

Catalogue no. 42-28-0001  
ISSN 2818-1972



# Portrait of youth in Canada: Data report

## Chapter 3: Youth and Education in Canada

by Klarka Zeman and Marc Frenette

Release date: October 4, 2021



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# Portrait of youth in Canada: Data report

## Chapter 3: Youth and Education in Canada

by Klarka Zeman and Marc Frenette

### Highlights

- Young Canadians are highly educated and compare favourably to their counterparts in other Organisation for Economic Co-operation and Development (OECD) countries in terms of educational attainment, literacy and numeracy.
- Young women are achieving a university credential in higher proportions than young men. Young South Asian and Chinese adults also have the highest proportions of bachelor's degree or higher attainment compared to other population groups.
- At least half of postsecondary graduates reported that they took on debt to finance their studies. Student debt levels have remained fairly constant over the past 15 years or so, with the exception of those studying in professional degrees.
- Once they reach the labour market, postsecondary graduates have higher employment levels, and higher average and median incomes. This has remained true even with an increasing proportion of young people completing a postsecondary education.
- Higher levels of education are associated with higher median cumulative earnings. In Canada, the cumulative earnings premium associated with a postsecondary education is far greater than average student debt levels.

### Introduction

Younger Canadians are more likely than previous generations to have completed a postsecondary education. In 2019, 73% of young Canadians aged 25 to 34 had attained a postsecondary qualification, rising from 59% in 2000.

These levels are rising faster in certain groups than in others. For example, this chapter will show that some population groups are particularly likely to complete a university degree or diploma, while others are not. In addition, educational attainment varies by sex, with young women obtaining university credentials in higher proportions than young men.

Using Statistics Canada data, this chapter provides a broad overview of the educational situation of Canadian youth. It focuses not only on the general level of education for young Canadians, but also on which groups are driving these rising educational levels. In addition, this chapter examines the literacy and numeracy skills of young Canadians, and how they compare with their counterparts in other OECD countries. Finally, it looks at some of the costs and benefits of acquiring a postsecondary education in Canada, including how these credentials have been rewarded on the labour market (higher employment rates, higher earnings, etc.). Education among First Nations, Métis and Inuit youth will be examined in a forthcoming dedicated chapter on Indigenous youth, which will include a broad range of demographic, health and socio-economic statistics.

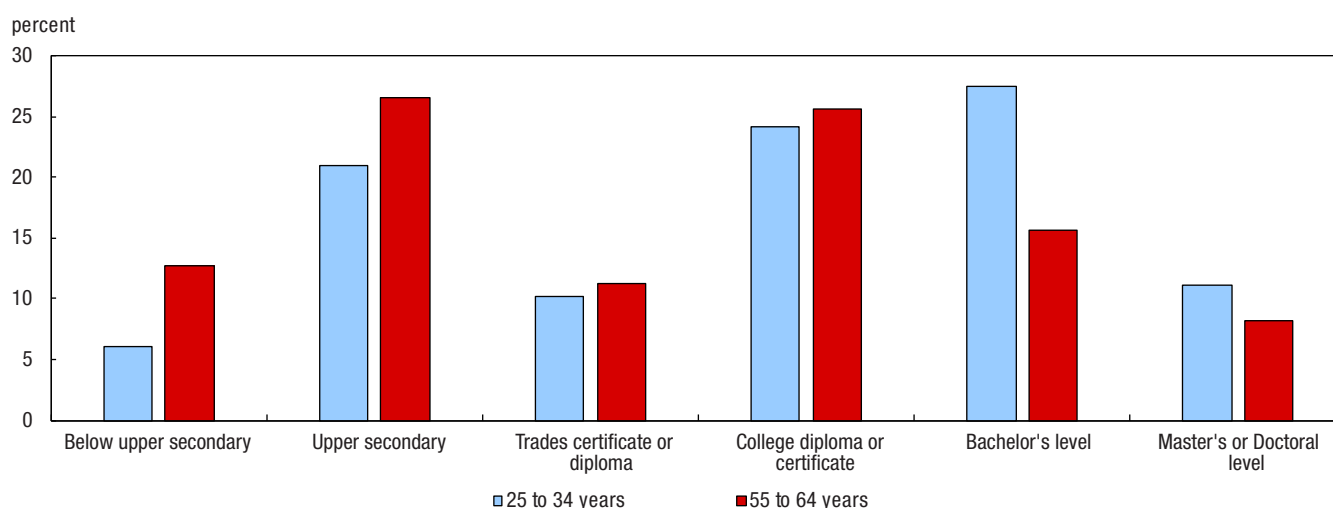
The COVID-19 pandemic, and the resulting school and business closures that began in March 2020, have had enormous effects on the lives of young Canadians. Chapter 2 of this report, “Youth employment in Canada,” showed for example that because of the job losses the pandemic triggered, the percentage of young men and young women neither in school nor employed increased substantially from 2019 to 2020. The school and business closures have also affected postsecondary students, in terms of their academic experiences with many classes moving online and in terms of their ability to finance their studies. Looking forward, the pandemic may also affect the outcomes for students once they graduate and enter the labour market, and this chapter also presents some of these short-term and potential long-term effects.

## Educational attainment

### Younger adults have higher educational attainment than older adults, but these patterns differ by sex

Almost three quarters or 73% of young Canadians aged 25 to 34 have a postsecondary qualification. Younger Canadians are more likely than older Canadians to have a postsecondary education, and this is mostly due to differences in degree attainment (Chart 1). A higher proportion of younger Canadians aged 25 to 34 have attained a bachelor's, master's or doctoral degree compared to older Canadians aged 55 to 64 (39% versus 24%). Meanwhile, the proportion of younger Canadians who have attained a college or CEGEP certificate or diploma as their highest credential is fairly similar to that of older Canadians (26% versus 24%).<sup>1</sup> Finally, the proportion attaining a trades certificate or diploma (including apprenticeship) as their highest credential is also similar (10% for younger Canadians, 11% for older ones).

**Chart 1**  
Highest level of educational attainment, by age group, 2019



**Note:** The 35 to 54 year old age group is not included, as this chart is meant to compare young adults who have had the chance to complete a postsecondary education with the oldest age group of traditional working-age adults.

**Source:** Statistics Canada, Pan-Canadian Education Indicators Program, Catalogue no. 81-582-X.

Notably, only a small proportion of Canadians aged 25 to 34 have neither a high school diploma nor a postsecondary credential (6%), which is less than half of the comparable proportion for older Canadians (13%).

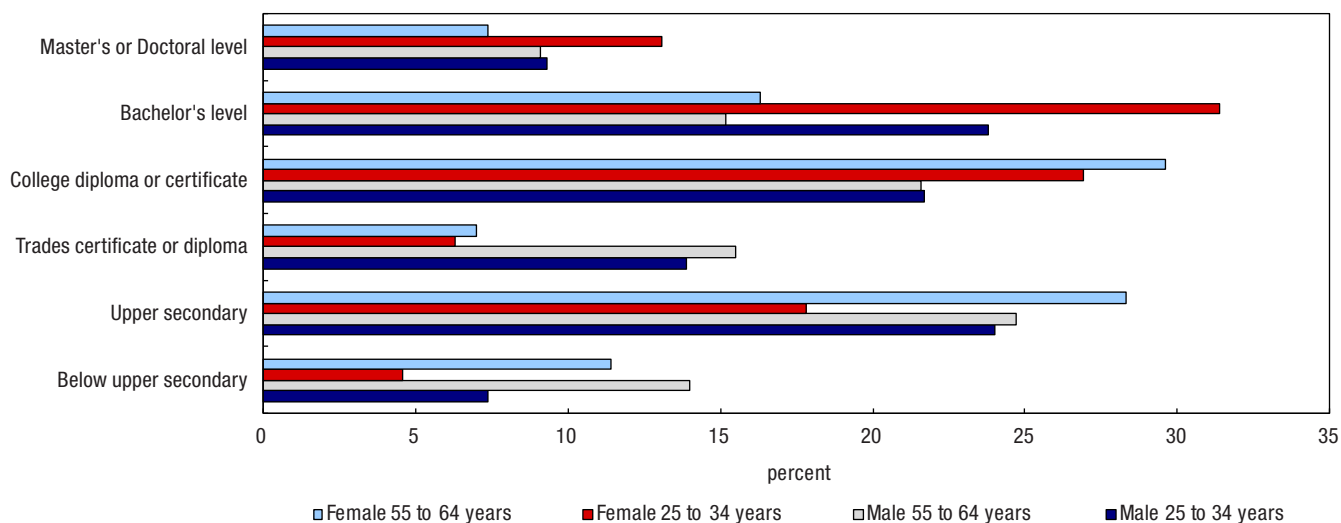
While education levels are generally higher among young men and women than their older counterparts, there are some variations by sex (Chart 2). In particular, the gap between the older and younger age groups is much larger among women.

