

Jobs • Wages • Payroll  
Establishments • Industry sectors  
Wage differential • Tech concentration

# Cyberprovinces 2015™

Province-by-province analysis  
of the Canadian tech industry



## EXECUTIVE SUMMARY

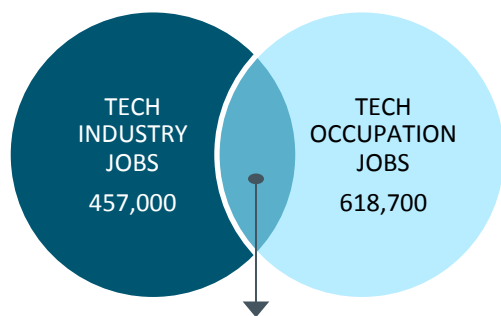
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- ❖ The information technology (IT) industry plays an important role in the Canadian economy. In 2014, the industry accounted for 4.4 percent of Canadian GDP. According to IDC, IT spending in Canada reached \$128.4 CAD in 2014, an increase of 4.2 percent year-over-year.
- ❖ Canadian technology companies employed 457,005 workers last year, an increase of 1.4 percent over 2013. In addition to these 38,458 enterprises with payroll, there were 88,000 self-employed, sole proprietors working in some capacity in the technology industry, according to Statistics Canada, the data arm of the Canadian government.
- ❖ On an employment basis, the IT services sector is the largest component of the industry, followed by telecommunications and internet services, manufacturing, wholesale, and software publishing. The strong showing of IT services reflects the growing need for expertise in areas such as cloud computing, mobility, business process automation, managed services and more. See CompTIA's [\*IT Industry Outlook 2015\*](#) for insight into the technology trends shaping the business landscape.
- ❖ The Canadian tech industry follows a classic pyramid pattern, with a large number of small firms at the base, narrowing to a limited number of large enterprises. Among companies with payroll, a net 98.1 percent can be classified as small businesses with fewer than 100 employees. Breaking this down further, 83.1 percent can be classified as micro-size businesses with fewer than 10 employees. The capital-intensive sectors – telecommunications and manufacturing, have the largest share of large enterprises (500+ employees), while IT services is most heavily dominated by small businesses.
- ❖ Among provinces, Ontario stands apart for its size, accounting for nearly half of all tech industry jobs (48 percent) and more than half of the number of tech businesses found in Canada (52 percent). The province of Quebec ranks second, with 25 percent of tech industry jobs, followed by British Columbia (11 percent) and Alberta (8 percent).
- ❖ Tech industry wages averaged \$72,000 CAD in 2014, \$23,700 higher (+49 percent) than the overall private sector average of \$48,300 CAD.
- ❖ The other side of the employment equation is represented by tech occupations. These are the technical workers employed by every type of industry across the Canadian economy. For example, a network administrator working for a hospital, a software developer for a financial institution, or a computer support specialist at a school. In 2014, businesses employed 618,700 IT workers, up 4.3 percent compared to the previous year.
- ❖ On a year-over-year percent change basis, the following occupations increased at the highest rate: system testing technicians (+19.7 percent), computer engineers (+16.0 percent), user support technicians (+11.7 percent), data analysts and administrators (+10.9 percent) and computer programmers and interactive media developers (+9.2 percent). Two occupations did experience notable declines: web designers and developers (-10.8 percent) and telecommunications installation and repair workers (-14.1 percent). These data points cover workers employed by businesses only; self-employed workers are counted separately by Statistics Canada and EMSI. This segment included 89,650 workers as of yearend 2014, with the category of information system analysts and consultants accounting for the largest share.
- ❖ While the long-term macro trend points toward increasing demand for skilled technology workers, hiring demand in the short-term appears somewhat muted. According to Burning Glass Technologies Labor Insights, job postings for technology occupations fell -9.6 percent during Q1 2015 compared to Q1 2014. One area hit especially hard due to the sharp drop in oil prices was the province of Alberta, where job postings for tech workers were down 34.2 percent.
- ❖ For additional context and trending, see CompTIA's U.S. [\*Cyberstates\*](#) publication or the various CompTIA research reports covering the IT channel in Canada.



# CANADA

## STATE OF TECHNOLOGY IN CANADA



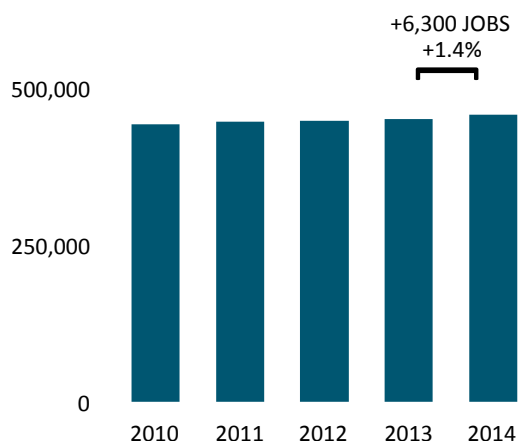
The tech industry employs many technical workers, as well as non-technical workers. Tech occupations can be found in every industry sector across the Canadian economy.

TECH INDUSTRY JOBS	457,005
# OF TECH ENTERPRISES WITH EMPLOYEES	38,458
# OF SOLE PROPRIETOR TECH ENTERPRISES	50,708
AVERAGE ANNUAL WAGE IN TECH INDUSTRY	\$72,204
% OF CANADIAN PRIVATE SECTOR WORKERS EMPLOYED BY TECH INDUSTRY FIRMS	2.9%
% OF TECH INDUSTRY FIRMS THAT ARE SMALL BUSINESSES (<100 EMPLOYEES)	98.1%

Sources: Statistics Canada | EMSI

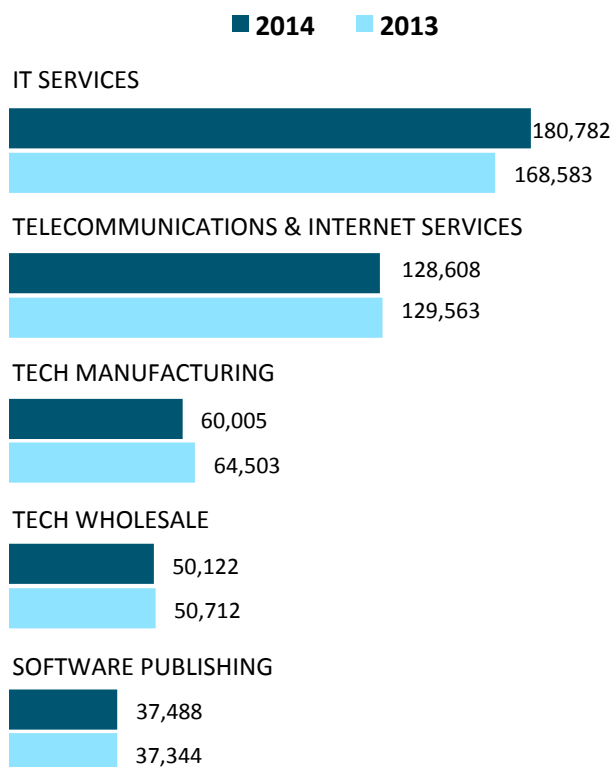
Data covers the 2014 time period, except where specified as other | Employer firm level data

### TECH INDUSTRY EMPLOYMENT TRENDS



THE TECH INDUSTRY ACCOUNTS FOR 4.4% OF CANADA'S ECONOMY

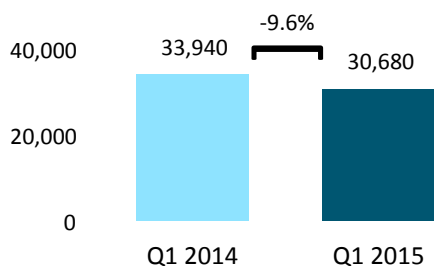
### LEADING TECH INDUSTRY SECTORS (BY EMPLOYMENT)



### LEADING OCCUPATIONAL JOB CATEGORIES

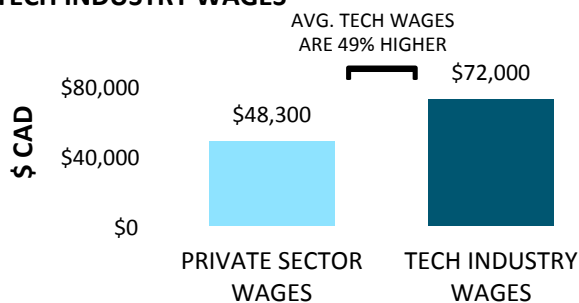
	2014	YoY % Change
Information systems analysts and consultants	132,467	0.9%
Programmers and interactive media developers	122,105	9.2%
User support technicians	84,415	11.7%
Computer network technicians	66,666	2.3%
Computer and information systems managers	59,320	-1.3%

