

Ontario Labour Market Report

CIP Program 38.01: Philosophy, Logic, and Ethics
Most Relevant Academic Program(s) at Brock: Philosophy
EMSI Q3 2016 Data Set
February 2017



Institutional Analysis and Planning
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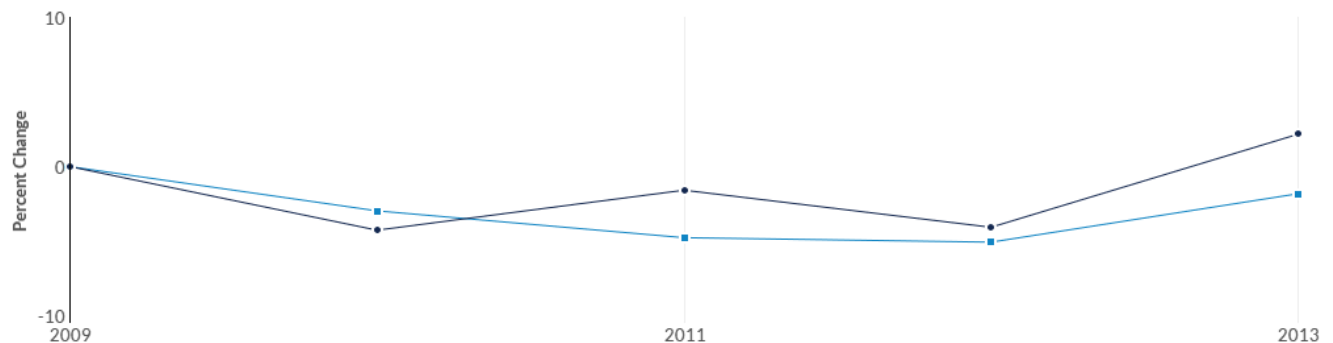
***Includes Description, Skills & Competencies, Ontario Trends in Field, Location of Job, Industries*

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Section 1: Program Overview for Philosophy (38.01)

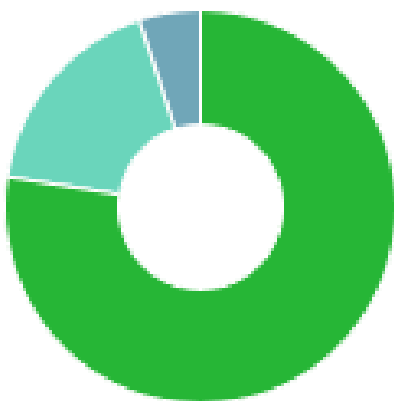
<p>23</p> <p>Ontario Institutions</p> <p>had Completions in the last 5 years</p>	<p>887</p> <p>Ontario Program Completions (2013)</p>
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a) How many degrees are completed in Ontario? (38.01)



Region	2009 Completions	2013 Completions	% Change
• Ontario	868	887	2.2%
• Canada	1,597	1,568	-1.8%

b) What types of degrees are coming from Ontario? (38.01)



Award Level	Completions (2013)	Percent
• Bachelors degree	687	77.5%
• Masters Degree	155	17.4%
• Doctors Degree	45	5.1%

c) What other similar programs are offered in Ontario?

16 Programs (2013)		21,128 Completions (2013)
CIP Code	Program	Completions (2013)
13.12	Teacher education and professional development, specific levels and methods	5,600
13.01	Education, general	2,829
54.01	History	2,258
23.01	English language and literature, general	2,190
22.01	Law (LLB, JD, BCL)	1,947

d) What other similar programs are offered at Brock University?

Teacher Education¹ - A concentration in operations management provides you with the knowledge and skills required to perform the processes that transform or convert inputs of materials, energy, information, and human skills into goods and services that satisfy customer needs. It will give you an understanding of the design and implementation of systems for planning, controlling and continuously improving operations.

History² - Historians explore changes in past societies, cultures and peoples. They examine cultural, artistic, political, economic, intellectual, social, military and national history. Their interests range from the history of individuals and local communities to studies of nations and international relations. They analyse the causes and consequences of significant change over time. They seek to illuminate the past. The study of history involves surveying and gathering evidence and evaluating, interpreting and refining it by constructing clear and logical arguments on the basis of that evidence.

