

# THE IMPACT OF AI-POWERED TOOLS ON LABOUR MARKET

## **The Impact of AI-Powered Tools on the Labor Market and Employment in Canada**

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**Abstract:** Artificial Intelligence (AI) is a groundbreaking technology that empowers computer systems to perform tasks that traditionally relied on human intelligence. This transformative capability has sparked discussions about its potential impact on employment and the labor market. We found that, based on 5-digit NOC, the top 10 highly AI-exposed occupations are financial managers, business development officers and market researchers and analysts, banking and other investment managers, securities manager, trust officers, accountants, investment analysts, notaries public, financial auditors, lawyers and Quebec notaries in Canada. Considering the training and education, 15% Canadian occupations typically require a university degree, of which 70% of them are highly exposed to AI. Considering the broad occupational category, our findings also reveal that over 90% of occupations in "Business, finance, and administration occupations" and "Legislative and senior management occupations" are highly exposed to AI all of which employ of total 5,266,400 individuals in Canada. The highest exposed occupational category is "Business, finance, and administration occupations" with a 16.28% employment rate to a total of 3,284,000 employed people in Canada.

**Keywords:** ChatGPT, artificial intelligence, technology, labor market, employment, occupations, workforce, NOC

## Introduction

Artificial Intelligence (AI) rapid advancements technology, particularly rooted in Machine Learning and Generative AI, has had significant impact or seemed to have significant impacts on various industries and business, from the way in which they communicate, sell, operate, or carry out the activities. Therefore, this has initiated conversation around the potential impact on employment and labor market. This research outcomes will allow individuals and businesses to recognize the necessity of gaining the required skills to adapt to the changes, and it also will enable policymakers to understand the impact of the AI on the Canadian labor market to make well-informed decisions.

To investigate this impact in Canada, we adopted the methodology by Felton et al. (2023) and leveraged the Canadian National Occupational Classification (NOC) and the OaSIS databases. Our analysis demonstrates the extent of AI's influence on the Canadian workforce and its 900 distinct occupations based on 5-digit NOC system. In this way, we construct a comprehensive list, spotlighting the occupations most susceptible to AI exposure. Furthermore, we developed a detailed examination of the aggregated findings, exploring Training & Education dynamics of the Canadian NOC (National Occupational Classification) and its 10 Broad Occupational categories to investigate the impact of the AI-powered tools. AI-exposure by occupation results is highly correlated to the results by Felton et al. (2023) showing robustness of our findings. Occupations with high exposure to AI may mean that it can be highly augmented or replaced, and this depends on the particular characteristics of each occupation; an example of this is the creative industries occupations such as content writers, film editors, and composers, which could be seen forced to augment their skills with these technologies.

## Literature Review

Artificial intelligence, as a distinct scientific field emerging from cybernetics in the late 1950s, during World War 1, set the stage for technologies capable of performing tasks that require a deeper degree of analysis (Abuselidze & Mamaladze, 2021; Mutascu, 2021). At its core, AI encompasses the development of computer systems that can perform tasks that previously needed human intelligence (Cutean et al., 2019), including reasoning, problem-solving and judgment skills.

Artificial Intelligence (AI) is also a transformative technology in which its systems function as machine-based entities that predict, recommend, and decide, impacting real or virtual environments (Lane & Saint-Martin, 2021). They use human-machine inputs, abstract perceptions into models (often via machine learning), and offer actionable choices, adapting autonomously to diverse contexts. Moreover, AI systems have the power to impact their surroundings by employing data-driven decision-making and automated processes (White House & European Commission, 2022; Lane & Saint-Martin, 2021; Briciu & Briciu, 2021). A comprehensive view of AI's scope is offered by Abuselidze & Mamaladze's analysis (2021), in which human intelligent problem-solving and machine-autonomous tasks are compared, remarking that in some cases, human capabilities have been surpassed by machine execution (Abuselidze & Mamaladze, 2021; Ngotngamwong, 2020).

The advent of AI, representing a new class of machines capable of tasks previously exclusive to humans (Mutascu, 2021), marks a significant departure from traditional technological patterns (Su et al., 2021). The synergy between AI and automation has impacted and reshaped tasks and labor dynamics, including fields such as

medicine, finance, and information technology (Frank et al., 2019). The effects of this synergy are observed not only in emerging sectors like biotechnology, advanced manufacturing, clean technology, and interactive media but also in traditional industries such as food and agriculture (Cutean et al., 2019).

Deloitte (2017) examined the "Intelligence Revolution" in Canada; this movement is based on advancements in machine learning, data storage, and computational power. Within the AI landscape, machine learning emerges as a transformative force that allows machines to solve problems by trial and error that, when accompanied by a robotic process, replaces repetitive human tasks, which is called Robotic Process Automation (RPA) (Deloitte, 2017). The AI revolution unfolds against the backdrop of concerns about displacement and unemployment (Makridakis, 2017; Frank et al., 2019). In the 4th industrial revolution context, AI is expected to polarize jobs into winners and losers, shifting the relative demands in the job market (Abuselidze & Mamaladze, 2021). Autor et al. (2022) assure that in the last 40 years, the demand-eroding effects of automation have been more significant than the rise of new jobs demand; however, AI can also work by augmenting human labor by synergizing AI and other technologies (Autor et al., 2022; Hatzius et al., 2023).

Human and artificial intelligence fusion is a powerful dynamic, leading to improved organizational efficiency (Ngotngamwong, 2020); for this reason, AI can augment human labor and amplify productivity; this is why it is an attractive and relevant technology for organizations (Strack, 2021; Autor et al., 2022; Deloitte, 2017; Autor, 2022). This has caused large companies to start incorporating this technology into their processes; in this sense, Deloitte's (2017) Human Capital Trends report found that 41

percent of companies have already fully implemented or made significant progress in adopting cognitive and AI technologies in their workforce.

The figures of these companies incorporating artificial intelligence technology into their processes raise concerns about the potential impact that this may have on the labor market. On the one hand, due to the nature of technology, it can be expected that the augmentation empowers workers to elevate their quality outputs and creates new demands for specialized expertise and human enhancement technologies (Autor et al. 2022; Deloitte, 2017). However, the effect of automation on employment is not completely clear and could range from 9% to more than 50%, depending on methodology and country (Frank et al., 2019). Nonetheless, Frank et al. (2019) remarked that not always concerns around automation have materialized in widespread unemployment.

Most of the current occupations were consolidated after 1940, and over the last 80 years, new occupations have constantly appeared to meet the businesses' needs. Initially, most 'new jobs' were around middle-paid production and clerical occupations; later, this "new jobs" category shifted to high-paid professionals and, secondarily, low-paid services since 1980 (Autor et al., 2022). Augmentation is heavily linked to new task creation; however, it does not predict where the new work will be (Autor et al., 2022). In this context, it seems that repetitive tasks will be managed by computers while elements based on judgment will be conducted by humans (Deloitte, 2017). These new technologies are expected to eliminate, change and create new jobs that will require a focus on diverse soft skills such as empathy, leadership and global awareness (Briciu & Briciu, 2021). Frank et al. (2019) refers to this process as the 'creative destruction' in which new industries and jobs are developed based on technological advancements.

Recent research in the United States has shown how some occupations are more exposed to artificial intelligence than others. Hatzius et al. (2023), in their research for Goldman Sachs, entitled "The Potentially Large Effects of Artificial Intelligence on Economic Growth," found that two-thirds of occupations in the United States are exposed to AI automation at different levels ranging from 25% to 30% of the workload with a chance to be replaced. Another of their findings was that they estimated that one-fourth of work tasks could be automated by AI in the United States, identifying administrative and legal occupations as the ones that could have the greatest exposure. In the same line, the research titled "How will Language Modelers like ChatGPT Affect Occupations and Industries" by Felten et al. (2023) also found that other occupations, such as telemarketers and a wide variety of post-secondary, also had high exposure to AI, suggesting that these occupations could be augmented or replaced, depending on each occupation. Felten et al. He added that among the industries with the greatest exposure are securities, commodities, investments, and legal services.

In the context of Canada, it is noteworthy to observe that nations characterized by high levels of automation tend to exhibit low unemployment rates (Manyika et al., 2017). Moreover, advanced economies often encounter a situation where the scarcity of automation becomes more pronounced than the excess of it (Felten et al., 2023), leading to the consideration that the challenge lies more in the deficiency of automation rather than an excess of it. The 2020 pandemic has speeded up the embrace of AI technologies, highlighting the urgency of developing a proficient workforce. Canada's digital workforce can be bolstered through upskilling initiatives and cross-training programs. Such endeavors hold the potential to unlock fresh employment prospects and novel career



trajectories for workers (Hamoni et al., 2021). Additionally, workers born outside the country represent a vital source for Canada's digital economy (Cutean et al., 2019). According to The Information and Communications Technology Council (ICTC) 2019 report, the demand for digitally skilled workers is expected to reach more than 300,000, leading to 2.1 million people employed in the digital economy (Cutean et al., 2019); to put this in perspective, the number of workers is close to half of New Zealand population.

To be sustained in the long term, the development of digital workers in Canada should not solely focus on technical skills; instead, it should also be focused in terms of sustainable capabilities that are portable and transferable between many occupations, such as collaboration, adaptability, and conceptual thinking, talents that AI cannot compete in foreseeable future (Deloitte, 2017; Frank et al., 2019).

Since automation, artificial intelligence and technology have a great impact on organizations, their productivity and their processes, it causes great uncertainty knowing how these advances will affect the labor market around the world, especially in advanced countries who are expected to implement these technologies first. In this sense, Acemoglu & Autor (2011) ensure that middle-skilled employees, both at a cognitive and manual work level, are some of those who can be replaced, such as bookkeeping or monitoring jobs, due to their functions they can be codified and programmed to be made by a computer (Acemoglu & Autor, 2011). Although the above can mean an unfavourable impact for the labor market, according to Manyika et al. (2017), not everything is negative, since the other side of the coin is that it can also have a positive impact on productivity, since those employees who rely on technology may be more efficient (Acemoglu & Restrepo, 2020). Autor et al. (2022) confirm both effects on the

labor market, assuring that technological advances increase the demand for new jobs that may not even exist yet, but they also warn of the depression of current jobs that can be replaced due to their high exposure (Autor et al., 2022).

The effects of technology have not been analyzed by researchers only in the United States; other countries have also focused their studies on knowing how artificial intelligence and automation can affect the labor market. According to Zhou et al., (2020), the replacement of employees in China by AI affects women more than men, likewise it increases in the population with lower income, less education and increases from 41 years of age (Zhou et al., 2020). Regarding the opening of new jobs, in Europe there has been an increase in the demand for AI-related labor, who also receive 3% higher wages compared to non-AI employees (Nestor et al. ,2022). These results also extend to other countries such as France, where it was also found that uneducated employees are more affected by automation than educated workers. As per Hatzius et al. (2023) two-thirds of US occupations of which forms 25-50% of the workload are at high risk to be replaced by AI.

In the case of Canada, the impact that automation can have on the labor market has also been confirmed. This automation includes repetitive and routine tasks that can be coded and programmed on a computer. This technology puts at risk about 10.6% of Canadian workers who have a high probability of being replaced by automation (Frenette & Frank, 2020; Frenette & Frank, 2020). Considering artificial intelligence such as those present in new technologies such as GPT Chat, an increase in the demand for digitally skilled workers is expected (Cutean et al., 2019), also increasing the potential earnings in certain professions related to technology (Hermus & Sopchokchai, 2022).

These investigations focus on the impact of automation; however, the strong arrival of artificial intelligence, thanks to the launch of Chat GPT by Open AI, has focused on how this technology and others associated with artificial intelligence will impact the Canadian labor market. Previous research shows that this technology will promote the automation of more than 300 million jobs worldwide, increasing productivity, reflected in an annual increase of 7% of GDP in the next ten years (Acemoglu et al., 2020). This research focuses on analyzing the potential impact of artificial intelligence on the Canadian labor market, measuring the level of exposure of occupations to AI and identifying the occupations with the highest exposure to this technology and the industries to which these occupations belong.

## **Methodology**

The primary objective of this methodology is to gain a comprehensive understanding of the exposure of Canadian jobs to AI-powered tools like ChatGPT; the exposure refers to the potential impact that the AI can have on the occupations, which may result in substitution or augmentation depending on occupational traits such as task complexity, automation potential and data availability. To achieve this objective, we use a methodology that combines human data and AI capabilities to assess the level of AI involvement in various occupations within Canada.

Our methodology is built upon the foundation established by Felton et al. in their 2023 article titled "How will Language Modelers like ChatGPT Affect Occupations and Industries?" This article is also the base paper for this research and provides valuable insights into the implications of AI on occupations and industries, serving as a starting point for our own analysis.

Felton et al. (2023) uses the data from the Occupational Information Network (O\*NET) by the United States Department of Labor database. O\*NET provides details about 900+ occupations covering work units such as 'work activities,' 'abilities,' and 'skills.' In Felton et al. (2023) article, 52 human abilities are weighted by "prevalence" and "importance" to describe O\*NET occupations (United States Department of Labor, n.d.).

