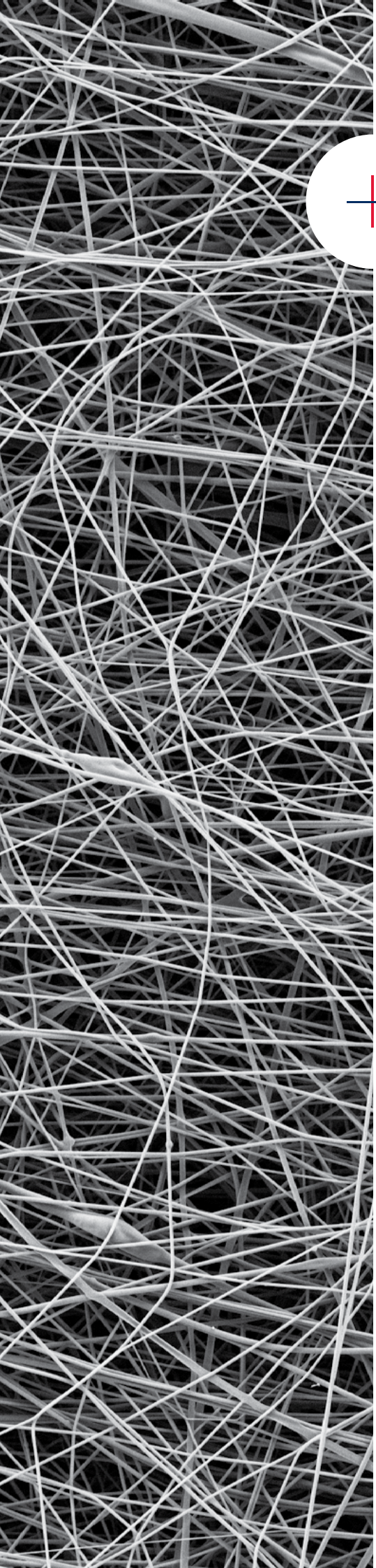
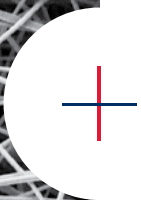


Nanotechnology and Advanced Materials in the Czech Republic



CZECHINVEST
Investment and Business Development Agency



www.czechinvest.org

CzechRepublic
Land of Investment

Investment Success Stories



Toray Textiles Central Europe a.s.

"We have been operating in the Czech Republic since 1997. For the expansion of local production with this new technology, we based our decision on, among other things, the good work ethic and professionalism of the local workers. Favourable conditions, including the helpful approach of Czech authorities, also played a role in the decision."

Akihiro Nikkaku

President of Toray Industries



Thermo Fisher Scientific

"FEI Company chose the Czech Republic primarily due to the country's stable business environment and competent yet affordable workforce. FEI based its business in Brno due to the fact that it is a dynamic and modern city of science and research with a strong industrial tradition and a very accessible location, while also being a significant university centre."

Jiří Očadlík

General Manager, FEI Czech Republic s.r.o.



Fibertex Nonwovens, a.s.

"Apart from identifying the right acquisition target, the company Vigona, to expand our portfolio of activities into new segments, we chose the Czech Republic for several reasons. The most important were the country's highly skilled workforce, good location in terms of logistics and stable political system."

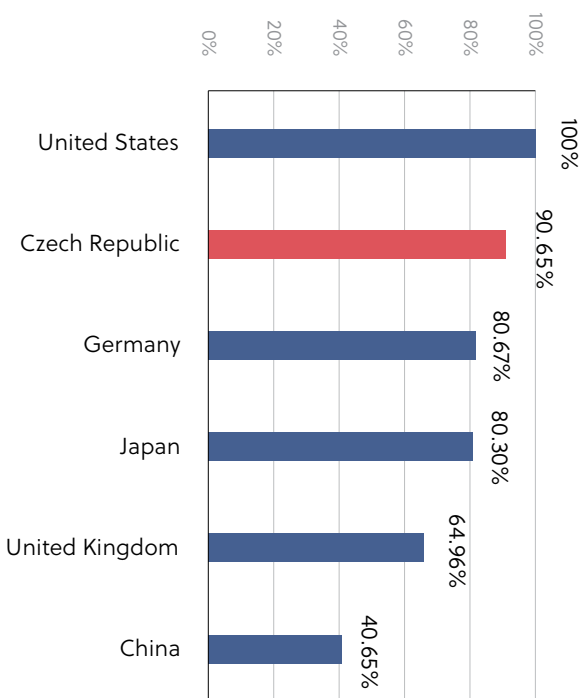
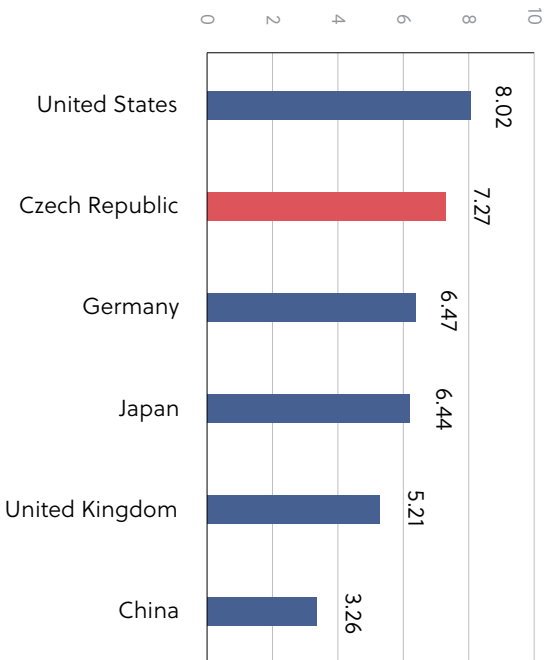
Bjarne Knudsen

