
<b>Other</b>	157	-24		49	248	223	936	1,616	85	3,289



**Table G.2.8 Total full-time equivalent female postgraduate student enrolment by province and discipline: 2017**

<b>Discipline</b>	<b>AB</b>	<b>BC</b>	<b>MB</b>	<b>NB</b>	<b>NL</b>	<b>NS</b>	<b>ON</b>	<b>QC</b>	<b>SK</b>	<b>Total</b>
<b>Biosystems</b>	28	63	30	1		20	205	156	32	534
<b>Chemical</b>	243			7		10	313	141	20	735
<b>Civil</b>	159	82	33	8	20	21	419	357	34	1,132
<b>Computer</b>	28	5			15		55	37	11	150
<b>Electrical</b>	88	117	45	6	10	9	701	431	11	1,417
<b>Engineering Physics</b>	15	42				3	11	30		101
<b>Environmental</b>		7			5	7	105	79	26	228
<b>Geological</b>		1					4			6
<b>Industrial or Manufacturing</b>			3			7	19	143	10	181
<b>Materials or Metallurgical</b>	32	29				4	45	68		178
<b>Mechanical</b>	91	75	17	7	6	4	338	175	15	729
<b>Mining or Mineral</b>	4	25				2	17	31		78
<b>Software</b>							20	116	6	142
<b>Other</b>	39	-12		12	43	38	250	370	25	765

**Table G.3.1 Total full-time postgraduate students by institution: 2013 to 2017**

<b>Institution</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>
<b>Alberta</b>	1,493	1,344	1,317	1,334	1,383
<b>Calgary</b>	898	788	998	989	1,046
<b>Carleton</b>	717	727	757	831	847
<b>Concordia</b>	1,752	1,879	2,102	2,184	2,492
<b>Dal</b>	520	487	489	506	518
<b>ETS</b>	918	1,116	1,249	1,287	1,296
<b>Guelph</b>	128	155	161	169	195
<b>Lakehead</b>	41	56	74	158	
<b>Laurentian</b>	31	50	37	42	44
<b>Laval</b>	531	531	494	504	519
<b>Manitoba</b>	429	452	477	488	499
<b>McGill</b>	969	842	846	872	1,109
<b>McMaster</b>	639	697	731	741	795
<b>Moncton</b>	15	10	18	15	25
<b>MUN</b>	363	423	465	547	550
<b>NSAC</b>		0		0	
<b>Ottawa</b>	810	918	904	885	860
<b>Polytechnique</b>	1,288	1,314	1,400	1,413	1,455
<b>Queen's</b>	446	471	468	456	331
<b>Regina</b>	182	188	231	179	216
<b>RMC</b>	88	92	95	86	70
<b>Ryerson</b>	707	551	584	600	656
<b>Saskatchewan</b>	342	324	425	463	521
<b>SFU</b>	190	194	181	177	173
<b>Sherbrooke</b>	492	485	540	544	486
<b>SMU</b>		2	7	7	4
<b>Toronto</b>	1,688	1,839	1,900	1,989	2,040
<b>UBC</b>	1,074	1,037	984	917	992
<b>UBCO</b>	142	164	549	202	192
<b>UNB</b>	221	166	163	186	148

<b>UOIT</b>	214	158	174	191	172
<b>UQAC</b>	147	94	211	196	383
<b>UQAM</b>		18			
<b>UQAR</b>	15	22	25	35	53
<b>UQAT</b>	23	28	29	57	64
<b>UQTR</b>	110	117	125	126	118
<b>UVic</b>	324	304	337	335	264
<b>Waterloo</b>	1,339	1,290	1,261	1,310	1,409
<b>Western</b>	574	582	708	657	757
<b>Windsor</b>	628	670	717	885	1,228
<b>York</b>	6	17	24	46	74
<b>TOTAL</b>	20,493	20,601	22,254	22,610	23,984

Institution	2013	2014	2015	2016	2017
Alberta	0	0	0	0	78
Calgary	158	33	0	261	242
Carleton	139	140	128	120	106
Concordia	87	107	136	124	89
Dal	12	40	13	29	22
ETS	364	387	365	324	323
Guelph	27	28	24	24	29
Lakehead	1	0	0	0	
Laurentian	26	0	1	10	7
Laval	41	39	42	31	33
Manitoba	43	37	31	35	33
McGill	0	48	56	55	73
McMaster	433	107	97	65	64
Moncton	0	9	6	6	0
MUN	58	76	76	72	62
NSAC		0		0	
Ottawa	101	109	131	93	79
Polytechnique	112	114	127	126	126
Queen's	50	35	34	36	20
Regina	41	38	39	44	63
RMC	17	23	25	26	28
Ryerson	150	79	72	70	68
Saskatchewan	0	0	0	0	0
SFU	14	18	27	27	46
Sherbrooke	145	0	0	221	115
SMU		0	0	1	1
Toronto	201	168	146	153	155
UBC	26	105	105	193	81
UBCO	0	0	2	2	14
UNB	41	42	45	31	17
UOIT	63	61	72	65	70
UQAC	0	5	0	8	16
UQAM		0			
UQAR	2	0	1	0	0
UQAT	0	2	2	0	0

UQTR	114	76	38	19	18
UVic	0	0	0	0	-12
Waterloo	375	304	278	277	284
Western	37	27	29	11	48
Windsor	23	28	23	20	17
York	2	3	4	13	13
TOTAL	2,904	2,286	2,175	2,591	2,431

**Table G.3.3**  
**Total full-time female postgraduate students by institution: 2013 to 2017**

Institution	2013	2014	2015	2016	2017
Alberta	438	378	347	341	371
Calgary	246	219	268	304	320
Carleton	152	163	177	208	234
Concordia	391	440	489	529	637
Dal	88	89	108	115	124
ETS	186	270	293	320	325
Guelph	30	43	49	47	53
Lakehead	4	9	14	29	
Laurentian	3	10	8	9	13
Laval	116	116	127	133	141
Manitoba	97	108	109	117	127
McGill	206	194	197	211	319
McMaster	171	186	190	197	219
Moncton	2	2	4	3	6
MUN	89	97	98	104	95
NSAC		0		0	
Ottawa	203	252	245	233	244
Polytechnique	379	380	378	383	419
Queen's	100	104	105	109	85
Regina	53	55	52	53	68
RMC	17	15	15	16	11
Ryerson	115	117	133	156	163
Saskatchewan	89	86	107	109	113
SFU	41	45	46	49	50
Sherbrooke	83	87	88	96	91
SMU		0	0	0	0
Toronto	440	492	527	547	557
UBC	262	261	258	243	276
UBCO	23	20	68	25	37
UNB	56	34	44	43	34
UOIT	41	33	38	32	34
UQAC	40	29	66	53	81
UQAM		2			
UQAR	1	2	3	5	5
UQAT	4	4	5	11	11

UQTR	28	26	29	27	23
UVic	53	53	60	77	60
Waterloo	303	292	286	326	369
Western	146	152	190	176	250
Windsor	110	105	126	152	179
York	1	5	7	12	23
TOTAL	4,806	4,975	5,352	5,598	6,166

**Table G.3.4 Total part-time female postgraduate students by institution: 2013 to 2017**

<b>Institution</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>
<b>Alberta</b>	0	0	0	0	19
<b>Calgary</b>	24	6	0	60	57
<b>Carleton</b>	24	31	30	19	20
<b>Concordia</b>	13	18	23	26	18
<b>Dal</b>	3	1	2	5	4
<b>ETS</b>	80	90	80	67	74
<b>Guelph</b>	11	12	8	8	12
<b>Lakehead</b>	0	0	0	0	
<b>Laurentian</b>	4	0	0	2	0
<b>Laval</b>	6	8	7	10	9
<b>Manitoba</b>	8	8	5	7	7
<b>McGill</b>	0	6	9	14	24
<b>McMaster</b>	70	23	17	13	10
<b>Moncton</b>	0	2	2	2	0
<b>MUN</b>	11	13	9	9	10
<b>NSAC</b>		0		0	
<b>Ottawa</b>	20	27	32	24	23
<b>Polytechnique</b>	30	40	43	37	37
<b>Queen's</b>	11	6	6	5	2
<b>Regina</b>	10	10	9	10	16
<b>RMC</b>	0	7	6	6	2
<b>Ryerson</b>	19	14	11	7	8
<b>Saskatchewan</b>	0	0	0	0	0
<b>SFU</b>	1	2	4	6	13
<b>Sherbrooke</b>	32	0	0	42	21
<b>SMU</b>		0	0	0	0
<b>Toronto</b>	47	38	28	27	28
<b>UBC</b>	8	28	30	46	24
<b>UBCO</b>	0	0	0	0	1
<b>UNB</b>	10	10	10	7	2
<b>UOIT</b>	12	8	11	9	11
<b>UQAC</b>	0	3	0	2	2
<b>UQAM</b>		0			
<b>UQAR</b>	1	0	0	0	0
<b>UQAT</b>	0	0	0	0	0
<b>UQTR</b>	64	44	18	6	3
<b>UVic</b>	0	0	0	0	-6
<b>Waterloo</b>	70	56	53	60	68
<b>Western</b>	11	6	8	2	14

<b>Windsor</b>	2	2	2	3	4
<b>York</b>	1	2	1	3	4
<b>TOTAL</b>	603	520	462	545	539

Table G.3.5 Total full-time postgraduate students by institution and discipline: 2017