### **Data Sources**

To gather information about the human workforce in Canada, we rely on the Occupational and Skills Information System (OaSIS) database. This database contains information on 900 different job occupations in Canada according to the last modification made on August 1, 2023, classified using the National Occupational Classification (NOC) system 2021 Version 1.0, which shows a 5-digit hierarchical structure in its classification (Government of Canada, 2023). Later, this version was disaggregated from 516 NOC unit groups to 900 7-digit occupational profiles. For this research, this expanded version of the 7-digit was used. Each occupation is associated with a set of 49 abilities, ranging from skills such as information ordering and numerical ability to attributes like night vision and body flexibility. Notably, OaSIS provides a complexity level (Proficiency) for each ability, graded on a scale of 1 to 5.

To connect abilities in each occupation to AI applications, we rely on Felton et al. (2023) article, which provides the result of their crowd-sourced matrix that assesses how AI applications are associated to human abilities. The original support article linked 10 AI applications based on Electronic Frontier Foundation (EFF) data to the 52 O\*NET human abilities and then ability AI exposure rate is calculated using the crowd-sourced

matrix. The values from this matrix (ability AI exposure rate) are used as weights (A) in our basic calculations are displayed in Table 01.

### **Ability Exposure Matching**

Despite the similarities between OaSIS (Canada database) and O\*NET (US database), there are minor differences in the numbers, names and definitions of the abilities in these datasets. To be able to use AI ability exposure rate in Felton et al. (2023) article, a precise matching of the O\*NET abilities with OaSIS abilities was done. According to the database, O\*NET has 52 abilities (Onet Online, n.d.), while OaSIS has 49 abilities (Government of Canada, n.d.). To perform the matching, first of all, the abilities that had the same name in both databases were matched, confirming through their definitions that they referred to the same ability. Then, the abilities definitions that refer to the same process were carefully checked for abilities with different names. like Time Sharing (O\*NET) and Multitasking (OaSIS). During this stage of the matching process, it was found that Canada groups certain abilities, such as Oral Comprehension and Oral Expression, in O\*NET, which is grouped into a single ability called Verbal Ability in OaSIS. The same applies to the Dynamic Flexibility and Extent Flexibility abilities in O\*NET, which are grouped into the OaSIS Body Flexibility ability according to their definitions. Finally, the ability of Originality was found in O\*NET, which was not considered for this analysis since a similar ability was not found in OaSIS Canada. Since the 49 OaSIS Canada skills were found and matched with the O\*NET abilities, the decision to exclude the Originality ability does not affect or compromise the results obtained (see appendix 1).

**Table 01**

*Occupation Exposure Score by Ability for OaSIS Canada adopted from Felton et al.*

*(2023) after matching*

<b>Abilities Canada</b>	<b>AI Exposure Score</b>
Information Ordering	1.908
Memorizing	1.686
Patter Organization speed	1.377
Pattern Identification	1.36
Categorization Flexibility	1.276
Perceptual Speed	1.24
Selective Attention	1.151
Deductive Reasoning	1.04
Speech Recognition	0.972
Inductive Reasoning	0.964
Multitasking	0.67
Auditory Attention	0.66
Verbal Ability	0.61
Speech Clarity	0.568
Written Comprehension	0.563
Problem Identification	0.538
Mathematical Reasoning	0.486
Numerical Ability	0.483
Written Expression	0.458
Spatial Visualization	0.449
Multi-signal response	0.437
Hearing Sensitivity	0.434
Colour Perception	0.415
Fluency of Ideas	0.401
Spatial Orientation	0.375
Sound Localization	0.317
Near Vision	0.15

Reaction Time	0.117
Depth Perception	0.067
Control of Settings	0.032
Rate Control	-0.135
Far Vision	-0.197
Glare Tolerance	-0.287
Peripheral Vision	-0.33
Night Vision	-0.377
Finger Dexterity	-0.907
Finger-Hand-Wrist Motion	-1.051
Manual Dexterity	-1.053
Arm-Hand Steadiness	-1.125
Multi-Limb Coordination	-1.151
Speed of Limb Movement	-1.302
Gross Body Coordination	-1.355
Gross Body Equilibrium	-1.417
Body Flexibility	-1.505
Stamina	-1.514
Static Strength	-1.562
Dynamic Strength	-1.582
Explosive Strength	-1.599
Trunk Strength	-1.721

*Note.* Crowd-sourced matrix AI exposure Score. Adapt from *How will Language*

*Modelers like ChatGPT Affect Occupations and Industries?* - Felten et al. 2023.

<https://doi.org/10.48550/arXiv.2303.01157>

### **Exposure Calculation**

Our methodology involves calculating the **Occupation Exposure (OE)** score for each occupation. This score is computed by summing the abilities of each occupation, weighted by their respective exposure to AI applications. Mathematically, the OE score is

determined by dividing the sum of abilities weighted by their AI exposure by the total sum of abilities. The formula can be expressed as follows:

$$OE_k = \frac{\sum_{j=1}^{49} A_{ij} \cdot C_{ij} \cdot I_{ij}}{\sum_{j=1}^{49} C_{ij} \cdot I_{ij}}$$

In the equation,  $A_{ij}$  refers to the exposure level of abilities obtained from Felton et al. (2023) using crowd source matrix. This data is first obtained by adopting the results of the AI Occupational Exposure (AIOE) measure from Felten et al. (2023), which was then compared through a matching process to the abilities of OaSIS Canada (See table 01 and appendix 1). On the other hand,  $C_{ij}$  refers to the complexity level of each ability in tech occupation on a 1 to 5 scale. Lastly,  $I_{ij}$  refers to the level of importance. Due to the lack of available data of the importance of each ability in Oasis, we assume  $I_{ij} = 1$  for simplicity. This assumption did not have significant impact on the results when compared to the findings of Felton et al. (2023) therefore it is not a heavy assumption in our studies. The correlation test results attest to the claim.

## **Data Analysis and Results**

### **Top AI exposed Occupations**

As a result of this research, the occupational exposure score was found for each of the 900 occupations according to the Occupational and Skills Information System (OaSIS) of Canada (See Appendix 2). This exposure was located between a range of - 0.401 and 0.882

Table 02 shows the 20 occupations with the highest exposure level with the broad occupational category to which they belong, according to the OaSIS database. Of these



20 occupations, 11 are from the Business, finance and administration categories.

Likewise, six belong to the category of Occupations in education, law and social, community and government services, and finally, three belong to the category of Legislative and senior management occupations.

**Table 02**

*Top 20 occupations with higher rates*

<b>Code</b>	<b>OaSIS Occupations</b>	<b>Broad occupational category</b>	<b>OE</b>
10010.00	Financial managers	Business, finance and administration occupations	0.882
41402.00	Business development officers and market researchers and analysts	Occupations in education, law and social, community and government services	0.877
10021.01	Banking and other investment managers	Business, finance and administration occupations	0.877
10020.04	Securities manager	Business, finance and administration occupations	0.868
11109.04	Trust officers	Business, finance and administration occupations	0.867
11100.02	Accountants	Business, finance and administration occupations	0.866
11101.02	Investment analysts	Business, finance and administration occupations	0.860
42200.03	Notaries public	Occupations in education, law and social, community and government services	0.858
11100.01	Financial auditors	Business, finance and administration occupations	0.857
41101.00	Lawyers and Quebec notaries	Occupations in education, law and social, community and government services	0.857
00012.00	Senior managers - financial, communications and other business services	Legislative and senior management occupations	0.849
10011.00	Human resources managers	Business, finance and administration occupations	0.846

42200.05	Justice of the peace	Occupations in education, law and social, community and government services	0.846
00013.00	Senior managers - health, education, social and community services and membership organizations	Legislative and senior management occupations	0.844
00014.00	Senior managers - trade, broadcasting and other services	Legislative and senior management occupations	0.842
41100.00	Judges	Occupations in education, law and social, community and government services	0.840
42200.04	Trademark agents	Occupations in education, law and social, community and government services	0.832
11109.01	Financial examiners and inspectors	Business, finance and administration occupations	0.830
10022.04	E-business managers	Business, finance and administration occupations	0.829
11101.01	Financial analysts	Business, finance and administration occupations	0.828

It is important to highlight that the occupational exposure score implies the level at which an occupation can be augmented or substituted thanks to artificial intelligence and that the fact that one of the two actions occurs will depend on other factors directly related to each occupation. In this sense, occupations such as Human Resources Manager could be at risk of being substituted by AI due to the use of new technologies that streamline decision-making processes or, on the contrary, could be augmented by incorporating other AI technologies that help improve efficiency.

For further analysis, all 900 occupations were divided into three categories based on the exposure rankings: High exposure, medium exposure, and low exposure. The high exposure category includes occupations with scores between 0.412 and 0.882; medium

exposure category has occupations scored between 0.016 and 0.409 and finally, the low exposure occupations score has ranges between -0.401 and 0.015.

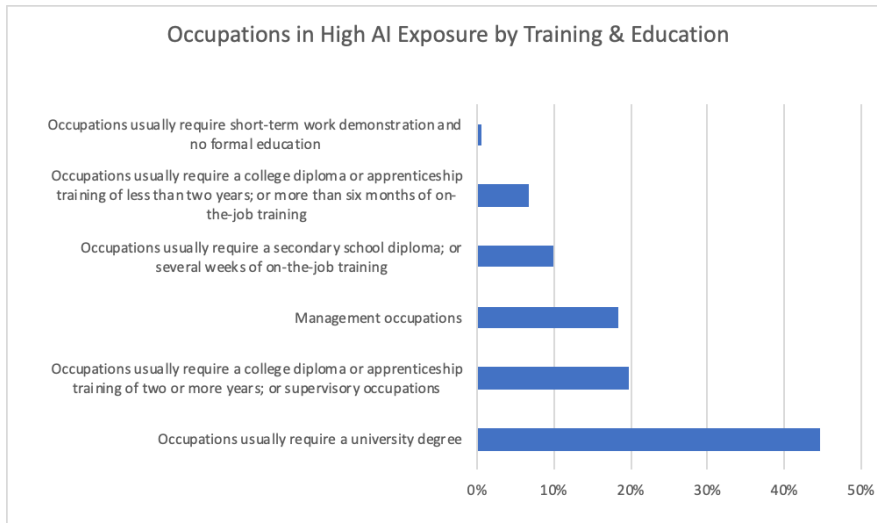
We differentiate exposure from impact in our research. Our results and findings show that all occupations are exposed to AI-powered tools. However, the degree to which each occupation is exposed will be different. Therefore, we call the difference of level of exposure as an impact from high to medium to low. On other words, the occupational exposure score implies the level at which an occupation can be augmented or substituted by AI-powered tools. The level of impact can vary depending on each occupation's particular characteristics.

### **Training & Education**

The government of Canada's National Occupational System NOC and the database OaSIS provide data to observe which level of education or training required for each of its 900 occupations. To analyze the impact of AI on occupations through the lens of Training and Education. Our analysis reveals those occupations in the category "Occupations usually require a university degree," including roles like "market researchers, and accountants" is the most relevant category featured in the group with 'High exposure to AI.' Remarkably, this group constitutes a substantial portion of Canada's occupations, accounting for 45% of all occupations in High exposing to AI and 21% of the total 900 OaSIS (Occupations and Skills in the Service Sector) occupations (see figure 01).

### **Figure 01**

*Canadian Occupations in High Occupation Exposure by Training & Education*



*Note.* The "High AI Exposure" category includes occupations that are particularly susceptible to AI advancements, as determined by our analysis. The data presented in this figure is based on the National Occupational Classification (NOC) Canada and OaSIS databases.

### **Broad occupational category**

Analyzing the broad occupational category NOC in Canada (10 categories, see table 04) helps us understand the highly exposed occupations in broader category. As shown in Table 04, NOC's first digit refers to these broad occupational categories. These ten categories represent the industry of employment or field of study needed to enter an occupation (Employment and Social Development, 2023b).

**Table 03**

*Broad Occupation Categories and Employment in Canada 2023 (x1,000)*

<b>10 broad occupational categories</b>	<b>Employed</b>
0 – Legislative and senior management occupations	1,982.40
1 – Business, finance and administration occupations	3,284.00
2 – Natural and applied sciences and related occupations	1,776.30

3 – Health occupations	1,560.10
4 – Occupations in education, law and social, community and government services	2,311.80
5 – Occupations in art, culture, recreation and sport	690.9
6 – Sales and service occupations	4,395.00
7 – Trades, transport and equipment operators and related occupations	2,964.30
8 – Natural resources, agriculture and related production occupations	353.5
9 – Occupations in manufacturing and utilities	848.1

*Note.* Broad Occupations in Canada and its employment. Adapted from *Labor force*

*characteristics by occupation, monthly, unadjusted for seasonality, inactive.*

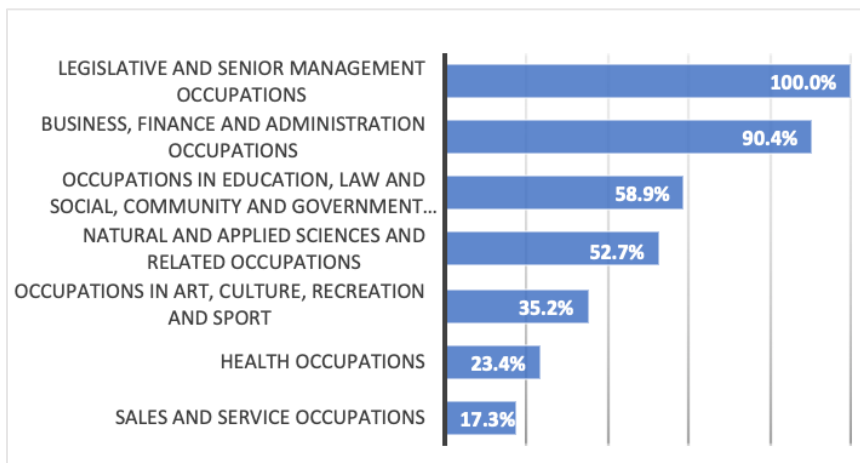
<https://www150.statcan.gc.ca/t1/tb11/en/tv.action?pid=1410029601> by Government of Canada, Statistics Canada by Government of Canada, Statistics Canada.