English Language and Literature³ - The Literature programs in the Department of English Language and Literature focus on an understanding of the traditions, themes and dynamics of imaginative writing in English, within its various historical and cultural contexts. Students choose courses from a broad range of historically-organized courses, courses in literary genres, and courses in the history of language, criticism and theory. The Writing, Rhetoric and Discourse Studies program focuses on the theoretical, creative and practical applications of writing in and for a range of contexts. The Creative Writing program focuses on the craft of key literary genres, as well as the material and social contexts of creative writing.

Section 2: Target Occupations

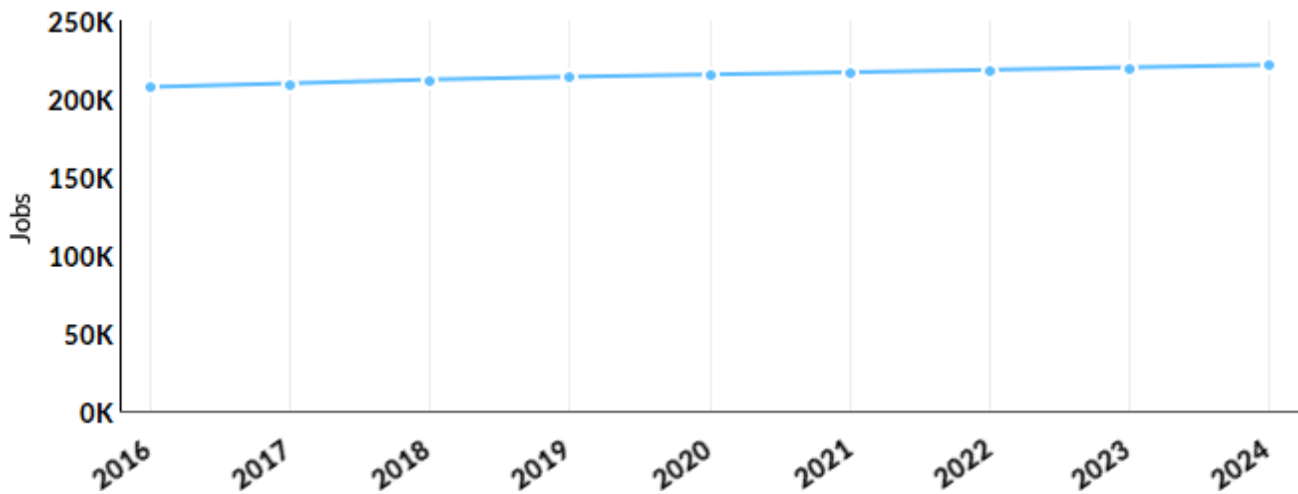
a) Which top growing target occupation are obtained by Alumni?

204,833 Jobs⁷ (2015) 12% above Canada's average		6.8% % Change (2016-2024) Canada: 5.9%	\$20.45/hr Median Hourly Wages⁸ Canada: \$17.83/hr	
Occupation	2016 Jobs ⁷	Median Hourly Wages ⁸	Growth (2016 - 2024)	Location Quotient ⁴ (2016)
Other customer and information services representatives	77,475	\$16.61/hr	2.29%	1.14
Security guards and related security service occupations	57,492	\$13.75/hr	11.47%	1.17
Post-secondary teaching and research assistants	31,683	\$21.63/hr	9.60%	1.05
Lawyers and Quebec notaries	22,880	\$45.48/hr	7.72%	1.07
Legal administrative assistants	17,651	\$24.62/hr	5.21%	1.16



b) What are the growth prospects for these target occupations?