Specifically, 44% of young women have a university degree, compared to 24% of older women. By comparison, the gap in university attainment is much smaller among men, with 33% of young men and 24% of older men having a university degree. In addition, the proportion of younger women obtaining a masters or doctorate is higher (13%) than for older women (8%), but this proportion is the same for younger and older men (9%).

1. Statistics Canada. Table 37-10-0130-01 "Educational attainment of the population aged 25 to 64, by age group and sex, Organisation for Economic Co-operation and Development (OECD), Canada, provinces and territories". Available at: <https://www150.statcan.gc.ca/t1/tbl1/en/tv.action?pid=3710013001>. For a mapping between the International Standard Classification of Education to the Labour Force Survey categories, see here: <https://www150.statcan.gc.ca/n1/pub/81-604-x/2020001/notes-eng.htm>.

Almost a quarter (24%) of young men have high school as their highest level of education, which is very similar to the proportion of older men who have gone as far as high school (25%). In contrast, only 18% of young women have high school as their highest level of education, compared to 28% of older women.

**Chart 2**  
**Highest level of educational attainment by sex and age group, 2019**



**Note:** The 35 to 54 year old age group is not included, as this chart is meant to compare young adults who have had the chance to complete a postsecondary education with the oldest age group of traditional working-age adults.

**Source:** Statistics Canada, Pan-Canadian Education Indicators Program, Catalogue no. 81-582-X.

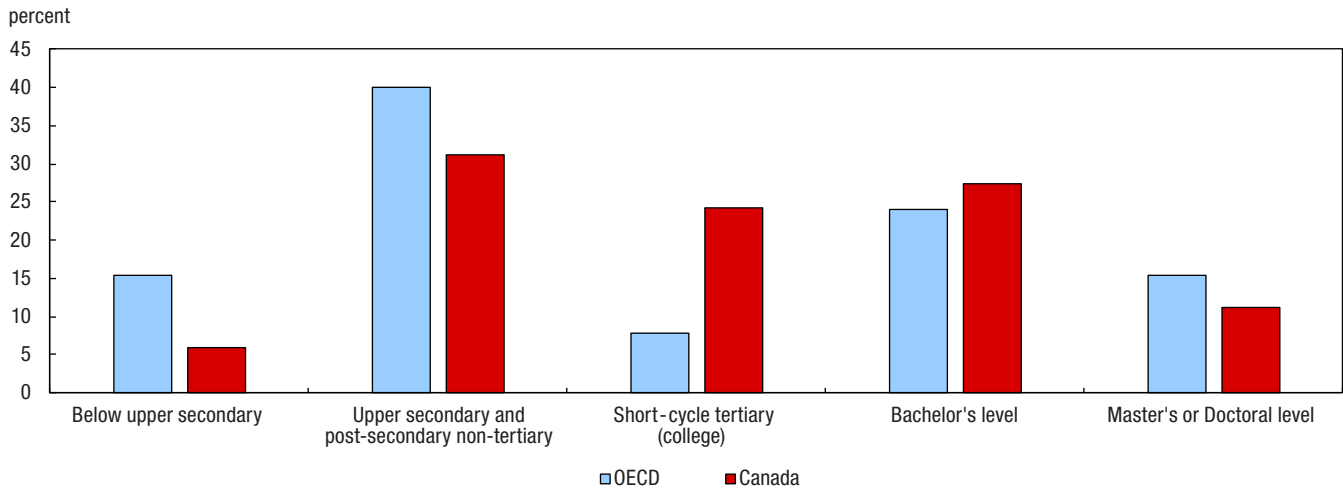
## A higher proportion of young Canadians have a college diploma or university degree than the OECD average, mainly due to college diplomas

Overall, young Canadians have a higher level of education than other youth across OECD countries. The proportion of young Canadian adults who have no high school diploma is lower (6%) than the OECD average (15%), and the proportion of younger Canadians who have attained a college or university education is higher than the comparable OECD average (Chart 3). Specifically, 63% of young Canadians have obtained either of these credentials versus 45%<sup>2</sup> of young individuals across OECD countries.

This is mainly due to the high proportion of young Canadians who have attained college education. The proportion of younger Canadians with a college diploma is three times the OECD average (24% versus 8%), reflecting the importance of this sector in Canada. Conversely, the proportion of young Canadians who have a bachelor's degree is closer to the OECD average (28% versus 24%), while the proportion of young Canadians who have a master's degree or doctorate is lower (11% versus 15%).

2. The proportion of youth who have attained tertiary education at the OECD average does not equal the sum of the OECD averages for short-cycle tertiary, bachelor's level and master's or doctoral level, as some countries are not able to report these levels separately.

**Chart 3**  
**Highest level of educational attainment, 25 to 34-year-olds, Canada and Organisation for Economic Co-operation and Development average, 2019**



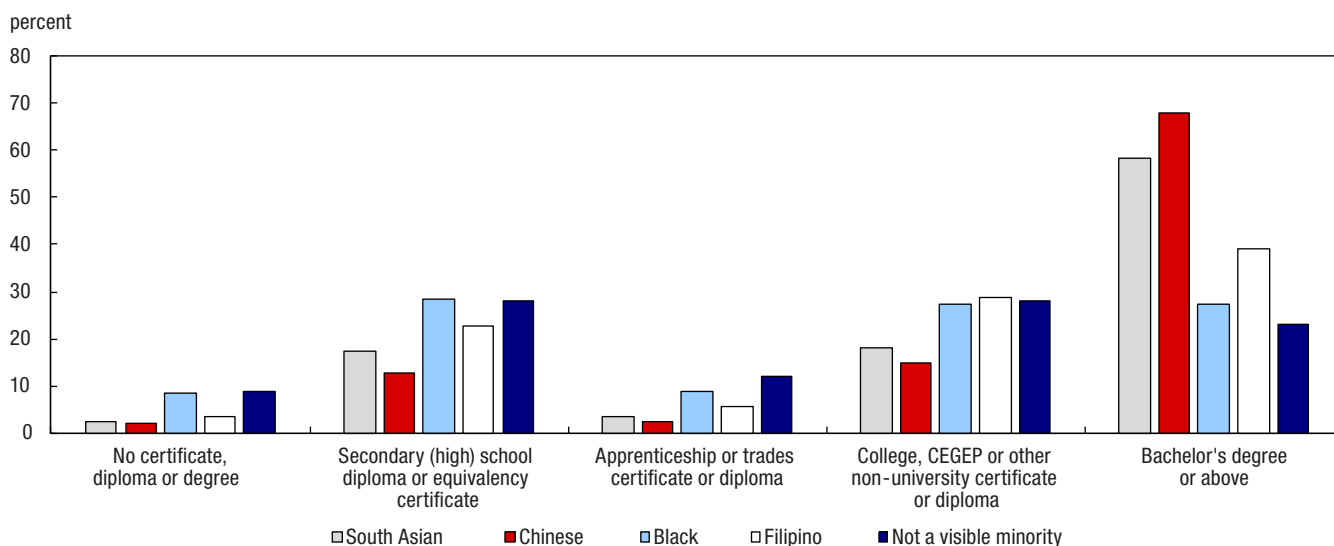
**Note:** The OECD average is calculated as the unweighted mean of the data values of all OECD countries for which data are available or can be estimated.  
**Source:** Statistics Canada, Education Indicators in Canada: An International Perspective, Catalogue no. 81-604-X.

**Highest level of education varies by population group, with youth not in a group designated as a visible minority and Black youth least likely to have a postsecondary educational qualification**

As source countries for immigrants have shifted, with more immigration from Asia, Africa and Latin America than from Europe over the last few decades, the composition of the Canadian population has become more diverse. Previous studies have found that in general, the children of immigrants out-perform both their parents and non-immigrants in terms of educational attainment.<sup>3</sup> However, there is variation within children of immigrants by population group. For example, Black youth were less likely than other population groups to have a postsecondary certificate, diploma or degree in 2016.<sup>4</sup>

Chart 4 highlights this diversity among population groups. For example, in 2016, non-immigrant young South Asian and Chinese adults had the highest attainment of a bachelor’s degree or higher, at 58% and 68% respectively, as well as the smallest proportions that did not complete high school. These two groups are also the least likely to have a high school diploma, apprenticeship qualification or college diploma as their highest level of education, since many in these two groups obtain a bachelor’s degree or higher.

3. Chen, Wen-Hao and Feng Hou “Intergenerational Education Mobility and Labour Market Outcomes: Variation Among the Second Generation of Immigrants in Canada”. *Analytical Studies Branch Research Paper Series*, February 2019. No. 418.  
 4. Turcotte, Martin “Results from the 2016 Census: Education and labour market integration of Black youth in Canada”. *Insights on Canadian Society*, February 2020.