Our findings reveal that 100% of occupations in "Legislative and senior management occupations", over 90% of occupations in "Business, finance, and administration occupations", and 58.2% of occupations in "Occupations in education, law and social, community and government services" are highly exposed to AI (see figure 02). Regardless of the level of AI exposure, these 3 categories employ of total 7,578,200 individuals in Canada (Government of Canada, Statistics Canada, 2023). High exposure rate in "Business, finance, and administration occupations" concerns financial and business, administrative and regulatory, and clerical supervision and support services (Employment and Social Development, 2023b), it currently employs 16% of Canadian workforce to a total of 3,284,000 (Government of Canada, Statistics Canada, 2023). "Business, finance, and administration occupations" is the most significant category in high exposure in total volume, embracing 85 occupations. In this category, financial manager has the highest AI exposure, at the top position in this analysis rank, and employment of 74,900 in 2021 (Canada, 2023b).

Notably, according to Statistics Canada (2023), Sales and service occupations are the broad occupational with the highest volume of workers responding for 21.4% of 20,166,400 total workers in Canada as July 2023 (Government of Canada, Statistics Canada, 2023). This analysis shows that 82.7% of occupations in this broad category are in low or moderate exposure to AI, and only 19 of its 110 OaSIS occupations are highly exposed to AI. "Insurance agents and brokers" is the highest rated occupation, placed on the top 23, and employment of 90,200 in 2021 (Canada, 2023).

**Figure 02**

*Percentage of Broad Category in High Occupation Exposure*



*Note.* Business, finance, and administration occupations present high exposure to AI as determined by our analysis. The data presented in this figure is based on the National Occupational Classification (NOC) Canada and OaSIS databases.

## **Correlation test of occupation exposure of our findings for Canada with findings of Felton for USA**

Felton's methodology manages O\*NET information to understand the extent to which occupations in the US are exposed to AI, such as ChatGPT. In this article, we worked on the Canadian database OaSIS to assess this effect on Canada's workforce. Due to differences in how data is presented in both databases and lack of data of importance level of occupations in OaSIS, we assumed the importance level of occupations is "1" for all occupations in Canada.

Despite the importance level assumption for occupations in Canada, the OE measure of occupation in this study is highly correlated with Felton et al. (2023) AIOE index. In this sense, the correlation analysis using the Pearson and Spearman method presents coefficients  $r = 0.888$  and  $\rho = 0.883$  close to 1. Both methods state that coefficients near 1 indicate a strong positive relationship, implying that as exposure increases in occupations in the US, it also increases for similar occupations in Canada. Figure 03 shows the strong linear relationship of both measures, which indicates that the list of exposed occupations in Felton et al. (2023) is highly correlated with the exposed occupations in this research. Furthermore, our results find resonance within the broader literature, notably aligning with research such as Goldman Sachs' report (2023). This convergence across multiple sources underscores the validity of our findings. However, considering the fast pace of changes and revolutions in AI and the effects of AI on workforce, there is a need for continuous research and updates on the approaches, analysis, and measurements.

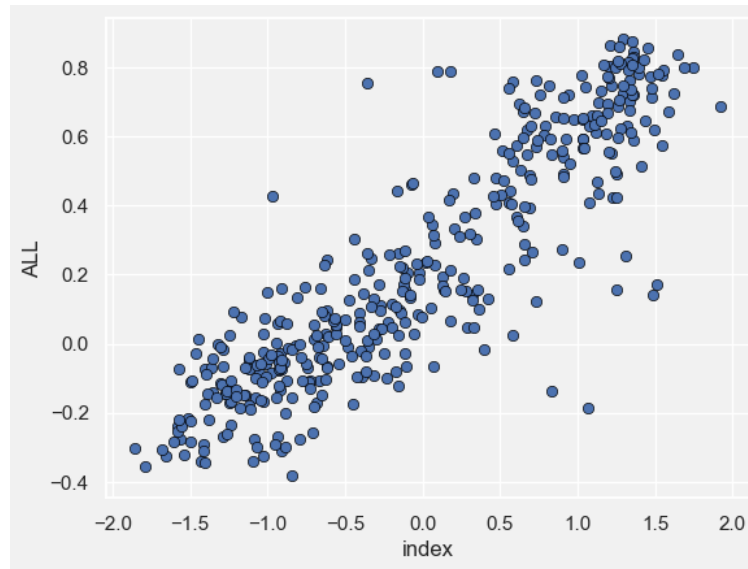
### **Table 05**

### Correlation Values

Method	Coefficient	Value
Pearson	r	0.888
Spearman	rho	0.883

**Figure 03**

### Occupation Correlation Analysis



*Note.* This scatterplot highlights the linear correlation between Felton's article and our analysis.

It is worth nothing that there are other methodologies to analyze the correlation and associations such as Covariance, and Regression analysis. However, we used the simple and common method to test this correlation. If time allowed, we could also use other methodologies.

### Limitations

Given the availability of the relevant data, imposed assumptions, and high correlation and consistency of our findings, still there are limitations in this research that requires to be discussed. The following are limitations of this research, and we hope this



will shed light for the future scholars and researchers working on this field and create potential future research opportunities to overcome the current challenges and limitations. At first, matching occupations from the US O\*NET and Canada OaSIS databases posed some challenges due to the differences in categorizing occupations. These two databases use different classification systems, which make difficult one-to-one matches. For instance, occupations may be similar in tasks and responsibilities but present different titles or descriptions. There are also differences in granularity because some occupations in one database are divided into subcategories while their counterparts in the other database are not. In addition to what was said, Felton's 2021 article only ranked 700 of 1016 O\*NET occupations.

A second limitation encountered during the analysis of occupations using the Canada OaSIS database was the absence of data detailing the importance of specific abilities within each occupation. That is to say, OaSIS does not provide a ranking or weighting of abilities based on their importance to the effective performance of specific job roles. This paper uses the value one for importance of all abilities.

A third challenge to the analysis of labor market dynamics is the limited availability of employment public data at 5-digit NOC level due to confidentiality of data at this level. To access the needed data, the request for access to this confidential data should be made which requires going through a time-consuming process. This was not feasible for our research given the limited time span we had.

A fourth limitation was the limited information about AI applications that Felton et al. (2023) used for exposure calculations. AI applications continue to change rapidly;

therefore, Occupation Exposure could change if these new applications are considered, resulting in more accurate and up-to-date results.

## **Conclusions**

This paper has adapted Felton's methodology to Canada's case to assess the impact of AI on workforce occupations. Despite the challenges to matching US and Canada data and the absence of important parameters for abilities, we found a significant positive correlation between this paper list and Felton et al. (2023) result. We also found that occupations that require a university degree are currently highly exposed to AI and that the broad occupation "Business, finance, and administration occupations" has the greatest group of occupations with High exposure to AI. Similarly, occupations with high exposure to AI also encompass occupations in the legal and professional services sector. The level of AI exposure within an occupation suggests the potential for augmentation or replacement, contingent upon the unique attributes of each profession. Further investigations using data from the occupational level are needed to explore deep aspects of employment and AI. The research results will allow individuals and businesses to identify and recognize the necessity of gaining the required skills to adapt to the changes, and it also will enable policymakers to understand the impact of the AI technologies on the Canadian labor market to make well-informed decisions.

Overall, this research aims to contribute to the studies of AI impact on the workforce, focusing on the Canadian work environment. This analysis produced relevant data for organizations in different industries and individuals.

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## Appendix

### Appendix 1

*Abilities matched from ONET to OASIS. The matching table to be written with definitions of each ability for both ONET and OASIS*

Abilities ONET (52)		Abilities Oasis (49)	
Description	Abilities	Abilities	Description
The ability to keep your hand and arm steady while moving your arm or while holding your arm and hand in one position.	Arm-Hand Steadiness	Arm-Hand Steadiness	The ability to keep your hand and arm steady while moving or holding them in one position.
The ability to focus on a single source of sound in the presence of other distracting sounds.	Auditory Attention	Auditory Attention	The ability to give full attention on a single source of sound in the presence of other distracting sounds.
The ability to generate or use different sets of rules for combining or grouping things in different ways.	Category Flexibility	Categorization Flexibility	The ability to generate or use different sets of rules for combining or grouping things in different ways.
The ability to apply general rules to specific problems to produce answers that make sense.	Deductive Reasoning	Deductive Reasoning	The ability to apply general rules to produce logical answers for specific problems.
The ability to judge which of several objects is closer or farther away from you, or to judge the distance between you and an object.	Depth Perception	Depth Perception	The ability to discern which of several objects is closer or farther away from you, or to estimate the distance between you and an object.
The ability to exert muscle force repeatedly or continuously over time. This involves muscular endurance and resistance to muscle fatigue.	Dynamic Strength	Dynamic Strength	The ability to exert muscle force repeatedly or continuously over time. This involves muscular endurance and resistance to muscle fatigue.
The ability to use short bursts of muscle force to propel oneself (as in jumping or sprinting), or to throw an object.	Explosive Strength	Explosive Strength	The ability to exert short bursts of muscle force to propel oneself (as in jumping or sprinting), to

			throw an object, or to apply force with a tool.
The ability to see details at a distance.	Far Vision	Far Vision	The ability to see details of objects and people at a distance.
The ability to make precisely coordinated movements of the fingers of one or both hands to grasp, manipulate, or assemble very small objects.	Finger Dexterity	Finger Dexterity	The ability to make precisely coordinated movements of the fingers of one or both hands to grasp, manipulate, or assemble small objects.
The ability to come up with a number of ideas about a topic (the number of ideas is important, not their quality, correctness, or creativity).	Fluency of Ideas	Fluency of Ideas	The ability to come up with multiple ideas about a topic.
The ability to see objects in the presence of a glare or bright lighting.	Glare Sensitivity	Glare Tolerance	The ability to see objects or people, in the presence of glare or bright lighting.
The ability to coordinate the movement of your arms, legs, and torso together when the whole body is in motion.	Gross Body Coordination	Gross Body Coordination	The ability to coordinate the movement of your arms, legs, and torso together when the whole body is in motion.
The ability to keep or regain your body balance or stay upright when in an unstable position.	Gross Body Equilibrium	Gross Body Equilibrium	The ability to keep or regain your body balance or stay upright when in an unstable position.
The ability to detect or tell the differences between sounds that vary in pitch and loudness.	Hearing Sensitivity	Hearing Sensitivity	The ability to detect or distinguish the differences between sounds in terms of pitch and volume.
The ability to combine pieces of information to form general rules or conclusions (includes finding a relationship among seemingly unrelated events).	Inductive Reasoning	Inductive Reasoning	The ability to combine pieces of information to form general rules or conclusions, which includes finding a relationship among seemingly unrelated events.

The ability to arrange things or actions in a certain order or pattern according to a specific rule or set of rules (e.g., patterns of numbers, letters, words, pictures, mathematical operations).	Information Ordering	Information Ordering	The ability to arrange things or actions in a certain order or pattern according to a specific rule or set of rules (e.g., patterns of numbers, letters, words, pictures, mathematical operations).
The ability to quickly move your hand, your hand together with your arm, or your two hands to grasp, manipulate, or assemble objects.	Manual Dexterity	Manual Dexterity	The ability to move your hand, your hand together with your arm, or your two hands to grasp, manipulate, or assemble objects or tools.
The ability to choose the right mathematical methods or formulas to solve a problem.	Mathematical Reasoning	Mathematical Reasoning	The ability to choose the right mathematical methods or formulas to solve a problem.
The ability to remember information such as words, numbers, pictures, and procedures.	Memorization	Memorizing	The ability to remember information such as words, numbers, pictures, or procedures.
The ability to coordinate two or more limbs (for example, two arms, two legs, or one leg and one arm) while sitting, standing, or lying down. It does not involve performing the activities while the whole body is in motion.	Multilimb Coordination	Multi-Limb Coordination	The ability to coordinate two or more limbs, such as two arms, two legs, or one leg and one arm, while sitting, standing, or lying down. It does not involve performing the activities while the whole body is in motion.
The ability to see details at close range (within a few feet of the observer).	Near Vision	Near Vision	The ability to see details at close range.
The ability to see under low-light conditions.	Night Vision	Night Vision	The ability to see under low light conditions.
The ability to add, subtract, multiply, or divide quickly and correctly.	Number Facility	Numerical Ability	The ability to carry out arithmetical processes accurately such as addition, subtraction, multiplication or division.