### POSTINGS FOR TECH OCCUPATIONS JOB OPENINGS (NET)



Source: Burning Glass Technologies Labor Insights

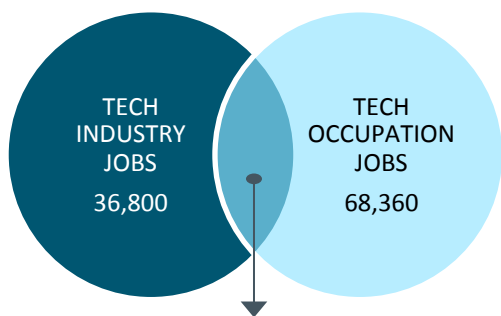
### TECH INDUSTRY WAGES





# ALBERTA

## STATE OF TECHNOLOGY IN ALBERTA



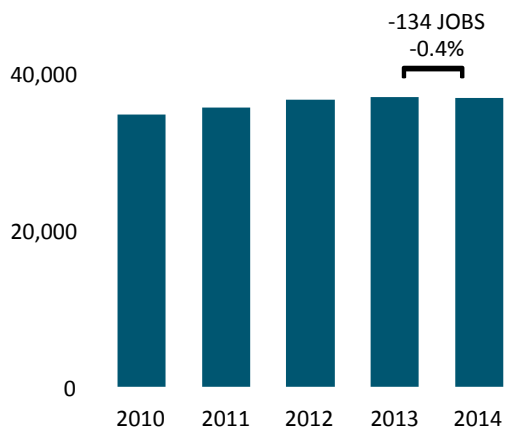
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TECH INDUSTRY JOBS	36,800
# OF TECH ENTERPRISES WITH EMPLOYEES	4,418
# OF SOLE PROPRIETOR TECH ENTERPRISES	6,424
AVERAGE ANNUAL WAGE IN TECH INDUSTRY	\$79,910
% OF PRIVATE SECTOR WORKERS EMPLOYED BY TECH INDUSTRY FIRMS	1.8%
% OF TECH INDUSTRY FIRMS THAT ARE SMALL BUSINESSES (<100 EMPLOYEES)	98.4%

Sources: Statistics Canada | EMSI

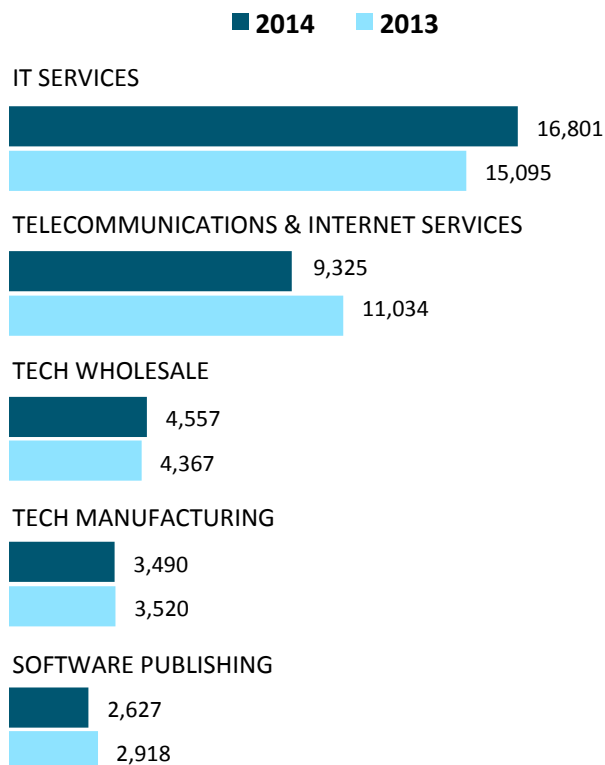
Data covers the 2014 time period, except where specified as other | Employer firm level data

### TECH INDUSTRY EMPLOYMENT TRENDS



THE TECH INDUSTRY ACCOUNTS FOR 3.2% OF ALBERTA'S ECONOMY

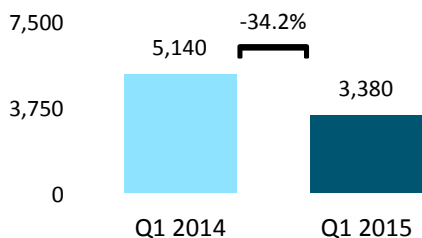
### LEADING TECH INDUSTRY SECTORS (BY EMPLOYMENT)



### LEADING OCCUPATIONAL JOB CATEGORIES

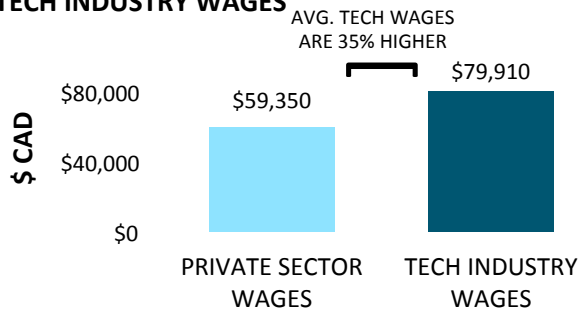
	2014	YoY % Change
Programmers and media developers	12,071	16.9%
Information systems analysts and consultants	11,741	-14.1%
User support technicians	8,398	-10.2%
Computer network technicians	7,555	32.2%
Computer and information systems managers	5,442	10.1%

### POSTINGS FOR TECH OCCUPATIONS JOB OPENINGS (NET)



Source: Burning Glass Technologies Labor Insights

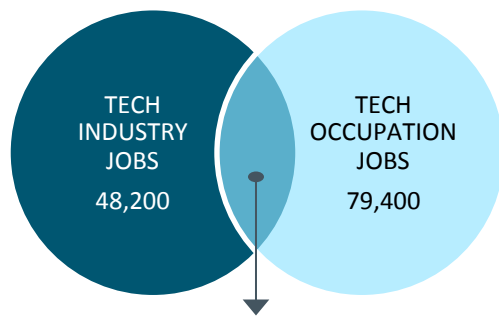
### TECH INDUSTRY WAGES





# BRITISH COLUMBIA

## STATE OF TECHNOLOGY IN BRITISH COLUMBIA



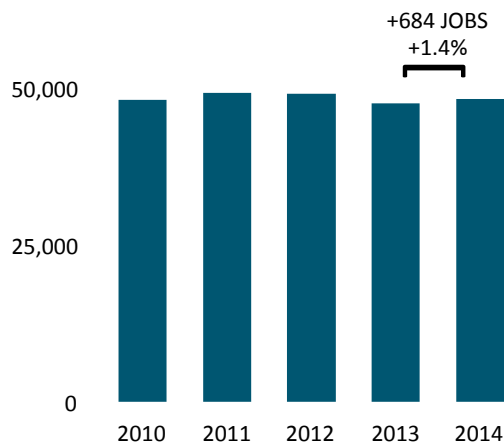
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TECH INDUSTRY JOBS	48,200
# OF TECH ENTERPRISES WITH EMPLOYEES	4,408
# OF SOLE PROPRIETOR TECH ENTERPRISES	6,549
AVERAGE ANNUAL WAGE IN TECH INDUSTRY	\$74,750
% OF PRIVATE SECTOR WORKERS EMPLOYED BY TECH INDUSTRY FIRMS	2.3%
% OF TECH INDUSTRY FIRMS THAT ARE SMALL BUSINESSES (<100 EMPLOYEES)	98.2%

Sources: Statistics Canada | EMSI

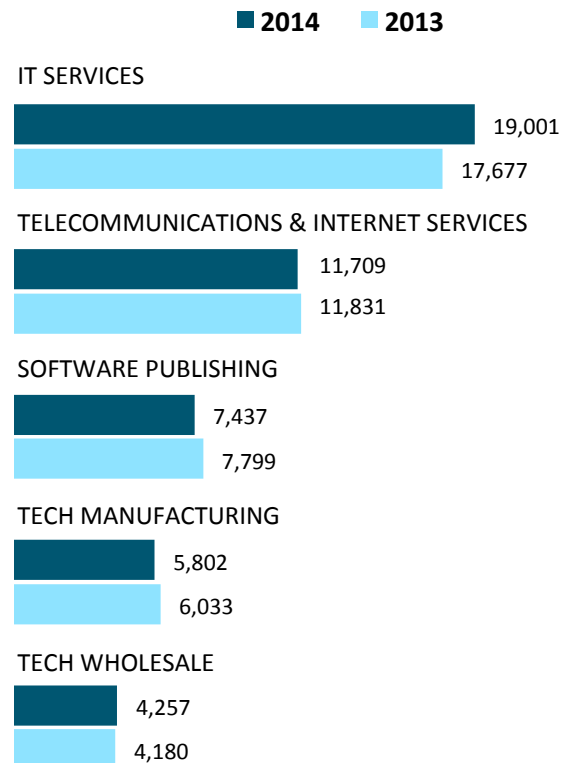
Data covers the 2014 time period, except where specified as other | Employer firm level data