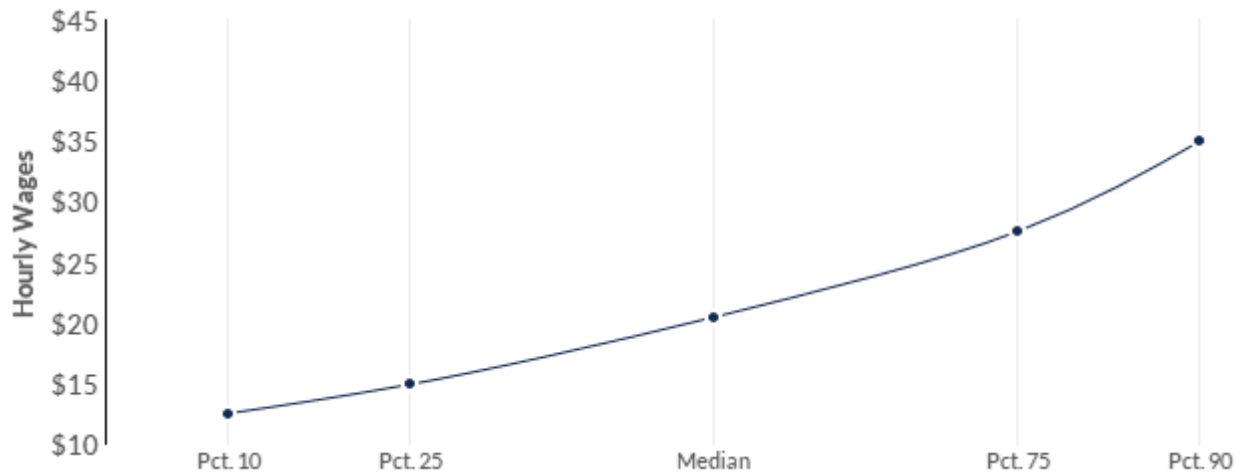
207,181	221,276	14,095	6.8%
2016 Jobs ⁷	2024 Jobs ⁷	Change (2016-2024)	% Change (2016-2024)



Occupation	2016 Jobs ⁷	2024 Jobs ⁷	Change	% Change
Legal administrative assistants (1242)	17,651	18,571	920	5%
Post-secondary teaching and research assistants (4012)	31,683	34,723	3,040	10%
Lawyers and Quebec notaries (4112)	22,880	24,647	1,767	8%
Security guards and related security service occupations (6541)	57,492	64,084	6,592	11%
Other customer and information services representatives (6552)	77,475	79,251	1,776	2%

c) How much are these target occupations earning?

\$14.90/hr 25th Percentile Wages ⁸	\$20.45/hr Median Wages ⁸	\$27.52/hr 75th Percentile Wages ⁸
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Occupation	25th Percentile Wages ⁸	Median Wages ⁸	75th Percentile Wages ⁸
Legal administrative assistants (1242)	\$17.79	\$24.62	\$30.61
Post-secondary teaching and research assistants (4012)	\$14.00	\$21.63	\$32.00
Lawyers and Quebec notaries (4112)	\$31.73	\$45.48	\$57.95
Security guards and related security service occupations (6541)	\$11.75	\$13.75	\$20.00
Other customer and information services representatives (6552)	\$12.00	\$16.61	\$21.63

d) Where are the hottest places in Ontario in terms of job growth?



Census Division	Census Division Name	2016 Jobs ⁷	2024 Jobs ⁷	2016 - 2024 Change	2016 - 2024 % Change	2016 Location Quotient	2024 Location Quotient ⁴	Expected Change	2015 Avg. Hourly Wages ⁸
3546	Haliburton	101	120	19	19%	0.61	0.66	5	\$19.35
3513	Prince Edward	126	145	19	15%	0.71	0.77	6	\$20.76
3523	Wellington	3,994	4,516	522	13%	1.21	1.29	207	\$21.35
3552	Sudbury	116	131	15	13%	0.53	0.56	6	\$19.52
3537	Essex	5,007	5,633	626	13%	1.06	1.14	259	\$18.73
3516	Kawartha Lakes	432	485	53	12%	0.68	0.73	23	\$20.21
3528	Haldimand-Norfolk	775	869	94	12%	0.70	0.75	40	\$20.03
3511	Lennox and Addington	208	233	25	12%	0.61	0.64	10	\$18.97
3547	Renfrew	1,320	1,475	155	12%	1.01	1.07	68	\$18.74
3531	Perth	679	757	78	11%	0.55	0.58	35	\$19.69
3544	Muskoka	427	474	47	11%	0.60	0.65	22	\$20.20
3551	Manitoulin	75	83	8	11%	0.47	0.49	3	\$20.59
3541	Bruce	489	541	52	11%	0.54	0.56	25	\$19.91