**Chart 4****Highest level of education attainment, non-immigrants aged 25 to 34, by selected population groups, 2016**

Source: Statistics Canada, Census of Population, 2016.

Conversely, the proportion of Black youth (8%) and youth who are not a member of a population group designated as visible minority (9%) who have not attained a high school diploma is notably higher than for other groups. This is also true for high school as the highest level of education (28% for both groups). Conversely, Black youth and youth who are not member of a population group designated as visible minority are considerably less likely than other groups to have obtained a university degree (27% and 23%, respectively).

## Canada has a high level of intergenerational mobility in education, but challenges remain

It is well-established that one of the strongest predictors of educational attainment is the education level of one's parents. This is for a number of reasons: more highly educated parents are better able to help their children navigate education systems, can support their children's learning, may act as role models, place higher expectations on their children, and tend to be in a better economic position.

One way to look at a person's chances given the characteristics of their parents is to look at the degree to which children obtain a higher level of education than their parents (i.e., intergenerational mobility in education). Results from the Programme for International Assessment of Adult Competencies suggest that in Canada, compared to other OECD countries, there is a fairly high level of intergenerational mobility in education for adults whose parents did not have either a college diploma or university degree.<sup>5</sup> In 2011, slightly more than half (52%) of Canadians whose parents had completed at least high school, but not college or university, had attained a college or university diploma or degree. Only Korea had a larger proportion of its population achieving this type of mobility among the participating OECD member countries.

Another way to examine whether there is equitable access to a postsecondary education is to examine whether the postsecondary participation rate of young people from lower-income families is increasing. One recent study<sup>6</sup> presents evidence from tax files, suggesting that while the proportion of 19 year-old youth enrolling in postsecondary education increased for all income quintiles (groups of 20%) over the last two decades, participation rates have increased somewhat more quickly for youth from the lowest income quintile, especially in relative terms. Between 2001 and 2017, the postsecondary enrolment rate for youth at the bottom quintile increased by 28% (from 34% to 43%) compared to an increase of 10% (from 71% to 77%) for youth in the top income quintile.

5. Statistics Canada. *Education Indicators in Canada: An International Perspective, 2016*. Available at: <https://www150.statcan.gc.ca/n1/pub/81-604-x/2016001/ch/che-eng.htm>.

6. Frenette, Marc. Postsecondary Enrolment by Parental Income: Recent National and Provincial Trends. *Economic Insights*, April 2017. Note that results noted here update the findings of the previous study.

However, a substantial gap remains. In 2017, there was still a significant difference in postsecondary enrolment for 19-year-olds in the top and bottom income quintiles—77% to 43%. While it may be tempting to conclude that this gap is related to differences in financial constraints, a previous Statistics Canada study found that only a very small portion of the gap in university enrolment across family income categories was due to this factor. The vast majority of the gap could be explained by differences in the educational attainment of the parents, academic performance of the children, and parental expectations placed upon them.<sup>7</sup>

## How has the COVID-19 pandemic affected postsecondary students?

From April 19 to May 1, 2020, Statistics Canada conducted online [crowdsourcing data collection](#)<sup>8</sup> with over 100,000 students to learn how the pandemic was impacting their academic, labour market and financial situations.<sup>9</sup> The pandemic led to the physical closure of colleges and universities across Canada and a shift to other ways of delivering courses, most notably online learning. At that early stage of the pandemic, 57% of participants reported that their academic work placements or courses were either delayed, postponed or cancelled.<sup>10</sup>

One of the largest impacts of the pandemic was on the employment plans of postsecondary students. Young people in particular were hit hard by the disruptions in the labour market, and the responses of the crowdsourcing respondents reflected this, with many participants either losing their jobs or seeing their job prospects disappear. Of the respondents who had a job in March 2020 that they planned to continue, a slight majority had either been laid off temporarily (34%) or lost their job (21%) two months later. A further 26% reported working reduced hours. Less than a quarter (24%) were working as planned.

These changes in job prospects were reflected in the concerns that many student participants reported about their employment situation. Overall, 58% indicated that they were very or extremely concerned about losing their job in the future, and 67% were very or extremely concerned about having no job prospects in the near future. Not surprisingly, many students worried about how they would pay for future education-related expenses.

In terms of participation in education, figures from the first school semester in 2020/2021 (September to December) show participation rates that are similar to those observed in the same time period before the pandemic (Chart 5).<sup>11</sup> Overall, 50% of Canadian youth aged 18 to 24 were attending school in September 2020, compared to 48% in 2019. The proportion of young men studying in September 2020 was exactly the same as it was one year before (43%), while the participation rate for young women was higher at 57% in September 2020 versus 54% one year before.<sup>12</sup> A recent study found that this was due to young women's higher participation rates in postsecondary education at the start of the 2020 school year when compared with one year before.<sup>13</sup>

7. Frenette, Marc. Why are youth from lower-income families less likely to attend university? Evidence from academic abilities, parental influences, and financial constraints. *Analytical Studies Branch Research Paper Series* February 2007.

8. More information is available at: [Impacts of the COVID-19 pandemic on postsecondary students \(ICPPS\)](https://www23.statcan.gc.ca/imdb/p2SV.pl?Function=getSurvey&SDDS=5320). <http://www23.statcan.gc.ca/imdb/p2SV.pl?Function=getSurvey&SDDS=5320>

9. Unlike other surveys conducted by Statistics Canada, crowdsourcing data are not collected under a probability-based sampling design. As a result, the findings reported below cannot be applied to the overall postsecondary student population in Canada, but rather only to those who participated in the questionnaire.

10. Statistics Canada. "[Impacts of the COVID-19 pandemic on postsecondary students](#)". *The Daily*. Available at: <https://www150.statcan.gc.ca/n1/daily-quotidien/200512/dq200512a-eng.htm>

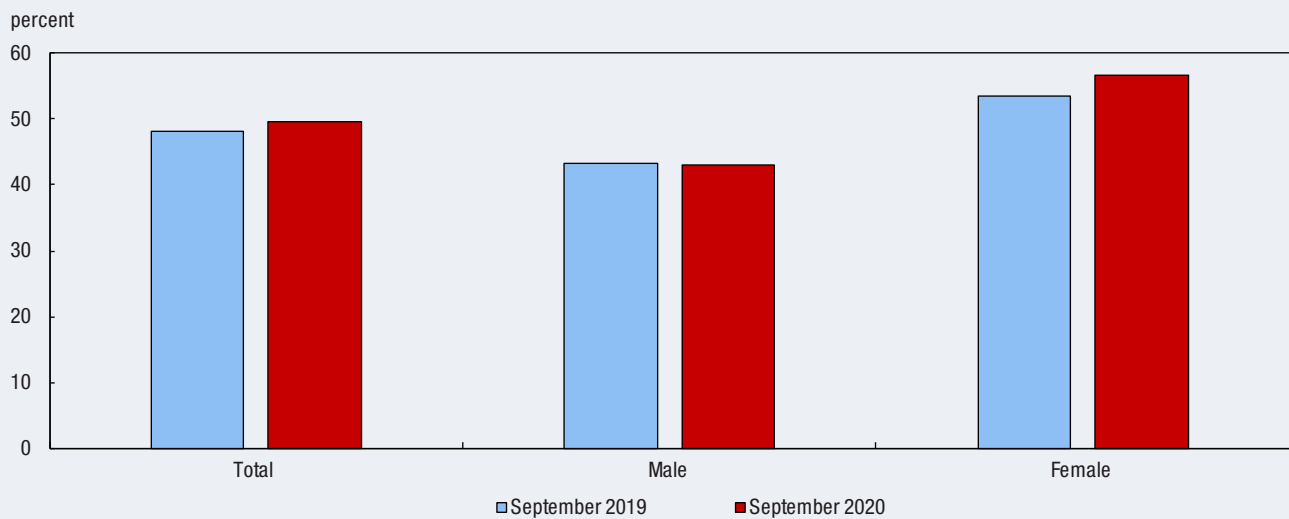
11. Statistics Canada. Labour Force Survey, custom tabulation.

12. In the Labour Survey, respondents are asked "Last week, was ... attending a school, college or university?" It is possible that some respondents may have interpreted attendance in a traditional or in-person sense, in which case the figures in Chart 5 would underestimate the increase in total enrolment.

13. Wall, Katherine. Gendered impacts of the COVID-19 pandemic on the proportion of youth neither in employment nor education at the start of the school year. *Insights on Canadian Society*. May 2021.



**Chart 5**  
**Proportion of youth aged 18 to 24 attending school, September 2019 and September 2020, by sex**



Source: Statistics Canada, Labour Force Survey, 2019 and 2020.