The ability to listen to and understand information and ideas presented through spoken words and sentences.	Oral Comprehension	Verbal Ability	The ability to understand the meaning, precise use, associated ideas, and relationships of spoken words; and to use them in the proper context when presenting information or ideas.
The ability to communicate information and ideas in speaking so others will understand.	Oral Expression		
The ability to quickly and accurately compare similarities and differences among sets of letters, numbers, objects, pictures, or patterns. The things to be compared may be presented at the same time or one after the other. This ability also includes comparing a presented object with a remembered object.	Perceptual Speed	Perceptual Speed	The ability to compare, quickly and accurately, similarities and differences among sets of letters, numbers, objects, pictures, or patterns. The things to be compared may be presented at the same time, one after the other, or with a remembered object.
The ability to see objects or movement of objects to one's side when the eyes are looking ahead.	Peripheral Vision	Peripheral Vision	The ability to see objects, people, or their movement in the peripheral field of vision when looking ahead.
The ability to tell when something is wrong or is likely to go wrong. It does not involve solving the problem, only recognizing that there is a problem.	Problem Sensitivity	Problem Identification	The ability to identify an existing or potential problem. It is not about solving the problem, but only about recognizing its presence.
The ability to time your movements or the movement of a piece of equipment in anticipation of changes in the speed and/or direction of a moving object or scene.	Rate Control	Rate Control	The ability to time your movements or the movement of a piece of equipment in anticipation of changes in the speed and/or direction of a moving object.
The ability to quickly respond (with the hand, finger, or foot) to a signal (sound, light, picture) when it appears.	Reaction Time	Reaction Time	The ability to respond quickly with one or more limbs to a stimulus such as noise, light or image.

The ability to concentrate on a task over a period of time without being distracted.	Selective Attention	Selective Attention	The ability to concentrate on a task over a period of time without being distracted.
The ability to tell the direction from which a sound originated.	Sound Localization	Sound Localization	The ability to identify the direction, origin and distance from which a sound comes.
The ability to know your location in relation to the environment or to know where other objects are in relation to you.	Spatial Orientation	Spatial Orientation	The ability to know your location in relation to the environment or know where objects are in relation to you.
The ability to speak clearly so others can understand you.	Speech Clarity	Speech Clarity	The ability to articulate and pronounce words clearly, so others can understand you when you speak.
The ability to identify and understand the speech of another person.	Speech Recognition	Speech Recognition	The ability to identify and understand the speech of another person.
The ability to quickly move the arms and legs.	Speed of Limb Movement	Speed of Limb Movement	The ability to quickly move the arms and legs.
The ability to exert yourself physically over long periods of time without getting winded or out of breath.	Stamina	Stamina	The ability to perform intense physical activities over long periods without becoming winded or out of breath.
The ability to exert maximum muscle force to lift, push, pull, or carry objects.	Static Strength	Static Strength	The ability to exert muscle force to lift, push, pull, carry, or transfer objects.
The ability to use your abdominal and lower back muscles to support part of the body repeatedly or continuously over time without "giving out" or fatiguing.	Trunk Strength	Trunk Strength	The ability to exert your abdominal and lower back muscles to support part of the body repeatedly or continuously over time without "giving out" or fatiguing.
The ability to read and understand information and ideas presented in writing.	Written Comprehension	Written Comprehension	The ability to read and understand information and ideas presented in written form.

The ability to communicate information and ideas in writing so others will understand.	Written Expression	Written Expression	The ability to communicate information and ideas in writing and adapting the writing style to the audience so that they can understand.
The ability to match or detect differences between colors, including shades of color and brightness.	Visual Color Determination	Colour Perception	The ability to match or detect differences or similarities between colours, including shades of colour and brightness.
The ability to quickly and repeatedly adjust the controls of a machine or a vehicle to exact positions.	Control Precision	Control of Settings	The ability to adjust the controls of a machine or a vehicle to exact positions.
The ability to make fast, simple, repeated movements of the fingers, hands, and wrists.	Wrist-Finger Speed	Finger-Hand-Wrist Motion	The ability to make fast, simple, and repeated movements of the fingers, hands, and wrists.
The ability to quickly and repeatedly bend, stretch, twist, or reach out with your body, arms, and/or legs.	Dynamic Flexibility	Body Flexibility	The ability to bend, stretch, twist, or reach with your body, arms, and/or legs.
The ability to bend, stretch, twist, or reach with your body, arms, and/or legs.	Extent Flexibility		
The ability to choose quickly between two or more movements in response to two or more different signals (lights, sounds, pictures). It includes the speed with which the correct response is started with the hand, foot, or other body part.	Response Orientation	Multi-signal response	The ability to choose quickly between one or more movements with the hand, finger, or foot in response to the appearance of two or more different signals such as lights, sounds, or images.
The ability to identify or detect a known pattern (a figure, object, word, or sound) that is hidden in other distracting material.	Flexibility of Closure	Pattern Identification	The ability to identify or detect a known pattern such as a figure, object, word, or sound that is hidden in other information or material.
The ability to quickly make sense of, combine, and organize information into meaningful patterns.	Speed of Closure	Pattern Organization speed	The ability to quickly combine and organize information into meaningful patterns.

The ability to imagine how something will look after it is moved around or when its parts are moved or rearranged.	Visualization	Spatial Visualization	The ability to think visually about geometric forms, comprehend the two-dimensional representation of three-dimensional objects and recognize the relationships resulting from the movement of objects in space.
The ability to shift back and forth between two or more activities or sources of information (such as speech, sounds, touch, or other sources).	Time Sharing	Multitasking	The ability to shift back and forth between two or more activities or sources of information during the same time period (such as speech, sounds, touch, or other sources).

## Appendix 2

*Occupation Exposure Score for each occupation in Canada.*

N°	Code	NOC Occupations Canada	AI exposure of each occupation
1	10010.00	Financial managers	0.882
2	41402.00	Business development officers and market researchers and analysts	0.877
3	10021.01	Banking and other investment managers	0.877
4	10020.04	Securities manager	0.868
5	11109.04	Trust officers	0.867
6	11100.02	Accountants	0.866
7	11101.02	Investment analysts	0.860
8	42200.03	Notaries public	0.858
9	11100.01	Financial auditors	0.857
10	41101.00	Lawyers and Quebec notaries	0.857
11	00012.00	Senior managers - financial, communications and other business services	0.849
12	10011.00	Human resources managers	0.846
13	42200.05	Justice of the peace	0.846

<b>14</b>	00013.00	Senior managers - health, education, social and community services and membership organizations	0.844
<b>15</b>	00014.00	Senior managers - trade, broadcasting and other services	0.842
<b>16</b>	41100.00	Judges	0.840
<b>17</b>	42200.04	Trademark agents	0.832
<b>18</b>	11109.01	Financial examiners and inspectors	0.830
<b>19</b>	10022.04	E-business managers	0.829
<b>20</b>	11101.01	Financial analysts	0.828
<b>21</b>	10020.01	Insurance managers	0.828
<b>22</b>	10021.02	Credit managers	0.827
<b>23</b>	63100.00	Insurance agents and brokers	0.825
<b>24</b>	00011.00	Senior government managers and officials	0.822
<b>25</b>	11103.01	Securities agents and investment dealers	0.819
<b>26</b>	11102.00	Financial advisors	0.818
<b>27</b>	41401.00	Economists and economic policy researchers and analysts	0.817
<b>28</b>	00015.00	Senior managers - construction, transportation, production and utilities	0.813
<b>29</b>	11109.02	Financial investigators	0.812
<b>30</b>	41403.06	Social survey researchers	0.811
<b>31</b>	21210.01	Mathematicians	0.808
<b>32</b>	12104.02	Government benefits services officers	0.807
<b>33</b>	41409.05	Linguists	0.807
<b>34</b>	51114.03	Interpreters	0.807
<b>35</b>	21210.03	Actuaries	0.805
<b>36</b>	51114.01	Translators and translator-revisers	0.805
<b>37</b>	12201.02	Insurance claims examiners	0.803
<b>38</b>	41409.06	Political scientists	0.801
<b>39</b>	11109.03	Financial Underwriters	0.801
<b>40</b>	10020.03	Mortgage broker managers	0.800
<b>41</b>	21210.02	Statisticians	0.800
<b>42</b>	41409.08	Sociologists	0.800
<b>43</b>	51114.02	Terminologists	0.799
<b>44</b>	40010.00	Government managers - health and social policy development and program administration	0.798



45	40012.00	Government managers - education policy development and program administration	0.798
46	10030.00	Telecommunication carriers managers	0.796
47	11200.00	Human resources professionals	0.794
48	31303.03	Genetic counsellors	0.793
49	31200.00	Psychologists	0.792
50	41409.09	Other social science professionals	0.791
51	40011.00	Government managers - economic analysis, policy development and program administration	0.790
52	41405.00	Education policy researchers, consultants and program officers	0.788
53	41406.02	Recreation, sports and fitness policy analysts	0.788
54	41403.01	Social policy researchers	0.788
55	13200.01	Custom brokers	0.787
56	42200.02	Independent paralegals	0.785
57	12113.00	Statistical officers and related research support occupations	0.784
58	40020.02	Registrars	0.784
59	00010.00	Legislators	0.783
60	10012.00	Purchasing managers	0.783
61	41403.07	Social service planners	0.782
62	11202.00	Professional occupations in marketing, advertising and public relations	0.781
63	11201.00	Professional occupations in business management consulting	0.780
64	11103.02	Brokers	0.779
65	40020.01	Faculty administrators	0.778
66	41302.00	Religious leaders	0.776
67	41321.00	Career development practitioners and career counsellors (except education)	0.776
68	10022.02	Marketing managers	0.772
69	10022.03	Public relation managers	0.768
70	10029.00	Other business services managers	0.767
71	41403.03	Housing policy analysts	0.766
72	51111.01	Novelists, playwrights, script writers, poets and other creative writers	0.765
73	12102.00	Procurement and purchasing agents and officers	0.764
74	40019.00	Other managers in public administration	0.763

75	42200.01	Paralegals	0.763
76	12201.01	Insurance adjusters	0.758
77	40030.00	Managers in social, community and correctional services	0.757
78	10019.00	Other administrative services managers	0.757
79	42204.00	Religion workers	0.756
80	41409.07	Psychometricians	0.752
81	41403.04	Immigration and citizenship consultants	0.751
82	41403.05	International aid and development project officers	0.750
83	12200.00	Accounting technicians and bookkeepers	0.748
84	10022.01	Advertising managers	0.747
85	13112.00	Medical administrative assistants	0.747
86	14110.02	Statistical clerks	0.743
87	21103.00	Meteorologists and climatologists	0.742
88	12101.00	Human resources and recruitment officers	0.739
89	10020.02	Real estate service managers	0.736
90	21220.00	Cybersecurity specialists	0.735
91	12104.01	Excise tax revenue officers	0.733
92	13102.00	Payroll administrators	0.733
93	21211.00	Data scientists	0.727
94	12111.00	Health information management occupations	0.727
95	60010.00	Corporate sales managers	0.724
96	41301.00	Therapists in counselling and related specialized therapies	0.724
97	41200.00	University professors and lecturers	0.724
98	41407.00	Program officers unique to government	0.724
99	21230.00	Computer systems developers and programmers	0.722
100	51111.02	Content writers (non-technical)	0.722
101	14101.02	Hospital admitting clerks	0.722
102	40021.02	Administrators of elementary and secondary education	0.721
103	41409.03	Geographers	0.720
104	20012.00	Computer and information systems managers	0.720
105	70020.02	Transportation managers, freight traffic	0.715
106	11109.05	Mortgage brokers	0.715
107	51111.03	Copywriters	0.714
108	41201.02	Post-secondary research assistants	0.713
109	20010.00	Engineering managers	0.710

<b>110</b>	41400.03	Patent agents	0.709
<b>111</b>	14301.04	Readers and press clippers	0.708
<b>112</b>	14200.00	Accounting and related clerks	0.706
<b>113</b>	41201.01	Post-secondary teaching assistants	0.703
<b>114</b>	63102.00	Financial sales representatives	0.703
<b>115</b>	40020.03	Administrator of vocational training schools	0.701
<b>116</b>	51113.00	Journalists	0.699
<b>117</b>	21222.00	Information systems specialists	0.698
<b>118</b>	22303.00	Construction estimators	0.698
<b>119</b>	41404.00	Health policy researchers, consultants and program officers	0.698
<b>120</b>	40021.01	School principals	0.697
<b>121</b>	51110.00	Editors	0.696
<b>122</b>	20011.02	Science Managers	0.694
<b>123</b>	12202.00	Insurance underwriters	0.688
<b>124</b>	65109.03	Telephone solicitors and telemarketers	0.688
<b>125</b>	41320.00	Educational counsellors	0.687
<b>126</b>	30010.00	Managers in health care	0.685
<b>127</b>	51120.05	Film editors	0.684
<b>128</b>	21231.00	Software engineers and designers	0.683
<b>129</b>	64409.00	Other customer and information services representatives	0.681
<b>130</b>	50011.00	Managers - publishing, motion pictures, broadcasting and performing arts	0.679
<b>131</b>	12112.00	Records management technicians	0.677
<b>132</b>	14103.00	Court clerks and related court services occupations	0.676
<b>133</b>	21223.01	Database analysts	0.674
<b>134</b>	20011.01	Architecture and urban planning managers	0.674
<b>135</b>	31100.11	Preventive medicine physicians	0.674
<b>136</b>	14102.00	Personnel clerks	0.673
<b>137</b>	12110.02	Medical transcriptionists	0.670
<b>138</b>	21223.02	Data administrators	0.669
<b>139</b>	51120.04	Art directors	0.668
<b>140</b>	62100.00	Technical sales specialists - wholesale trade	0.668
<b>141</b>	13201.01	Production logistics coordinators	0.666
<b>142</b>	41400.04	Science policy and program officers	0.665
<b>143</b>	14405.00	Transportation route and crew schedulers	0.665

