

A IT professionals

ICT professionals are defined as persons employed in the national economy, whose principal activity comes within the following two main occupational groups expressed in terms of the current International Standard Classification of Occupations (CZ-ISCO-88 in the Czech Republic):

CZ-ISCO 213 – Computing professionals

- 2131 Computer systems designers and analysts
- 2132 Computer programmers
- 2139 Computing professionals not elsewhere classified

CZ-ISCO 312 – Computer associate professionals

- 3121 Computer assistants
- 3122 Computer equipment operators
- 3123 Industrial robot controllers
- 3129 Computer associate professionals not elsewhere classified

Computing professionals conduct research, plan, develop and improve computer based information systems, software and related concepts, develop principles and operational methods as well as maintain data dictionary and management systems of databases to ensure integrity and security of data.

Computer associate professionals provide assistance to users of computers and standard software packages, control and operate computers and peripheral equipment and carry out limited programming tasks connected with the installation and maintenance of computer hardware and software.

The **Czech Labour Force Survey** is used as a data source for ICT professionals in the Czech Republic (since 1993). It provides population estimates of ICT professionals for the main socio-demographic characteristics, such as sex, age, education and region of residence. ICT professionals can be further broken down by economic activity according to the industry classification (CZ- NACE) and by occupation according to the CZ-ISCO 88 classification.

Presented data are always averages for each year. For whole chapter holds that the annual averages lower than 3 000 persons must be considered as a data with very low reliability

Structural statistic on earnings of employees is used as data source for **average monthly gross wage**. This survey is organized by the Czech Statistical Office and the Ministry of Labour and Social Affairs.

Average monthly gross wage in the Czech Republic presented in this publication is different from average monthly gross wage in other documents. In this publication are presented data about the sample of the survey (not grossed up results) covering about 1,7 million engaged persons.

Additional data and metadata for IT professionals statistics are available on the following dedicated website (temporally only in Czech):

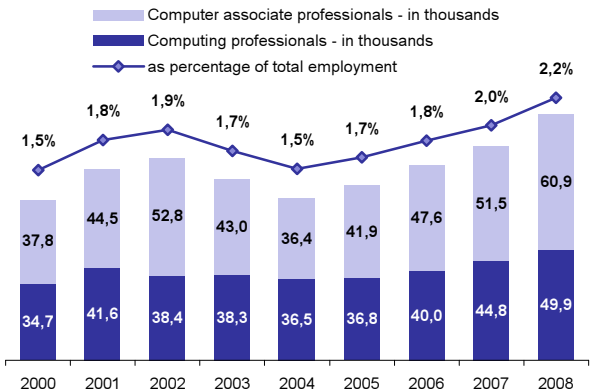
http://www.czso.cz/csu/redakce.nsf/i/lidske_zdroje_v_informacni_spolecnosti_it_odbornici

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Table A1 IT professionals in the CR

	thousands persons		
	2006	2007	2008
Total	87,6	96,3	110,8
Computing professionals	40,0	44,8	49,9
Computer associate professionals	47,6	51,5	60,9
Gender			
Males	74,6	84,1	96,1
Females	13,0	12,2	14,7
Age group			
15-24 years	6,9	9,1	12,2
25-34 years	42,3	42,6	50,6
35-44 years	21,2	23,4	25,6
45-54 years	10,6	15,3	16,8
55+ years	6,5	5,9	5,5
Qualification			
Tertiary	38,8	42,4	45,0
Upper secondary	42,1	45,3	54,8
Other	6,6	8,6	11,0
Field of study			
Basic programmes	6,9	9,3	10,0
Business and administration	4,5	4,8	6,1
Computing	9,7	10,4	12,9
Engineering and engineering trades	39,8	46,0	54,8
Other	26,6	25,8	27,0
CZ-NACE			
Agriculture	0,4	0,7	0,3
Industry	27,3	28,3	35,6
Services	59,9	67,2	74,9