## Literacy and numeracy

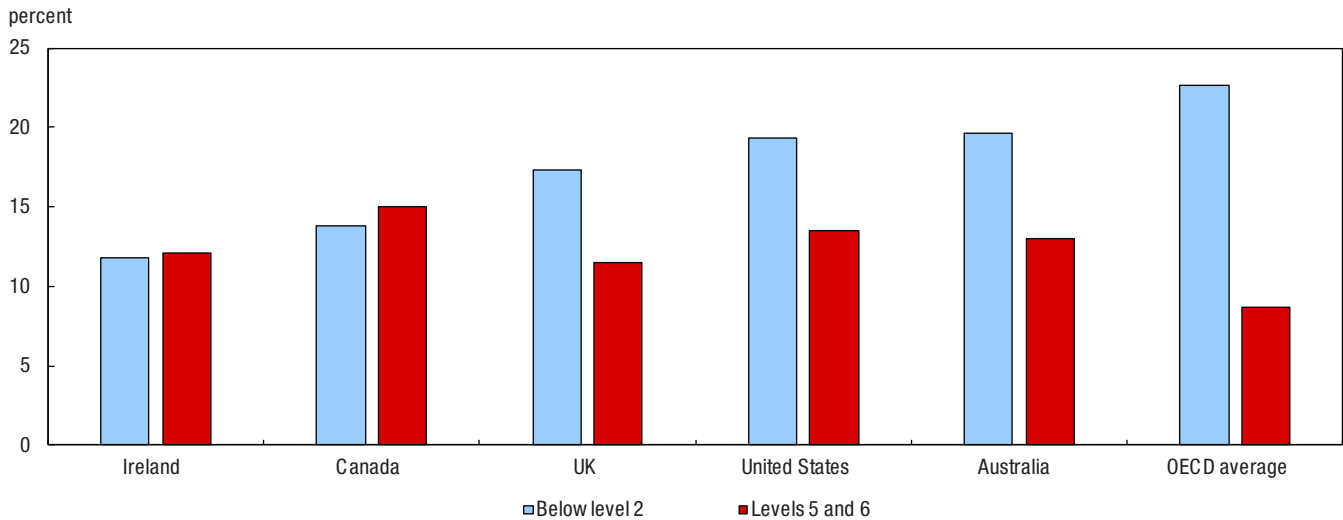
### Canadian 15-year-olds among the highest performers in the world in reading and math

A higher proportion of young Canadians have attained a postsecondary qualification than the OECD average. But how do secondary students compare with their OECD counterparts in terms of literacy and numeracy skills? The Programme for International Student Assessment (PISA) is an international survey administered every three years to 15-year-olds around the world that directly measures student performance in reading, math and science.<sup>14</sup> In 2018, PISA results showed that Canadian students fared well compared to the OECD average (Chart 6). While 14% of Canadian students did not meet the minimum proficiency in reading, this was well below the OECD average of 23% (and also lower than in the United Kingdom, the United States and Australia).<sup>15</sup> In addition, the proportion of Canadian students who achieved the highest levels of proficiency in reading was third highest among all OECD countries at 15%, behind Beijing, Shanghai, Jiangsu, Zhejiang (BSJZ) (China) and Singapore. The comparable figure for all OECD countries combined was 9%.

14. The target population for PISA comprises students who were 15 years of age and were attending any form of schooling in the ten provinces of Canada. Schools on reserves were excluded, as were various types of schools for which it would be infeasible to administer the survey, such as home schooling and special-needs schools.

15. All PISA results are taken from the following report: O'Grady, Kathryn, Marie-Anne Deussing, Tanya Scerbina, Yitian Tao, Karen Fung, Vanja Elez and Jeremy Monk. Measuring up: Canadian Results of the OECD PISA 2018 Study. Council of Ministers of Education, Canada, 2019.

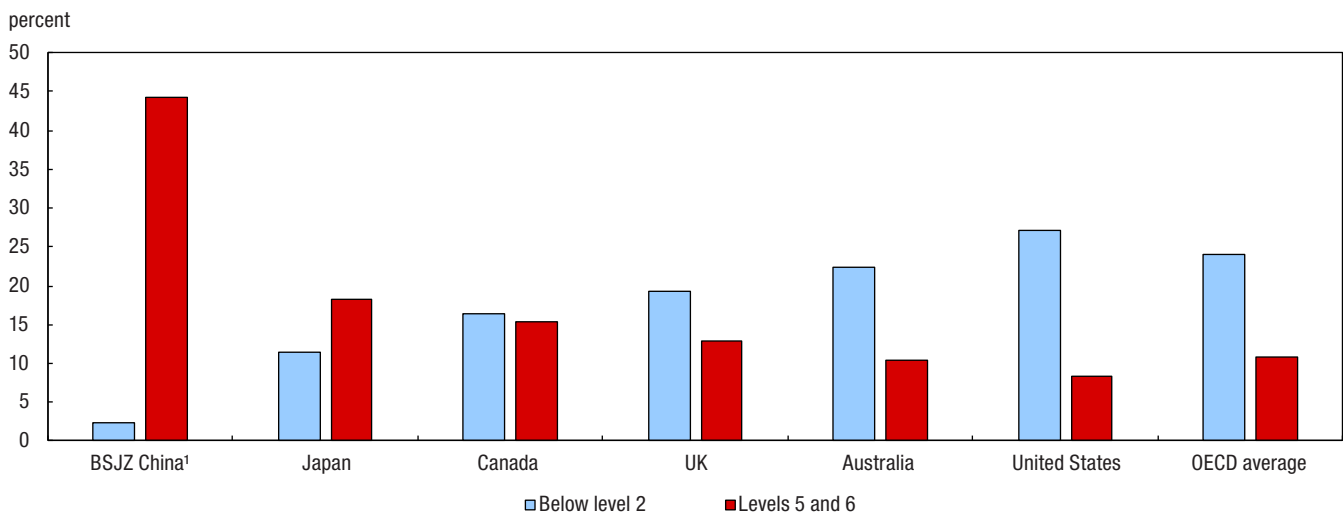
**Chart 6**  
**Proportion of 15-year-olds who performed below level 2, and at levels 5 and 6, Reading, Canada, selected countries and Organisation for Economic Co-operation and Development average, 2018**



Source: Council of Ministers of Education, Canada, Measuring up: Canadian Results of the OECD PISA 2018 Study.

Canadian students also perform well in mathematics compared to the OECD average (Chart 7). While 16% of Canadian students do not meet the minimum proficiency in mathematics, almost one quarter (24%) of students in OECD countries are in the same situation. Canada was ahead of the United Kingdom, Australia, and the United States on this front. Canada also has a higher proportion of high-performing math students (15%) than these countries, and the OECD as a whole (11%), but a much smaller proportion than is observed in BSJZ China (44%), Singapore (37%) and Hong Kong (29%). Notably, students in Quebec perform particularly well in math (21% achieve the highest levels of proficiency).

**Chart 7**  
**Proportion of 15-year-olds who performed below level 2 and at levels 5 and 6 in Mathematics, Canada, selected countries and Organisation for Economic Co-operation and Development average, 2018**



1. Beijing, Shanghai, Jiangsu, Zhejiang (B-S-J-Z) (China)

Source: Council of Ministers of Education, Canada, Measuring up: Canadian Results of the OECD PISA 2018 Study.

PISA also allows analysis of math and reading scores by socioeconomic status (SES). In PISA 2018, across all OECD countries, socioeconomically advantaged students (defined as those in the top quarter of SES) outperformed the disadvantaged students (defined as those in the bottom quarter of SES). In Canada, the difference in average score in Canada between the advantaged versus the disadvantaged students is smaller (68 points) than the difference observed at the OECD average (89 points). However, as this measure is relative, it may reflect the fact that there is less inequality in general in Canada than in other OECD countries.