### TECH INDUSTRY EMPLOYMENT TRENDS



THE TECH INDUSTRY ACCOUNTS FOR 4.3% OF BRITISH COLUMBIA'S ECONOMY

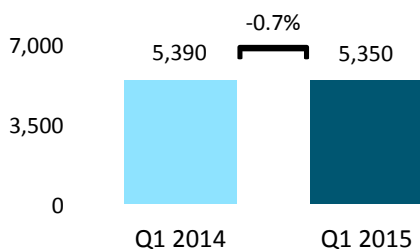
### LEADING TECH INDUSTRY SECTORS (BY EMPLOYMENT)



### LEADING OCCUPATIONAL JOB CATEGORIES

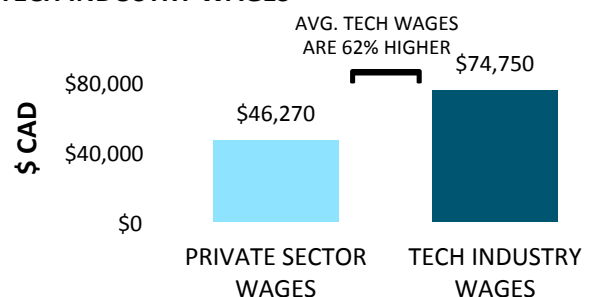
	2014	YoY % Change
Programmers and media developers	14,873	13.1%
Information systems analysts and consultants	9,778	-7.4%
User support technicians	9,666	24.6%
Computer network technicians	7,387	-9.8%
Computer and information systems managers	7,269	-0.6%

### POSTINGS FOR TECH OCCUPATIONS JOB OPENINGS (NET)



Source: Burning Glass Technologies Labor Insights

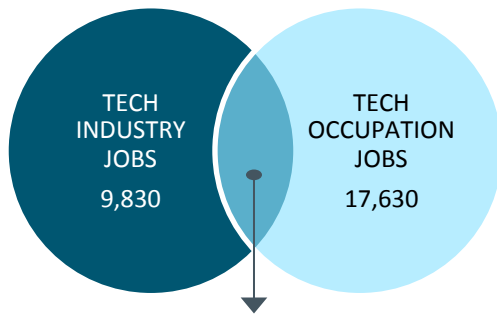
### TECH INDUSTRY WAGES





# MANITOBA

## STATE OF TECHNOLOGY IN MANITOBA



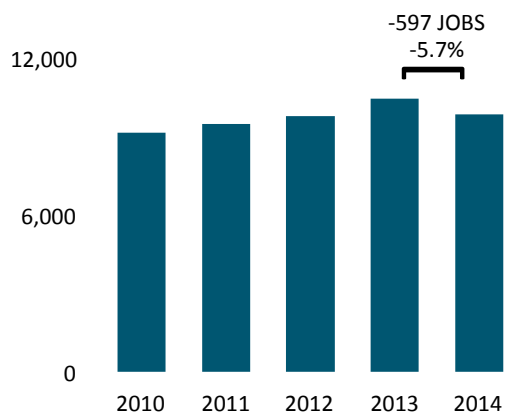
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TECH INDUSTRY JOBS	9,830
# OF TECH ENTERPRISES WITH EMPLOYEES	545
# OF SOLE PROPRIETOR TECH ENTERPRISES	574
AVERAGE ANNUAL WAGE IN TECH INDUSTRY	\$71,300
% OF PRIVATE SECTOR WORKERS EMPLOYED BY TECH INDUSTRY FIRMS	1.6%
% OF TECH INDUSTRY FIRMS THAT ARE SMALL BUSINESSES (<100 EMPLOYEES)	96.5%

Sources: Statistics Canada | EMSI

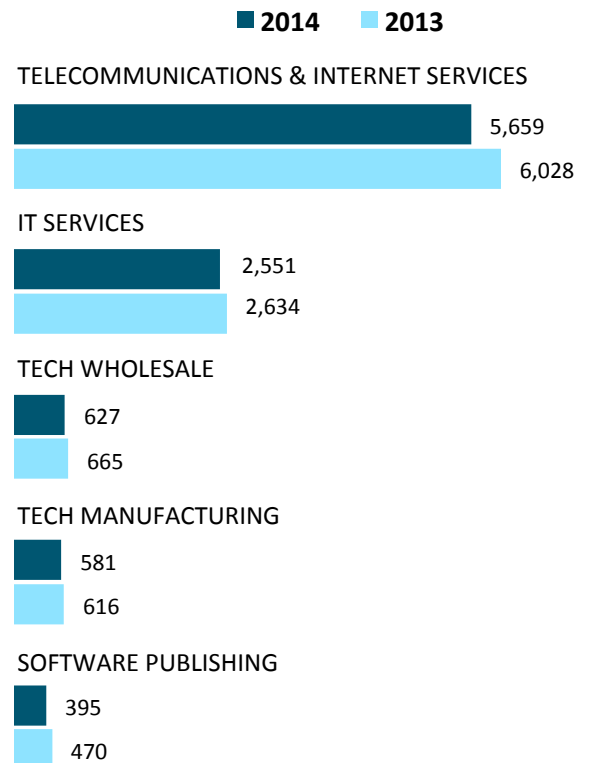
Data covers the 2014 time period, except where specified as other | Employer firm level data

### TECH INDUSTRY EMPLOYMENT TRENDS



THE TECH INDUSTRY ACCOUNTS FOR 3.4% OF MANITOBA'S ECONOMY

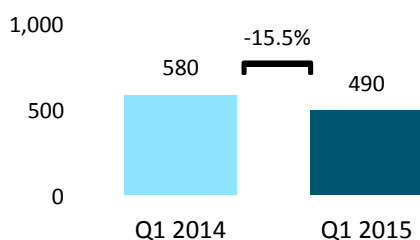
### LEADING TECH INDUSTRY SECTORS (BY EMPLOYMENT)



### LEADING OCCUPATIONAL JOB CATEGORIES

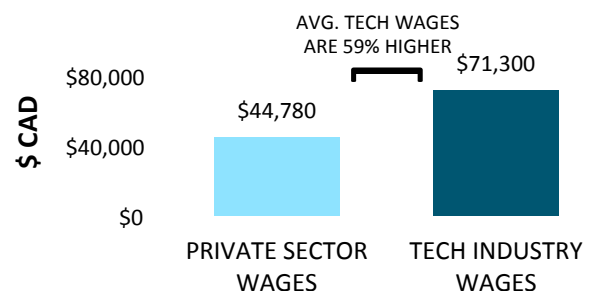
	2014	YoY % Change
Information systems analysts and consultants	3,319	11.1%
Programmers and media developers	3,165	2.6%
User support technicians	2,929	15.6%
Computer network technicians	2,301	19.9%
Computer and information systems managers	1,351	18.5%

### POSTINGS FOR TECH OCCUPATIONS JOB OPENINGS (NET)



Source: Burning Glass Technologies Labor Insights

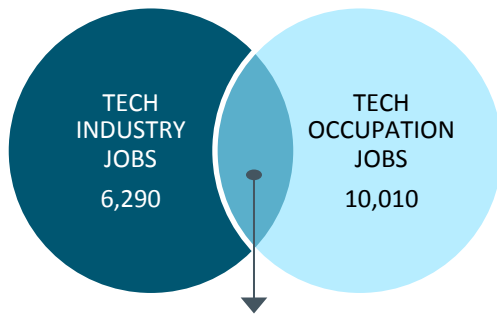
### TECH INDUSTRY WAGES





# NEW BRUNSWICK

## STATE OF TECHNOLOGY IN NEW BRUNSWICK



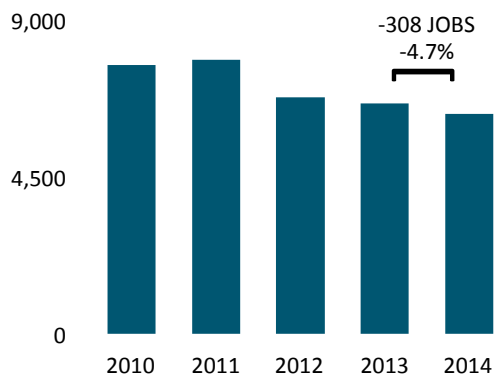
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TECH INDUSTRY JOBS	6,290
# OF TECH ENTERPRISES WITH EMPLOYEES	313
# OF SOLE PROPRIETOR TECH ENTERPRISES	273
AVERAGE ANNUAL WAGE IN TECH INDUSTRY	\$69,590
% OF PRIVATE SECTOR WORKERS EMPLOYED BY TECH INDUSTRY FIRMS	2.0%
% OF TECH INDUSTRY FIRMS THAT ARE SMALL BUSINESSES (<100 EMPLOYEES)	95.8%