Institution	Biosystems	Chemical	Civil	Computer	Electrical	Engineering Physics	Environmental	Geological	Industrial or Manufacturing	Materials or Metallurgical	Mechanical	Mining or Mineral	Software	Other
Alberta	-12	220	336	94	181	57				100	285	45		77
Calgary	90	414	119		179						170			73
Carleton			123	9	400		37			5	106		37	130
Concordia			586		857				169		432		306	142
Dal	37	31	55		77	5	12		26	16	30	7		223
ETS			94		124		71		45		87		33	843
Guelph	30			41			85				39			
Laurentian												44		
Laval		76	103		111		48			62	105	12		2
Manitoba	77		125		179				10		109			
McGill	264	113	97		294					148	189			5
McMaster	58	85	69	81	126	58			8	64	113		40	93
Moncton														25
MUN			89	85	62		14				61			240
Ottawa	33	93	156		328		68				114			68
Polytechnique	96	120	173	172	189	151			201	24	198	86		46
Queen's		52	68		78	11		12			94	16		
Regina				31			41		51				18	76
RMC		15	9		29						6			11
Ryerson	28	37	129	78	159						105			118
Saskatchewan	97	53	110		111		4				147			
SFU						91					83			
Sherbrooke		57	130		151						137			11
SMU						4								
Toronto	265	227	275		485					87	538			163
UBC	170		193		295		27	3		93	136	75		
UBCO			82		48						62			
UNB	2	33	26		30						39			19
UOIT					66						70			36
UQAC							36							347
UQAR														53
UQAT														64
UQTR		21			51				33		13			
UVic			18	11	97						151			-12
Waterloo		206	185		445						314			258
Western	74	148	208		222						106			
Windsor			115		372		29		166	30	516			
York			30	14							30			
<b>TOTAL</b>	<b>1,307</b>	<b>1,999</b>	<b>3,701</b>	<b>616</b>	<b>5,746</b>	<b>377</b>	<b>471</b>	<b>15</b>	<b>708</b>	<b>629</b>	<b>4,585</b>	<b>285</b>	<b>433</b>	<b>3,112</b>

**Table G.3.6 Total part-time postgraduate students by institution and discipline: 2017**

<b>Institution</b>	<b>Biosystems</b>	<b>Chemical</b>	<b>Civil</b>	<b>Computer</b>	<b>Electrical</b>	<b>Engineering Physics</b>	<b>Environmental</b>	<b>Geological</b>	<b>Mechanical</b>	<b>Industrial or Manufacturing</b>	<b>Materials or Metallurgical</b>	<b>Mining or Mineral</b>	<b>Software</b>	<b>Other</b>
<b>Alberta</b>	-12	16	38	1	7					4	20	1		3
<b>Calgary</b>		105	23		40						66			8
<b>Carleton</b>			20	1	55		6			1	11			12
<b>Concordia</b>			33		17			2			11		13	13
<b>Dal</b>	1	1	4		4	1		3			0			8
<b>ETS</b>			53		43		16	12			19		17	163
<b>Guelph</b>	5			5			18				2			
<b>Laurentian</b>												7		
<b>Laval</b>			10		7		3		5	5	1			2
<b>Manitoba</b>	3		9		16			1		5				
<b>McGill</b>	13	4	14		11				6	7				18
<b>McMaster</b>		1	8	8	8	2		6	0	8		6		16
<b>Moncton</b>														
<b>MUN</b>			8	6	12						11			25
<b>Ottawa</b>	1	4	10		38		2				8			17
<b>Polytechnique</b>	2	4	26	7	18	1		43		6	2			17
<b>Queen's</b>		1	3		7	0				5	5			
<b>Regina</b>				14			10	16				7		16
<b>RMC</b>		9	2		16									1
<b>Ryerson</b>	2	2	14	8	19						11			13
<b>Saskatchewan</b>														
<b>SFU</b>						33					13			
<b>Sherbrooke</b>														115
<b>SMU</b>						1								
<b>Toronto</b>	5	8	39		53				2	44				5
<b>UBC</b>	12		22		17	1	4		1	7	17			
<b>UBCO</b>			6		4						4			
<b>UNB</b>		2	3		3						4			5
<b>UOIT</b>					13						23			34
<b>UQAC</b>							0							16
<b>UQAR</b>														
<b>UQAT</b>														
<b>UQTR</b>		1			7			8		2				
<b>UVic</b>														-12
<b>Waterloo</b>		15	40		87						54			88
<b>Western</b>	4	8	14		12			0			9			
<b>Windsor</b>			5		3	1		2	1	4				
<b>York</b>			6	5							2			
<b>TOTAL</b>	<b>37</b>	<b>181</b>	<b>411</b>	<b>54</b>	<b>516</b>	<b>38</b>	<b>57</b>	<b>4</b>	<b>94</b>	<b>21</b>	<b>360</b>	<b>32</b>	<b>44</b>	<b>583</b>

Table G.3.7 Total full-time female postgraduate students by institution and discipline: 2017

Institution	Biosystems	Chemical	Civil	Computer	Electrical	Engineering Physics	Environmental	Geological Mechanical	Industrial or Manufacturing	Materials or Metallurgical	Mining or Mineral	Software	Other	
Alberta	-6	89	107	27	32	15			31	53	4		19	
Calgary	40	135	43		51					33			18	
Carleton			29	7	121		22		1	17		10	27	
Concordia			164		252			32		49		107	33	
Dal	20	10	21		9	3	7	7	4	4	2		38	
ETS			23		20		41	10		7		7	218	
Guelph	10			9			31			4				
Laurentian											13			
Laval		22	29		19		23		21	24	3			
Manitoba	30		32		45			3		17				
McGill	112	44	32		61				40	29			2	
McMaster	27	26	18	17	30	10		1	24	21		10	35	
Moncton													6	
MUN			19	15	10		5			5			42	
Ottawa	11	35	32		106		34			10			17	
Polytechnique	40	50	62	36	37	30		83	6	41	28		7	
Queen's		21	19		14	1		4		22	3			
Regina				8			23	9				5	23	
RMC		4	2		1					3			1	
Ryerson	13	13	38	16	38					21			24	
Saskatchewan	32	20	34		11		1			15				
SFU						34				16				
Sherbrooke		19	29		20					23				
SMU														
Toronto	114	89	90		104				15	122			22	
UBC	62		61		69		7	1	29	23	24			
UBCO			15		15					7				
UNB	1	7	8		6					7			5	
UOIT					14					8			12	
UQAC							11						70	
UQAR													5	
UQAT													11	
UQTR		6			8			8		1				
UVic			4	5	31					27			-6	
Waterloo		61	62		100					49			96	
Western	28	62	84		54					23				
Windsor			17		106		14	17	4	20				
York			11	3						8				
<b>TOTAL</b>	<b>533</b>	<b>711</b>	<b>1,085</b>	<b>142</b>	<b>1,383</b>	<b>93</b>	<b>219</b>	<b>5</b>	<b>170</b>	<b>176</b>	<b>708</b>	<b>77</b>	<b>139</b>	<b>726</b>



**Table G.3.8 Total part-time female postgraduate enrolment by institution and discipline: 2017**

<b>Institution</b>	<b>Biosystems</b>	<b>Chemical</b>	<b>Civil</b>	<b>Computer</b>	<b>Electrical</b>	<b>Engineering Physics</b>	<b>Environmental</b>	<b>Geological</b>	<b>Mechanical</b>	<b>Industrial or Manufacturing Materials or Metallurgical</b>	<b>Mining or Mineral Software</b>	<b>Other</b>	
<b>Alberta</b>	-6	9	7		3					1	5		
<b>Calgary</b>		31	8		11					6		1	
<b>Carleton</b>			2	1	8	4				1	4		
<b>Concordia</b>			8		5					1		1	3
<b>Dal</b>					1			1					2
<b>ETS</b>			13		8	9	2					1	41
<b>Guelph</b>	2					9							
<b>Laurentian</b>													
<b>Laval</b>			3		4	1			1				
<b>Manitoba</b>	1		4		2					1			
<b>McGill</b>	8	1	4		3					2	1		4
<b>McMaster</b>		0	3	1	0			1		2		1	2
<b>Moncton</b>													
<b>MUN</b>			2							4			3
<b>Ottawa</b>	1	2	1		12	1				1			6
<b>Polytechnique</b>	1	0	9	2	4			17		1	1		1
<b>Queen's</b>					0					1	1		
<b>Regina</b>				6		4	1					2	4
<b>RMC</b>		2											
<b>Ryerson</b>	0		2	2	1					2			1
<b>Saskatchewan</b>													
<b>SFU</b>						11				2			
<b>Sherbrooke</b>													21
<b>SMU</b>													
<b>Toronto</b>	1	2	10		6					1	8		0
<b>UBC</b>	6		6		5	1	2			1	1	2	
<b>UBCO</b>			1								0		
<b>UNB</b>		0	0		0						0		1
<b>UOIT</b>					2						2		6
<b>UQAC</b>						0							2
<b>UQAR</b>													
<b>UQAT</b>													
<b>UQTR</b>								3					
<b>UVic</b>													-6
<b>Waterloo</b>		2	13		10					8			34
<b>Western</b>	1	2	8		1					1			
<b>Windsor</b>			2		0			2					
<b>York</b>			1	2						1			

<b>TOTAL</b>	15	52	108	14	88	11	29	2	27	7	52	4	5	127
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## Post-graduate Degrees Awarded (GD)

**Table GD.1.1 Total master's degrees awarded by discipline: 2013 to 2017**

<b>Discipline</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>
<b>Biosystems</b>	186	153	159	160	270
<b>Chemical</b>	424	469	463	492	468
<b>Civil</b>	879	902	874	939	1,054
<b>Computer</b>	183	168	185	171	165
<b>Electrical</b>	1,441	1,619	1,539	1,796	1,801
<b>Engineering Physics</b>	75	64	61	67	72
<b>Environmental</b>	129	152	180	200	142
<b>Geological</b>	8	9	11	14	18
<b>Industrial or Manufacturing</b>	236	237	268	204	218
<b>Materials or Metallurgical</b>	97	119	93	90	96
<b>Mechanical</b>	834	950	1,062	1,255	1,296
<b>Mining or Mineral</b>	88	56	83	83	70
<b>Software</b>	88	124	149	173	157
<b>Other</b>	828	945	1,126	895	1,017
<b>Year One/Two Common Year</b>		11	0	0	
<b>TOTAL</b>	5,496	5,978	6,253	6,539	6,844

**Table GD.1.2 Total doctoral degrees awarded by discipline: 2013 to 2017**

<b>Discipline</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>
<b>Biosystems</b>	60	50	66	62	102
<b>Chemical</b>	169	185	174	200	219
<b>Civil</b>	187	171	213	259	234
<b>Computer</b>	22	28	32	32	34
<b>Electrical</b>	389	384	368	387	440
<b>Engineering Physics</b>	43	48	36	33	30
<b>Environmental</b>	14	18	20	19	24
<b>Geological</b>	0	1	1	1	2
<b>Industrial or Manufacturing</b>	24	27	31	34	40
<b>Materials or Metallurgical</b>	48	71	49	37	71
<b>Mechanical</b>	236	260	264	290	352
<b>Mining or Mineral</b>	29	14	18	27	16
<b>Software</b>	3	3	3	2	3
<b>Other</b>	106	124	146	163	146
<b>Year One/Two Common Year</b>		5	0	0	
<b>TOTAL</b>	1,330	1,389	1,421	1,546	1,713