<b>144</b>	14404.00	Dispatchers	0.662
<b>145</b>	21100.01	Physicists	0.662
<b>146</b>	51120.01	Film, radio, television and video game producers	0.661
<b>147</b>	51120.06	Record producers	0.657
<b>148</b>	12011.00	Supervisors, finance and insurance office workers	0.656
<b>149</b>	14202.00	Collection clerks	0.655
<b>150</b>	14110.01	Survey interviewers	0.655
<b>151</b>	72604.02	Marine traffic regulators	0.655
<b>152</b>	51121.03	Arrangers	0.654
<b>153</b>	21311.02	Network system and data communication engineers	0.654
<b>154</b>	14301.05	Regulatory clerks	0.653
<b>155</b>	14101.01	Receptionists	0.652
<b>156</b>	21311.01	Computer and telecommunications hardware engineers	0.651
<b>157</b>	21100.02	Astronomers	0.649
<b>158</b>	14301.03	Proofreaders and editorial assistants	0.648
<b>159</b>	62201.01	Funeral directors	0.648
<b>160</b>	13111.00	Legal administrative assistants	0.645
<b>161</b>	21221.00	Business system specialists	0.640
<b>162</b>	41409.04	Historians	0.636
<b>163</b>	53111.04	Scripts assistants	0.635
<b>164</b>	12100.00	Executive assistants	0.634
<b>165</b>	63101.00	Real estate agents and salespersons	0.633
<b>166</b>	62101.00	Retail and wholesale buyers	0.632
<b>167</b>	21202.00	Urban and land use planners	0.630
<b>168</b>	41400.05	Technology transfer officers	0.630
<b>169</b>	31100.04	Psychiatrists	0.630
<b>170</b>	51112.00	Technical writers	0.630
<b>171</b>	64310.00	Travel counsellors	0.625
<b>172</b>	22222.00	Information systems testing technicians	0.625
<b>173</b>	51120.02	Directors	0.624
<b>174</b>	21301.00	Mechanical engineers	0.621
<b>175</b>	13200.02	Ship brokers	0.621
<b>176</b>	14403.01	Purchasing control workers	0.620
<b>177</b>	21233.00	Web designers	0.618
<b>178</b>	13110.00	Administrative assistants	0.617

<b>179</b>	21331.00	Geological engineers	0.616
<b>180</b>	21390.00	Aerospace engineers	0.614
<b>181</b>	21232.00	Software developers and programmers	0.613
<b>182</b>	31112.02	Speech language pathologists	0.612
<b>183</b>	70020.01	Transportation managers, operations	0.610
<b>184</b>	12012.00	Supervisors, library, correspondence and related information workers	0.608
<b>185</b>	60031.00	Accommodation service managers	0.607
<b>186</b>	14301.02	Correspondence clerks	0.607
<b>187</b>	21109.01	Metallurgists	0.604
<b>188</b>	31100.07	Neurologists	0.601
<b>189</b>	72601.01	Air traffic controllers	0.599
<b>190</b>	14201.02	Insurance clerks	0.598
<b>191</b>	21300.00	Civil engineers	0.595
<b>192</b>	52121.00	Interior designers and interior decorators	0.595
<b>193</b>	62023.01	Customer service representatives supervisors - financial services	0.594
<b>194</b>	21330.00	Mining engineers	0.593
<b>195</b>	62023.02	Customer service representatives supervisors (except financial services)	0.593
<b>196</b>	21109.02	Materials scientists	0.592
<b>197</b>	21332.00	Petroleum engineers	0.592
<b>198</b>	21234.00	Web developers and programmers	0.592
<b>199</b>	72601.02	Flight dispatchers	0.591
<b>200</b>	31121.00	Dietitians and nutritionists	0.589
<b>201</b>	41409.01	Anthropologists	0.589
<b>202</b>	14201.03	Other financial clerks	0.587
<b>203</b>	64201.03	Weight loss consultants	0.585
<b>204</b>	41300.00	Social workers	0.583
<b>205</b>	12203.03	Appraisers	0.578
<b>206</b>	32109.02	Communicative disorders assistants and speech-language pathology assistants	0.576
<b>207</b>	90011.02	Electrical power distribution managers	0.575
<b>208</b>	14201.01	Bank clerks	0.573
<b>209</b>	21200.00	Architects	0.573
<b>210</b>	21399.02	Biomedical engineers	0.571

<b>211</b>	72604.01	Railway traffic controllers	0.570
<b>212</b>	64101.00	Sales and account representatives - wholesale trade (non-technical)	0.568
<b>213</b>	51121.02	Composers	0.566
<b>214</b>	51120.07	Directors of photography	0.562
<b>215</b>	12103.00	Conference and event planners	0.561
<b>216</b>	21310.00	Electrical and electronics engineers	0.559
<b>217</b>	14301.01	Classified advertising clerks	0.556
<b>218</b>	80010.00	Managers in natural resources production and fishing	0.555
<b>219</b>	22220.01	Computer and network operators	0.555
<b>220</b>	31100.02	Internists, general	0.555
<b>221</b>	22211.00	Industrial designers	0.554
<b>222</b>	31301.05	Nursing researchers and consultants	0.553
<b>223</b>	13101.00	Property administrators	0.552
<b>224</b>	22212.01	Drafting technologists	0.549
<b>225</b>	21201.00	Landscape architects	0.548
<b>226</b>	22214.04	Geographic information system (GIS) technologists and technicians	0.546
<b>227</b>	12010.00	Supervisors, general office and administrative support workers	0.541
<b>228</b>	21320.00	Chemical engineers	0.540
<b>229</b>	21322.00	Metallurgical and materials engineers	0.535
<b>230</b>	31100.14	Specialists in laboratory medicine, including pathologists	0.534
<b>231</b>	64201.02	Wedding consultants	0.533
<b>232</b>	21399.03	Engineering physicists and engineering scientists	0.531
<b>233</b>	72601.03	Flight service specialists	0.530
<b>234</b>	22212.02	Drafting technicians	0.530
<b>235</b>	60020.00	Retail and wholesale trade managers	0.522
<b>236</b>	14101.04	Telephone operators	0.515
<b>237</b>	22220.02	Web technicians	0.511
<b>238</b>	22214.05	Meteorological technologists and technicians	0.511
<b>239</b>	31120.02	Industrial pharmacists	0.508
<b>240</b>	22210.00	Architectural technologists and technicians	0.507
<b>241</b>	70010.00	Construction managers	0.505
<b>242</b>	52111.00	Graphic arts technicians	0.503

<b>243</b>	13201.02	Transportation logistics coordinators	0.500
<b>244</b>	14101.03	Switchboard and answering service operators	0.499
<b>245</b>	43203.02	Immigration officers	0.497
<b>246</b>	70012.01	Facility operation managers	0.494
<b>247</b>	65229.00	Other support occupations in personal services	0.494
<b>248</b>	31100.05	Allergists and immunologists	0.492
<b>249</b>	32209.05	Holistic nutritionists	0.491
<b>250</b>	41220.00	Secondary school teachers	0.491
<b>251</b>	50012.00	Recreation, sports and fitness program and service directors	0.490
<b>252</b>	21399.01	Agricultural and bio-resource engineers	0.489
<b>253</b>	21321.00	Industrial and manufacturing engineers	0.486
<b>254</b>	21110.02	Microbiologists and cell and molecular biologists	0.482
<b>255</b>	12110.01	Court reporters	0.481
<b>256</b>	21101.00	Chemists	0.480
<b>257</b>	90010.00	Manufacturing managers	0.480
<b>258</b>	22114.04	Landscape designers and landscape architectural technicians and technologists	0.480
<b>259</b>	14100.01	General office support workers	0.478
<b>260</b>	31112.01	Audiologists	0.477
<b>261</b>	41400.01	Ergonomists	0.475
<b>262</b>	31102.00	General practitioners and family physicians	0.473
<b>263</b>	52120.01	Graphic designers	0.472
<b>264</b>	52114.00	Announcers and other broadcasters	0.469
<b>265</b>	14112.01	Desktop publishing operators	0.464
<b>266</b>	51121.01	Conductors	0.464
<b>267</b>	41400.02	Occupational or industrial hygienists	0.462
<b>268</b>	31100.06	Hospitalists	0.458
<b>269</b>	21399.05	Textile engineers	0.458
<b>270</b>	52119.01	Floor managers	0.456
<b>271</b>	43109.02	Driver's license examiners	0.455
<b>272</b>	31100.09	Dermatologists	0.451
<b>273</b>	31209.03	Doctors of naturopathics medicine	0.449
<b>274</b>	90011.05	Waste systems managers	0.446
<b>275</b>	70011.00	Home building and renovation managers	0.446
<b>276</b>	53123.03	Exhibit designers	0.441

<b>277</b>	21102.01	Geoscientists	0.441
<b>278</b>	21110.01	Biologists	0.440
<b>279</b>	90011.04	Water pollution control managers	0.437
<b>280</b>	31111.00	Optometrists	0.437
<b>281</b>	13100.00	Administrative officers	0.436
<b>282</b>	31303.04	Orthoptists	0.436
<b>283</b>	90011.03	Natural gas and petroleum supply managers	0.432
<b>284</b>	53123.02	Fashion designers	0.430
<b>285</b>	70021.00	Postal and courier services managers	0.428
<b>286</b>	32109.01	Hearing instrument practitioners	0.427
<b>287</b>	52120.02	Illustrators	0.427
<b>288</b>	50010.00	Library, archive, museum and art gallery managers	0.426
<b>289</b>	42201.00	Social and community service workers	0.425
<b>290</b>	51100.00	Librarians	0.425
<b>291</b>	53111.07	Production assistants	0.424
<b>292</b>	72025.00	Supervisors, mail and message distribution occupations	0.419
<b>293</b>	14111.00	Data entry clerks	0.418
<b>294</b>	43202.05	Liquor licence inspectors	0.418
<b>295</b>	90011.01	Water supply managers	0.416
<b>296</b>	41403.02	Home economists	0.414
<b>297</b>	21120.00	Public and environmental health and safety professionals	0.413
<b>298</b>	12013.00	Supervisors, supply chain, tracking and scheduling coordination occupations	0.413
<b>299</b>	12203.01	Assessors	0.412
<b>300</b>	12203.02	Business valuers	0.412
<b>301</b>	22300.02	Civil engineering technicians	0.409
<b>302</b>	60040.00	Managers in customer and personal services	0.408
<b>303</b>	64400.00	Customer services representatives - financial institutions	0.408
<b>304</b>	31120.01	Community pharmacists and hospital pharmacists	0.406
<b>305</b>	31100.03	Pediatricians, general	0.405
<b>306</b>	22214.01	Cartographic technologists and technicians	0.405
<b>307</b>	31100.08	Nuclear medicine physicians	0.400
<b>308</b>	31100.13	Other specialists in clinical medicine	0.400
<b>309</b>	51101.02	Curators	0.396
<b>310</b>	22302.01	Industrial engineering and manufacturing technologists	0.396



<b>311</b>	51102.00	Archivists	0.393
<b>312</b>	70012.02	Maintenance managers	0.391
<b>313</b>	31101.03	Ophthalmologists	0.390
<b>314</b>	22214.02	Photogrammetric technologists and technicians	0.387
<b>315</b>	31300.00	Nursing coordinators and supervisors	0.386
<b>316</b>	64201.01	Image consultants	0.381
<b>317</b>	21399.04	Marine and naval engineers	0.378
<b>318</b>	33109.01	Audiometric technicians	0.374
<b>319</b>	31101.04	Urologists	0.370
<b>320</b>	32209.03	Homeopaths	0.369
<b>321</b>	21109.03	Soil scientists	0.369
<b>322</b>	31301.04	Registered psychiatric nurses	0.368
<b>323</b>	31303.01	Physician Assistants	0.366
<b>324</b>	21102.02	Oceanographers	0.366
<b>325</b>	22300.01	Civil engineering technologists	0.362
<b>326</b>	64410.04	Private investigators	0.355
<b>327</b>	53123.01	Theatre designers	0.355
<b>328</b>	14112.02	Typesetting input and output operators	0.348
<b>329</b>	32209.01	Herbalists	0.345
<b>330</b>	60030.00	Restaurant and food service managers	0.344
<b>331</b>	31100.12	Radiologists	0.344
<b>332</b>	31209.02	Chiropodists and diploma or first-degree trained podiatrists	0.342
<b>333</b>	41221.00	Elementary school and kindergarten teachers	0.342
<b>334</b>	21112.00	Agricultural representatives, consultants and specialists	0.342
<b>335</b>	64312.03	Airline reservation agents	0.340
<b>336</b>	31209.01	Doctors of Podiatric Medicine	0.336
<b>337</b>	62010.00	Retail sales supervisors	0.333
<b>338</b>	72024.00	Supervisors, motor transport and other ground transit operators	0.329
<b>339</b>	22214.03	Aerial survey and remote sensing technologists and technicians	0.321
<b>340</b>	31302.00	Nurse practitioners	0.320
<b>341</b>	80021.00	Managers in horticulture	0.317
<b>342</b>	22310.02	Electrical and electronics engineering technicians	0.316
<b>343</b>	22233.00	Construction inspectors	0.315