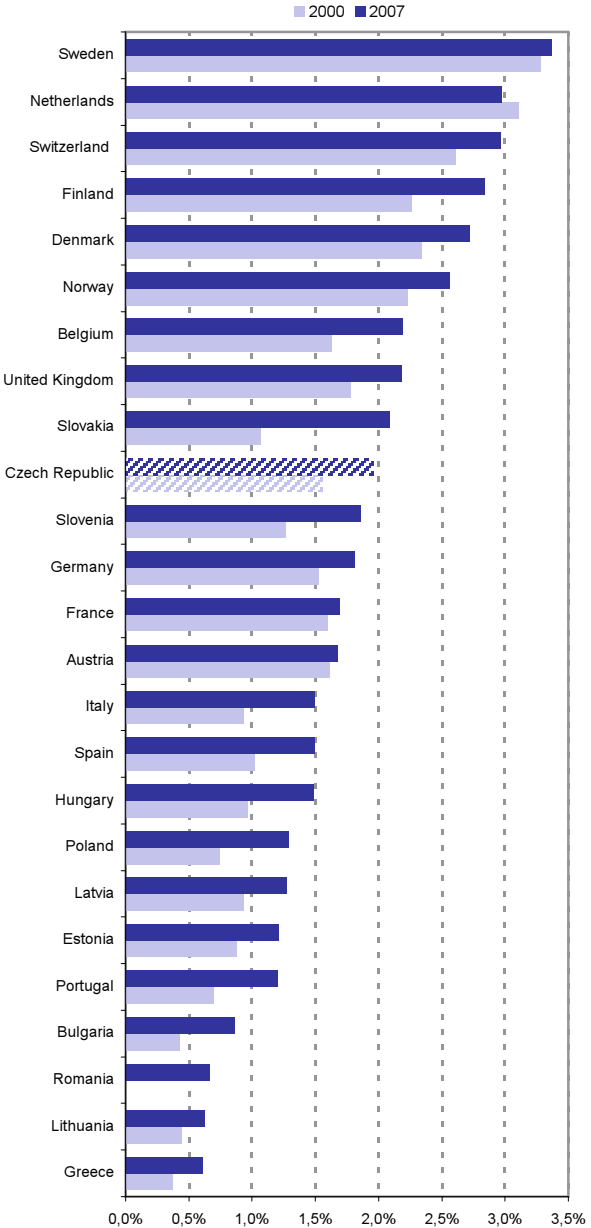
Figure A1 IT professionals



Source: CZSO, Labour force survey

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Figure A2 IT professionals
(as a percentage of total employment)



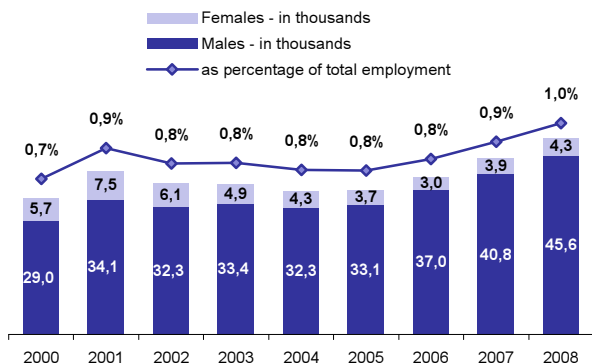
Source: Eurostat, European Labour Force Survey

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Table A2 Computing professionals in the CR

	thousands persons		
	2006	2007	2008
Total	40,0	44,8	49,9
Comp. systems designer and analysts	4,5	6,8	5,4
Comp. programmers	28,0	28,0	33,8
Com. profess. not elsewhere classified	7,4	9,5	10,0
Gender			
Males	37,0	40,8	45,6
Females	3,0	3,9	4,3
Age group			
15-24 years	2,5	2,7	3,8
25-34 years	19,9	19,4	22,5
35-44 years	9,6	12,6	11,7
45-54 years	5,2	7,0	9,3
55+ years	2,8	2,9	2,7
Qualification			
Tertiary	26,0	29,2	30,1
Upper secondary	13,0	15,1	18,4
Other	1,0	0,4	1,4
Field of study			
Basic programmes	2,9	3,1	4,8
Business and administration	0,6	1,0	1,3
Computing	6,6	7,4	9,3
Engineering and engineering trades	18,6	20,7	23,8
Other	11,4	12,5	10,7
CZ-NACE			
Agriculture	0,3	0,5	0,3
Industry	10,6	10,6	12,9
Services	29,1	33,6	36,7