**Table GD.1.3 Total master's degrees awarded to women by discipline: 2013 to 2017**

<b>Discipline</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>
<b>Biosystems</b>	74	66	63	69	111
<b>Chemical</b>	145	180	167	187	154
<b>Civil</b>	214	247	235	299	283
<b>Computer</b>	31	35	45	30	26
<b>Electrical</b>	305	354	363	432	495
<b>Engineering Physics</b>	16	14	14	16	14

<b>Environmental</b>	48	69	77	101	61
<b>Geological</b>	2	4	4	5	8
<b>Industrial or Manufacturing</b>	104	71	99	49	66
<b>Materials or Metallurgical</b>	30	39	26	30	21
<b>Mechanical</b>	105	132	146	190	185
<b>Mining or Mineral</b>	16	17	17	17	18
<b>Software</b>	15	23	40	36	45
<b>Other</b>	170	195	238	204	253
<b>Year One/Two Common Year</b>		7	0	0	
<b>TOTAL</b>	1,275	1,453	1,534	1,665	1,740

**Table GD.1.4 Total doctoral degrees awarded to women by discipline: 2013 to 2017**

<b>Discipline</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>
<b>Biosystems</b>	25	16	21	21	36
<b>Chemical</b>	39	65	61	72	71
<b>Civil</b>	32	31	49	63	67
<b>Computer</b>	6	7	3	11	7
<b>Electrical</b>	45	54	60	62	83
<b>Engineering Physics</b>	4	8	12	11	4
<b>Environmental</b>	3	4	4	7	12
<b>Geological</b>	0	0	0	0	0
<b>Industrial or Manufacturing</b>	3	7	9	8	7
<b>Materials or Metallurgical</b>	10	21	15	13	21
<b>Mechanical</b>	34	49	49	53	56
<b>Mining or Mineral</b>	5	1	3	8	8
<b>Software</b>	2	2	0	0	0
<b>Other</b>	12	23	28	37	29
<b>Year One/Two Common Year</b>		0	0	0	
<b>TOTAL</b>	220	288	314	366	401

**Table GD.1.5 Total master's degrees awarded to foreign students by discipline: 2013 to 2017**

<b>Discipline</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>
<b>Biosystems</b>	61	61	50	55	78
<b>Chemical</b>	156	248	264	263	278
<b>Civil</b>	269	328	354	413	447
<b>Computer</b>	74	99	95	105	73
<b>Electrical</b>	756	1,031	966	1,237	1,312
<b>Engineering Physics</b>	24	20	22	30	24
<b>Environmental</b>	69	78	107	118	75
<b>Geological</b>	2	2	2	6	5
<b>Industrial or Manufacturing</b>	83	114	120	108	160
<b>Materials or Metallurgical</b>	48	52	39	50	46
<b>Mechanical</b>	314	436	530	748	776
<b>Mining or Mineral</b>	38	37	47	39	36
<b>Software</b>	51	75	118	136	106
<b>Other</b>	426	551	723	601	643
<b>Year One/Two Common Year</b>		9	0	0	
<b>TOTAL</b>	2,371	3,141	3,437	3,909	4,059

**Table GD.1.6 Total doctoral degrees awarded to foreign students by discipline: 2013 to 2017**

<b>Discipline</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>
<b>Biosystems</b>	13	11	15	17	35
<b>Chemical</b>	56	56	65	93	103
<b>Civil</b>	35	48	84	88	96
<b>Computer</b>	6	10	12	12	20
<b>Electrical</b>	110	122	137	180	252
<b>Engineering Physics</b>	11	18	13	11	13
<b>Environmental</b>	4	9	11	4	14
<b>Geological</b>	0	0	0	0	0
<b>Industrial or Manufacturing</b>	5	10	12	12	17
<b>Materials or Metallurgical</b>	20	28	20	22	43
<b>Mechanical</b>	60	96	97	129	192
<b>Mining or Mineral</b>	9	5	5	11	6
<b>Software</b>	2	2	1	0	2
<b>Other</b>	31	44	72	63	68
<b>Year One/Two Common Year</b>		4	0	0	
<b>TOTAL</b>	362	463	544	642	861

**Table GD.2.1 Total master's degrees awarded by province: 2013 to 2017**

<b>Province</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>
<b>AB</b>	460	494	433	407	410
<b>BC</b>	340	317	345	380	377
<b>MB</b>	62	74	89	76	78
<b>NB</b>	50	67	24	54	64
<b>NL</b>	103	120	131	134	48
<b>NS</b>	173	217	341	133	183
<b>ON</b>	2,652	2,905	3,057	3,330	3,494
<b>PE</b>					0
<b>QC</b>	1,537	1,644	1,689	1,885	2,054
<b>SK</b>	119	140	144	140	136
<b>TOTAL</b>	5,496	5,978	6,253	6,539	6,844

**Table GD.2.2 Total doctoral degrees awarded by province: 2013 to 2017**

<b>Province</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>
<b>AB</b>	203	221	153	205	188
<b>BC</b>	126	111	116	117	122
<b>MB</b>	28	29	27	52	41
<b>NB</b>	18	16	11	11	12
<b>NL</b>	12	14	19	16	17
<b>NS</b>	16	18	19	26	24
<b>ON</b>	552	520	615	651	796
<b>PE</b>					0
<b>QC</b>	354	425	425	438	484
<b>SK</b>	21	35	36	30	29
<b>TOTAL</b>	1,330	1,389	1,421	1,546	1,713

**Table GD.2.3 Total master's degrees awarded to women by province: 2013 to 2017**

Province	2013	2014	2015	2016	2017
<b>AB</b>	106	145	116	139	122
<b>BC</b>	87	75	70	79	96
<b>MB</b>	14	14	21	21	20
<b>NB</b>	12	17	5	9	19
<b>NL</b>	28	28	34	36	7
<b>NS</b>	27	26	40	28	45
<b>ON</b>	578	732	755	892	872
<b>PE</b>					0
<b>QC</b>	389	370	451	423	524
<b>SK</b>	34	46	42	38	35
<b>TOTAL</b>	1,275	1,453	1,534	1,665	1,740

**Table GD.2.4 Total doctoral degrees awarded to women by province: 2013 to 2017**

Province	2013	2014	2015	2016	2017
<b>AB</b>	31	44	35	46	41
<b>BC</b>	27	25	20	24	21
<b>MB</b>	4	6	3	6	11
<b>NB</b>	3	4	3	4	5
<b>NL</b>	2	3	0	3	4
<b>NS</b>	5	4	4	12	3
<b>ON</b>	90	103	143	152	183
<b>PE</b>					0
<b>QC</b>	51	90	100	112	121
<b>SK</b>	7	9	6	7	12
<b>TOTAL</b>	220	288	314	366	401

**Table GD.2.5 Total master's degrees awarded to foreign students by province: 2013 to 2017**

Province	2013	2014	2015	2016	2017
<b>AB</b>	215	279	242	231	220
<b>BC</b>	164	142	177	235	211
<b>MB</b>	28	48	46	41	43
<b>NB</b>	31	35	20	31	32
<b>NL</b>	87	103	113	112	38
<b>NS</b>	137	173	284	96	139
<b>ON</b>	946	1,398	1,532	1,902	2,030
<b>PE</b>					0
<b>QC</b>	676	862	908	1,153	1,254
<b>SK</b>	87	101	115	108	92
<b>TOTAL</b>	2,371	3,141	3,437	3,909	4,059

**Table GD.2.6 Total doctoral degrees awarded to foreign students by province: 2013 to 2017**

Province	2013	2014	2015	2016	2017
<b>AB</b>	66	84	77	100	104
<b>BC</b>	46	57	64	58	58

<b>MB</b>	5	9	12	23	20
<b>NB</b>	12	7	7	6	4
<b>NL</b>	3	8	5	4	13
<b>NS</b>	3	5	5	7	9
<b>ON</b>	106	134	186	221	349
<b>PE</b>					0
<b>QC</b>	110	133	167	214	288
<b>SK</b>	11	26	21	9	16
<b>TOTAL</b>	362	463	544	642	861

Table GD.2.7 Total master's degrees awarded by province and discipline: 2017

Discipline	AB	BC	MB	NB	NL	NS	ON	QC	SK	Total
<b>Biosystems</b>	18	46	5			6	100	82	13	270
<b>Chemical</b>	113			21		14	261	51	8	468
<b>Civil</b>	86	92	28	9	3	14	444	364	14	1,054
<b>Computer</b>	8	2			7		85	50	13	165
<b>Electrical</b>	49	98	23	13	6	9	1,079	502	22	1,801
<b>Engineering Physics</b>	7	23				6	18	18		72
<b>Environmental</b>		1			7	5	73	44	12	142
<b>Geological</b>		11					7			18
<b>Industrial or Manufacturing</b>			2			7	64	131	14	218
<b>Materials or Metallurgical</b>	13	10				2	45	26		96
<b>Mechanical</b>	82	72	20	10	3	16	824	256	13	1,296
<b>Mining or Mineral</b>	11	22				1	22	14		70
<b>Software</b>							9	141	7	157
<b>Other</b>	23			11	22	103	463	375	20	1,017
<b>TOTAL</b>	410	377	78	64	48	183	3,494	2,054	136	6,844

Table GD.2.8 Total doctoral degrees awarded by province and discipline: 2017

Discipline	AB	BC	MB	NB	NL	NS	ON	QC	SK	Total
<b>Biosystems</b>	9	12	1			3	43	30	4	102
<b>Chemical</b>	34			2		1	122	55	5	219
<b>Civil</b>	35	15	5	1	4	3	117	50	4	234
<b>Computer</b>	8				4		7	14	1	34
<b>Electrical</b>	37	38	19	2	3	8	237	95	1	440
<b>Engineering Physics</b>	6	6				2	5	11		30
<b>Environmental</b>							13	5	6	24
<b>Geological</b>		2								2
<b>Industrial or Manufacturing</b>			15			2	2	20	1	40
<b>Materials or Metallurgical</b>	13	7				2	16	33		71
<b>Mechanical</b>	23	37	1	2		3	190	93	3	352
<b>Mining or Mineral</b>	5	5					5	1		16
<b>Software</b>							2	1		3
<b>Other</b>	18			5	6		37	76	4	146
<b>TOTAL</b>	188	122	41	12	17	24	796	484	29	1,713