Census Division	Census Division Name	2016 Jobs ⁷	2024 Jobs ⁷	2016 - 2024 Change	2016 - 2024 % Change	2016 Location Quotient	2024 Location Quotient ⁴	Expected Change	2015 Avg. Hourly Wages ⁸
3515	Peterborough	1,988	2,197	209	11%	1.12	1.17	103	\$20.48
3525	Hamilton	7,472	8,213	741	10%	1.18	1.23	387	\$21.62
3549	Parry Sound	195	214	19	10%	0.54	0.56	11	\$20.56
3522	Dufferin	339	371	32	9%	0.59	0.61	17	\$20.77
3524	Halton	5,700	6,237	537	9%	0.82	0.84	295	\$20.78
3548	Nipissing	1,308	1,430	122	9%	1.07	1.10	68	\$20.51
3540	Huron	344	375	31	9%	0.51	0.54	17	\$21.32
3538	Lambton	1,381	1,499	118	9%	0.88	0.92	72	\$17.69
3556	Cochrane	1,000	1,085	85	9%	0.87	0.89	51	\$19.56
3553	Greater Sudbury / Grand Sudbury	1,968	2,131	163	8%	0.82	0.84	102	\$21.20
3558	Thunder Bay	2,260	2,446	186	8%	1.10	1.14	117	\$20.87
3536	Chatham-Kent	1,406	1,520	114	8%	1.12	1.18	72	\$17.20
3512	Hastings	2,640	2,850	210	8%	1.38	1.42	136	\$18.07
3502	Prescott and Russell	415	448	33	8%	0.55	0.55	22	\$25.08
3519	York	12,926	13,910	984	8%	0.88	0.89	669	\$21.51
3509	Lanark	368	396	28	8%	0.58	0.59	19	\$24.64
3529	Brant	1,429	1,536	107	7%	0.80	0.82	74	\$19.77
3554	Timiskaming	214	230	16	7%	0.53	0.53	11	\$21.53
3521	Peel	22,034	23,671	1,637	7%	1.11	1.13	1,139	\$20.23
3514	Northumberland and	487	523	36	7%	0.60	0.61	25	\$18.54
3520	Toronto	66,953	71,498	4,545	7%	1.49	1.51	3,463	\$24.36
3543	Simcoe	3,988	4,255	267	7%	0.79	0.79	206	\$20.13
3559	Rainy River	126	134	8	6%	0.50	0.51	6	\$21.06
3530	Waterloo	8,386	8,907	521	6%	1.07	1.09	434	\$20.56
3560	Kenora	437	464	27	6%	0.59	0.60	23	\$21.57
3526	Niagara	5,571	5,886	315	6%	1.06	1.09	288	\$20.25

Section 3: Top Three Job Occupation Summaries

a) Security Guard and Related Security Service Occupations

This unit group includes workers who guard and implement security measures to protect property against theft, vandalism and fire, control access to establishments, maintain order and enforce regulations at public events and within establishments, conduct private investigations for clients or employers and provide other protective services not elsewhere classified. They are employed by public or private security agencies, residential complexes, educational, cultural, financial and health institutions, retail establishments, businesses and industry, investigation service companies, transportation facilities, and organizations throughout the private and public sectors, or they may be self-employed ⁵.

Technology Skills Required ⁶:

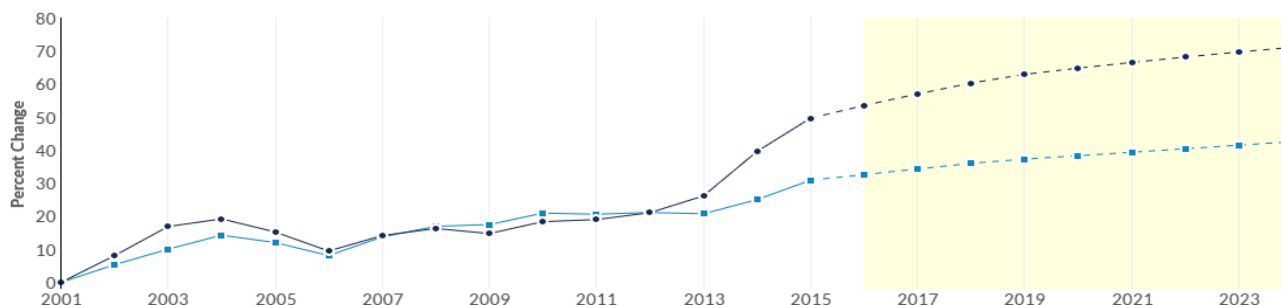
- Office Suite Software: Wireshark, McAfee
- Microsoft Software: Word, Excel, Office, Access