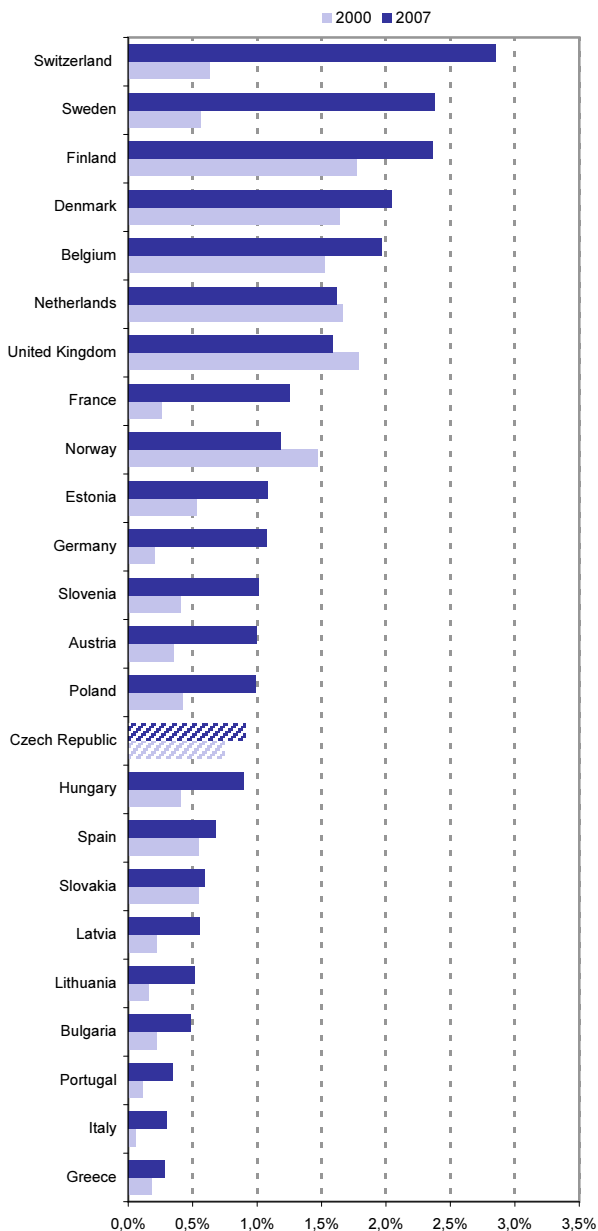
Figure A3 Computing professionals



Source: CZSO, Labour force survey

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**Figure A4 Computing professionals
(as a percentage of total employment)**



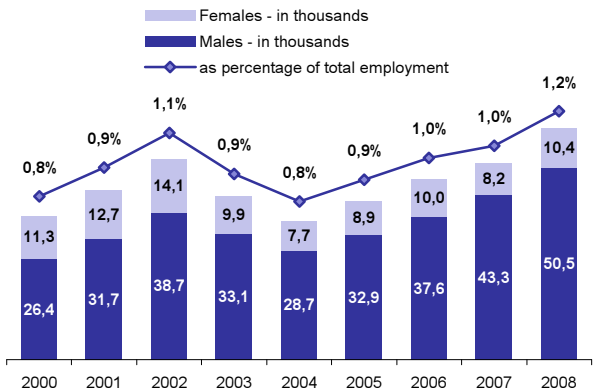
Source: Eurostat, European Labour Force Survey

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Table A3 Computer associate professionals in the CR

	thousands persons		
	2006	2007	2008
Total	47,6	51,5	60,9
Computer assistants	12,4	12,8	13,2
Computer equipment operators	22,0	23,5	24,9
Industrial robot controllers	5,9	7,0	11,1
Other computer associate professionals	5,7	7,2	10,3
Gender			
Males	37,6	43,3	50,5
Females	10,0	8,2	10,4
Age group			
15-24 years	4,4	6,3	8,5
25-34 years	22,4	23,2	28,1
35-44 years	11,6	10,7	14,0
45-54 years	5,4	8,2	7,5
55+ years	3,7	3,0	2,8
Qualification			
Tertiary	12,8	13,1	14,9
Upper secondary	29,2	30,2	36,3
Other	5,6	8,2	9,6
Field of study			
Basic programmes	4,1	6,2	5,2
Business and administration	3,9	3,8	4,8
Computing	3,1	3,0	3,7
Engineering and engineering trades	21,2	25,3	31,0
Other	15,3	13,2	16,2
CZ-NACE			
Agriculture	0,1	0,3	0,0
Industry	16,7	17,7	22,7
Services	30,8	33,6	38,2