<b>344</b>	72205.03	Telecommunications service testers	0.313
<b>345</b>	31101.02	Obstetricians and gynecologists	0.312
<b>346</b>	14100.02	File clerks	0.310
<b>347</b>	92100.02	Power systems operators	0.304
<b>348</b>	22302.02	Industrial engineering and manufacturing technicians	0.303
<b>349</b>	32200.01	Traditional Chinese medicine practitioners	0.298
<b>350</b>	22310.01	Electrical and electronics engineering technologists	0.294
<b>351</b>	41210.00	College and other vocational instructors	0.291
<b>352</b>	80022.00	Managers in aquaculture	0.288
<b>353</b>	42203.00	Instructors of persons with disabilities	0.288
<b>354</b>	52119.02	Key grips	0.287
<b>355</b>	62020.00	Food service supervisors	0.285
<b>356</b>	92020.00	Supervisors, motor vehicle assembling	0.284
<b>357</b>	51114.04	Sign language Interpreters	0.283
<b>358</b>	31100.01	Anesthesiologists	0.282
<b>359</b>	31100.10	Physical medicine and rehabilitation physicians	0.280
<b>360</b>	22313.01	Aircraft instrument mechanics and technicians	0.278
<b>361</b>	53201.02	Sports scouts	0.275
<b>362</b>	31303.05	Pathologist assistants	0.274
<b>363</b>	31101.01	General surgery	0.274
<b>364</b>	22221.00	User support technicians	0.273
<b>365</b>	41311.00	Probation and parole officers	0.272
<b>366</b>	42202.01	Early childhood educators	0.271
<b>367</b>	52112.00	Broadcast technicians	0.269
<b>368</b>	43109.04	Modelling instructors	0.269
<b>369</b>	64314.00	Hotel front desk clerks	0.267
<b>370</b>	51122.03	Teachers of music or voice	0.265
<b>371</b>	31101.05	Other specialists in surgery	0.264
<b>372</b>	31301.02	Occupational health nurses	0.263
<b>373</b>	80020.00	Managers in agriculture	0.261
<b>374</b>	31110.04	Prosthodontists	0.260
<b>375</b>	32123.02	Electrophysiological technologists	0.259
<b>376</b>	22231.05	Oil and gas drilling rig inspectors	0.257
<b>377</b>	43100.00	Elementary and secondary school teacher assistants	0.256
<b>378</b>	64321.00	Casino workers	0.256

<b>379</b>	31301.06	Clinical nurses	0.256
<b>380</b>	32120.00	Medical laboratory technologists	0.256
<b>381</b>	22232.00	Occupational health and safety specialists	0.253
<b>382</b>	41310.02	Coroners and medical examiners	0.253
<b>383</b>	31110.02	Oral and Maxillofacial Surgeons	0.248
<b>384</b>	62022.00	Accommodation, travel, tourism and related services supervisors	0.248
<b>385</b>	32110.00	Denturists	0.246
<b>386</b>	62202.02	Watch repairers	0.245
<b>387</b>	14402.00	Production logistics workers	0.245
<b>388</b>	22110.01	Biological technologists	0.244
<b>389</b>	51122.02	Singers	0.243
<b>390</b>	32100.00	Opticians	0.239
<b>391</b>	53121.02	Acting teachers	0.237
<b>392</b>	53100.04	Curatorial assistants, museum extension officers, museology technicians and museum registrars and cataloguers	0.237
<b>393</b>	31110.03	Orthodontists	0.236
<b>394</b>	41409.02	Archaeologists	0.234
<b>395</b>	92011.00	Supervisors, petroleum, gas and chemical processing and utilities	0.233
<b>396</b>	22100.01	Chemical technologists	0.232
<b>397</b>	92013.00	Supervisors, plastic and rubber products manufacturing	0.230
<b>398</b>	32109.03	Ophthalmic technologists and technicians	0.229
<b>399</b>	32209.06	Naturopaths	0.229
<b>400</b>	52100.02	Public archive technicians	0.228
<b>401</b>	62202.01	Jewellers and related workers	0.227
<b>402</b>	64311.03	Ship pursers	0.226
<b>403</b>	92012.00	Supervisors, food and beverage processing	0.223
<b>404</b>	92014.00	Supervisors, forest products processing	0.223
<b>405</b>	32129.01	Dietary technicians	0.221
<b>406</b>	92015.00	Supervisors, textile, fabric, fur and leather products processing and manufacturing	0.220
<b>407</b>	92022.00	Supervisors, furniture and fixtures manufacturing	0.220
<b>408</b>	64320.02	Travel guides	0.218
<b>409</b>	31303.02	Midwives	0.217

<b>410</b>	92010.00	Supervisors, mineral and metal processing	0.217
<b>411</b>	92021.00	Supervisors, electronics and electrical products manufacturing	0.217
<b>412</b>	43109.01	Driving instructors	0.216
<b>413</b>	92024.00	Supervisors, other products manufacturing and assembly	0.214
<b>414</b>	31110.01	Dentists, General	0.213
<b>415</b>	31209.04	Doctors of osteopathic medicine	0.213
<b>416</b>	64410.03	Corporate security officers	0.212
<b>417</b>	52100.01	Library Technicians	0.212
<b>418</b>	92023.00	Supervisors, other mechanical and metal products manufacturing	0.211
<b>419</b>	64313.02	Cargo service representatives (except airline)	0.208
<b>420</b>	41310.01	Police investigators	0.208
<b>421</b>	32121.02	Nuclear medicine technologists	0.206
<b>422</b>	22100.02	Chemical technicians	0.205
<b>423</b>	53124.08	Craft instructors	0.205
<b>424</b>	32129.02	Ocularists	0.202
<b>425</b>	21109.04	Astronauts	0.201
<b>426</b>	22101.01	Geological and mineral technologists	0.199
<b>427</b>	33100.02	Dental Laboratory Assistants	0.196
<b>428</b>	22110.02	Biological technicians	0.193
<b>429</b>	33109.04	Ophthalmic assistants	0.193
<b>430</b>	31203.00	Occupational therapists	0.190
<b>431</b>	72020.00	Contractors and supervisors, mechanic trades	0.189
<b>432</b>	32112.00	Dental technologists and technicians	0.188
<b>433</b>	22313.04	Avionics inspectors	0.188
<b>434</b>	62029.00	Other services supervisors	0.186
<b>435</b>	53100.01	Conservation and restoration technicians	0.185
<b>436</b>	22301.01	Mechanical engineering technologists	0.185
<b>437</b>	32124.00	Pharmacy technicians	0.185
<b>438</b>	94211.02	Other wood products inspectors	0.183
<b>439</b>	82010.00	Supervisors, logging and forestry	0.183
<b>440</b>	72600.02	Flight engineers	0.182
<b>441</b>	72404.02	Aircraft inspectors	0.182
<b>442</b>	51101.01	Conservators	0.178

443	22230.00	Non-destructive testers and inspectors	0.177
444	22101.02	Geological and mineral technicians	0.172
445	94210.04	Furniture and fixture inspectors	0.172
446	43202.08	Zoning inspectors	0.172
447	22231.02	Railway accident investigation officers	0.172
448	52113.00	Audio and video recording technicians	0.172
449	33101.00	Medical laboratory assistants and related technical occupations	0.171
450	65109.02	Door-to-door salespersons and street vendors	0.171
451	32103.02	Clinical perfusionists	0.169
452	32129.03	Prosthetists and orthotists	0.166
453	72600.03	Flying instructors	0.165
454	72600.01	Air pilots	0.165
455	43202.02	By-law enforcement officers	0.164
456	22313.02	Aircraft electrical mechanics and technicians	0.159
457	62201.02	Embalmers	0.159
458	93102.00	Pulping, papermaking and coating control operators	0.159
459	41406.01	Recreation, sports and fitness consultants	0.158
460	72022.00	Supervisors, printing and related occupations	0.157
461	53100.03	Museum interpreters	0.157
462	31301.03	Community Health Nurses	0.156
463	22231.03	Airworthiness inspectors	0.156
464	64312.02	Airline cargo and freight agents	0.156
465	64100.01	Retail salespersons	0.155
466	32123.01	Cardiology technologists	0.153
467	14300.00	Library assistants and clerks	0.153
468	55109.04	Influencers	0.151
469	64313.01	Ticket agents and related clerks (except airline)	0.151
470	63211.02	Cosmeticians	0.151
471	53100.05	Taxidermists	0.150
472	21111.00	Forestry professionals	0.149
473	63211.03	Electrologists	0.148
474	31301.01	General duty registered nurses	0.148
475	53110.00	Photographers	0.147
476	72023.00	Supervisors, railway transport operations	0.145

477	42202.02	Early childhood educator assistants	0.143
478	43109.03	Sewing instructors	0.142
479	63211.04	Manicurists and pedicurist	0.141
480	64410.05	Retail loss prevention officers	0.140
481	41406.03	Recreation, sports and fitness program supervisors	0.140
482	43202.04	Garbage collection inspectors	0.139
483	22111.05	Plant protection inspectors	0.135
484	32200.02	Acupuncturists	0.134
485	82020.00	Supervisors, mining and quarrying	0.134
486	31103.00	Veterinarians	0.133
487	45100.01	Student monitors	0.133
488	72021.00	Contractors and supervisors, heavy equipment operator crews	0.133
489	92100.01	Power engineers	0.133
490	32121.03	Radiation therapists	0.129
491	64312.01	Airline passenger, baggage and ticket agents	0.129
492	21203.00	Land surveyors	0.128
493	53201.01	Coaches	0.128
494	32103.03	Cardiopulmonary technologists	0.128
495	53100.02	Preparators and picture framers	0.127
496	63202.00	Bakers	0.125
497	32209.04	Reflexologists	0.124
498	72011.00	Contractors and supervisors, electrical trades and telecommunications occupations	0.123
499	22111.02	Fruit and vegetables inspectors	0.123
500	22111.03	Grain inspectors	0.123
501	22111.04	Meat inspectors	0.123
502	64320.01	Tour guides	0.121
503	72010.00	Contractors and supervisors, machining, metal forming, shaping and erecting trades and related occupations	0.121
504	22111.01	Fish and fish products inspectors	0.120
505	32111.02	Dental therapists	0.118
506	52119.07	Settings shop foremen and property masters	0.117
507	32103.01	Respiratory therapists	0.115
508	53111.03	Props persons and set builders	0.114

<b>509</b>	72014.00	Contractors and supervisors, other construction trades, installers, repairers and servicers	0.114
<b>510</b>	22301.02	Mechanical engineering technicians	0.113
<b>511</b>	22213.01	Land survey technologists	0.110
<b>512</b>	33109.02	Orthopedic technologists	0.109
<b>513</b>	53125.00	Patternmakers - textile, leather and fur products	0.108
<b>514</b>	62200.01	Head Chefs	0.108
<b>515</b>	72012.00	Contractors and supervisors, pipefitting trades	0.106
<b>516</b>	22231.01	Motor Vehicle defects investigators	0.104
<b>517</b>	94205.02	Inspectors and testers in electrical apparatus manufacturing	0.104
<b>518</b>	63211.01	Estheticians	0.104
<b>519</b>	62200.03	Specialist chefs	0.102
<b>520</b>	31201.00	Chiropractors	0.102
<b>521</b>	14403.02	Inventory control workers	0.101
<b>522</b>	72013.00	Contractors and supervisors, carpentry trades	0.100
<b>523</b>	73310.01	Railway locomotive engineers	0.099
<b>524</b>	63211.06	Tattoo artists	0.099
<b>525</b>	94203.03	Inspectors, industrial electrical motors and transformers	0.098
<b>526</b>	94212.02	Plastic products inspectors	0.097
<b>527</b>	32122.00	Medical sonographers	0.097
<b>528</b>	53202.00	Sports officials and referees	0.096
<b>529</b>	31202.00	Physiotherapists	0.095
<b>530</b>	22213.02	Land survey technicians	0.094
<b>531</b>	53111.02	Motion picture projectionists	0.094
<b>532</b>	94151.01	Graphic arts camera operators, scanner operators, film strippers and assemblers	0.094
<b>533</b>	94133.00	Inspectors and graders, textile, fabric, fur and leather products manufacturing	0.092
<b>534</b>	94204.02	Mechanical inspectors	0.092
<b>535</b>	53122.03	Art instructors and teachers	0.091
<b>536</b>	94202.02	Inspectors and testers, electrical appliance, apparatus and equipment manufacturing	0.091
<b>537</b>	33109.07	Blood donor clinic assistants	0.088
<b>538</b>	82021.00	Contractors and supervisors, oil and gas drilling and services	0.087
<b>539</b>	82030.02	Farm supervisors	0.087