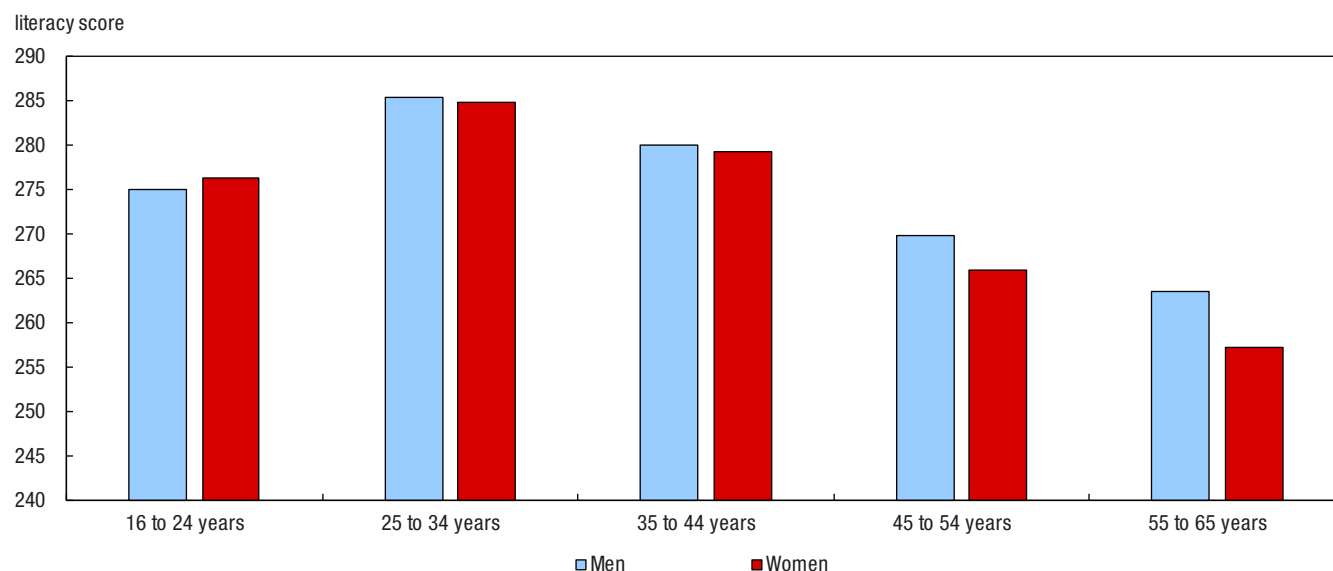
## Among all age groups, young adults aged 25 to 34 have the highest levels of literacy and numeracy

The Programme for the International Assessment of Adult Competencies (PIAAC) is another study that measures literacy and numeracy skills, in this case among adults between the ages of 16 and 65.

Results from PIAAC show that among all of the age groups, young Canadians aged 25 to 34 have the highest average scores in both literacy and numeracy (Chart 8a and Chart 8b, respectively)—slightly ahead of the 35 to 44 age group.<sup>16</sup> The 25 to 34 age group has the highest proportion that reaches at least level 3 in both literacy and numeracy, meaning that they are able to understand longer, more complex texts with multiple pieces of information.<sup>17</sup> For example, 53% of adults aged 25 to 34 possess this level of numeracy, compared to 34% of those aged 55 to 65. This could be because this age group finished their formal schooling more recently and still retain these skills or because a higher proportion of people in this age range have completed postsecondary education. It could also reflect improvements in the schooling system over time, or a combination of all these factors.

While young men and women have very similar performance in literacy (with both men and women aged 25 to 34 having scores of 285.4 and 284.8 respectively), young men have a higher average score in numeracy at 283.1 compared to 269.9 for young women. This difference between sexes in numeracy scores is also observed for all other age groups.

**Chart 8a**  
Average literacy scores, by age group and sex, 2012

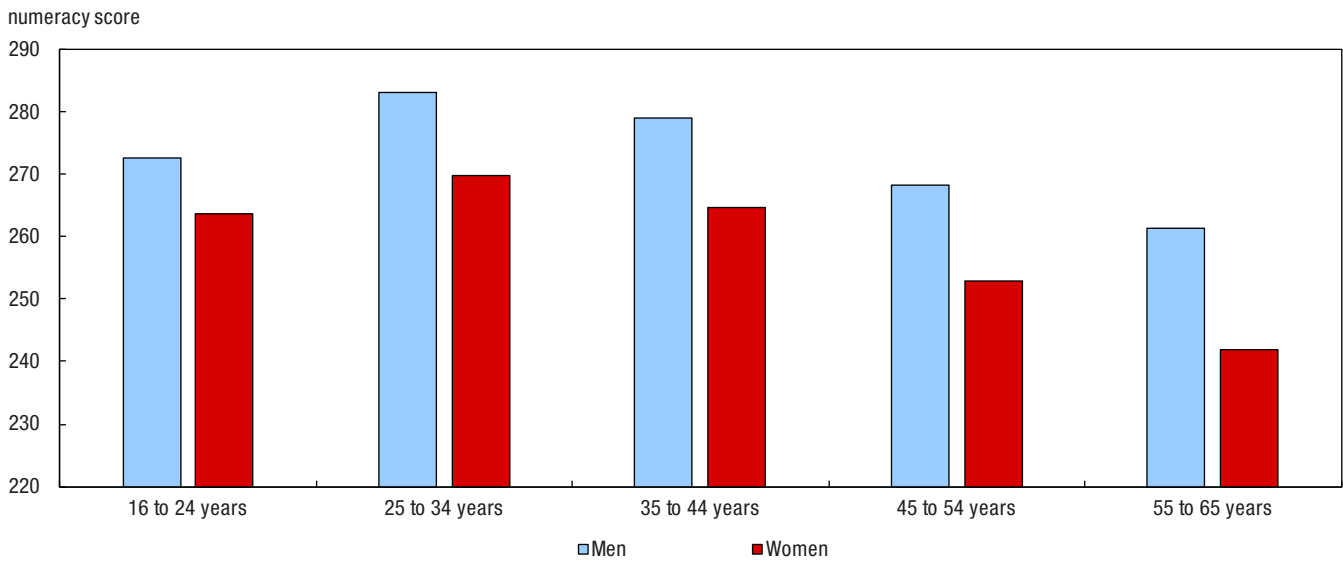


Source: Statistics Canada, Programme for the international assessment of adult competencies, 2012.

16. Statistics Canada. Table 37-10-0047. *Literacy, numeracy – Average scores and distribution of proficiency levels by sex and age group*. Available at: <https://www150.statcan.gc.ca/t1/tbl1/en/tv.action?pic=3710004701>.

17. Proficiency is measured on a continuous scale that is divided into five levels (with an additional category, “below Level 1”), defined by a particular score-point range, where each level corresponds to a description of what adults with particular scores can do in concrete terms. For additional information on [proficiency levels](#), refer to: <https://www150.statcan.gc.ca/n1/pub/89-555-x/2013001/t/tbl1.1-eng.htm>.

**Chart 8b**  
Average numeracy scores, by age group and sex, 2012



Source: Statistics Canada, Programme for the international assessment of adult competencies, 2012.

**Young Canadian men aged 16 to 30 compare favourably to other countries in numeracy, and both young men and young women compare favourably in literacy**

Table 1 summarizes how young Canadians aged 16 to 30 compare with their counterparts in other countries that participated in the PIAAC in terms of average scores.<sup>18</sup>

**Table 1**  
Average score in numeracy and literacy, compared with other participating countries, 2012

	Male numeracy	Male literacy	Female numeracy	Female literacy
Average score is statistically above Canada (English) <sup>1</sup>	Finland, Japan, Netherlands, Singapore, Belgium (Flanders), Austria, Sweden	Japan, Finland, Netherlands, Korea, Singapore	Finland, Singapore, Japan, Netherlands, Belgium (Flanders), Czech Republic, Korea, Estonia, Lithuania, Sweden, Slovakia, Denmark, Austria, Germany, Slovenia	Finland, Japan, Netherlands, Korea, Estonia
Average score is not statistically different from Canada (English)	Czech Republic, Germany, Lithuania, Korea, Estonia, Denmark, Slovakia, Norway, Hungary, Australia, Slovenia, New Zealand, France, Russia, Poland, Northern Ireland, England, Cyprus	Belgium (Flanders), Sweden, Estonia, Australia, Czech Republic, Germany, Austria, New Zealand, Poland, Norway, Slovakia, Denmark, Lithuania, France, United States, Hungary, Ireland, Northern Ireland, England	Hungary, Norway, Russia, Poland, Cyprus, Australia, New Zealand, France, Northern Ireland	Belgium (Flanders), Singapore, Sweden, Poland, Australia, Norway, Czech Republic, Denmark, Germany, New Zealand, Lithuania, France, United States, Austria, Slovakia, Slovenia, Russia, Hungary, Cyprus
Average score is statistically below Canada (English)	Ireland, United States, Spain, Italy, Israel, Greece, Kazakhstan, Turkey, Chile, Mexico, Peru, Ecuador	Slovenia, Cyprus, Russia, Spain, Israel, Italy, Greece, Kazakhstan, Turkey, Chile, Mexico, Peru, Ecuador	Israel, Ireland, United States, Italy, England, Spain, Greece, Kazakhstan, Turkey, Mexico, Chile, Peru, Ecuador	Ireland, Northern Ireland, Israel, England, Italy, Spain, Greece, Kazakhstan, Turkey, Mexico, Chile, Peru, Ecuador

1. The difference in scores between those who completed PIAAC in English is the same as for those who completed it in French.  
Source: Programme for International Assessment of Adult Competencies, 2012, custom tabulation.