Table GD.3.1 Total master's degrees awarded by institution: 2013 to 2017

Institution	2013	2014	2015	2016	2017
<b>Acadia</b>		0			
<b>Alberta</b>	281	279	239	198	207

<b>BCIT</b>	0	0	0	0	0
<b>Calgary</b>	179	215	194	209	203
<b>Carleton</b>	193	230	251	258	236
<b>Concordia</b>	572	626	667	783	782
<b>Conestoga</b>	0	0	0	0	0
<b>Dal</b>	173	205	341	131	178
<b>ETS</b>	259	293	385	391	367
<b>Guelph</b>	44	44	46	50	47
<b>Lakehead</b>	16	0	8	18	
<b>Laurentian</b>	61	0	11	8	10
<b>Laval</b>	70	70	60	86	63
<b>Manitoba</b>	62	74	89	76	78
<b>McGill</b>	157	124	153	160	232
<b>McMaster</b>	255	230	250	218	225
<b>Moncton</b>	2	4	0	5	3
<b>MUN</b>	103	120	131	134	48
<b>NSAC</b>		11	0	0	
<b>Ottawa</b>	241	465	414	532	426
<b>Polytechnique</b>	281	334	222	304	360
<b>Queen's</b>	113	106	118	151	136
<b>Regina</b>	60	76	83	80	66
<b>RMC</b>	22	19	16	24	4
<b>Ryerson</b>	295	189	176	162	221
<b>Saskatchewan</b>	59	64	61	60	70
<b>SFU</b>	38	28	31	31	34
<b>Sherbrooke</b>	65	90	91	79	139
<b>SMU</b>		1		2	5
<b>Toronto</b>	496	540	631	669	676
<b>UBC</b>	251	237	237	248	246
<b>UBCO</b>	20	24	37	41	33
<b>UNB</b>	48	63	24	49	61
<b>UNBC</b>	0	0	0	0	0
<b>UOIT</b>	30	36	39	79	61
<b>UPEI</b>					0
<b>UQAC</b>	8	12	8	33	63
<b>UQAM</b>	0	5			
<b>UQAR</b>	8	2	5	8	12
<b>UQAT</b>	19	10	5	0	12
<b>UQO</b>	0	0	0	0	
<b>UQTR</b>	98	78	93	41	24
<b>UVic</b>	31	28	40	60	64
<b>Waterloo</b>	502	486	480	416	450
<b>Western</b>	131	187	217	286	457
<b>Windsor</b>	253	373	396	451	526
<b>York</b>		0	4	8	19
<b>TOTAL</b>	5,496	5,978	6,253	6,539	6,844

Table GD.3.2 Total doctoral degrees awarded by institution: 2013 to 2017

<b>Institution</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>
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<b>Acadia</b>		0			
<b>Alberta</b>	111	126	83	120	117
<b>BCIT</b>	0	0	0	0	0
<b>Calgary</b>	92	95	70	85	71
<b>Carleton</b>	36	30	36	41	42
<b>Concordia</b>	60	53	56	74	54
<b>Conestoga</b>	0	0	0	0	0
<b>Dal</b>	16	13	19	26	24
<b>ETS</b>	35	44	58	62	56
<b>Guelph</b>	9	7	12	10	12
<b>Lakehead</b>	0	0	0	0	
<b>Laurentian</b>	31	0	3	4	5
<b>Laval</b>	33	33	40	35	53
<b>Manitoba</b>	28	29	27	52	41
<b>McGill</b>	100	120	106	94	113
<b>McMaster</b>	40	36	65	69	79
<b>Moncton</b>	0	0	0	0	0
<b>MUN</b>	12	14	19	16	17
<b>NSAC</b>		5	0	0	
<b>Ottawa</b>	21	39	25	44	62
<b>Polytechnique</b>	88	117	95	107	122
<b>Queen's</b>	46	36	48	40	36
<b>Regina</b>	7	17	10	13	10
<b>RMC</b>	4	6	3	7	5
<b>Ryerson</b>	42	39	44	43	46
<b>Saskatchewan</b>	14	18	26	17	19
<b>SFU</b>	12	12	24	23	14
<b>Sherbrooke</b>	27	42	48	36	56
<b>SMU</b>		0		0	0
<b>Toronto</b>	106	110	152	150	178
<b>UBC</b>	93	67	50	42	57
<b>UBCO</b>	7	7	15	17	21
<b>UNB</b>	18	16	11	11	12
<b>UNBC</b>	0	0	0	0	0
<b>UOIT</b>	10	16	14	13	16
<b>UPEI</b>					0
<b>UQAC</b>	5	9	14	19	16
<b>UQAM</b>	0	0			
<b>UQAR</b>	0	0	0	0	0
<b>UQAT</b>	0	0	0	0	0
<b>UQO</b>	0	0	0	0	
<b>UQTR</b>	6	7	8	11	14
<b>UVic</b>	14	25	27	35	30
<b>Waterloo</b>	134	125	150	144	127
<b>Western</b>	53	50	40	63	168
<b>Windsor</b>	20	26	23	23	20
<b>York</b>		0	0	0	0
<b>TOTAL</b>	1,330	1,389	1,421	1,546	1,713



**Table GD.3.3 Total master's degrees awarded to women by institution: 2013 to 2017**

<b>Institution</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>
<b>Acadia</b>		0			
<b>Alberta</b>	63	81	66	69	55
<b>BCIT</b>	0	0	0	0	0
<b>Calgary</b>	43	64	50	70	67
<b>Carleton</b>	31	51	56	64	50
<b>Concordia</b>	129	124	179	167	186
<b>Conestoga</b>	0	0	0	0	0
<b>Dal</b>	27	19	40	28	45
<b>ETS</b>	39	54	85	89	99
<b>Guelph</b>	11	11	16	16	18
<b>Lakehead</b>	2	0	1	3	
<b>Laurentian</b>	8	0	1	2	2
<b>Laval</b>	20	20	17	28	15
<b>Manitoba</b>	14	14	21	21	20
<b>McGill</b>	53	31	32	36	74
<b>McMaster</b>	67	90	72	56	58
<b>Moncton</b>	0	0	0	1	0
<b>MUN</b>	28	28	34	36	7
<b>NSAC</b>		7	0	0	
<b>Ottawa</b>	57	125	123	147	110
<b>Polytechnique</b>	74	87	68	63	103
<b>Queen's</b>	32	30	26	39	36
<b>Regina</b>	13	26	26	20	14
<b>RMC</b>	4	2	1	4	0
<b>Ryerson</b>	39	40	41	34	49
<b>Saskatchewan</b>	21	20	16	18	21
<b>SFU</b>	8	5	6	8	10
<b>Sherbrooke</b>	12	10	12	14	26
<b>SMU</b>		0		0	0
<b>Toronto</b>	125	146	164	210	173
<b>UBC</b>	62	60	49	57	67
<b>UBCO</b>	11	6	6	6	4
<b>UNB</b>	12	17	5	8	19
<b>UNBC</b>	0	0	0	0	0
<b>UOIT</b>	5	5	9	19	10
<b>UPEI</b>					0
<b>UQAC</b>	0	4	1	6	12
<b>UQAM</b>	0	0			
<b>UQAR</b>	0	0	0	1	2
<b>UQAT</b>	3	0	0	0	1
<b>UQO</b>	0	0	0	0	
<b>UQTR</b>	59	40	57	19	6
<b>UVic</b>	6	4	9	8	15
<b>Waterloo</b>	123	112	129	98	141
<b>Western</b>	30	53	64	111	144
<b>Windsor</b>	44	67	50	88	76
<b>York</b>		0	2	1	5

<b>TOTAL</b>	1,275	1,453	1,534	1,665	1,740
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**Table GD.3.4 Total doctoral degrees awarded to women by institution: 2013 to 2017**

<b>Institution</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>
<b>Acadia</b>		0			
<b>Alberta</b>	16	22	22	30	25
<b>BCIT</b>	0	0	0	0	0
<b>Calgary</b>	15	22	13	16	16
<b>Carleton</b>	3	1	6	13	7
<b>Concordia</b>	9	12	8	17	9
<b>Conestoga</b>	0	0	0	0	0
<b>Dal</b>	5	4	4	12	3
<b>ETS</b>	3	7	12	19	16
<b>Guelph</b>	1	1	1	4	2
<b>Lakehead</b>	0	0	0	0	
<b>Laurentian</b>	3	0	1	0	2
<b>Laval</b>	0	0	9	6	13
<b>Manitoba</b>	4	6	3	6	11
<b>McGill</b>	14	30	26	17	30
<b>McMaster</b>	9	8	13	11	20
<b>Moncton</b>	0	0	0	0	0
<b>MUN</b>	2	3	0	3	4
<b>NSAC</b>		0	0	0	
<b>Ottawa</b>	4	5	3	11	18
<b>Polytechnique</b>	20	32	25	32	39
<b>Queen's</b>	6	6	11	12	3
<b>Regina</b>	3	5	3	3	2
<b>RMC</b>	0	2	2	2	1
<b>Ryerson</b>	8	9	11	6	9
<b>Saskatchewan</b>	4	4	3	4	10
<b>SFU</b>	0	4	5	5	4
<b>Sherbrooke</b>	3	7	14	9	8
<b>SMU</b>		0		0	0
<b>Toronto</b>	20	23	45	38	47
<b>UBC</b>	24	17	9	14	11
<b>UBCO</b>	1	0	2	1	2
<b>UNB</b>	3	4	3	4	5
<b>UNBC</b>	0	0	0	0	0
<b>UOIT</b>	0	5	2	2	3
<b>UPEI</b>					0
<b>UQAC</b>	1	1	5	6	4
<b>UQAM</b>	0	0			
<b>UQAR</b>	0	0	0	0	0
<b>UQAT</b>	0	0	0	0	0
<b>UQO</b>	0	0	0	0	
<b>UQTR</b>	1	1	1	6	2
<b>UVic</b>	2	4	4	4	4
<b>Waterloo</b>	22	26	37	30	25
<b>Western</b>	8	10	8	19	41