Skills & Abilities Required ⁶:

- Problem Sensitivity: ability to tell when something is likely to go wrong
- Documenting/Recording: entering, recording, storing information in written or electronic form

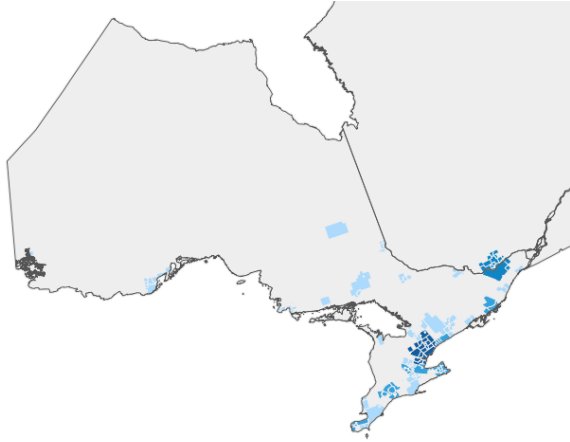
56,049 Jobs ⁷ (2015) 16% above Canada's average	11.5% % Change (2016-2024) Canada: 7.5%	\$13.75/hr Median Hourly Wages ⁸ Canada: \$14.89/hr
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Ontario Trends



	Region	2016 Jobs ⁷	2024 Jobs ⁷	Change	% Change
●	Ontario	57,492	64,084	6,592	11.5%
●	Canada	127,823	137,422	9,599	7.5%

Where are the most jobs in Ontario for Security Guard and Related Security Service Occupations?



Census Metropolitan Aggregate	2024 Jobs ⁷
Toronto	35,679
Ottawa - Gatineau	8,727
London	2,680
Hamilton	2,541
Kitchener - Cambridge - Waterloo	1,804

Who are employing Security Guards and Related Security Service Occupations?

Industry	Occupation Jobs ⁷ in Industry (2015)	% of Occupation in Industry (2015)	% of Total Jobs ⁷ in Industry (2015)
Investigation and security services	33,399	59.6%	70.1%
Local, municipal and regional public administration	3,295	5.9%	1.8%
Lessors of real estate	1,221	2.2%	2.4%
Other federal services	964	1.7%	0.8%
Gambling industries	952	1.7%	6.9%

There is an expected increase of 11% for professional jobs by 2024.



b) Post-Secondary Teaching and Research Assistant

Post-secondary teaching and research assistants assist university professors, community college and CEGEP teachers and other faculty members in teaching and research activities at universities and colleges⁵.

Technology Skills Required⁶:

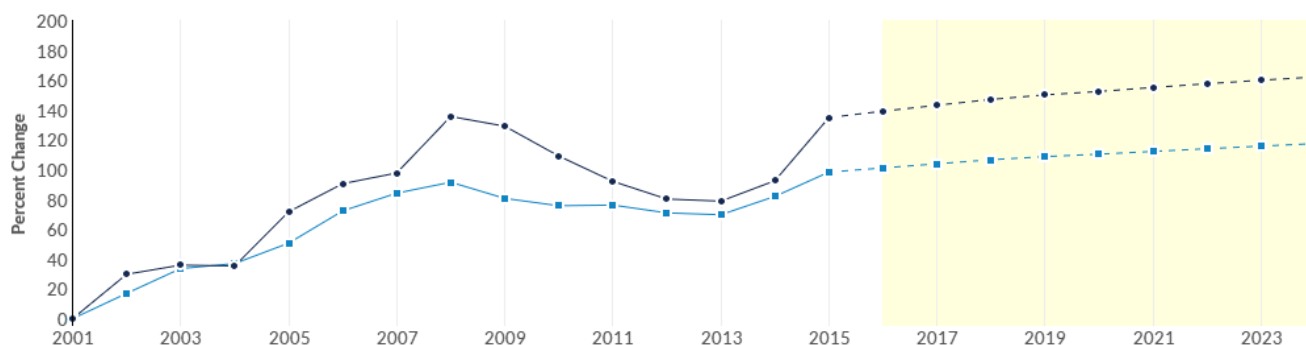
- Computer Based Training Software: Instructional Software, SAS, SPSS
- Microsoft Software: Word, PowerPoint, Excel
- Database and query software: Blackboard, PowerSchool SIS