<b>540</b>	32121.04	Magnetic Resonance Technologist	0.087
<b>541</b>	94112.03	Rubber products inspectors	0.086
<b>542</b>	33103.00	Pharmacy technical assistants and pharmacy assistants	0.084
<b>543</b>	62200.02	Sous-Chefs	0.083
<b>544</b>	40041.00	Fire chiefs and senior firefighting officers	0.081
<b>545</b>	32111.01	Dental hygienists	0.080
<b>546</b>	94219.02	Product inspectors	0.079
<b>547</b>	32101.02	Operating room technicians	0.078
<b>548</b>	94151.03	Prepress technicians, platemakers, proofmakers, and pre-flight/file-preparation operators	0.076
<b>549</b>	32129.04	Prosthetic and orthotic technicians	0.075
<b>550</b>	94104.00	Inspectors and testers, mineral and metal processing	0.075
<b>551</b>	73310.02	Yard locomotive engineers	0.073
<b>552</b>	94201.02	Electronics inspectors and testers	0.073
<b>553</b>	32209.02	Osteopathic manual practitioners	0.072
<b>554</b>	72603.00	Engineer officers, water transport	0.072
<b>555</b>	40042.00	Commissioned officers of the Canadian Armed Forces	0.071
<b>556</b>	94153.00	Photographic and film processors	0.070
<b>557</b>	94143.00	Testers and graders, food and beverage processing	0.069
<b>558</b>	43202.07	Taxi inspectors	0.067
<b>559</b>	64300.00	Maîtres d'hôtel and hosts/hostesses	0.066
<b>560</b>	33109.05	Optical/ophthalmic laboratory technicians and assistants	0.065
<b>561</b>	73311.01	Railway conductors	0.065
<b>562</b>	32121.01	Radiological technologists	0.064
<b>563</b>	33109.08	Morgue attendants	0.063
<b>564</b>	53124.09	Artistic floral arrangers	0.061
<b>565</b>	64311.02	Flight pursers, customer service directors and passenger service directors	0.061
<b>566</b>	72602.00	Deck officers, water transport	0.059
<b>567</b>	63211.05	Scalp treatment specialists	0.059
<b>568</b>	93101.00	Central control and process operators, petroleum, gas and chemical processing	0.057
<b>569</b>	94110.00	Chemical plant machine operators	0.055
<b>570</b>	75210.03	Ferry terminal workers	0.055
<b>571</b>	53122.01	Painters	0.054



<b>572</b>	22231.04	Inspectors, weights and measures	0.054
<b>573</b>	64301.00	Bartenders	0.052
<b>574</b>	51122.01	Musicians	0.049
<b>575</b>	65109.01	Demonstrators and direct distributors	0.048
<b>576</b>	40040.00	Commissioned police officers and related occupations in public protection services	0.047
<b>577</b>	82030.01	Agricultural service contractors	0.046
<b>578</b>	22313.03	Avionics mechanics and technicians	0.043
<b>579</b>	32104.00	Animal health technologists and veterinary technicians	0.043
<b>580</b>	64200.03	Milliners	0.033
<b>581</b>	52119.04	Stunt co-ordinators and special effects technicians	0.031
<b>582</b>	32109.04	Physical Rehabilitation therapists	0.030
<b>583</b>	52110.00	Film and video camera operators	0.030
<b>584</b>	94150.00	Plateless printing equipment operators	0.029
<b>585</b>	43202.03	Commercial transport inspectors	0.028
<b>586</b>	92101.01	Water treatment plant operators	0.027
<b>587</b>	94200.02	Motor vehicle inspectors and testers	0.026
<b>588</b>	72102.00	Sheet metal workers	0.026
<b>589</b>	22312.00	Industrial instrument technicians and mechanics	0.026
<b>590</b>	92101.02	Liquid waste plant operators	0.026
<b>591</b>	72101.01	Tool and die makers	0.026
<b>592</b>	54100.02	Fitness appraisers	0.024
<b>593</b>	52119.06	Costumiers	0.024
<b>594</b>	93200.02	Aircraft assembly inspectors	0.023
<b>595</b>	53121.01	Actors and comedians	0.023
<b>596</b>	64100.02	Visual merchandisers	0.022
<b>597</b>	64200.01	Tailors, Dressmakers and Alterationists	0.020
<b>598</b>	64200.02	Furriers	0.019
<b>599</b>	72999.01	Gunsmiths	0.016
<b>600</b>	22112.00	Forestry technologists and technicians	0.016
<b>601</b>	94123.02	Other wood processing inspectors and graders	0.015
<b>602</b>	53111.01	Camera crane operators	0.014
<b>603</b>	32101.01	Licensed practical nurses	0.014
<b>604</b>	94123.01	Lumber graders	0.013
<b>605</b>	72422.00	Electrical mechanics	0.012

<b>606</b>	72100.02	Machining and tooling inspectors	0.011
<b>607</b>	52119.05	Make-up artists	0.011
<b>608</b>	72429.00	Other small engine and small equipment repairers	0.010
<b>609</b>	32102.00	Paramedical occupations	0.009
<b>610</b>	53124.03	Metal art workers	0.003
<b>611</b>	94111.01	Mixing machine operators - plastic processing	0.002
<b>612</b>	43203.01	Border services and customs officers	0.001
<b>613</b>	72501.00	Water well drillers	0.000
<b>614</b>	75210.04	Boat operators	-0.001
<b>615</b>	94111.03	Extruding process operators - plastic processing	-0.003
<b>616</b>	72404.01	Aircraft mechanics	-0.004
<b>617</b>	42100.00	Police officers (except commissioned)	-0.005
<b>618</b>	53122.02	Sculptors	-0.006
<b>619</b>	22311.00	Electronic service technicians (household and business equipment)	-0.006
<b>620</b>	93100.00	Central control and process operators, mineral and metal processing	-0.008
<b>621</b>	82031.00	Contractors and supervisors, landscaping, grounds maintenance and horticulture services	-0.008
<b>622</b>	44100.02	Foster parents	-0.010
<b>623</b>	63211.07	Hair replacement technicians (non-medical)	-0.010
<b>624</b>	72202.00	Power system electricians	-0.011
<b>625</b>	33100.01	Dental assistants	-0.011
<b>626</b>	72201.00	Industrial electricians	-0.011
<b>627</b>	31204.02	Kinesiologists and exercise therapists	-0.012
<b>628</b>	94111.02	Calendering process operators - plastic processing	-0.013
<b>629</b>	72423.02	Recreation vehicle technicians	-0.014
<b>630</b>	42101.00	Firefighters	-0.015
<b>631</b>	73401.00	Printing press operators	-0.017
<b>632</b>	31204.01	Recreational therapists	-0.017
<b>633</b>	45100.02	Crossing guards	-0.019
<b>634</b>	75200.01	Taxi and limousine drivers	-0.023
<b>635</b>	73301.02	School bus drivers	-0.025
<b>636</b>	72410.01	Automotive service technicians	-0.026
<b>637</b>	72405.00	Machine fitters	-0.027

<b>638</b>	73402.02	Blasters - surface mining, quarrying and construction	-0.027
<b>639</b>	65329.06	Ticket takers and ushers	-0.028
<b>640</b>	72205.01	Telephone installers and repairers	-0.028
<b>641</b>	72200.00	Electricians (except industrial and power system)	-0.028
<b>642</b>	32109.05	Physiotherapy assistants and occupational therapy assistants	-0.029
<b>643</b>	33109.06	Sterile processing technicians	-0.032
<b>644</b>	72100.01	Machinists	-0.033
<b>645</b>	75200.02	Chauffeurs	-0.034
<b>646</b>	73209.00	Other repairers and servicers	-0.036
<b>647</b>	72410.03	Transport truck and trailer mechanics	-0.036
<b>648</b>	72205.04	Telecommunications equipment technicians	-0.036
<b>649</b>	44100.01	Home child care providers	-0.037
<b>650</b>	64311.01	Flight attendants	-0.037
<b>651</b>	63200.00	Cooks	-0.038
<b>652</b>	52119.03	Gaffers and lighting technicians	-0.039
<b>653</b>	72423.01	Motorcycle, all-terrain vehicle and other related mechanics	-0.039
<b>654</b>	53111.06	Dressers	-0.039
<b>655</b>	72420.00	Oil and solid fuel heating mechanics	-0.039
<b>656</b>	94106.00	Machining tool operators	-0.040
<b>657</b>	22114.02	Golf course superintendents	-0.040
<b>658</b>	72101.02	Metal mould makers and patternmakers	-0.040
<b>659</b>	94130.01	Textile fibre, yarn, hide and pelt processing machine operators	-0.040
<b>660</b>	72999.03	Safe and vault servicers	-0.041
<b>661</b>	74100.02	Mailroom clerks	-0.042
<b>662</b>	94140.01	Process control operators, food and beverage processing	-0.042
<b>663</b>	72500.00	Crane operators	-0.042
<b>664</b>	72999.05	Die setters	-0.043
<b>665</b>	73301.01	Bus and streetcar drivers	-0.043
<b>666</b>	94203.01	Assemblers, industrial electrical motors and transformers	-0.045
<b>667</b>	72999.02	Locksmiths	-0.045
<b>668</b>	73301.03	Subway train and light rail transit operators	-0.046
<b>669</b>	72103.00	Boilermakers	-0.048
<b>670</b>	94201.01	Electronics assemblers and fabricators	-0.049
<b>671</b>	72410.02	Mechanical repairers, motor vehicle manufacturing	-0.049

<b>672</b>	94204.01	Mechanical assemblers	-0.050
<b>673</b>	74204.01	Waterworks maintenance workers	-0.050
<b>674</b>	72402.00	Heating, refrigeration and air conditioning mechanics	-0.053
<b>675</b>	72421.02	Major appliance repairers/technicians	-0.054
<b>676</b>	94107.00	Machine operators of other metal products	-0.054
<b>677</b>	53124.07	Weavers	-0.054
<b>678</b>	94111.04	Moulding process operators - plastic processing	-0.057
<b>679</b>	94202.01	Assemblers, electrical appliance, apparatus and equipment manufacturing	-0.057
<b>680</b>	14401.00	Storekeepers and partspersons	-0.058
<b>681</b>	64401.00	Postal services representatives	-0.058
<b>682</b>	63210.02	Barbers	-0.058
<b>683</b>	72205.05	Television cable service technicians	-0.059
<b>684</b>	94200.01	Motor vehicle assemblers	-0.059
<b>685</b>	94105.01	Metalworking machine operators	-0.059
<b>686</b>	74204.02	Gas maintenance workers	-0.061
<b>687</b>	72999.04	Saw fitters	-0.063
<b>688</b>	72400.01	Construction millwrights and industrial mechanics	-0.064
<b>689</b>	65329.07	Other elemental service workers	-0.064
<b>690</b>	63210.01	Hairstylists	-0.065
<b>691</b>	22113.00	Conservation and fishery officers	-0.066
<b>692</b>	42102.00	Specialized members of the Canadian Armed Forces	-0.066
<b>693</b>	65100.00	Cashiers	-0.067
<b>694</b>	75210.02	Cable ferry operators	-0.067
<b>695</b>	73402.01	Drillers - surface mining, quarrying and construction	-0.067
<b>696</b>	94112.01	Rubber processing machine operators	-0.068
<b>697</b>	94122.00	Paper converting machine operators	-0.068
<b>698</b>	94219.01	Product assemblers and finishers	-0.068
<b>699</b>	94105.02	Forging machine operators	-0.069
<b>700</b>	72421.01	Small electrical appliance servicers and repairers	-0.069
<b>701</b>	72205.02	Switch network installers and repairers	-0.069
<b>702</b>	94100.00	Machine operators, mineral and metal processing	-0.070
<b>703</b>	94140.02	Machine operators, food and beverage processing	-0.071
<b>704</b>	63221.00	Upholsterers	-0.072
<b>705</b>	94102.01	Glass process control operators	-0.072