18. Programme for International Assessment of Adult Competencies, 2012, custom tabulation.

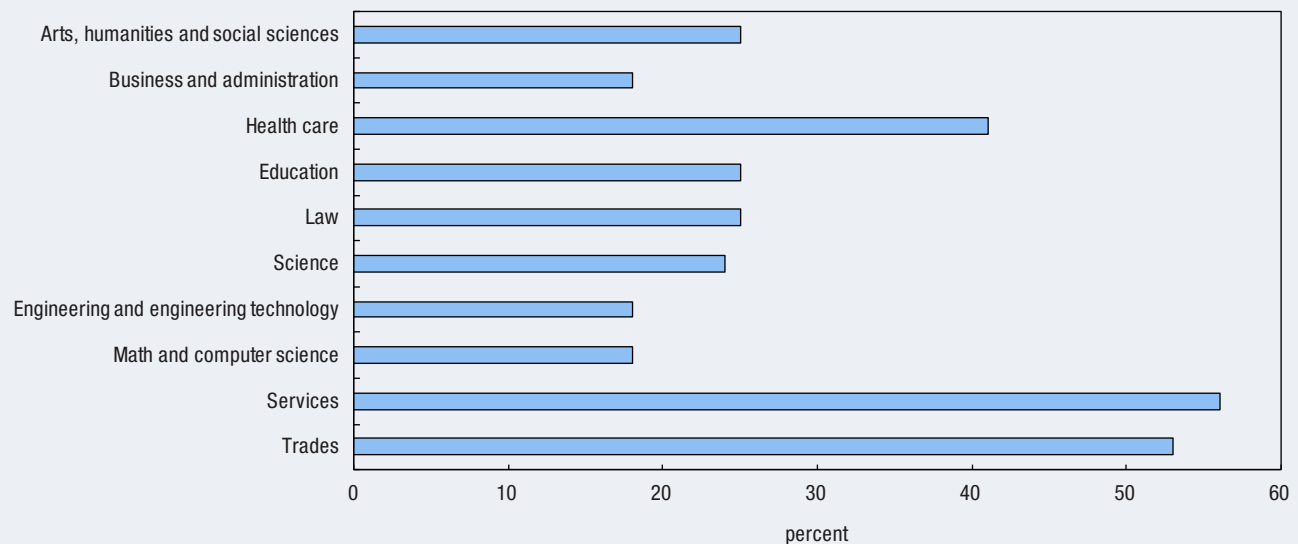
## The academic effects of COVID-19 on postsecondary students<sup>19</sup>

As mentioned above, from April 19 to May 1 2020, Statistics Canada conducted an online crowdsourcing data collection of over 100,000 students to find out how they felt the pandemic was impacting their academic, labour market and financial situation.<sup>20</sup> At this point in the pandemic, just over a quarter (26%) of students reported that their courses were either postponed or cancelled, due to the public health measures implemented to combat the spread of the COVID-19 pandemic. This proportion was similar among those who were studying towards a college or CEGEP diploma (25%), an undergraduate degree (26%) or a master's or professional degree (28%) but lower among doctoral candidates (14%).

This disruption also varied by field of study (Chart 9). It was highest for those studying in services (56%), trades (53%) or health care (41%). This was probably because these fields of study are more likely to include job placements or course work that requires hands-on instruction that cannot be delivered online.

**Chart 9**

**Proportion of participants reporting having some courses cancelled or postponed this term, by field of study, 2020**



**Source:** Statistics Canada, Impacts of the COVID-19 pandemic on postsecondary students, 2020.

Almost all of the participants at this point in the pandemic reported that some or all of their courses had been moved online, with small proportions reporting that none of their courses had moved online (2%) or that they were not taking courses, as they were working on a thesis or on a work placement (6%).

The move to online learning, however, was not smooth for everyone. Among participants who reported that their courses had moved online, 7% reported that they were unable to complete some or all of these courses. This proportion was slightly higher for those studying towards a college or CEGEP diploma (9%) compared with those studying at the undergraduate level (7%), a master's or professional degree (6%) or a doctorate (6%). Notably, among participants studying towards the trades, this proportion was higher at 13%.

19. Doreleyers, April and Tamara Knighton. COVID-19 Pandemic: Academic impacts on postsecondary students in Canada. *StatCan COVID-19: Data to insights for a better Canada*, 2020.

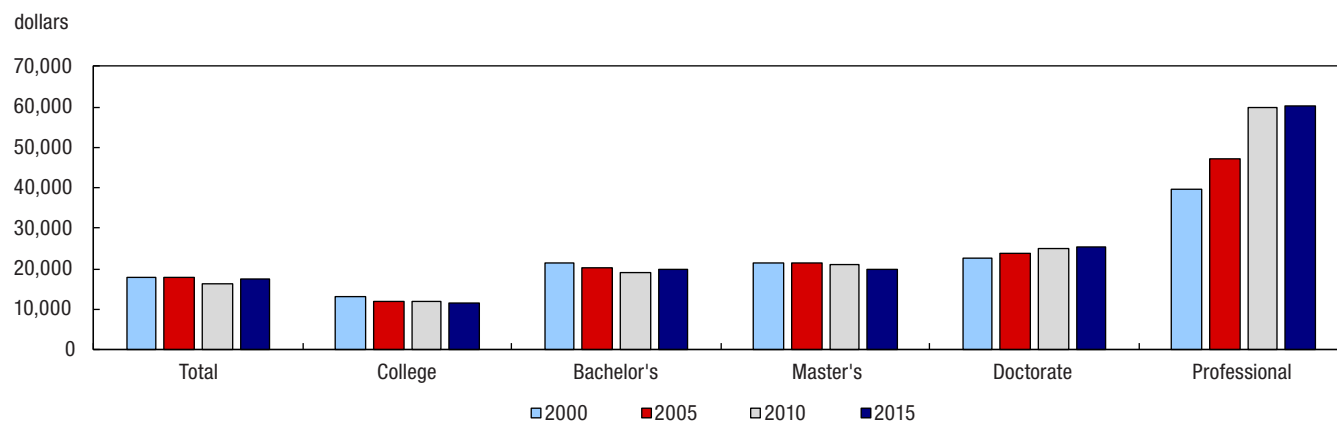
20. Unlike other surveys conducted by Statistics Canada, crowdsourcing data are not collected under a design using probability-based sampling. As a result, the findings reported below cannot be applied to the overall postsecondary student population in Canada, but rather only to those who participated in the questionnaire.

## Student debt has remained steady over the past 15 years, except for professional degree-holders

In order to finance their postsecondary studies, young people often take out student loans. In 2018, just over half (54%) of graduates aged 15 to 30 years old graduated with student debt. This proportion was slightly higher for women (55%) than it was for men (52%), and slightly lower for youth belonging to groups designated as visible minorities (51%), especially Black youth (47%). The average student debt owed at graduation for those with debt was \$23,000. This figure was slightly higher for women (\$24,000) and graduates designated as visible minorities (\$25,000) but lower for Black graduates (\$19,700).<sup>21</sup>

A recent study<sup>22</sup> has shown that both the proportion of graduates with debt and their average debt has remained relatively stable since 2000, with the exception of professional degree graduates, which have seen a gradual increase in median student debt over this period (Chart 10). This is related to the increasing costs of these programs. By 2014/2015, tuition fees for programs such as dentistry (\$18,118), medicine (\$12,987), pharmacy (\$11,273) and law (\$10,563) were much higher than those for all other fields of study (\$5,998).

**Chart 10**  
Median student debt at graduation, by level of study, classes of 2000 to 2015



**Notes:** Median debt represents the median dollar amount of student debt from all sources of loans, for graduates who did not pursue further postsecondary education by the time of interview and who reported a debt amount greater than zero at graduation.

For the classes of 2000 and 2005, the interview took place two years after graduation, and for the classes of 2010 and 2015, the interview took place three years after graduation.

Statistical testing between cycles is not possible because of differing methods of variance estimation over time.

Estimates exclude graduates who pursued further postsecondary education by the time of interview. Dollar values are adjusted to 2015 constant dollars using the Consumer Price Index.