<b>Windsor</b>	6	7	3	4	5
<b>York</b>		0	0	0	0
<b>TOTAL</b>	220	288	314	366	401

**Table GD.3.5 Total master's degrees awarded by institution and discipline: 2017**

<b>Institution</b>	<b>Big systems</b>	<b>Chemical</b>	<b>Civil</b>	<b>Computer</b>	<b>Electrical</b>	<b>Engineering Physics</b>	<b>Environmental</b>	<b>Geological</b>	<b>Industrial or Manufacturing</b>	<b>Materials or Metallurgical</b>	<b>Mechanical</b>	<b>Mining or Mineral</b>	<b>Software</b>	<b>Other</b>
<b>Alberta</b>		6	62											15
<b>BCIT</b>														
<b>Calgary</b>														
<b>Carleton</b>	5		36	4	101		12		2	23				53
<b>Concordia</b>		178		310				39		111		117	27	
<b>Conestoga</b>														
<b>Dal</b>	6	14	14		9	1	5		7	2	16	1		103
<b>ETS</b>			40		36		29		15		33		24	190
<b>Guelph</b>	6			8			27				6			
<b>Laurentian</b>											10			
<b>Laval</b>	4	2	19		13		7		6	11	1			
<b>Manitoba</b>	5		28		23				2		20			
<b>McGill</b>	63	22	36		47					17	36			11
<b>McMaster</b>	11	12	13	15	35	11			2	9	25		9	83
<b>Moncton</b>														3
<b>MUN</b>			3	7	6		7				3			22
<b>Ottawa</b>	8	37	35		147		24				61			114
<b>Polytechnique</b>	15	21	54	50	54	18			70	3	33	13		29
<b>Queen's</b>		18	17		34	7		7			41	12		
<b>Regina</b>				13			12		14				7	20
<b>RMC</b>		2	1											1
<b>Ryerson</b>	4	9	48	50	53						30			27
<b>Saskatchewan</b>	13	8	14		22						13			
<b>SFU</b>						22					12			
<b>Sherbrooke</b>	3	37		31						29			39	
<b>SMU</b>						5								
<b>Toronto</b>	38	66	99		178					27	219			49
<b>UBC</b>	46		84		43	1	1	11		10	28	22		
<b>UBCO</b>			8		16						9			
<b>UNB</b>		21	9		13						10			8
<b>UNBC</b>														
<b>UOIT</b>					13						26			22
<b>UPEI</b>														
<b>UQAC</b>						8								55
<b>UQAR</b>														12
<b>UQAT</b>														12
<b>UQTR</b>		3			11				7		3			
<b>UVic</b>				2	39						23			
<b>Waterloo</b>		52	49		166						69			114

<b>Western</b>	28	65	98		166						100			
<b>Windsor</b>			44		186		10		62	7	217			
<b>York</b>			4	8							7			
<b>TOTAL</b>	270	468	1,054	165	1,801	72	142	18	218	96	1,296	70	157	1,017

Table GD.3.6 Total doctoral degrees awarded by institution and discipline: 2017

<b>Institution</b>	<b>Biosystems</b>	<b>Chemical</b>	<b>Civil</b>	<b>Computer</b>	<b>Electrical</b>	<b>Engineering Physics</b>	<b>Environmental</b>	<b>Geological</b>	<b>Industrial or Manufacturing</b>	<b>Materials or Metallurgical</b>	<b>Mechanical</b>	<b>Mining or Mineral</b>	<b>Software</b>	<b>Other</b>
<b>Alberta</b>		16	28	8	21	6				13	11	5	9	
<b>BCIT</b>														
<b>Calgary</b>	9	18	7		16					12			9	
<b>Carleton</b>			6		29	3				3			1	
<b>Concordia</b>		11		17			6		16		1	3		
<b>Conestoga</b>														
<b>Dal</b>	3	1	3		8	2		2	2	3				
<b>ETS</b>													56	
<b>Guelph</b>	5			1		5				1				
<b>Laurentian</b>										5				
<b>Laval</b>		9	6		7	2			12	17				
<b>Manitoba</b>	1		5		19			15		1				
<b>McGill</b>	15	8	13		39				19	19				
<b>McMaster</b>	6	17	7	6	17	5			7	12		2		
<b>Moncton</b>														
<b>MUN</b>			4	4	3								6	
<b>Ottawa</b>		7	14		29	3				9				
<b>Polytechnique</b>	15	19	8	14	16	11		11	2	21	1		4	
<b>Queen's</b>		9	7		12					8				
<b>Regina</b>				1		4	1						4	
<b>RMC</b>		2			2					1				
<b>Ryerson</b>		3	5		15					18			5	
<b>Saskatchewan</b>	4	5	4		1	2				3				
<b>SFU</b>						6				8				
<b>Sherbrooke</b>	13	12		11					20					
<b>SMU</b>														
<b>Toronto</b>	20	22	28		58				6	35			9	
<b>UBC</b>	12		5		18		2		7	8	5			
<b>UBCO</b>			10		3					8				
<b>UNB</b>		2	1		2					2			5	
<b>UNBC</b>														
<b>UOIT</b>					7					6			3	
<b>UPEI</b>														
<b>UQAC</b>							3						13	
<b>UQAR</b>														

<b>UQAT</b>															
<b>UQTR</b>		6			5			3							
<b>UVic</b>					17					13					
<b>Waterloo</b>		25	25		33					25				19	
<b>Western</b>	12	37	22		30					67					
<b>Windsor</b>			3		5		2	2	3	5					
<b>York</b>															
<b>TOTAL</b>	102	219	234	34	440	30	24	2	40	71	352	16	3	146	

## Faculty Members by institution (F)

Table F.1.1 - Faculty Members by Institution: 2017									
Institution	Male Professors	Female Professors	Male Associate Professors	Female Associate Professors	Male Assistant Professors	Female Assistant Professors	Male Instructors/Lecturers	Female Instructors/Lecturers	Total Full Time Equivalent
<b>Alberta</b>	108	8	37	9	38	9	4.3	13.8	227.1
<b>BCIT</b>	47	7.25	0	0	0	0	0	0	54.25
<b>Calgary</b>	77	10	30	8	23	11			
<b>Cape Breton</b>	2						4	1	
<b>Carleton</b>	55	5	58	12.5	23	4	4	1	162.5
<b>Concordia</b>	83.5	11	41	17	29	4	19	5	209.5
<b>Conestoga</b>	12	2	0	0	0	0	5.5	0	19.5
<b>Dal</b>	43.33	5.33	20.5	6	6	3	15.5	4.4	104.06
<b>ETS</b>	70	12	98.5	17	14	6	163	30	410.5
<b>Guelph</b>	14	3	15.21	4	8.33	3	0	0	47.54
<b>Laurentian</b>	7.5	1	8.5		2		2	1	
<b>Manitoba</b>	35.5	3	15	5	12.09	4.17	5.94	4.22	84.92
<b>McGill</b>	48	6	53	7	13	6	7.7	1.8	142.5
<b>McMaster</b>	81.75	5	26.9	8	14	9	9	2	155.65
<b>Moncton</b>	13	0	3	2	4	1	0	0	23
<b>MUN</b>	25	3	19.49	5	18.6	1.6	5	3	80.69
<b>NSAC</b>	2	0	6	1	1	0	4.67	0.67	15.34
<b>Ottawa</b>	53	10	25	10	15	4	7	1	125
<b>Polytechnique</b>	125	18	46	8	31	4	17	5	254
<b>Queen's</b>	60.2	11.5	37	0.4	8	3.8	6.2	0	127.1
<b>Regina</b>	19	3	7	1	4	2	16	1	53
<b>RMC</b>	24	1	21	2.5	4.5	1.5	19	0	73.5
<b>Ryerson</b>	77	9	29	5	8	4	1	0	133
<b>Saskatchewan</b>	41	3	22		14.05	4	1	2	
<b>SFU</b>	22.5	3	5	3	2	1	8	2	46.5
<b>Sherbrooke</b>	63	5	20	2	10	1	25.9	3.3	130.2
<b>SMU</b>	0	0	1	0	5	0	0	0	6
<b>Toronto</b>	127.47	21	42	14	17	12	18	9	260.47

<b>UBC</b>	95	16	21	3	16	9	25.35	9.34	194.69
<b>UBCO</b>	9	2	12	2	13	1	7	5	51
<b>UNB</b>	35.33	5	12	0.5	6	1	5	0	64.83
<b>UNBC</b>	3.3		1						
<b>UOIT</b>	19	0.75	18	4.5	10	1	10	0	63.25
<b>UPEI</b>	1	0	4	1	6	1.5			
<b>UQAC</b>	14	3	10	2	0	1	16.5	2	48.5
<b>UQAR</b>	10	0	0	0	0	0			
<b>UQAT</b>	7	0	3		1		1	1	
<b>UQO</b>	11	1	3	3	2	0			
<b>UQTR</b>	19	1	9		1		1		
<b>UVic</b>	33	6	18	3	7	2	1	0	70
<b>Waterloo</b>	116.78	17	73.99	14.51	29	10	26	8.5	295.78
<b>Western</b>	49	5	25	6	9	5	9	0	108
<b>Windsor</b>	41.6	3	15.5	4	4	3	5	2	78.1
<b>York</b>	14.5	2	21	3	25	2	3	0	70.5
<b>TOTAL</b>	1,815.26	227.83	933.59	193.91	453.57	135.57	478.56	119.03	3,990.47

## Co-op, Internship, and Professional Experience Programs (C)

**Table C.1.1 - Co-op, Internships and Professional Experience Programs: 2017**

<b>Institution</b>	<b>Type of Program</b>	<b>Mandatory/Optional</b>
<b>Alberta</b>	Co-op	Optional
<b>Calgary</b>	Internship	Optional
<b>Cape Breton</b>	Co-op	Optional
<b>Carleton</b>	Co-op	Optional
<b>Concordia</b>	Co-op & Internship	Optional
<b>Conestoga</b>	Co-op	Mandatory
<b>ETS</b>	Co-op	Mandatory
<b>Guelph</b>	Co-op	Mandatory
<b>Laurentian</b>	Co-op & Internship	Optional
<b>Manitoba</b>	Co-op	Optional
<b>McGill</b>	Co-op & Internship	Varies
<b>McMaster</b>	Co-op	Optional
<b>Moncton</b>	Co-op	Optional
<b>MUN</b>	Co-op	Mandatory
<b>Ottawa</b>	Co-op	Varies
<b>Queen's</b>	Internship	Optional
<b>Ryerson</b>	Co-op & Internship	Varies
<b>Saskatchewan</b>	Internship	Optional
<b>SFU</b>	Co-op	Varies
<b>Sherbrooke</b>	Co-op	Optional
<b>Toronto</b>	Internship	Optional
<b>UBC</b>	Co-op	Optional
<b>UBCO</b>	Co-op	Optional
<b>UNB</b>	Co-op	Optional
<b>UNBC</b>	Co-op	Optional
<b>UQAC</b>	Internship	Optional
<b>UQAR</b>	Co-op	Optional
<b>UQAT</b>	Co-op	Optional
<b>UQTR</b>	Internship	Mandatory
<b>UVic</b>	Co-op	Mandatory
<b>Waterloo</b>	Co-op	Mandatory
<b>Western</b>	Co-op & Internship	Optional
<b>Windsor</b>	Co-op	Optional
<b>York</b>	Co-op	Optional

# Appendix B

## Accredited engineering programs by institution

- This listing of accredited programs includes only engineering programs that lead to a bachelor's degree.
- Institutions listed have voluntarily requested that specific engineering programs be evaluated by the Accreditation Board. The terminology requested by the institution is shown.
- A single date which follows the name of a program indicates the year of the first graduating class for which accreditation applies. Accreditation applies to subsequent years and is still enforced.
- A double date following the name of a program indicates the period (inclusive of both years) for which the program was accredited. This may occur if the institution has discontinued the program under that specific name or has not requested renewal of accreditation or if the Accreditation Board has denied such renewal.
- The appearance of a third date indicates that accreditation has been renewed from that particular year on, after a time interval.