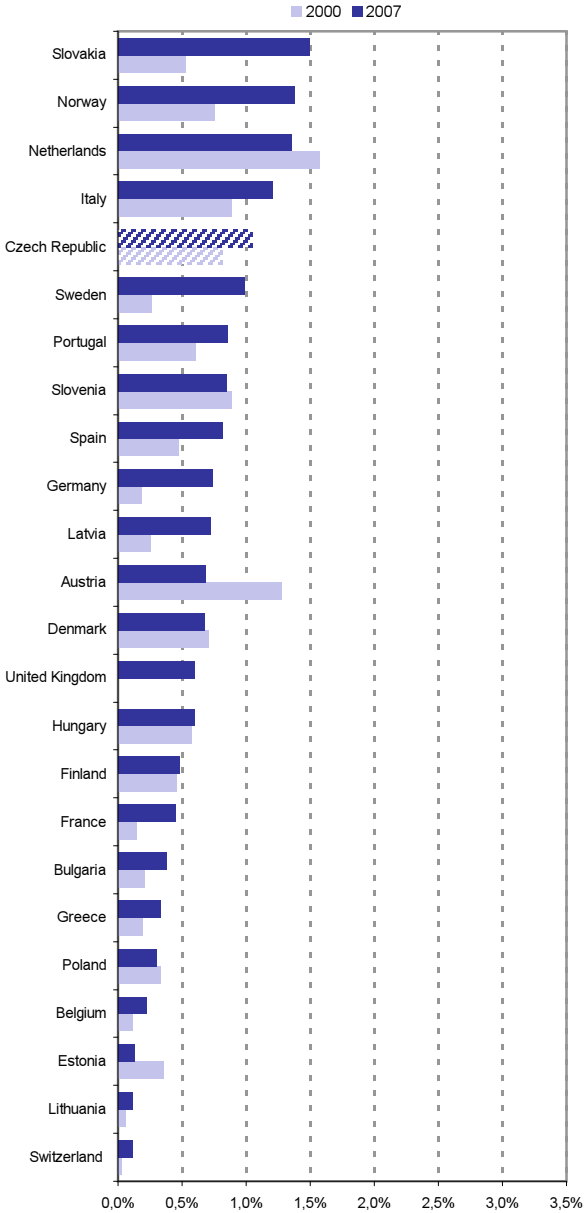
Figure A5 Computer associate professionals



Source: CZSO, Labour force survey

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Figure A6 Computer associate professionals
(as a percentage of total employment)



Source: Eurostat, European Labour Force Survey

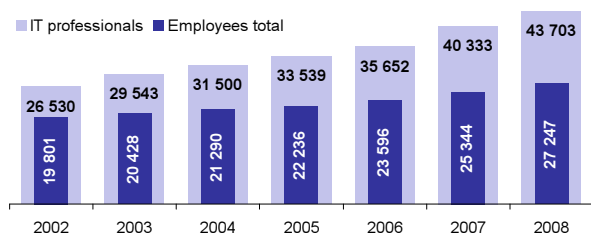
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Table A4 Average monthly gross wage* of IT professionals, 2008

CZK

	IT profess.	Computing profess.	Computer associate profess.
Total	43 703	48 966	36 234
Gender			
Males	45 484	50 223	38 343
Females	35 000	41 811	27 740
Age group			
less than 19 years	18 521		18 597
20-24 years	26 015	29 412	24 472
25-29 years	36 864	40 563	32 575
30-34 years	48 522	53 083	41 196
35-39 years	51 637	56 364	43 300
40-44 years	49 392	53 455	42 334
45-49 years	46 257	50 409	38 740
50 -54 years	43 558	48 365	34 809
55 -59 years	41 185	46 006	33 080
60-64 years	43 018	47 940	33 266
65+ years	39 780	42 563	33 019
Qualification			
Master and doctoral	54 255	54 892	52 329
Higher professional and bachelo	39 037	41 932	34 181
Upper secondary	36 193	41 778	31 268
Other	25 977		25 977
Size class of enterprises			
10-49 employees	36 822	42 417	30 323
50-249 employees	38 013	40 946	33 702
250-999 employees	48 268	52 368	42 485
1 000-4 999 employees	40 888	47 557	32 961
5 000+ employees	44 158	49 633	31 448
Sector of performance			
Business sector	45 246	50 928	37 297
Non-business sector	26 607	28 685	23 143

Figure A7 Average monthly gross wage* (CZK)



* Average monthly gross wage presented in this publication is different from average monthly gross wage in other documents. In this publication are presented data about the sample of the survey (not grossed up results) cover c. 1,7 mil. engaged persons.

Source: Structural statistics on earnings of employees