**Source:** Statistics Canada, National Graduates Survey, classes of 2000 to 2015.

## A higher proportion of postsecondary-educated young adults are employed

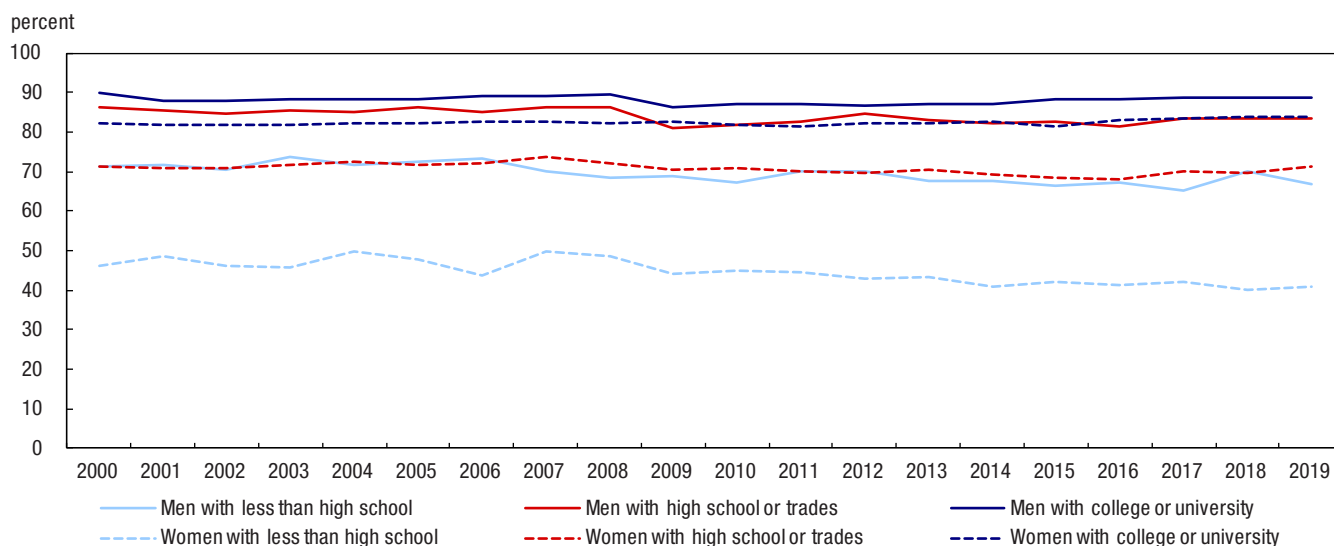
As the proportion of young adults with a postsecondary education has risen, just over half have taken on student debt to finance their studies. Spending time in school rather than in the labour market, and acquiring debt to do so in many cases, may be a sensible investment if the payoff justifies the cost. Chart 11 suggests that this is the case, showing employment rates among Canadians aged 25 to 34. While there has been some variation in the employment rates over time for all of the groups presented in Chart 11, the differences between employment rates by level of education are mostly constant over time, with employment rates rising as education level does.

One exception is women without a high school diploma, whose employment levels have dropped from a high of 50% in 2004 to 41% in 2019. For these women, the difference between their employment rates and the employment rates of women at other education levels has widened.

21. National Graduates Survey, Class of 2015, custom tabulations for the youth data hub.

22. Galarneau, Diane and Laura Gibson. Trends in student debt of postsecondary graduates in Canada: Results from the National Graduates Survey, 2018. *Insights on Canadian Society*, August 2020.

**Chart 11**  
**Employment rates for 25- to 34-year-olds, by educational attainment and sex, 2000-2019**



Source: Statistics Canada, Labour Force Survey, 2000 to 2019.

Chart 11 also shows a significant difference in employment rates for men and women. Taking the most recent year (2019) as an example, the difference between sexes is largest for young adults who do not have a high school diploma—67% of men without a high school diploma were employed, compared to 41% of women. While college or university educated men also have higher employment rates (89%) than their similarly educated female counterparts (84%), the difference is smaller.

### Earning trajectories for postsecondary graduates still higher

Not only do postsecondary graduates have higher employment rates, but they also have higher average earnings. As seen in Chart 12, there is a positive association between educational attainment and earnings. In addition, the earnings premium associated with a university education is higher among older workers. For example, university educated workers aged 55 to 64 earn on average \$52,782 more than high school graduates in the same age group. By contrast, university graduates aged 25 to 34 earned on average \$18,868 more than similarly aged secondary school graduates.<sup>23</sup>

With an increasing proportion of young people holding a postsecondary credential, there could be an over-supply of postsecondary graduates on the labour market, and potentially lower income trajectories. However, a recent longitudinal analysis<sup>24</sup> of the earnings of young people who have entered the labour market more recently than a previous cohort reveals that this has not been the case.

The study found that when comparing young postsecondary graduates who were 26 to 35 years old in 2001 versus graduates who were the same age in 1991, the more recent cohort had higher median cumulative earnings.<sup>25</sup> This proved to be true at all postsecondary levels and across most major disciplines.

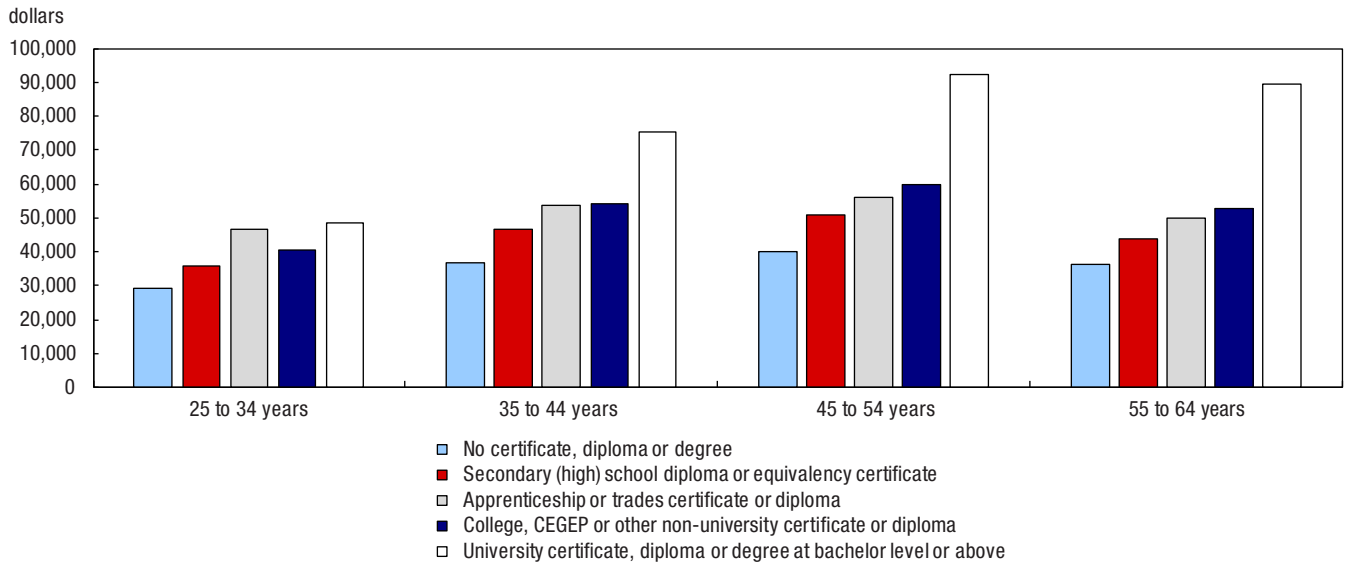
23. Statistics Canada, 2016 Census of Population, Statistics Canada Catalogue no. 98-400-X2016178.

24. Frenette, Marc. Are the career prospects of postsecondary graduates improving? *Analytical Studies Branch Research Paper Series*, January 2019.

25. Median cumulative earnings are the cumulative sum of total earnings over the 15-year period of the study. Total earnings are the sum wages and salaries shown on the T4 Statement of Remuneration Paid; net self-employment income from business, commission, farming, fishing or professional sources; and other employment income.