### ACADIA, UNIVERSITY

Wolfville, Nova Scotia

#### *Ivan Curry School of Engineering*

- »Year One – Common 1980-

### ALBERTA, UNIVERSITY OF

Edmonton, Alberta

#### *Faculty of Engineering*

- »Agricultural Engineering 1983-1995
- »Chemical Engineering 1965-
- »Civil Engineering 1965-
- »Computer Engineering 1983-
- »Electrical Engineering 1965-
- »Engineering Physics 1988-
- »Materials Engineering 1999-
- »Mechanical Engineering 1965-
- »Metallurgical Engineering 1965-2000
- »Mineral Engineering 1976-1982
- »Mineral Process Engineering 1983-1991
- »Mining Engineering 1965-1975, 1983-
- »Petroleum Engineering 1978-
- »Year One – Common 1980-

### BRITISH COLUMBIA INSTITUTE OF TECHNOLOGY

Burnaby, British Columbia

- »Civil Engineering 2010-
- »Electrical Engineering 2011-
- »Mechanical Engineering 2014-

### BRITISH COLUMBIA, THE UNIVERSITY OF

Vancouver, British Columbia

#### *Faculty of Applied Science*

- »Agricultural Engineering 1965-1978
- »Bio-Resource Engineering 1979-2001
- »Chemical and Biological Engineering 2003-

### NOVA SCOTIA TECHNICAL COLLEGE

(See Dalhousie University. Nova Scotia Technical College offered accredited engineering programs 1907-1980)

### NOVA SCOTIA, TECHNICAL UNIVERSITY OF

(See Dalhousie University. Technical University of Nova Scotia offered accredited engineering programs 1981-1997)

### ONTARIO INSTITUTE OF TECHNOLOGY, UNIVERSITY OF

Oshawa, Ontario

#### *Faculty of Engineering and Applied Science*

- »Automotive Engineering 2009-
- »Electrical Engineering 2009-
- »Manufacturing Engineering 2007-
- »Mechanical Engineering 2008-
- »Nuclear Engineering 2007-
- »Software Engineering 2009-

### OTTAWA, UNIVERSITY OF

Ottawa, Ontario

#### *Faculty of Engineering*

- »Biomedical Mechanical Engineering 2009-
- »Chemical Engineering 1965-
- »Civil Engineering 1971-
- »Computer Engineering 1990-
- »Electrical Engineering 1965-
- »Mechanical Engineering 1971-
- »Software Engineering 2001-

### PEI, UNIVERSITY OF

Charlottetown, Prince Edward Island

#### *Faculty of Sustainable Design Engineering*

- »Science Engineering (Sustainable Design) 2017-
- »Year One – Common 1985-

### POLYTECHNIQUE, ÉCOLE



- »Chemical Engineering 1965-
- »Civil Engineering 1965-
- »Computer Engineering 2000-
- »Electrical Engineering 1965-
- »Engineering Physics 1965-
- »Environmental Engineering 2007-
- »Geological Engineering 1965-
- »Integrated Engineering 2003-
- »Materials Engineering 2006-
- »Mechanical Engineering 1965-
- »Metallurgical Engineering 1965-1987
- »Metals and Materials Engineering 1988-2005
- »Mineral Engineering 1965-1979
- »Mining and Mineral Process Engineering 1980-2005
- »Mining Engineering 2004-
- »Year One – Common 1980-

**BRITISH COLUMBIA-OKANAGAN, THE UNIVERSITY OF**

Kelowna, British Columbia

***Faculty of Applied Science***

- »Civil Engineering 2010-
- »Electrical Engineering 2010-
- »Mechanical Engineering 2010-
- »Year One – Common 2010-

**CALGARY, THE UNIVERSITY OF**

Calgary, Alberta

***Schulich School of Engineering***

- »Chemical Engineering 1969-
- »Civil Engineering 1969-
- »Computer Engineering 2002-2016
- »Electrical Engineering 1969-
- »Energy Engineering 2017-
- »Geomatics Engineering 1996-
- »Manufacturing Engineering 1997-
- »Mechanical Engineering 1969-
- »Oil and Gas Engineering 2001-
- »Software Engineering 2002-
- »Surveying Engineering 1982-1997
- »Year One – Common 1980-

**CAPE BRETON, UNIVERSITY COLLEGE OF**

Sydney, Nova Scotia

- »Year One – Common 1980-

**CARLETON UNIVERSITY**

Ottawa, Ontario

***Faculty of Engineering and Design***

Montréal, Québec

**(affiliated with l'Université de Montréal)**

- »Génie aérospatial 2012-
- »Génie biomédical 2012-
- »Génie chimique 1965-
- »Génie civil 1965-
- »Génie des matériaux 1990-2012
- »Génie des mines 1991-
- »Génie électrique 1965-
- »Génie géologique 1965-
- »Génie industriel 1973-
- »Génie informatique 1989-
- »Génie logiciel 2005-
- »Génie mécanique 1965-
- »Génie métallurgique 1965-1989
- »Génie minier 1965-1991
- »Génie physique 1965-
- »Première année- Tronc commun 1980-

**QUÉBEC À CHICOUTIMI, UNIVERSITÉ DU**

Chicoutimi, Québec

***Département des sciences appliquées***

- »Génie civil 2012-
- »Génie électrique 2004-
- »Génie géologique 1983-
- »Génie informatique 1992-
- »Génie mécanique 2004-
- »Génie unifié 1981-2009
- »Ingénierie de l'aluminium 2008-2012

**QUÉBEC À MONTRÉAL, UNIVERSITÉ DU**

Montréal, Québec

***Faculté des sciences***

- »Génie microélectronique 2007-

**QUÉBEC À RIMOUSKI, UNIVERSITÉ DU**

Rimouski, Québec

***Module de génie***

- »Génie des systèmes électromécaniques 1998-
- »Génie électrique 2009-
- »Génie mécanique 2009-

**QUÉBEC À TROIS-RIVIÈRES, UNIVERSITÉ DU**

Trois-Rivières, Québec

***École d'ingénierie***

- »Génie chimique 1990-
- »Génie électrique 1978-
- »Génie industriel 1980-

- »Aerospace Engineering 1992-
- »Architectural Conservation and Sustainability 2015-
- »Biomedical and Electrical 2010-
- »Biomedical and Mechanical 2012-
- »Civil Engineering 1965-
- »Communications Engineering 2002-
- »Computer Systems Engineering 1984-
- »Electrical Engineering 1965-
- »Engineering Physics 2003-
- »Environmental Engineering 1996-
- »Mechanical Engineering 1965-
- »Software Engineering 2003-
- »Sustainable & Renewable Energy 2012-
- »Year One - Common 1998-

### **CONCORDIA UNIVERSITY**

Montréal, Québec

(formerly Sir George Williams University, 1959-1974)

#### ***Faculty of Engineering and Computer Science***

- »Building Engineering 1982-
- »Civil Engineering 1969-
- »Computer Engineering 1983-
- »Electrical Engineering 1969-
- »Industrial Engineering 1995-
- »Mechanical Engineering 1969-
- »Software Engineering 2002-

### **CONESTOGA COLLEGE**

Kitchener, Ontario

#### ***School of Engineering and Information Technology***

- »Electronic Systems Engineering 2014-
- »Mechanical Systems Engineering 2010-

### **DALHOUSIE UNIVERSITY**

Halifax, Nova Scotia

(formerly Dal Tech, 1997-2000 and Technical University of Nova Scotia, 1981-1997 and Nova Scotia Technical College, 1907-1980)

#### ***Faculty of Engineering***

- »Agricultural Engineering 1974-2000
- »Biological Engineering 1997-
- »Chemical Engineering 1965-
- »Civil Engineering 1965-
- »Computer Engineering 2006-
- »Core Program 1980-
- »Electrical Engineering 1965-
- »Engineering Physics 1987-1991

- »Génie mécanique 2000-
- »Génie mécanique manufacturier 1987-1999

### **QUÉBEC EN ABITBI-TÉMISCAMINGUE, UNIVERSITÉ DU**

Rouyn-Noranda, Québec

#### ***Unité d'enseignement et de recherche en sciences appliquées***

- »Génie électromécanique 2000-
- »Génie mécanique 2010-

### **QUÉBEC EN OUTAOUAIS, UNIVERSITÉ DU**

Gatineau, Québec

#### ***Module de l'ingénierie***

- »Génie informatique 2002-

### **QUEEN'S UNIVERSITY**

Kingston, Ontario

#### ***Faculty of Applied Science***

- »Chemical Engineering 1965-
- »Civil Engineering 1965-
- »Computer Engineering 2002-
- »Electrical Engineering 1965-
- »Engineering Chemistry 1979-
- »Engineering Physics 1965-
- »Geological Engineering 1975-
- »Materials and Metallurgical Engineering 1992-2002
- »Mathematics and Engineering 1974-
- »Mechanical Engineering 1965-
- »Metallurgical Engineering 1965-1991
- »Mining Engineering 1965-
- »Year One - Common 1980-