Sources: Statistics Canada | EMSI

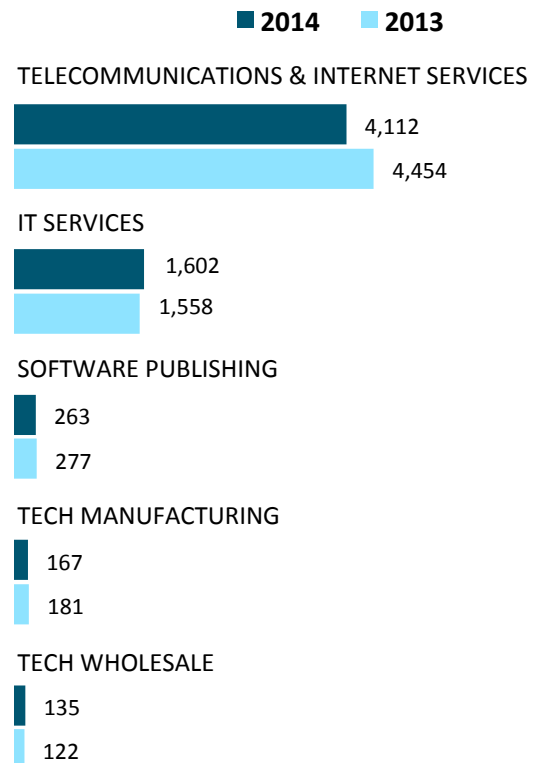
Data covers the 2014 time period, except where specified as other | Employer firm level data

### TECH INDUSTRY EMPLOYMENT TRENDS



THE TECH INDUSTRY ACCOUNTS FOR 3.9% OF NEW BRUNSWICK'S ECONOMY

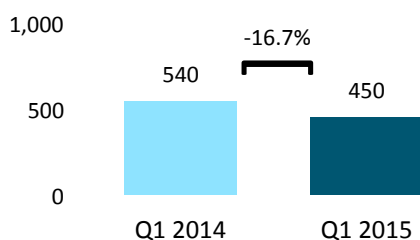
### LEADING TECH INDUSTRY SECTORS (BY EMPLOYMENT)



### LEADING OCCUPATIONAL JOB CATEGORIES

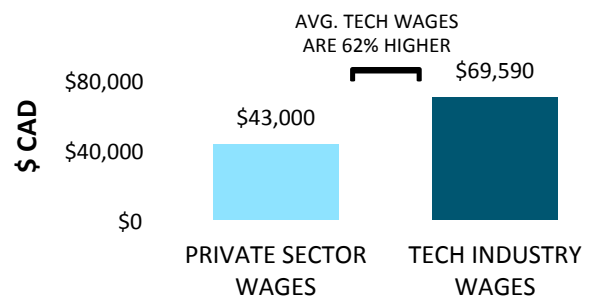
	2014	YoY % Change
Information systems analysts and consultants	2,399	-13.1%
Programmers and media developers	1,824	-0.5%
User support technicians	1,509	6.5%
Computer network technicians	978	7.1%
Computer and information systems managers	906	26.7%

### POSTINGS FOR TECH OCCUPATIONS JOB OPENINGS (NET)



Source: Burning Glass Technologies Labor Insights

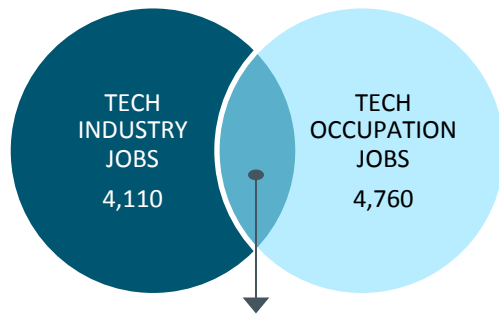
### TECH INDUSTRY WAGES





# NEWFOUNDLAND AND LABRADOR

## STATE OF TECHNOLOGY IN NEWFOUNDLAND AND LABRADOR



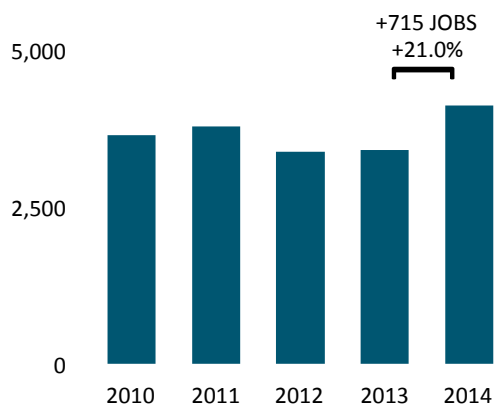
The tech industry employs many technical workers, as well as non-technical workers. Tech occupations can be found in every industry sector across the Canadian economy.

TECH INDUSTRY JOBS	4,110
# OF TECH ENTERPRISES WITH EMPLOYEES	161
# OF SOLE PROPRIETOR TECH ENTERPRISES	146
AVERAGE ANNUAL WAGE IN TECH INDUSTRY	\$73,060
% OF PRIVATE SECTOR WORKERS EMPLOYED BY TECH INDUSTRY FIRMS	1.8%
% OF TECH INDUSTRY FIRMS THAT ARE SMALL BUSINESSES (<100 EMPLOYEES)	96.3%

Sources: Statistics Canada | EMSI

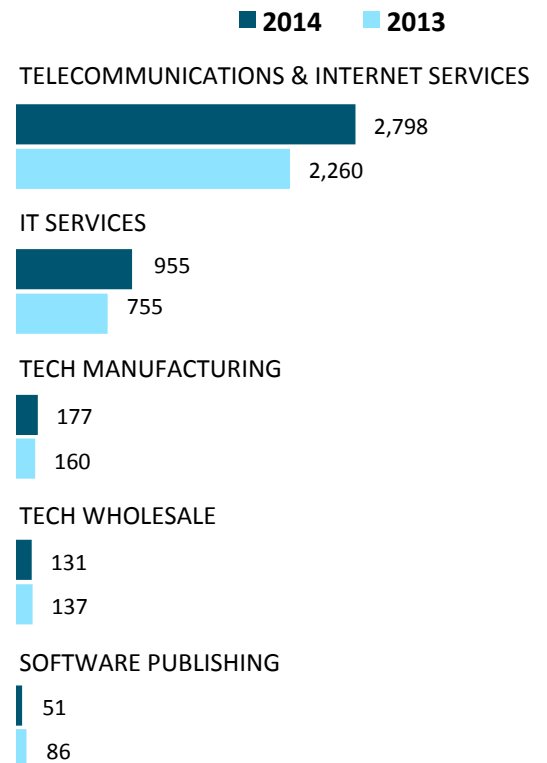
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### TECH INDUSTRY EMPLOYMENT TRENDS



THE TECH INDUSTRY ACCOUNTS FOR 2.6% OF NEWFOUNDLAND AND LABRADOR'S ECONOMY

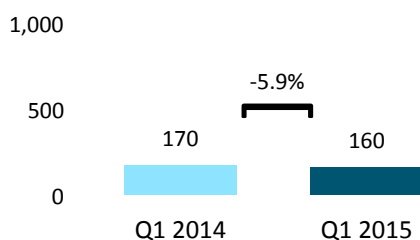
### LEADING TECH INDUSTRY SECTORS (BY EMPLOYMENT)



### LEADING OCCUPATIONAL JOB CATEGORIES

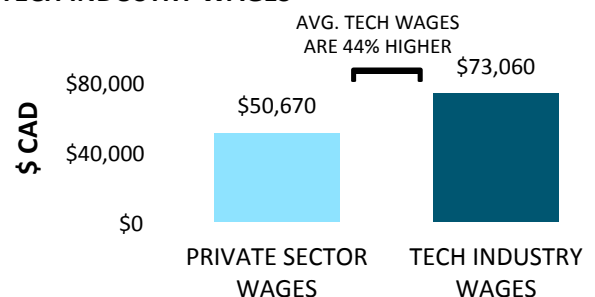
	2014	YoY % Change
Information systems analysts and consultants	1,236	11.8%
User support technicians	957	60.0%
Programmers and media developers	795	17.4%
Computer and information systems managers	391	-20.9%
Computer network technicians	373	-53.6%

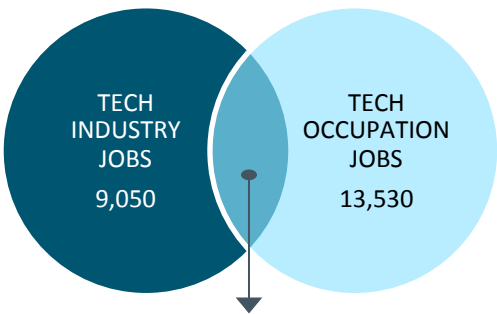
### POSTINGS FOR TECH OCCUPATIONS JOB OPENINGS (NET)



Source: Burning Glass Technologies Labor Insights

### TECH INDUSTRY WAGES





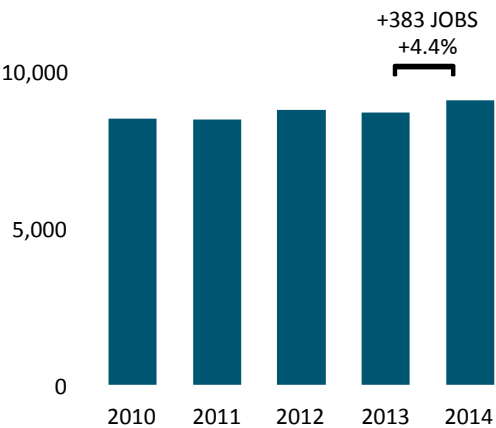
The tech industry employs many technical workers, as well as non-technical workers. Tech occupations can be found in every industry sector across the Canadian economy.

