

April 2011

QUESTION: What is the number of newcomers arriving in Toronto¹ CMA² and planning to find work in the information technology (IT) sector?

ANSWER:

Table 1 below shows the number of immigrants in Toronto CMA by their landing year that have indicated their *intended occupation*³ in information technology (IT) sector.

Table 1: Number of landed immigrants with intended occupation in Information Technology (IT) sector, Toronto CMA

<i>Intended Occupation (NOC4 National Occupational Classification)</i>	Landing Year		
	1995-1999	2000-2004	2005-2009
213 Information Systems and Data Processing Managers	25	151	923
1421 Computer Operators	508	295	36
2147 Computer Engineers	1,124	4,042	1,355
2162 Computer Systems Analysts	5,687	8,890	1,283
2163 Computer Programmers	10,283	18,512	3,680
2171 Information Systems Analysts and Consultants	(n/a)	306	2,006
2172 Database Analysts and Data Administrators	(n/a)	56	475
2173 Software Engineers	(n/a)	321	2,304
2174 Computer Programmers and Interactive Media Developers	(n/a)	460	2,718
2175 Web Designers and Developers	(n/a)	45	341
2281 Computer and Network Operators and Web Technicians	(n/a)	77	941
2282 User Support Technicians	(n/a)	16	260
2283 Systems Testing Technicians	(n/a)	(n/a)	56
9990 Software pilot (CIC) ⁴	(n/a)	22	31
Total (IT sector)	17,627	33,193	16,409

(n/a) Number has been suppressed because it is less than 10 cases.

4: For more details about Citizenship and Immigration Canada's Software pilot program, check, <http://www.cic.gc.ca/english/resources/manuals/bulletins/2010/ob225.asp>

Table 2 below shows the same data from Table 1 in percentage distribution. Looking at the changes in intended occupations across different landing years, this table shows that *computer programmers* (58.3%) and *computer systems analysts* (32.3%) were the two most popular

¹ City indicated refers to 'intended city of destination' for immigrants upon landing and applying for permanent residence status. This may change over period of time after immigrants initially settle in their new city.

² CMA stands for Census Metropolitan Area and is a geographical area mainly used by Statistics Canada. The Toronto CMA includes the City of Toronto, York Region, Peel Region and parts of other regions. For more information, see: <http://www12.statcan.ca/english/census06/reference/dictionary/geo009.cfm>.

³ Occupation indicated refers to 'intended occupation' for immigrants upon landing and applying for permanent residence status. Thus, it does not indicate that immigrants in fact have jobs in these occupations after they settle.

4: For more details about Citizenship and Immigration Canada's Software pilot program, check, <http://www.cic.gc.ca/english/resources/manuals/bulletins/2010/ob225.asp>

intended occupations among those landing between 1995 to 1999. However, more recent immigrants have indicated greater diversity in occupations in Information Technology sector. Among recent immigrants 2005-2009, while *computer programmer* is still the most popular intended occupation (22.4%), *computer programmers and interactive media developers* (16.6%) and *software engineers* (14.0%) and *information systems analysts and consultants* (12.2%) were also often reported among the IT sector occupations.

Table 2: Percentage of landed immigrants with intended occupation in Information Technology (IT) sector, Toronto CMA

Intended Occupation (NOC4 National Occupational Classification)	Landing Year		
	1995-1999	2000-2004	2005-2009
213 Information Systems and Data Processing Managers	0.1	0.5	5.6
1421 Computer Operators	2.9	0.9	0.2
2147 Computer Engineers	6.4	12.2	8.3
2162 Computer Systems Analysts	32.3	26.8	7.8
2163 Computer Programmers	58.3	55.8	22.4
2171 Information Systems Analysts and Consultants	(n/a)	0.9	12.2
2172 Database Analysts and Data Administrators	(n/a)	0.2	2.9
2173 Software Engineers	(n/a)	1.0	14.0
2174 Computer Programmers and Interactive Media Developers	(n/a)	1.4	16.6
2175 Web Designers and Developers	(n/a)	0.1	2.1
2281 Computer and Network Operators and Web Technicians	(n/a)	0.2	5.7
2282 User Support Technicians	(n/a)	0.0	1.6
2283 Systems Testing Technicians	(n/a)	(n/a)	0.3
9990 Software pilot (CIC) ⁴	(n/a)	0.1	0.2
Total (IT sector)	100.0	100.0	100.0

(n/a) Number has been suppressed because it is less than 10 cases.

4: For more details about Citizenship and Immigration Canada's Software pilot program, check, <http://www.cic.gc.ca/english/resources/manuals/bulletins/2010/ob225.asp>

DATA SOURCE: Canada. Citizenship and Immigration Canada. Permanent Resident Data System (PRDS), 1995-2009. These data are collected on the application for permanent residency and at arrival.

This rapid data request is from Community Outreach & Immigrant Services program at the Humber Institute of Technology and Advanced Learning.

While the research and analysis are based on data from Citizenship and Immigration Canada, the opinions expressed do not represent the views of Citizenship and Immigration Canada.

The [Toronto Immigrant Employment Data Initiative \(TIEDI\)](http://www.yorku.ca/tiedi/) seeks to assist organizations whose mandate includes the better integration of immigrants into Toronto's labour force. Such partner organizations include immigrant service agencies and advocacy groups, labour organizations, regulatory bodies, professional associations, training organizations, and credential assessment agencies. For further information, you can visit our website at, <http://www.yorku.ca/tiedi/> or contact the TIEDI Principal Investigator, Dr Philip Kelly (pfkelly@yorku.ca), or the TIEDI Project Coordinator, Stella Park (pstella@yorku.ca).