### **REGINA, UNIVERSITY OF**

Regina, Saskatchewan

#### ***Faculty of Engineering and Applied Science***

- »Electronic Information Systems Engineering 1986-1994
- »Electronic Systems Engineering 1995-
- »Environmental Systems Engineering 1997-
- »Industrial Systems Engineering 1984-
- »Petroleum Systems Engineering 2003-
- »Regional Environmental Systems Engineering 1990-1997
- »Regional Systems Engineering 1984-1989
- »Software Systems Engineering 2007-
- »Systems Engineering 1981-1983
- »Year One - Common 1980-

### **ROYAL MILITARY COLLEGE OF CANADA**

- »Environmental Engineering 2006-
- »Industrial Engineering 1969-
- »Materials Engineering 2005-
- »Mechanical Engineering 1965-
- »Metallurgical Engineering 1965-1977, 1981-2005
- »Mineral Resources Engineering 2007-
- »Mining Engineering 1965-2006

### **ÉCOLE DE TECHNOLOGIE SUPÉRIEURE**

Montréal, Québec

(affiliated with l'Université du Québec)

- »Génie de la construction 1993-
- »Génie de la production automatisée 1990-
- »Génie des opérations et de la logistique 2008-
- »Génie des technologies de l'information 2006-
- »Génie électrique 1990-
- »Génie et gestion de la construction 1990-1996
- »Génie logiciel 2004-
- »Génie mécanique 1990-

### **GUELPH, UNIVERSITY OF**

Guelph, Ontario

#### ***School of Engineering***

- »Agricultural Engineering 1973-1995
- »Biological Engineering 1973-
- »Biomedical Engineering 2014-
- »Computer Engineering 2014-
- »Engineering Systems and Computing 1994-
- »Environmental Engineering 1993-
- »Food Engineering 1993-2000
- »Mechanical Engineering 2013-
- »Water Resources Engineering 1973-
- »Year One – Common 1997-

### **LAKEHEAD UNIVERSITY**

Thunder Bay, Ontario

#### ***Faculty of Engineering***

- »Chemical Engineering 1974-
- »Civil Engineering 1974-
- »Electrical Engineering 1974-
- »Mechanical Engineering 1974-
- »Software Engineering 2002-
- »Year One – Common 1998-

### **LAURENTIAN UNIVERSITY**

Sudbury, Ontario

#### ***School of Engineering***

- »Chemical Engineering 2006-
- »Extractive Metallurgical Engineering 1987-2006

### **Kingston, Ontario**

#### ***Faculty of Engineering***

- »Aeronautical Engineering 2009-
- »Chemical and Materials Engineering 1992-2001
- »Chemical Engineering 1965-1981, 2001-
- »Civil Engineering 1965-
- »Computer Engineering 1983-
- »Electrical Engineering 1965-
- »Engineering and Management 1972-1995
- »Engineering Physics 1975-1995
- »Fuels and Materials Engineering 1982-1991
- »Mechanical Engineering 1965-
- »Year One – Common 1980-

### **RYERSON POLYTECHNICAL INSTITUTE**

(see Ryerson University)

RPI offered accredited engineering programs in 1992.

### **RYERSON POLYTECHNICAL UNIVERSITY (RPU)**

(see Ryerson University)

RPU offered accredited engineering programs from 1992 to 2002.

### **RYERSON UNIVERSITY**

Toronto, Ontario

#### ***Faculty of Engineering, Architecture and Science***

- »Aerospace Engineering 1992-
- »Biomedical Engineering 2012-
- »Chemical Engineering 1992-
- »Civil Engineering 1992-
- »Computer Engineering 2006-
- »Electrical Engineering 1992-
- »Industrial Engineering 1992-
- »Mechanical Engineering 1992-
- »Year One – Common 1992-

### **SAINT MARY'S UNIVERSITY**

Halifax, Nova Scotia

#### ***Division of Engineering***

- »Engineering Science 1991-
- »Year One – Common 1980-

### **SASKATCHEWAN, UNIVERSITY OF**

Saskatoon, Saskatchewan

#### ***College of Engineering***

- »Agricultural and Bioresource Engineering 1992-
- »Agricultural Engineering 1965-1992
- »Chemical Engineering 1965-

- »Extractive Metallurgy 1985-1986
- »Mechanical Engineering 2011-
- »Mineral Resources Engineering 1987-
- »Mining Engineering 1987-
- »Year One – Common 1980-

## **LAVAL, UNIVERSITÉ**

Québec, Québec

### ***Faculty of Science and Engineering***

- »Génie agroalimentaire 1999-
- »Génie agroenvironnemental 2002-
- »Génie alimentaire 1997-
- »Génie chimique 1965-
- »Génie civil 1965-
- »Génie des eaux 2009-
- »Génie des matériaux et de la métallurgie 1990-
- »Génie des mines et de la minéralurgie 1990-
- »Génie du bois 2002-
- »Génie électrique 1965-
- »Génie géologique 1965-
- »Génie géomatique 2007-
- »Génie industriel 2014-
- »Génie informatique 1993-
- »Génie logiciel 2006-
- »Génie mécanique 1965-
- »Génie métallurgique 1965-1990
- »Génie minier 1965-1990
- »Génie physique 1965-
- »Génie rural 1973-2002
- »Ingénierie Réhabilitation:Infrastructure Urbaines 1999-
- »Première année- Tronc commun 1980-

## **MANITOBA, THE UNIVERSITY OF**

Winnipeg, Manitoba

### ***Faculty of Engineering***

- »Agricultural Engineering 1971-1998
- »Biosystems Engineering 1996-
- »Civil Engineering 1965-
- »Computer Engineering 1987-
- »Electrical Engineering 1965-
- »Geological Engineering 1965-2001
- »Industrial Engineering 1987-2005
- »Manufacturing Engineering 2003-2013
- »Mechanical Engineering 1965-
- »Year One – Common 1980-

## **MCGILL UNIVERSITY**

Montréal, Québec

- »Civil Engineering 1965-
- »Computer Engineering 2009-
- »Electrical Engineering 1965-
- »Engineering Physics 1965-
- »Environmental Engineering 2011-
- »Geological Engineering 1965-
- »Geological Engineering (Geophysics) 1975-1999
- »Mechanical Engineering 1965-
- »Mining Engineering 1974-1976
- »Year One – Common 1980-

## **SHERBROOKE, UNIVERSITÉ DE**

Sherbrooke, Québec

### ***Faculté de génie***

- »Génie biotechnologique 2008-
- »Génie chimique 1973-
- »Génie civil 1965-
- »Génie du bâtiment 2017-
- »Génie électrique 1965-
- »Génie informatique 1997-
- »Génie mécanique 1965-
- »Génie robotique 2017-

## **SIMON FRASER UNIVERSITY**

Sherbrooke, Québec

### ***School of Engineering Science***

- »Engineering Science 1986-
- »Mechatronic Systems Engineering 2011-

## **SIR GEORGE WILLIAMS UNIVERSITY (SGW)**

Montreal, Quebec

(see Concordia University. SGW offered accredited engineering programs from 1969 to 1974.)

## **ST. FRANCIS XAVIER UNIVERSITY**

Antigonish, Nova Scotia

- »St. Francis Xavier University
- »Year One - Common 1980-

## **TORONTO, UNIVERSITY OF**

Toronto, Ontario

### ***Faculty of Applied Science and Engineering***

- »Chemical Engineering 1965-
- »Civil Engineering 1965-
- »Computer Engineering 1994-
- »Electrical Engineering 1965-
- »Engineering Science 1965-
- »Geo-Engineering 1983-1990

### ***Faculty of Engineering***

- »Agricultural Engineering 1971-2006
- »Chemical Engineering 1965-
- »Civil Engineering 1965-
- »Computer Engineering 1993-
- »Electrical Engineering 1965-
- »General Engineering 2000-
- »Materials Engineering 2005-
- »Mechanical Engineering 1965-
- »Metallurgical Engineering 1965-2007
- »Mining Engineering 1965-
- »Software Engineering 2007-

### **MCMMASTER UNIVERSITY**

Hamilton, Ontario

### ***Faculty of Engineering***

- »Ceramic Engineering 1974-1998
- »Chemical Engineering 1965-
- »Chemical Engineering and Bioengineering 2006-
- »Civil Engineering 1989-
- »Civil Engineering and Computer Systems 1992-1995
- »Civil Engineering and Engineering Mechanics 1965-1988
- »Computer Engineering 1981-
- »Electrical & Biomedical Engineering 2006-
- »Electrical Engineering 1965-
- »Engineering Physics 1974-
- »Manufacturing Engineering 1982-2005
- »Materials Engineering 1990-
- »Mechanical Engineering 1965-
- »Mechatronics Engineering 2009-
- »Metallurgical Engineering 1965-1997
- »Software Engineering 2001-
- »Year One – Common 1965-

### **MEMORIAL UNIVERSITY OF NEWFOUNDLAND**

St. John's, Newfoundland

### ***Faculty of Engineering and Applied Science***

- »Civil Engineering 1975-
- »Computer Engineering 2002-
- »Electrical Engineering 1975-
- »Mechanical Engineering 1975-
- »Naval Architectural Engineering 1986-1996
- »Ocean and Naval Architectural Engineering 1997-
- »Process Engineering 2013-
- »Shipbuilding Engineering 1982-1985
- »Year One – Common 1980-

- »Geological and Mineral Engineering 1991-1998
- »Geological Engineering 1965-1974
- »Geological Engineering and Applied Earth Science 1975-1982
- »Industrial Engineering 1965-
- »Materials Engineering 1996-
- »Mechanical Engineering 1965-
- »Metallurgical Engineering and Materials Science 1986-1995
- »Metallurgy and Materials Science 1965-1985
- »Mineral Engineering 1999-
- »Year One – Common 1999-

### **VICTORIA, UNIVERSITY OF**

Victoria, British Columbia

### ***Faculty of Engineering***

- »Biomedical Engineering 2016-
- »Civil Engineering 2017-
- »Computer Engineering 1988-
- »Electrical Engineering 1988-
- »Mechanical Engineering 1992-
- »Software Engineering 2007-
- »Year One – Common 1980-