TECH INDUSTRY JOBS	9,050
# OF TECH ENTERPRISES WITH EMPLOYEES	452
# OF SOLE PROPRIETOR TECH ENTERPRISES	549
AVERAGE ANNUAL WAGE IN TECH INDUSTRY	\$66,000
% OF PRIVATE SECTOR WORKERS EMPLOYED BY TECH INDUSTRY FIRMS	2.1%
% OF TECH INDUSTRY FIRMS THAT ARE SMALL BUSINESSES (<100 EMPLOYEES)	96.5%

Sources: Statistics Canada | EMSI

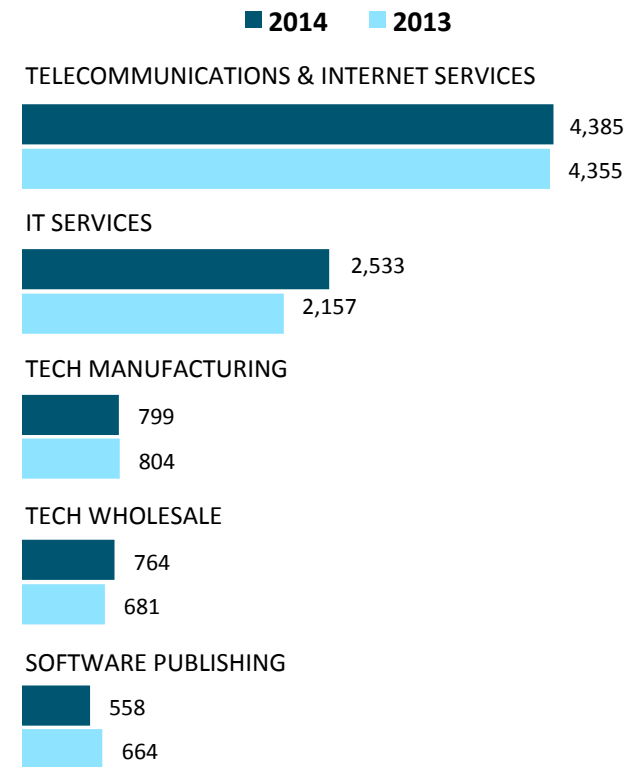
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TECH INDUSTRY EMPLOYMENT TRENDS



THE TECH INDUSTRY ACCOUNTS FOR 4.2% OF NOVA SCOTIA'S ECONOMY

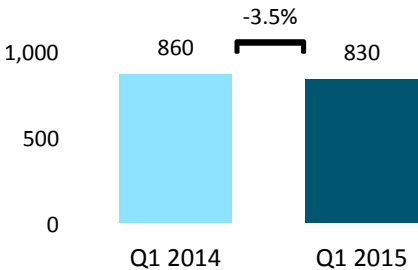
LEADING TECH INDUSTRY SECTORS (BY EMPLOYMENT)



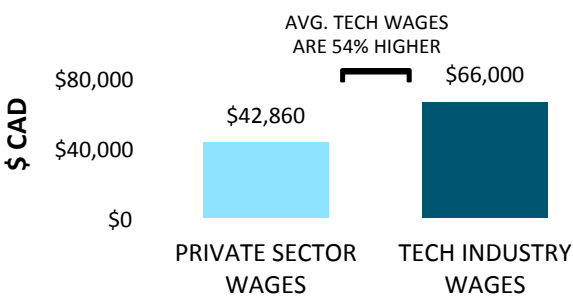
LEADING OCCUPATIONAL JOB CATEGORIES

	2014	YoY % Change
User support technicians	2,300	3.0%
Information systems analysts and consultants	2,219	35.0%
Programmers and media developers	2,187	-0.2%
Computer network technicians	1,651	38.6%
Computer and information systems managers	1,200	9.7%

POSTINGS FOR TECH OCCUPATIONS JOB OPENINGS (NET)



TECH INDUSTRY WAGES

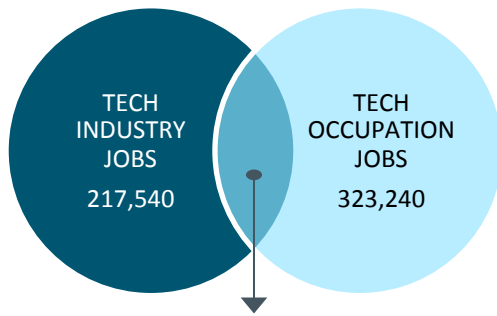


Source: Burning Glass Technologies Labor Insights



# ONTARIO

## STATE OF TECHNOLOGY IN ONTARIO



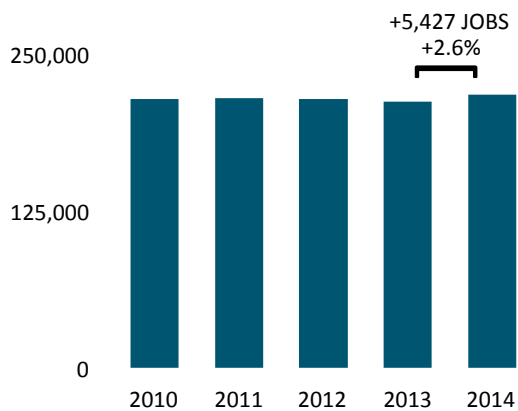
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TECH INDUSTRY JOBS	217,540
# OF TECH ENTERPRISES WITH EMPLOYEES	20,169
# OF SOLE PROPRIETOR TECH ENTERPRISES	26,505
AVERAGE ANNUAL WAGE IN TECH INDUSTRY	\$72,750
% OF PRIVATE SECTOR WORKERS EMPLOYED BY TECH INDUSTRY FIRMS	3.6%
% OF TECH INDUSTRY FIRMS THAT ARE SMALL BUSINESSES (<100 EMPLOYEES)	98.3%

Sources: Statistics Canada | EMSI

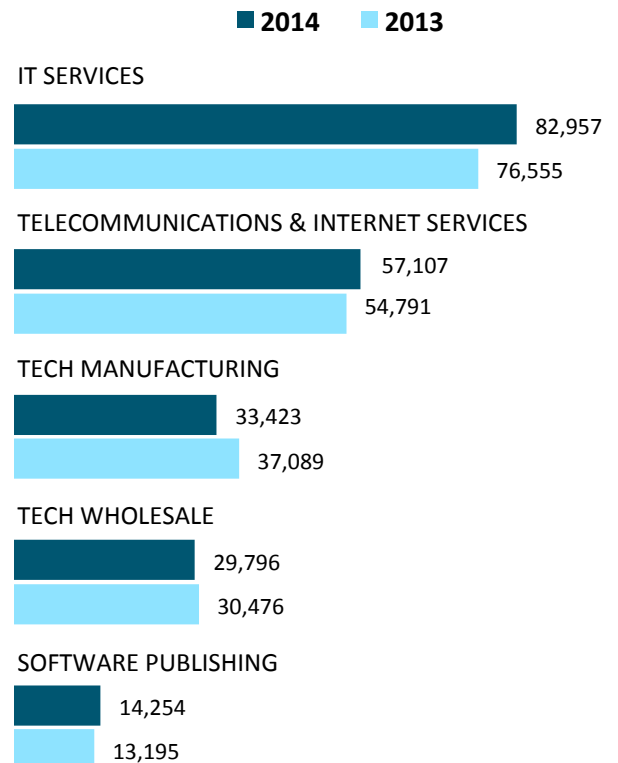
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### TECH INDUSTRY EMPLOYMENT TRENDS



THE TECH INDUSTRY ACCOUNTS FOR 5.2% OF ONTARIO'S ECONOMY

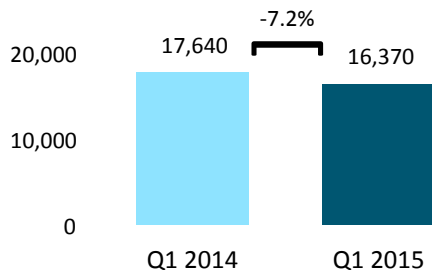
### LEADING TECH INDUSTRY SECTORS (BY EMPLOYMENT)