Skills & Abilities Required⁶:

- Education and Training: knowledge of principles and methods for curriculum
- Speaking: talking to others to convey information
- Deductive Reasoning: apply rules to problems to produce sensible answers

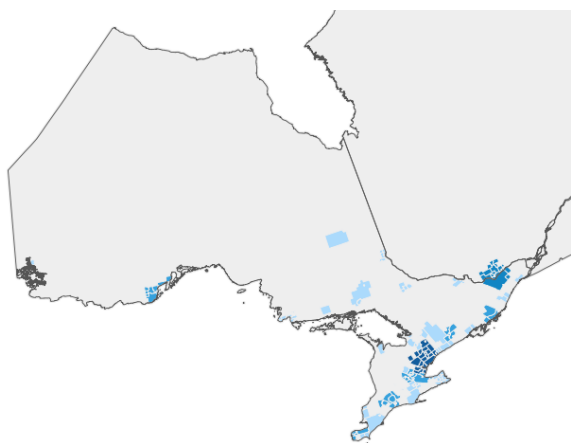
31,117 Jobs ⁷ (2015) 4% above Canada's average	9.6% % Change (2016-2024) Canada: 8.1%	\$21.63/hr Median Hourly Wages ⁸ Canada: \$21.15/hr
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Ontario Trends



	Region	2016 Jobs ⁷	2024 Jobs ⁷	Change	% Change
•	Ontario	31,683	34,723	3,040	9.6%
•	Canada	79,104	85,525	6,421	8.1%

Where are the most jobs in Ontario for Post-Secondary Teaching and Research Assistants?

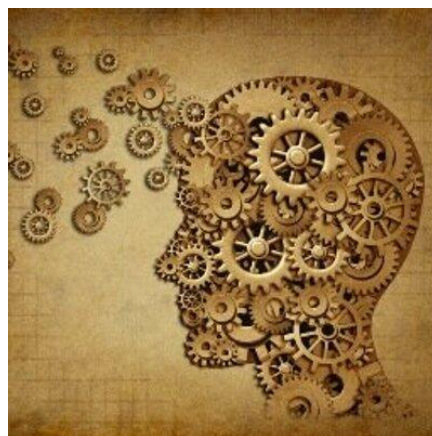


Census Metropolitan Aggregate	2024 Jobs ⁷
Toronto	14,433
Ottawa - Gatineau	5,135
Kitchener - Cambridge - Waterloo	2,520
Guelph	2,280
Hamilton	2,249

Who are employing Post-Secondary Teaching and Research Assistants?

Industry	Occupation Jobs ⁷ in Industry (2015)	% of Occupation in Industry (2015)	% of Total Jobs ⁷ in Industry (2015)
Universities	27,847	89.5%	27.0%
Community colleges and C.E.G.E.P.s	1,179	3.8%	2.7%
General medical and surgical hospitals	827	2.7%	0.4%
Scientific research and development services	440	1.4%	1.5%
Other federal services	143	0.5%	0.1%

There is an increase of 3,000 + Post-Secondary and Research Assistant jobs by 2024.



c) Lawyer and Quebec Notaries

Lawyers and Quebec notaries advise clients on legal matters, represent clients before administration boards and draw up legal documents such as contracts and wills. Lawyers also plead cases, represent clients before tribunals and conduct prosecutions in courts of law. Lawyers are employed in law firms and prosecutor's offices. Quebec notaries are employed in notary offices. Both lawyers and Quebec notaries are employed by federal, provincial and municipal governments and various business establishments or they may be self-employed. Articling students are included in this group ⁵.

Technology Skills Required ⁶:

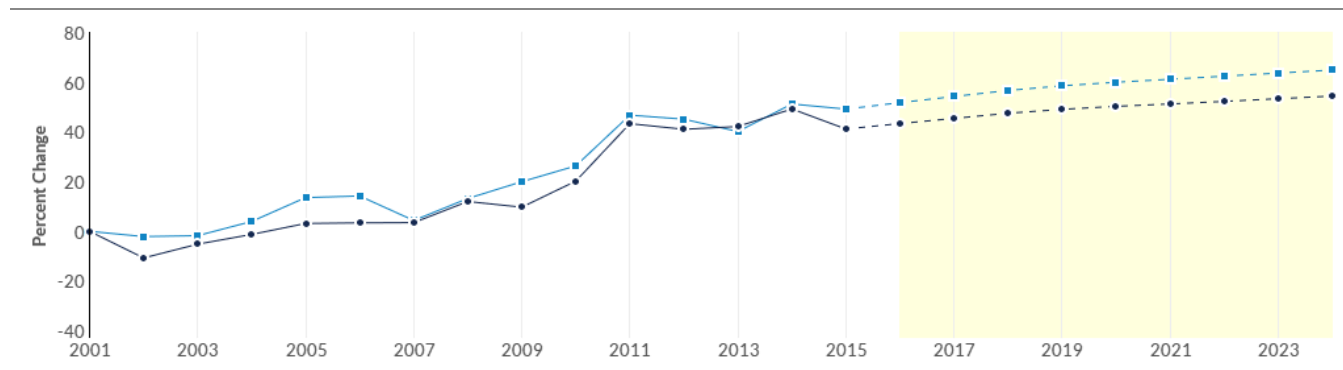
- Web Page Editing Software: Adobe Systems, Podcasting software
- Document Management Software: Adobe Systems Adobe Acrobat
- Presentation Software: Microsoft PowerPoint

Skills & Abilities Required ⁶:

- Getting Information: Observing, receiving, and obtaining information
- Speaking: talking to others to convey information
- Knowledge: Knowledge on laws, legal codes, court procedures, government

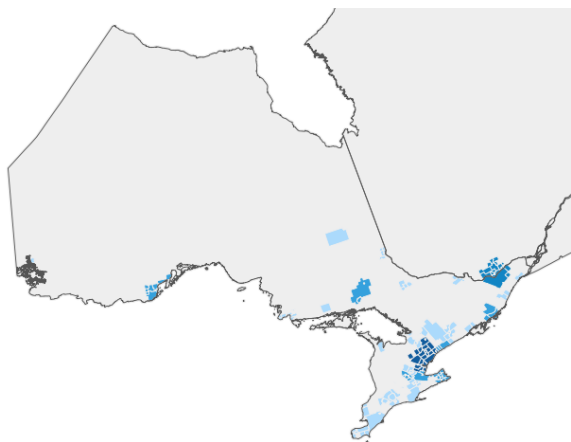
22,530 Jobs ⁷ (2015) 7% above Canada's average	7.7% % Change (2016-2024) Canada: 8.6%	\$45.48/hr Median Hourly Wages ⁸ Canada: \$42.45/hr
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Ontario Trends



	Region	2016 Jobs ⁷	2024 Jobs ⁷	Change	% Change
•	Ontario	22,880	24,647	1,767	7.7%
•	Canada	55,928	60,760	4,832	8.6%

Where are the most jobs for Lawyers and Quebec Notaries?



Census Metropolitan Aggregate	2024 Jobs ⁷
Toronto	16,433
Ottawa - Gatineau	3,478
Hamilton	804
St. Catharines - Niagara	464
Oshawa	428

Who are employing Lawyers and Quebec Notaries?

Industry	Occupation Jobs ⁷ in Industry (2015)	% of Occupation in Industry (2015)	% of Total Jobs ⁷ in Industry (2015)
Legal services	9,614	42.7%	25.8%
Provincial and territorial public administration	3,151	14.0%	4.2%
Other federal services	2,055	9.1%	1.7%
Local, municipal and regional public administration	980	4.4%	0.5%
Management of companies and enterprises	712	3.2%	1.9%

There is an positive increase for professional jobs by 2024.



Reference and Notes

¹ <https://brocku.ca/education/>

² <https://brocku.ca/webcal/2016/undergrad/hist.html>

³ <https://brocku.ca/webcal/2016/undergrad/engl.html>

⁴ Location Quotient: a calculation that quantifies the concentration of a particular industry, cluster, or occupation, in a region as compared to the nation. It can reveal what makes a particular region “unique” in comparison to the national average. Source: <http://www.economicmodeling.com/2011/10/14/understanding-location-quotient-2/>

⁵ <https://brocku.EmsiCareerCoach.ca>

⁶ <https://www.onetonline.org/>

⁷ Employment numbers do not include people who are self-employed and may be under-represented.

⁸ Wages do not consider people who are self-employed and may be under-represented.