### **WATERLOO, UNIVERSITY OF**

Waterloo, Ontario

### ***Faculty of Engineering***

- »Chemical Engineering 1965-
- »Civil Engineering 1965-
- »Computer Engineering 1989-
- »Electrical Engineering 1965-
- »Environmental Engineering 1999-
- »Geological Engineering 1986-
- »Management Engineering 2012-
- »Mechanical Engineering 1965-
- »Mechatronics Engineering 2008-
- »Nanotechnology Engineering 2010-
- »Software Engineering 2006-
- »Systems Design Engineering 1974-

### **WESTERN ONTARIO, THE UNIVERSITY OF**

London, Ontario

### ***Faculty of Engineering***

- »Chemical and Biochemical Engineering 1972-2006
- »Chemical Engineering 1965-1971, 2007-
- »Civil Engineering 1965-
- »Computer Engineering 2001-
- »Electrical Engineering 1965-
- »Green Process Engineering 2012-

## **MONCTON, UNIVERSITÉ DE**

Moncton, Nouveau-Brunswick

### ***Faculté d'ingénierie***

- »Génie civil 1972-
- »Génie électrique 1998-
- »Génie industriel 1975-2009
- »Génie mécanique 1990-
- »Première année- Tronc commun 1980-

## **MOUNT ALLISON UNIVERSITY**

Moncton, New Brunswick

### ***Faculty of Science***

- »Year One – Common 1980-

## **NEW BRUNSWICK, UNIVERSITY OF**

Fredericton, New Brunswick

### ***Faculty of Computer Science and Faculty of Engineering***

- »Chemical Engineering 1965-
- »Civil Engineering 1965-
- »Computer Engineering 2001-
- »Electrical Engineering 1965-
- »Engineering Entrance 1980-
- »Forest Engineering 1972-
- »Geological Engineering 1984-
- »Geomatics Engineering 1999-
- »Mechanical Engineering 1965-
- »Software Engineering 2006-
- »Surveying Engineering 1972-1999
- »Year One – Common 1980-

## **NORTHERN BRITISH COLUMBIA, UNIVERSITY OF**

Prince George, British Columbia

### ***College of Science and Management***

- »Environmental Engineering 2007-

## **NOVA SCOTIA AGRICULTURE COLLEGE**

Truro, Nova Scotia

- »Year One – Common 1980-

- »Integrated Engineering 2001-
- »Materials Engineering 1968-1999
- »Mechanical Engineering 1965-
- »Mechatronic Systems Engineering 2014-
- »Software Engineering 2001-
- »Year One – Common 1980-

## **WINDSOR, UNIVERSITY OF**

Windsor, Ontario

### ***Faculty of Engineering***

- »Chemical Engineering 1965-1990
- »Civil Engineering 1965-
- »Electrical Engineering 1965-
- »Engineering Materials 1974-1991
- »Environmental Engineering 1991-
- »Geological Engineering 1972-1989
- »Industrial Engineering 1974-
- »Mechanical Engineering 1965-
- »Year One – Common 1980-

## **YORK UNIVERSITY**

Toronto, Ontario

### ***Faculty of Science and Engineering***

- »Computer Engineering 2007-
- »Electrical Engineering 2017-
- »Geomatics Engineering 2007-
- »Software Engineering 2016-
- »Space Engineering 2007-
- »Undeclared Major Engineering 2007-

# Appendix C

## Canadian discipline categories as used in this report

This section provides a comprehensive listing of program titles, as provided by the post-secondary, which are currently offered at both the undergraduate (accredited) and postgraduate levels in Canada only. The “discipline” listing is the broad category within which a number of similar programs are grouped. While this report does not provide detailed data on individual programs, the information can be obtained by contacting Engineers Canada.

### Discipline: *Biosystems*

#### Program

- »Agricultural and Bioresource Engineering
- »Agricultural Engineering
- »Bioengineering
- »Biological and Biomedical Engineering
- »Biological Engineering
- »Biomedical and Mechanical
- »Biomedical Engineering
- »Biomedical Mechanical Engineering
- »Biomedical: Computer Science
- »BioResource Engineering
- »Biosystems Engineering
- »Chemical and Biological Engineering
- »Forest Engineering
- »Génie agroenvironnemental
- »Génie alimentaire
- »Génie biomédical

### Discipline: *Chemical*

#### Program

- »Chemical & Petroleum Engineering
- »Chemical and Biochemical Engineering
- »Chemical Engineering
- »Chemical Engineering and Bioengineering
- »Génie biotechnologique
- »Génie chimique
- »Nanotechnology Engineering

### Discipline: *Civil*

#### Program

- »Architectural Conservation and Sustainability
- »Building Engineering
- »Civil & Environmental Engineering
- »Civil and Environmental Engineering
- »Civil Engineering
- »Génie civil
- »Génie de la construction
- »Génie du bâtiment
- »Infrastructure Protection & International Security
- »Safety and Risk Engineering

### Discipline: *Industrial or Manufacturing*

#### Program

- »Advanced Design and Manufacturing Institute
- »Génie de la production automatisée
- »Génie industriel
- »Industrial Engineering
- »Industrial Systems Engineering
- »Manufacturing Engineering
- »Mechanical Manufacturing Engineering

### Discipline: *Materials or Metallurgical*

#### Program

- »Génie des matériaux et de la métallurgie
- »Génie métallurgique
- »Materials Engineering
- »Materials Science
- »Mining/Materials Engineering

### Discipline: *Mechanical*

#### Program

- »Automotive Engineering
- »Energy Engineering
- »Génie mécanique
- »Mechanical & Manufacturing Engineering
- »Mechanical & Materials Engineering
- »Mechanical & Mechatronics Engineering
- »Mechanical Engineering
- »Mechanical Systems Engineering
- »Mechanical/Industrial Engineering
- »Mechatronic Systems Engineering
- »Mechatronics Engineering
- »Space Engineering

### Discipline: *Mining or Mineral*

#### Program

- »Génie des mines
- »Génie des mines et de la minéralurgie
- »Génie minéral
- »Mineral and Mining Exploration Engineering
- »Mineral Engineering
- »Mineral Resources Engineering



Discipline: *Computer*

**Program**

- »Computational Science and Engineering
- »Computer Engineering
- »Computer Networks
- »Computer Science
- »Computer Systems Engineering
- »Electronic Systems Engineering
- »Engineering Systems and Computing
- »Génie informatique
- »Human Computer Interaction
- »Systems - Electrical & Computer

Discipline: *Electrical*

**Program**

- »Biomedical and Electrical
- »Communications Engineering
- »Electrical & Biomedical Engineering
- »Electrical & Computer
- »Electrical and Computer Engineering
- »Electrical Engineering
- »Electrical/Computer Engineering
- »Electronic Business Technologies
- »Energy Systems Engineering
- »Génie des opérations et de la logistique
- »Génie des technologies de l'information
- »Génie électrique
- »Génie électromécanique
- »Génie énergétique
- »Génie robotique
- »Information systems security
- »Quality Systems Engineering
- »Sustainable Energy Engineering

Discipline: *Engineering Physics*

**Program**

- »Engineering Chemistry
- »Engineering Mathematics
- »Engineering Physics
- »Engineering Science
- »Génie physique
- »Mathematics and Engineering
- »Mathématiques
- »Mathématiques ingénieur

Discipline: *Environmental*

**Program**

- »Clean Energy Engineering
- »Environmental Engineering

»Mining Engineering

»Natural Resources Engineering

Discipline: *Other*

»Aeronautical Engineering

»Aerospace Engineering

»Centre for Business, Entrepreneurship & Technology

»Core Program

»Doctorat en ingénierie

»Doctorat en ressources minérales

»Engineering and Public Policy

»Engineering Design

»Engineering Entrepreneurship & Innovation

»Engineering Innovation and Entrepreneurship

»Engineering Management

»General Engineering

»Génie

»Génie aérospatial

»Génie des systèmes électromécaniques

»Génie du bois

»Génie géomatique

»Génie nucléaire

»Geomatics Engineering

»Green Process Engineering

»Information and Systems Engineering

»Ingénierie

»Integrated Engineering

»Interdisciplinary

»Internetworking

»Maîtrise en ingénierie

»Maîtrise en ingénierie (gestion)

»Management Engineering

»Management Sciences

»Nuclear Engineering

»Ocean and Naval Architectural Engineering

»Oil and Gas Engineering

»Petroleum Engineering

»Petroleum Systems Engineering

»Process Engineering

»Process Systems Engineering

»Science Engineering (Sustainable Design)

»Sciences appliquées

»Systems Design Engineering

»Systems Science

»Technologie des systèmes

»TIM (Systems)

»UNENE

Discipline: *Software*



- »Environmental Systems Engineering
- »Génie des eaux
- »Maîtrise en génie de l'environnement
- »Maîtrise en Science de la Terre
- »Sustainable & Renewable Energy
- »Water Resources Engineering

Discipline: *Geological*

**Program**

- »Génie géologique
- »Geological Engineering

**Program**

- »Génie logiciel
- »Information Systems Science
- »Information Technology
- »Software Engineering
- »Software Engineering & Virtual Systems Design
- »Software Systems Engineering

Year One/Two Common Year

- »Undeclared Major Engineering
- »Year One - Common

The discipline Engineering Science (E.Sci.) involves science-intensive studies in engineering physics, engineering bioscience, engineering chemistry and other specializations offered by universities with accredited engineering science programs.

Several universities in Canada have common first-year and, in some cases, second-year programs. Students in these programs do not declare a discipline of study in their first year or, as applicable, second year. The total number of students in common first-, second- and qualifying-year programs have been separated from the "Other" category, beginning with the 1997 data. This subdivision will be continued in future years.

# Appendix D

## Associated universities explained

Dalhousie University, Royal Military College of Canada (RMC), and Associated Universities

The bachelor of engineering degree awarded by Dalhousie University is normally conferred in association with one of several associated universities. The program of study is divided into two parts: the associated universities offer programs in engineering covering the first part of the requirements for the degree and the Faculty of Engineering at Dalhousie offers courses in several departments of engineering covering the second part. There are other higher education institutions in Canada that operate under this model. Under the Accreditation Board's regulations for granting credits, a formally documented validation procedure must be in place.

Some of the associated universities include the following:

- »Acadia University
- »University of Cape Breton
- »Dalhousie University
- »Mount Allison University (as of 2000, no longer offering engineering programs)
- »Nova Scotia Agricultural College
- »St. Francis Xavier University
- »Saint Mary's University