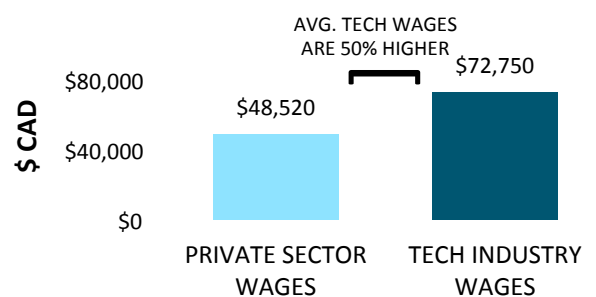
### LEADING OCCUPATIONAL JOB CATEGORIES

	2014	YoY % Change
Information systems analysts and consultants	59,494	7.3%
Programmers and media developers	54,188	7.6%
User support technicians	35,485	16.2%
Computer and information systems managers	30,990	0.5%
Computer network technicians	27,434	3.1%

### POSTINGS FOR TECH OCCUPATIONS JOB OPENINGS (NET)



### TECH INDUSTRY WAGES

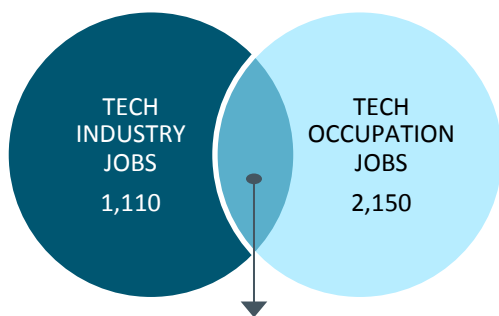


Source: Burning Glass Technologies Labor Insights



# PRINCE EDWARD ISLAND

## STATE OF TECHNOLOGY IN PRINCE EDWARD ISLAND



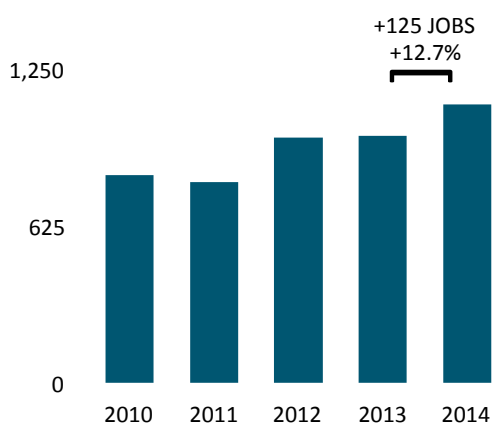
The tech industry employs many technical workers, as well as non-technical workers. Tech occupations can be found in every industry sector across the Canadian economy.

TECH INDUSTRY JOBS	1,110
# OF TECH ENTERPRISES WITH EMPLOYEES	60
# OF SOLE PROPRIETOR TECH ENTERPRISES	82
AVERAGE ANNUAL WAGE IN TECH INDUSTRY	\$53,440
% OF PRIVATE SECTOR WORKERS EMPLOYED BY TECH INDUSTRY FIRMS	1.7%
% OF TECH INDUSTRY FIRMS THAT ARE SMALL BUSINESSES (<100 EMPLOYEES)	95.0%

Sources: Statistics Canada | EMSI

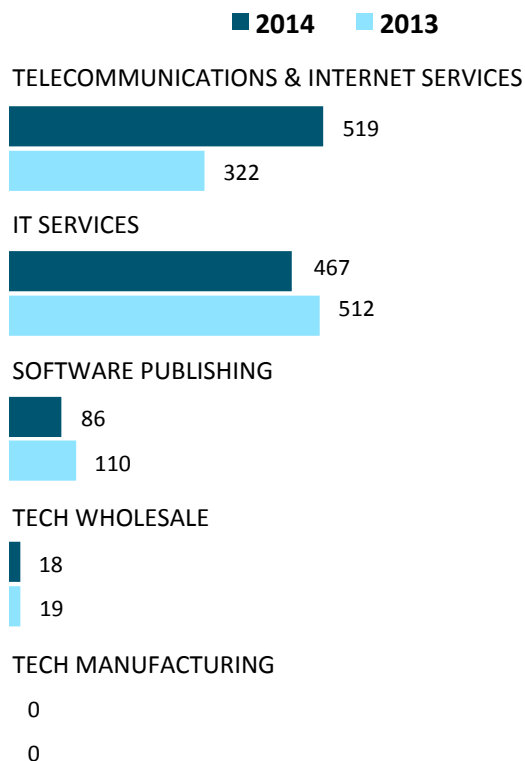
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### TECH INDUSTRY EMPLOYMENT TRENDS



THE TECH INDUSTRY ACCOUNTS FOR 3.6% OF PRINCE EDWARD ISLAND'S ECONOMY

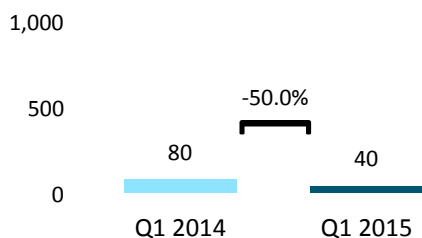
### LEADING TECH INDUSTRY SECTORS (BY EMPLOYMENT)



### LEADING OCCUPATIONAL JOB CATEGORIES

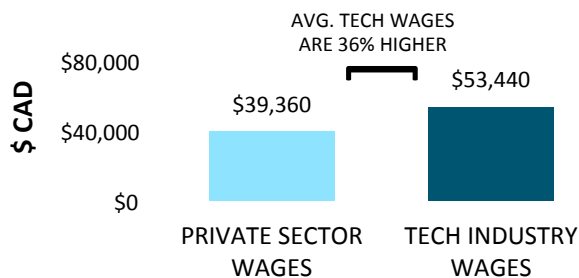
	2014	YoY % Change
User support technicians	523	0.2%
Programmers and media developers	401	0.0%
Information systems analysts and consultants	328	-21.5%
Computer network technicians	295	-2.3%
Telecommunications installation and repair workers	106	34.2%

### POSTINGS FOR TECH OCCUPATIONS JOB OPENINGS (NET)



Source: Burning Glass Technologies Labor Insights

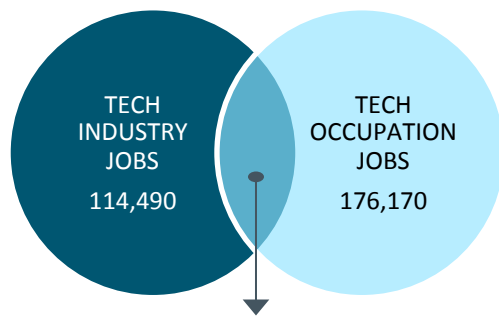
### TECH INDUSTRY WAGES





# QUEBEC

## STATE OF TECHNOLOGY IN QUEBEC



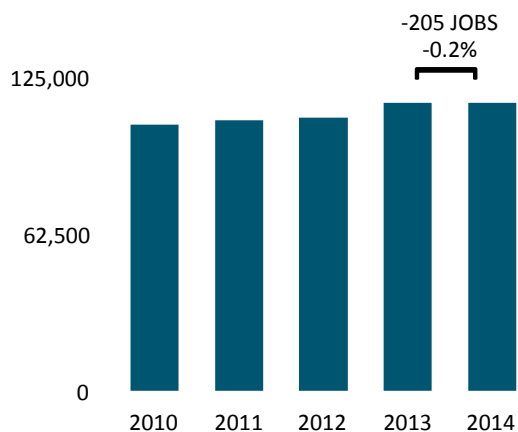
The tech industry employs many technical workers, as well as non-technical workers. Tech occupations can be found in every industry sector across the Canadian economy.