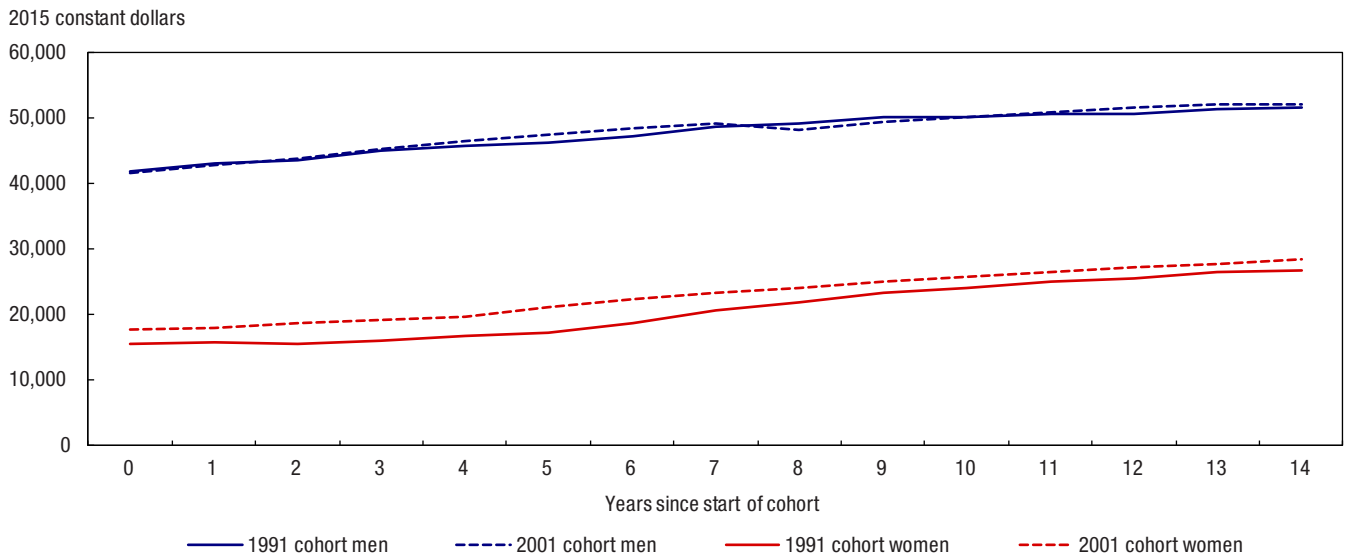
Charts 13 and 14 present the median annual earnings for individuals with a high school diploma and individuals with a bachelor’s degree during a 15-year follow up period (until they reached 40 to 49 years of age). Annual earnings during each of those 15 years were greater among the more recent cohort of male bachelor’s degree graduates, while no substantial differences are observed between the two cohorts of male high school graduates. For women, earnings were higher among the more recent cohort for high school graduates and bachelor’s degree graduates, although the difference was larger among bachelor’s degree graduates. The study notes that men earned more than women across all education levels and fields of study. While many factors could be responsible for this earnings difference, it is important to note that individuals who did not work or who worked part-time were included in the sample and therefore these differences in earnings will be sensitive to differences in hours worked.

**Chart 12**  
Average wages, salaries and commissions by highest level of education and age group, Canada 2016



Source: Statistics Canada, Census of Population, 2016.

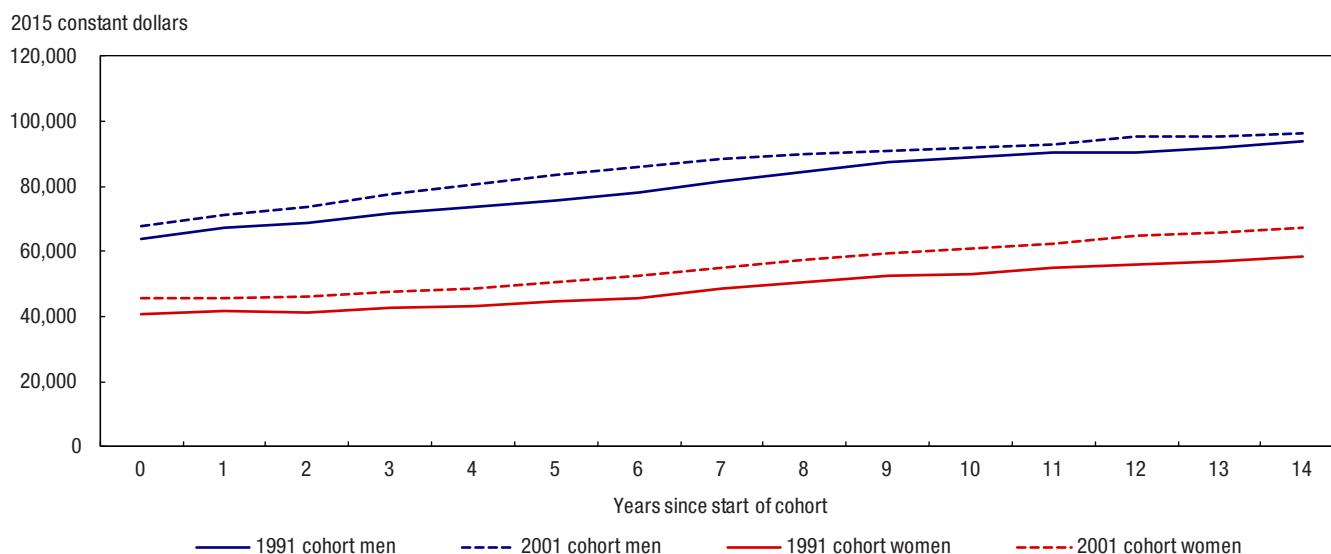
**Chart 13**  
Median annual earnings by cohort - men and women with a high school diploma



Source: Statistics Canada, Census of Population - T1 Personal Master files.



**Chart 14**  
**Median annual earnings by cohort - men and women with a bachelor's degree**



Source: Statistics Canada, Census of Population - T1 Personal Master files.

In general, higher levels of education are associated with higher median cumulative earnings. For example, male bachelor's degree graduates in the more recent cohort earned \$1,292,247 over the 15-year period. By contrast, male high school graduates earned \$723,499 (a difference of \$568,748). For women in the same education categories, the gap was \$472,270. These earnings differences (\$568,748 and \$472,270) are substantially larger than the average debt levels at graduation among postsecondary graduates (\$23,000 among those with debt, and roughly half that among all graduates when those with no debt are included). Moreover, the cumulative earnings differences shown in the study typically only cover about half of a typical career.<sup>26</sup>

## The financial impacts of COVID-19 on recent graduates: potential earnings losses<sup>27</sup>

In the wake of the COVID-19 pandemic and the lockdowns that followed to curb the spread of the virus, there has been an economic slowdown in Canada. Normally during recessions, new entrants to the labour market experience the greatest rises in unemployment rates. A less than favourable start to one's career may have implications not only in the short term, but also in the long term, as graduates may not be matched favourably to jobs at the outset of their career.

Early in the pandemic, a study examined what might happen to the earnings of the class of 2020 depending on the youth unemployment rate during the entirety of 2020. It found that if the rate remained close to the historic highs registered during the early part of the pandemic (i.e., 28%), then the class of 2020 could lose \$25,000 or more over the next five years. However, if the youth unemployment rate was somewhat lower at 19% (where it is right now), potential losses could range from \$8,000 to \$15,000. The study also found that female graduates may be hit harder than their male counterparts, as could high school graduates compared to postsecondary graduates.

26. One important factor to keep in mind is that the earnings differences shown in the study do not necessarily represent the causal effect of education on cumulative earnings. Moreover, earnings are subject to taxation, and attending school for more years involves foregoing earnings during that time in many cases. A cost-benefit analysis would take these factors and others into consideration, but this is well beyond the scope of this overview.

27. Frenette, Marc, Derek Messacar and Tomasz Handler. Potential earnings losses among high school graduates and postsecondary graduates due to the COVID-19 economic downturn. *Economic Insights*, July 2020. No. 114. All figures quoted in the text box are in 2016 constant dollars.

## Conclusion

The proportion of young Canadians aged 25 to 34 who have a postsecondary qualification is at an all-time high of 73%. In addition, this age group has the highest average literacy and numeracy scores, compared with all other age groups. Young Canadians are highly educated and compare favourably to their counterparts in other OECD countries in terms of both educational attainment and literacy.

However, significant differences remain in levels of education among population groups. For example, the proportion of youth not in a group designated as a visible minority (9%) and Black youth (8%) who have not attained a high school diploma is higher than for other groups such as South Asian (3%) and Chinese youth (2%). In addition, while both sexes have experienced an increase in university attainment, it is more pronounced among young women. Finally, while there have also been some gains in postsecondary participation for youth from the lowest income quintiles, and it has been faster than the gains for those at higher income quintiles, a substantial gap still remains between these groups.

In order to finance their studies, at least half of postsecondary graduates reported that they took on debt. These student debt levels have remained fairly constant over the past 15 years or so, with the exception of those studying in professional degrees, who registered increasing average debt levels over the same time period.

Nevertheless, once they reach the labour market, postsecondary graduates have higher employment levels and higher average and median incomes. This has remained true even with an increasing proportion of young people attaining a postsecondary education. In general, the cumulative earnings premium associated with a postsecondary education is far greater than the average student debt levels.

The COVID-19 pandemic has proven to have multiple effects on Canadian youth and their postsecondary education experiences. Young people who were in postsecondary education during the pandemic had their classes quickly moved online, and for those whose fields of study did not allow for online study (for example, disciplines that require a work or lab component) this has proved to be particularly challenging. Financially, with fewer opportunities to earn money, young people have indicated that they are concerned about how they will finance their education. Finally, with an uncertain near-term economic future, young graduates arriving on the labour market in this environment may see earnings losses, which may continue years after the end of the pandemic and the economic crisis in its wake.