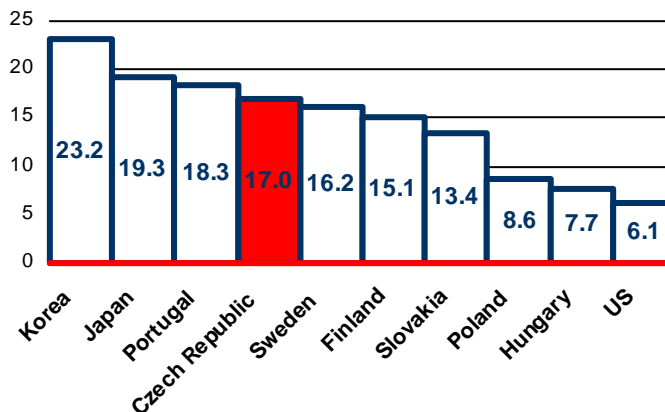


11. Technical Education

For many years the former Czechoslovakia produced the highest percentage of science and technical graduates in the world. This tradition continues in the Czech Republic: in 2008 the proportion of university degrees awarded in science-related fields (engineering, manufacturing, construction) was among the highest in Europe (see below). The government is committed to sustaining this by maintaining or increasing funding in these areas.

Engineering, manufacturing and construction graduates from tertiary education in selected countries

(% of tertiary - type A graduates in 2008)



Source: Education at a Glance 2010, OECD

SECONDARY TECHNICAL SCHOOLS AND VOCATIONAL TRAINING CENTRES

Secondary Technical Schools (Stredni prumyslova skola) and **Integrated Secondary Schools** (Integrovana stredni skola) take students up to a relatively high professional level through a mixture of general education courses, theoretical classes and practical training in particular fields such as general machinery, textile machinery, agricultural machinery, chemical engineering, electrical engineering, etc. Students finish by sitting for the *maturita* (graduation) exam that entitles them to apply for technical colleges and universities.

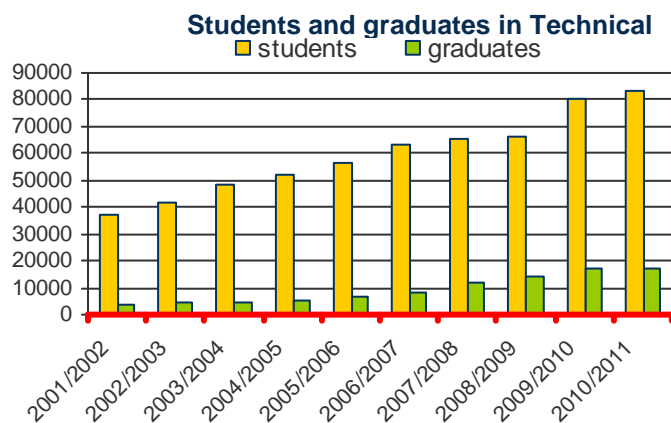
Vocational Training Centres provide more work-based training over three to four years in specialised fields (e.g. high-voltage electricity, textile machinery or automotive electronics). Extensive practical training in companies is a major part of the curriculum. Three-year programs are concluded with an apprenticeship exam. In certain cases the pupils may opt for a higher course of study (4 years instead of 3) which, alongside practical training, also provides extensive general education. In this case students also sit for the *maturita* exam.

HIGHER PROFESSIONAL SCHOOLS (TECHNICKE VYSSI ODBORNE SKOLY)

Equivalent to German *Fachhochschulen*, Higher Professional Schools are usually located on the same campus and share resources with Secondary Technical Schools. They usually provide a three-year technical education after the completion of secondary education. Higher Professional Schools currently do not have the status of universities.

UNIVERSITIES

There are currently more than 83,000 technical university students and students who study technical subjects at other universities. More than 17,000 university graduates in technical and scientific subjects enter the workforce every year.



Source: Institute for Information on Education, 2011; CzechInvest, 2011

Largest Technical Faculties at Czech Universities, 2010/2011

University	City	Students	Graduates	PhD Students
Czech Technical University, CVUT	Prague			
Civil Engineering		6,059	1,563	564
Mechanical Engineering		3,217	685	324
Electrical Engineering		5,052	1,214	394
Faculty of Information technologies		1,265	-	42
Transportation Sciences		1,871	372	174
Nuclear Sciences and Physical Engineering		1,578	248	295
Architecture		1,714	325	193
Biomedical Engineering		1,028	126	62
Other placement		-	-	13
Institute of Chemical Technology, VSCHT	Prague			
Chemical Technology		1,247	270	236
Environmental Technology		565	101	181
Food and Biochemical Technology		1,288	293	288
Chemical Engineering		544	159	168
Charles University	Prague			
Faculty of Mathematics and Physics		3,225	613	711
University of West Bohemia, ZCU	Plzen			
Mechanical Engineering		1,487	216	186
Electrical Engineering		2,109	489	206
Applied Sciences		1,581	293	220
TU Liberec	Liberec			
Mechanical Engineering		1,763	216	207
Mechatronics		834	143	116
Textile Engineering		1,378	326	81
Architecture		317	78	-
UPa Pardubice	Pardubice			
Chemical Technology		2,100	371	238
Electrical Engineering and Informatics		1,067	136	25
Transport		2,105	345	155
VUT Brno	Brno			
Civil Engineering		6,506	1,219	377
Mechanical Engineering		4,325	1,043	456
Electrical Engineering and Communication		3,846	967	416
Information Technology		2,703	573	196
Chemistry		868	259	167
Architecture		671	207	66
VŠB-TU Ostrava	Ostrava			
Civil Engineering		2,423	363	201
Safety Engineering		1,644	394	94
Mechanical Engineering		2,399	534	256
Electrical Engineering and Computer Science		3,464	657	252
Mining and Geology		3,721	937	236
Metallurgy and Materials Engineering		2,303	460	284
Tomas Bata University	Zlín			
Faculty of Technology		2,177	516	152
University of Life Sciences	Prague			
Technical Faculty		1,802	346	114
Skoda Auto University	Mlada Boleslav			
		857	145	-
Total		83,626	17,249	26,042

Source: Institute for Information on Education, 2011

Last update: July 2011

Fact Sheet No.11 – Technical Education