TECH INDUSTRY JOBS	114,490
# OF TECH ENTERPRISES WITH EMPLOYEES	7,500
# OF SOLE PROPRIETOR TECH ENTERPRISES	9,021
AVERAGE ANNUAL WAGE IN TECH INDUSTRY	\$68,680
% OF PRIVATE SECTOR WORKERS EMPLOYED BY TECH INDUSTRY FIRMS	3.2%
% OF TECH INDUSTRY FIRMS THAT ARE SMALL BUSINESSES (<100 EMPLOYEES)	97.6%

Sources: Statistics Canada | EMSI

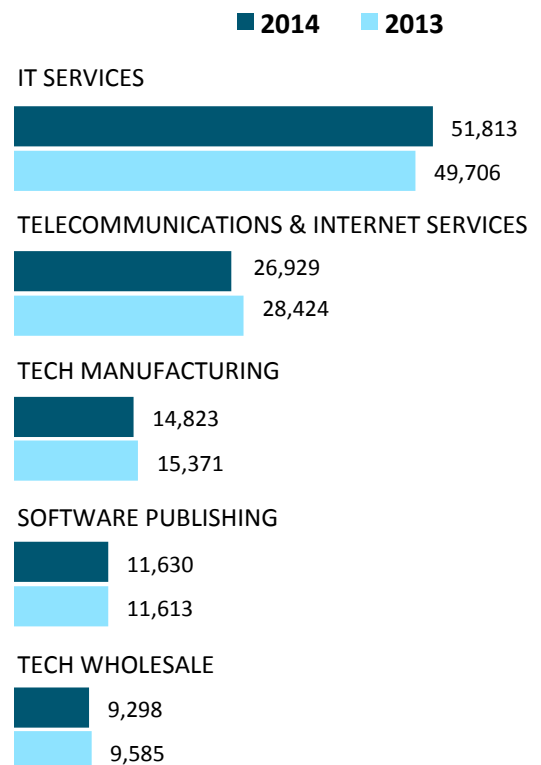
Data covers the 2014 time period, except where specified as other | Employer firm level data

### TECH INDUSTRY EMPLOYMENT TRENDS



THE TECH INDUSTRY ACCOUNTS FOR 5.0% OF QUEBEC'S ECONOMY

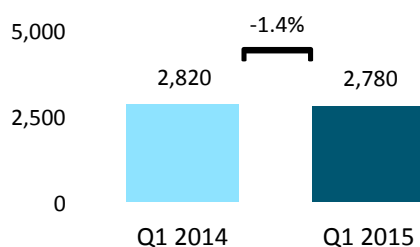
### LEADING TECH INDUSTRY SECTORS (BY EMPLOYMENT)



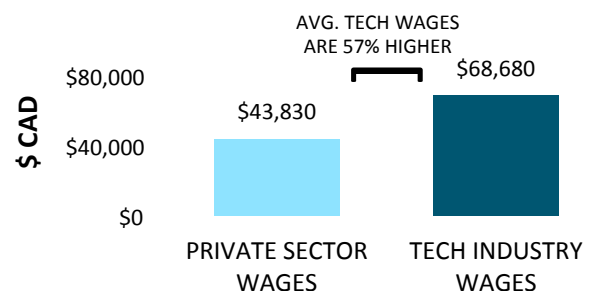
### LEADING OCCUPATIONAL JOB CATEGORIES

	2014	YoY % Change
Information systems analysts and consultants	40,596	-1.9%
Programmers and media developers	30,960	9.3%
User support technicians	20,038	13.5%
Computer network technicians	17,018	-5.7%
Computer and information systems managers	10,729	-13.3%

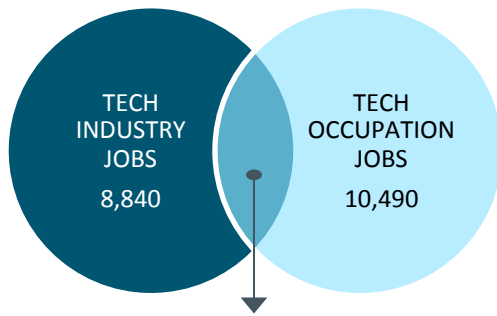
### POSTINGS FOR TECH OCCUPATIONS JOB OPENINGS (NET)



### TECH INDUSTRY WAGES



Source: Burning Glass Technologies Labor Insights



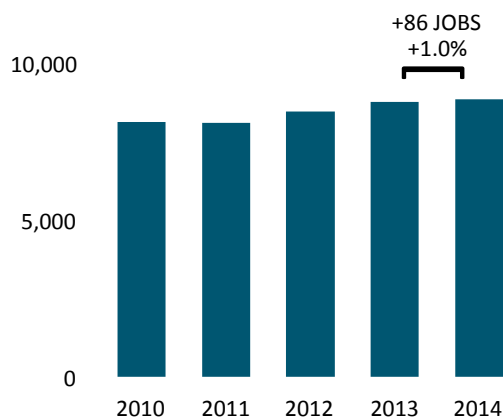
The tech industry employs many technical workers, as well as non-technical workers. Tech occupations can be found in every industry sector across the Canadian economy.

Sources: Statistics Canada | EMSI

TECH INDUSTRY JOBS	8,840
# OF TECH ENTERPRISES WITH EMPLOYEES	393
# OF SOLE PROPRIETOR TECH ENTERPRISES	545
AVERAGE ANNUAL WAGE IN TECH INDUSTRY	\$68,810
% OF PRIVATE SECTOR WORKERS EMPLOYED BY TECH INDUSTRY FIRMS	1.8%
% OF TECH INDUSTRY FIRMS THAT ARE SMALL BUSINESSES (<100 EMPLOYEES)	96.9%

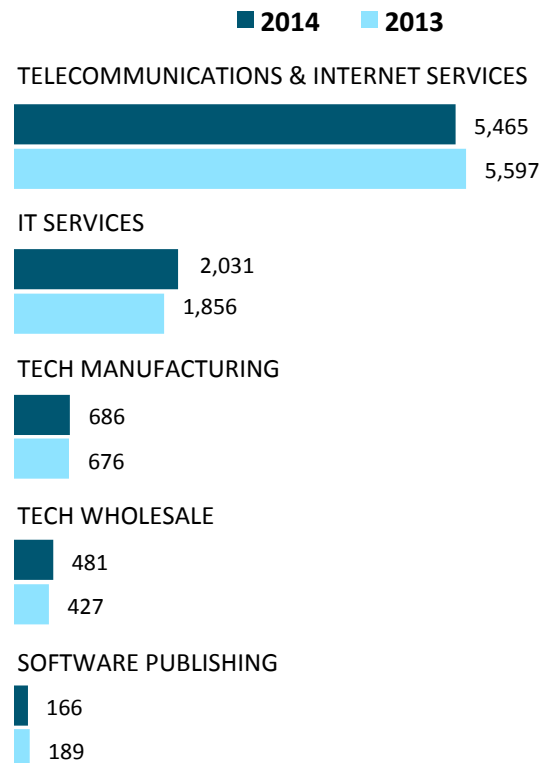
Data covers the 2014 time period, except where specified as other | Employer firm level data

### TECH INDUSTRY EMPLOYMENT TRENDS



THE TECH INDUSTRY ACCOUNTS FOR 2.1% OF SASKATCHEWAN'S ECONOMY

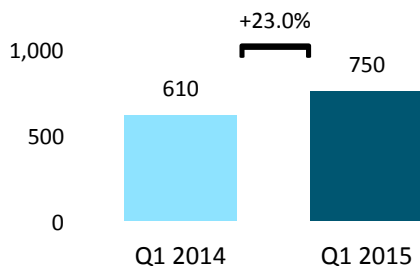
### LEADING TECH INDUSTRY SECTORS (BY EMPLOYMENT)



### LEADING OCCUPATIONAL JOB CATEGORIES

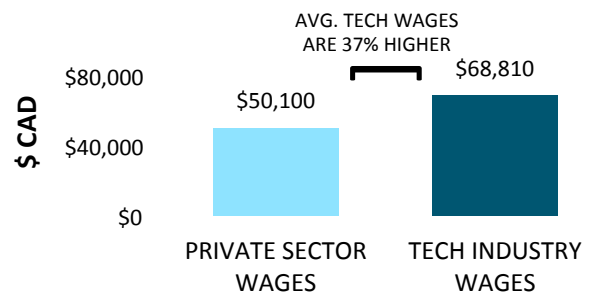
	2014	YoY % Change
Programmers and media developers	1,911	4.2%
Information systems analysts and consultants	1,697	-17.2%
User support technicians	1,497	6.0%
Computer network technicians	1,493	15.4%
Computer and information systems managers	852	-12.3%

### POSTINGS FOR TECH OCCUPATIONS JOB OPENINGS (NET)



Source: Burning Glass Technologies Labor Insights

### TECH INDUSTRY WAGES



## APPENDIX I

CANADIAN TECH OCCUPATION SUMMARY		2013			2014			% Change
NOC-S	Occupation	Workers Employed by Firms	Self-Employed	Total	Workers Employed by Firms	Self-Employed	Total	Total 2013 vs. Total 2014
A122	Computer and information systems managers	60,083	1,779	61,862	59,320	1,661	60,981	-1.4%
C047	Computer engineers (except software engineers)	18,769	1,196	19,965	21,774	858	22,632	13.4%
C071	Information systems analysts and consultants	131,306	37,994	169,300	132,467	40,727	173,194	2.3%
C072	Database analysts and data administrators	25,830	1,402	27,232	28,651	1,552	30,203	10.9%
C073	Software engineers and designers	43,464	4,401	47,865	46,124	4,570	50,694	5.9%
C074	Computer programmers and interactive media developers	111,826	22,704	134,530	122,105	21,803	143,908	7.0%
C075	Web designers and developers	21,794	11,405	33,199	19,446	13,102	32,548	-2.0%
C181	Computer network technicians	65,152	1,388	66,540	66,666	738	67,404	1.3%
C182	User support technicians	75,586	550	76,136	84,415	293	84,708	11.3%
C183	Systems testing technicians	11,775	155	11,930	14,094	82	14,176	18.8%
H216	Telecommunications installation and repair workers	27,498	2,207	29,705	23,613	2,703	26,316	-11.4%
TOTAL		593,083	85,181	678,264	618,675	88,089	706,764	4.2%