<b>706</b>	94205.01	Machine operators in electrical apparatus manufacturing	-0.072
<b>707</b>	75210.01	Lock equipment operators	-0.073
<b>708</b>	72300.00	Plumbers	-0.074
<b>709</b>	72400.02	Textile machinery mechanics and repairers	-0.074
<b>710</b>	94152.00	Binding and finishing machine operators	-0.074
<b>711</b>	22114.03	Horticulturists	-0.076
<b>712</b>	65211.02	Attendants in amusement, recreation and sport	-0.078
<b>713</b>	72406.00	Elevator constructors and mechanics	-0.078
<b>714</b>	43200.00	Sheriffs and bailiffs	-0.079
<b>715</b>	73201.00	General building maintenance workers and building superintendents	-0.082
<b>716</b>	94130.02	Textile, hide and pelt dyeing and finishing machine operators	-0.082
<b>717</b>	62024.00	Cleaning supervisors	-0.085
<b>718</b>	63201.00	Butchers - retail and wholesale	-0.085
<b>719</b>	72203.00	Electrical power line and cable workers	-0.086
<b>720</b>	43204.00	Operations Members of the Canadian Armed Forces	-0.086
<b>721</b>	72204.00	Telecommunications line and cable installers and repairers	-0.086
<b>722</b>	74202.00	Air transport ramp attendants	-0.087
<b>723</b>	73300.01	Long-haul transport truck drivers	-0.089
<b>724</b>	95105.03	Fur cutters	-0.090
<b>725</b>	64322.00	Outdoor sport and recreational guides	-0.093
<b>726</b>	64410.01	Security guards	-0.095
<b>727</b>	43202.01	Animal control officer	-0.095
<b>728</b>	63220.02	Shoe repairers	-0.096
<b>729</b>	53124.06	Instrument makers	-0.097
<b>730</b>	65211.01	Amusement attraction operators	-0.098
<b>731</b>	44101.00	Home support workers, caregivers and related occupations	-0.098
<b>732</b>	64410.02	Armoured car guards	-0.099
<b>733</b>	72104.00	Structural metal and platework fabricators and fitters	-0.101
<b>734</b>	94102.03	Glass finishing machine operators	-0.102
<b>735</b>	94103.02	Clay products forming and finishing machine operators	-0.104
<b>736</b>	43202.06	Parking control officers	-0.104
<b>737</b>	94101.03	Foundry furnace operators	-0.105
<b>738</b>	94210.02	Furniture finishers	-0.106
<b>739</b>	53124.02	Glass blowers	-0.106

<b>740</b>	94151.02	Etchers and engravers	-0.106
<b>741</b>	84101.02	Oil and gas well service operators	-0.106
<b>742</b>	73202.00	Pest controllers and fumigators	-0.106
<b>743</b>	72403.00	Railway carmen/women	-0.107
<b>744</b>	95105.02	Fabric cutters	-0.107
<b>745</b>	72411.00	Auto body collision, refinishing and glass technicians and damage repair estimators	-0.108
<b>746</b>	94102.02	Glass forming machine operators	-0.108
<b>747</b>	94212.01	Plastic products assemblers and finishers	-0.108
<b>748</b>	43201.00	Correctional service officers	-0.109
<b>749</b>	53124.05	Stained glass artists	-0.110
<b>750</b>	83101.02	Oil and gas well loggers, testers and related workers	-0.111
<b>751</b>	65329.05	Parking lot attendants and car jockeys	-0.111
<b>752</b>	14400.00	Shippers and receivers	-0.111
<b>753</b>	73400.00	Heavy equipment operators	-0.113
<b>754</b>	72302.00	Gas fitters	-0.114
<b>755</b>	62021.00	Executive housekeepers	-0.115
<b>756</b>	94121.00	Pulp mill, papermaking and finishing machine operators	-0.115
<b>757</b>	53124.01	Carvers	-0.118
<b>758</b>	63220.01	Shoemakers	-0.118
<b>759</b>	95105.04	Leather cutters	-0.120
<b>760</b>	72106.01	Welders	-0.120
<b>761</b>	65329.03	Funeral home attendants	-0.121
<b>762</b>	65329.01	Beauty salon attendants	-0.121
<b>763</b>	93200.01	Aircraft assemblers	-0.123
<b>764</b>	73311.02	Brakemen	-0.124
<b>765</b>	55109.02	Magicians and illusionists	-0.126
<b>766</b>	65210.02	Ship and train service attendants	-0.127
<b>767</b>	75201.00	Delivery service drivers and door-to-door distributors	-0.128
<b>768</b>	74102.00	Couriers and messengers	-0.133
<b>769</b>	94124.00	Woodworking machine operators	-0.134
<b>770</b>	72301.01	Steamfitters and pipefitters	-0.135
<b>771</b>	72401.00	Heavy-duty equipment mechanics	-0.135
<b>772</b>	54100.01	Program leaders and instructors in recreation and sport	-0.137
<b>773</b>	94129.00	Other wood processing machine operators	-0.137

<b>774</b>	94210.03	Furniture refinishers	-0.137
<b>775</b>	94120.00	Sawmill machine operators	-0.139
<b>776</b>	33109.03	Rehabilitation aides	-0.139
<b>777</b>	83110.00	Logging machinery operators	-0.142
<b>778</b>	72301.02	Sprinkler system installers	-0.143
<b>779</b>	94132.00	Industrial sewing machine operators	-0.144
<b>780</b>	73111.00	Glaziers	-0.145
<b>781</b>	84101.01	Oil and gas well drilling workers	-0.145
<b>782</b>	83101.01	Oil and gas well drillers and well servicers	-0.148
<b>783</b>	94101.02	Metal casters	-0.148
<b>784</b>	94131.00	Weavers, knitters and other fabric making occupations	-0.148
<b>785</b>	74201.01	Engine room crew - water transport	-0.149
<b>786</b>	74101.00	Letter carriers	-0.152
<b>787</b>	74200.01	Railway yard workers	-0.153
<b>788</b>	73300.02	Short-haul and local transport truck drivers	-0.154
<b>789</b>	83120.00	Fishing masters and officers	-0.154
<b>790</b>	72311.00	Cabinetmakers	-0.155
<b>791</b>	44200.00	Primary combat members of the Canadian Armed Forces	-0.155
<b>792</b>	75101.02	Material handlers (equipment operators)	-0.156
<b>793</b>	72999.06	Commercial divers	-0.156
<b>794</b>	53111.05	Grips and riggers	-0.157
<b>795</b>	65220.00	Pet groomers and animal care workers	-0.157
<b>796</b>	22114.07	Lawn care specialists	-0.159
<b>797</b>	94210.01	Furniture and fixture assemblers	-0.162
<b>798</b>	94103.01	Concrete products forming and finishing machine operators and workers	-0.163
<b>799</b>	72106.02	Welding, brazing and soldering machine operators	-0.164
<b>800</b>	94211.01	Other wood products assemblers	-0.167
<b>801</b>	94213.02	Industrial metal finishing process operators	-0.168
<b>802</b>	65202.00	Meat cutters and fishmongers - retail and wholesale	-0.169
<b>803</b>	74203.00	Automotive and heavy truck and equipment parts installers and servicers	-0.169
<b>804</b>	32201.00	Massage therapists	-0.172
<b>805</b>	72310.00	Carpenters	-0.173
<b>806</b>	75100.00	Longshore workers	-0.174

<b>807</b>	65200.00	Food and beverage servers	-0.176
<b>808</b>	74205.00	Public works maintenance equipment operators and related workers	-0.178
<b>809</b>	94102.04	Glass cutters	-0.179
<b>810</b>	73200.00	Residential and commercial installers and servicers	-0.180
<b>811</b>	53124.04	Potters	-0.181
<b>812</b>	94203.02	Electrical fitters and wirers, industrial electrical motors and transformers	-0.184
<b>813</b>	74201.02	Deck crew, water transport	-0.185
<b>814</b>	94112.02	Assemblers, rubber products	-0.187
<b>815</b>	65329.02	Door attendants	-0.187
<b>816</b>	65101.00	Automotive and watercraft service station attendants	-0.192
<b>817</b>	33102.00	Nurse aides, orderlies and patient service associates	-0.194
<b>818</b>	51120.03	Choreographers	-0.203
<b>819</b>	73101.00	Tilesetters	-0.206
<b>820</b>	73102.03	Lathers	-0.210
<b>821</b>	84111.00	Silviculture and forestry workers	-0.211
<b>822</b>	72321.00	Insulators	-0.218
<b>823</b>	94213.01	Industrial painters and coaters	-0.220
<b>824</b>	84121.00	Fishing vessel deckhands	-0.220
<b>825</b>	84100.00	Underground mine service and support workers	-0.222
<b>826</b>	74200.02	Railway track maintenance workers	-0.223
<b>827</b>	83100.00	Underground production and development miners	-0.223
<b>828</b>	84120.02	Farm machinery operators	-0.228
<b>829</b>	83121.00	Fishermen/women	-0.232
<b>830</b>	55109.01	Buskers	-0.237
<b>831</b>	94101.01	Mouldmakers and coremakers	-0.237
<b>832</b>	73110.01	Roofers	-0.239
<b>833</b>	22114.01	Arborists and tree service technicians	-0.240
<b>834</b>	84120.01	Specialized livestock workers	-0.240
<b>835</b>	53121.03	Circus and other performers	-0.241
<b>836</b>	65210.03	Facilities workers	-0.245
<b>837</b>	95101.00	Labourers in metal fabrication	-0.245
<b>838</b>	85104.00	Trappers and hunters	-0.246
<b>839</b>	73110.02	Shinglers	-0.247



<b>840</b>	55109.03	Fashion Models	-0.248
<b>841</b>	53120.02	Dance teachers	-0.250
<b>842</b>	72105.00	Ironworkers	-0.253
<b>843</b>	73102.01	Plasterers	-0.256
<b>844</b>	94142.01	Fish and seafood plant machine operators	-0.256
<b>845</b>	74100.01	Mail sorters	-0.258
<b>846</b>	85110.00	Mine labourers	-0.258
<b>847</b>	65320.03	Ironing, pressing and finishing workers	-0.260
<b>848</b>	75212.00	Public works and maintenance labourers	-0.260
<b>849</b>	94103.03	Stone forming and finishing workers	-0.262
<b>850</b>	65329.04	Laundromat attendants	-0.265
<b>851</b>	65201.01	Food counter attendants and food preparers	-0.269
<b>852</b>	53200.00	Athletes	-0.269
<b>853</b>	85102.00	Aquaculture and marine harvest labourers	-0.275
<b>854</b>	75211.01	Railway labourers	-0.275
<b>855</b>	65320.01	Dry cleaning and laundry machine operators	-0.275
<b>856</b>	95107.00	Labourers in fish and seafood processing	-0.275
<b>857</b>	95100.00	Labourers in mineral and metal processing	-0.275
<b>858</b>	65201.04	Dishwashers	-0.276
<b>859</b>	75119.00	Other trades helpers and labourers	-0.276
<b>860</b>	85120.00	Logging and forestry labourers	-0.282
<b>861</b>	75211.02	Motor transport labourers	-0.284
<b>862</b>	72320.00	Bricklayers	-0.285
<b>863</b>	73102.02	Drywall installers and finishers	-0.285
<b>864</b>	95106.00	Labourers in food and beverage processing	-0.287
<b>865</b>	73112.00	Painters and decorators (except interior decorators)	-0.291
<b>866</b>	73113.00	Floor covering installers	-0.291
<b>867</b>	65201.03	Food service helpers	-0.293
<b>868</b>	95103.00	Labourers in wood, pulp and paper processing	-0.294
<b>869</b>	95104.00	Labourers in rubber and plastic products manufacturing	-0.295
<b>870</b>	65320.02	Dry cleaning and laundry inspectors and assemblers	-0.298
<b>871</b>	85111.00	Oil and gas drilling, servicing and related labourers	-0.300
<b>872</b>	95102.00	Labourers in chemical products processing and utilities	-0.303
<b>873</b>	95105.01	Labourers in textile processing	-0.303
<b>874</b>	85101.00	Harvesting labourers	-0.305

<b>875</b>	73100.00	Concrete finishers	-0.307
<b>876</b>	65201.02	Kitchen helpers	-0.310
<b>877</b>	65210.01	Guest service attendants and baggage porters	-0.311
<b>878</b>	95109.00	Other labourers in processing, manufacturing and utilities	-0.312
<b>879</b>	65102.00	Store shelf stockers, clerks and order fillers	-0.315
<b>880</b>	84110.00	Chain saw and skidder operators	-0.317
<b>881</b>	85100.00	Livestock labourers\	-0.321
<b>882</b>	65311.04	Vehicle cleaners	-0.323
<b>883</b>	85121.00	Landscaping and grounds maintenance labourers	-0.324
<b>884</b>	65310.02	Housekeepers	-0.326
<b>885</b>	65312.00	Janitors, caretakers and heavy-duty cleaners	-0.340
<b>886</b>	85103.00	Nursery and greenhouse labourers	-0.342
<b>887</b>	75110.00	Construction trades helpers and labourers	-0.343
<b>888</b>	53120.01	Dancers	-0.355
<b>889</b>	22114.06	Landscapers	-0.360
<b>890</b>	22114.05	Landscape gardeners	-0.364
<b>891</b>	94142.02	Fish and seafood plant cutters and cleaners	-0.369
<b>892</b>	65311.02	Chimney cleaners and sandblasters	-0.377
<b>893</b>	94141.03	Poultry preparers	-0.378
<b>894</b>	94141.02	Industrial meat cutters	-0.383
<b>895</b>	65310.01	Light duty cleaners	-0.384
<b>896</b>	75101.01	Material handlers (manual)	-0.384
<b>897</b>	65311.01	Carpet and upholstery cleaners	-0.384
<b>898</b>	65311.03	Furnace and ventilation system cleaners	-0.384
<b>899</b>	65311.05	Window cleaners	-0.392
<b>900</b>	94141.01	Industrial butchers	-0.401