Sources: Statistics Canada | EMSI

CANADIAN TECH OCCUPATION SUMMARY		2013			2014			% Change
Province / Territory		Workers Employed by Firms	Self-Employed	Total	Workers Employed by Firms	Self-Employed	Total	Total 2013 vs. Total 2014
Alberta		56,081	9,335	65,416	58,823	9,541	68,364	4.5%
British Columbia		67,195	12,120	79,315	68,801	10,600	79,401	0.1%
Manitoba		14,791	1,320	16,111	16,433	1,200	17,633	9.4%
New Brunswick		9,697	496	10,193	9,602	407	10,009	-1.8%
Newfoundland and Labrador		4,622	40	4,662	4,723	35	4,758	2.1%
Northwest Territories		430	1	431	421	1	422	-2.1%
Nova Scotia		11,064	797	11,861	12,476	1,051	13,527	14.0%
Nunavut		80	0	80	83	0	83	3.8%
Ontario		259,258	40,322	299,580	277,201	46,039	323,240	7.9%
Prince Edward Island		2,084	219	2,303	1,937	211	2,148	-6.7%
Quebec		158,068	19,522	177,590	158,258	17,908	176,166	-0.8%
Saskatchewan		9,232	958	10,190	9,439	1,046	10,485	2.9%
Yukon		481	48	529	486	43	529	0.0%
TOTAL		593,083	85,178	678,261	618,683	88,082	706,765	4.2%

Sources: Statistics Canada | EMSI

Note: totals may differ slightly due to rounding

## APPENDIX II

CANADIAN TECH INDUSTRY SUMMARY		2013			2014			% Change
NAICS		Firms with Employees	Sole Proprietorships	Total	Firms with Employees	Sole Proprietorships	Total	Total 2013 vs. Total 2014
<b>TECH MANUFACTURING</b>		<b>64,503</b>	<b>1,555</b>	<b>66,058</b>	<b>60,005</b>	<b>1,739</b>	<b>61,744</b>	<b>-6.5%</b>
3341	Computer and peripheral equipment manufacturing	5,692	280	5,972	5,535	313	5,848	-2.1%
3342	Communications equipment manufacturing	19,833	327	20,160	16,698	365	17,063	-15.4%
3343	Audio and video equipment manufacturing	1,210	171	1,381	1,247	192	1,439	4.2%
3344	Semiconductor and other electronic components	13,762	239	14,001	13,074	267	13,341	-4.7%
3345	Navigational, measuring, medical and control instruments	22,180	432	22,612	21,751	484	22,235	-1.7%
3346	Manufacturing and reproducing magnetic and optical media	1,826	106	1,932	1,700	118	1,818	-5.9%
<b>SOFTWARE</b>		<b>37,344</b>	<b>302</b>	<b>37,646</b>	<b>37,488</b>	<b>103</b>	<b>37,591</b>	<b>-0.1%</b>
5112	Software publishers	37,344	302	37,646	37,488	103	37,591	-0.1%
<b>TELECOMMUNICATIONS &amp; INTERNET SERVICES</b>		<b>129,563</b>	<b>2,577</b>	<b>132,140</b>	<b>128,608</b>	<b>1,794</b>	<b>130,402</b>	<b>-1.3%</b>
5171	Wired telecommunications carriers	71,006	819	71,825	70,808	661	71,469	-0.5%
5172	Wireless telecommunications carriers (except satellite)	28,725	313	29,038	28,226	256	28,482	-1.9%
5174	Satellite telecommunications	1,192	140	1,332	1,154	113	1,267	-4.9%
5179	Other telecommunications	10,415	737	11,152	9,134	592	9,726	-12.8%
5182	Data processing, hosting, and related services	18,225	568	18,793	19,286	172	19,458	3.5%
<b>TECH WHOLESALE</b>		<b>50,712</b>	<b>3,409</b>	<b>54,121</b>	<b>50,122</b>	<b>3,009</b>	<b>53,131</b>	<b>-1.8%</b>
4173	Computer and communications equipment wholesalers	50,712	3,409	54,121	50,122	3,009	53,131	-1.8%
<b>IT SERVICES</b>		<b>168,583</b>	<b>84,452</b>	<b>253,035</b>	<b>180,782</b>	<b>87,157</b>	<b>267,939</b>	<b>5.9%</b>
5415	Computer systems design and related services	168,583	84,452	253,035	180,782	87,157	267,939	5.9%
<b>TOTAL</b>		<b>450,705</b>	<b>92,295</b>	<b>543,000</b>	<b>457,005</b>	<b>93,802</b>	<b>550,807</b>	<b>1.4%</b>

Sources: Statistics Canada | EMSI

CANADIAN TECH OCCUPATION SUMMARY		2013			2014			% Change
Province / Territory		Firms with Employees	Sole Proprietorships	Total	Firms with Employees	Sole Proprietorships	Total	Total 2013 vs. Total 2014
Alberta		36,936	9,777	46,713	36,802	10,474	47,276	1.2%
British Columbia		47,521	12,929	60,450	48,206	11,172	59,378	-1.8%
Manitoba		10,422	1,413	11,835	9,825	1,379	11,204	-5.3%
New Brunswick		6,599	497	7,096	6,291	512	6,803	-4.1%
Newfoundland and Labrador		3,398	239	3,637	4,113	202	4,315	18.6%
Northwest Territories		249	22	271	322	21	343	26.6%
Nova Scotia		8,667	898	9,565	9,050	1,103	10,153	6.1%
Nunavut		48	<10	48	61	<10	61	27.1%
Ontario		212,109	45,786	257,895	217,536	49,794	267,330	3.7%
Prince Edward Island		983	242	1,225	1,108	237	1,345	9.8%
Quebec		114,699	19,369	134,068	114,494	17,611	132,105	-1.5%
Saskatchewan		8,754	1,054	9,808	8,840	1,225	10,065	2.6%
Yukon		321	69	390	356	70	426	9.2%
<b>TOTAL</b>		<b>450,706</b>	<b>92,295</b>	<b>543,001</b>	<b>457,004</b>	<b>93,800</b>	<b>550,804</b>	<b>1.4%</b>

Sources: Statistics Canada | EMSI

Note: totals may differ slightly due to rounding

# APPENDIX III

2014 Data	Overall	Tech Mfg.	Software Publishing	Telecom & Internet Services	Tech Wholesale	IT Services
Sole Proprietorships / Self-employed	50,708	1,221	1,461	3,627	1,470	42,929
Micro Tech establishments (1-9 employees)	31,963	959	1,060	1,883	1,745	26,316
Small Tech establishments (10-99 employees)	5,753	708	555	930	949	2,611
Medium Tech establishments (100-499 employees)	656	50	61	149	92	238
Large Tech establishments (500+ employees)	86	16	7	27	6	30
NUMBER OF ESTABLISHMENTS WITH EMPLOYEES	38,458	1,733	1,683	2,989	2,792	29,195
TOTAL: EMPLOYER FIRMS + SOLE PROPRIETORSHIPS	89,166	2,954	3,144	6,616	4,262	72,124

Sources: Statistics Canada

## METHODOLOGY

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Statistics on jobs, wages, payroll, and establishments were compiled from Canadian government statistics, referred to as [Statistics Canada](#), by the research consultancy EMSI.

Most data cited in this report is at the employer level. This is a standard classification method used to define businesses that have employees and thus payroll. This designation is used in describing the Canadian tech industry, as well as tech occupation employment. Non-employer entities – those without payroll, are classified as self-employed or sole proprietorships. Because the data at an employer firm level is often more detailed that is the reason why it serves as the basis for reporting. The Appendix tables depict the breakout between employer firms and the self-employed.

When comparing totals, slight differences may occur due to rounding.

Variance in the data may also stem from the timing of when the data was extracted. The primary time period covered in this report is 2014, with comparisons to 2013. If comparing the CompTIA *Cyberprovinces* data to outside sources and differences arise, it could be a function of the timing of when data was extracted. Differences may also exist due to different interpretations of information technology. Some groups may use a more expansive definition, while others may use a narrower definition.

The provinces of Northwest Territories, Nunavut, and the Yukon were excluded from the detailed summary pages due to their extremely small sizes. Combined, these provinces account for only 0.2 percent of Canadian tech industry jobs. Data for these provinces can be found in the Appendix tables.

CompTIA is responsible for all content and analysis. Any questions regarding the report should be directed to CompTIA Research and Market Intelligence staff at [research@comptia.org](mailto:research@comptia.org). The CompTIA *Cyberprovinces* and *Cyberstates* reports can be accessed online at [CompTIA.org](http://CompTIA.org).

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