CEO, Fibertex Nonwovens, a.s.

Key Partners and Investors



Nanotechnology Industry Specialization



Source: FDI Benchmark, a service from the Financial Times Limited 2018. All Rights Reserved.
Note: Breakdown index based on specialisation in R&D, chemicals, biopharma, semiconductor, electronic components, ICT



1949

Optics & Microscopy

1949

The first electron microscope was introduced into production by Professor Armin Delong. Brno, the second largest city of the Czech Republic, became a centre of electron microscopy today.



2003

Nanofibers

Patented technology for industrial-scale nanofiber equipment developed at Technical University of Liberec and commercialized by



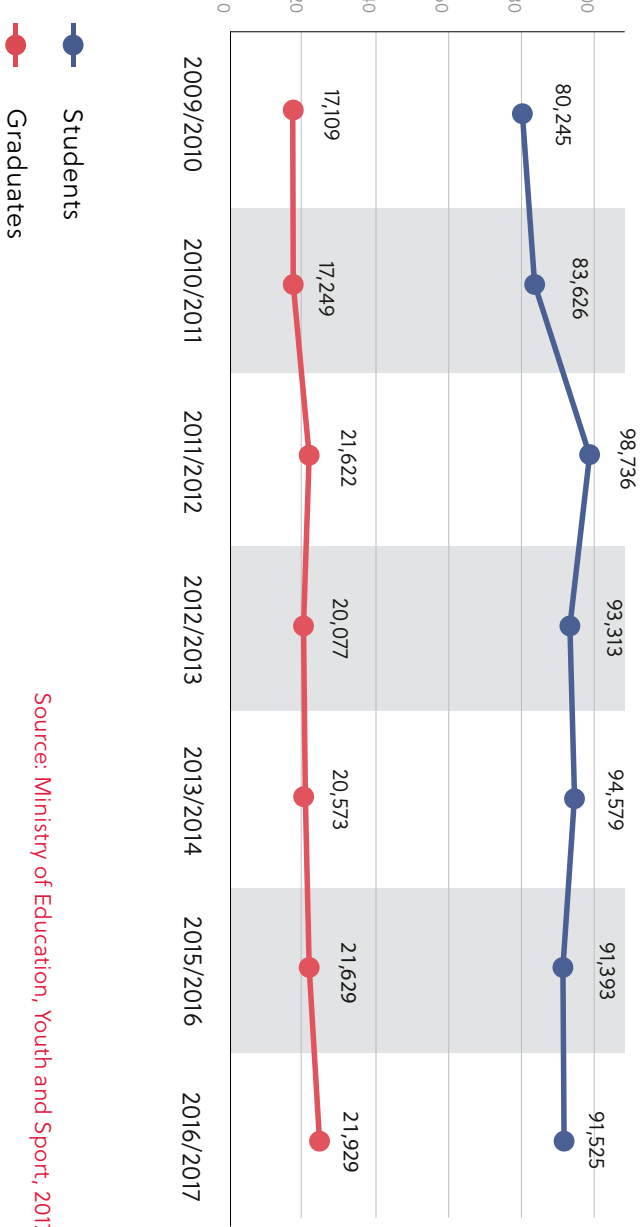
Labour costs

R&D		
Location	Team Leader	Head of R&D
Czech Republic	27,321	84,848
China	32,769	101,806
UK	53,021	105,372
South Korea	56,292	120,218
Japan	64,787	109,020
Germany	83,353	116,178
USA	87,072	138,259
Switzerland	110,053	169,510

All cost values shown in EUR – Euro per annum.

Source: fDi Benchmark, a service from the Financial Times
Limited 2018. All Rights Reserved.

Students and Graduates of Technical Universities



Source: Ministry of Education, Youth and Sport, 2017

2003

Elmarco – a major breakthrough to create a whole nanofiber supply chain and discover new opportunities for the most demanding applications.



Energy & Environment

2017

New technologies based on nanoscale to treat water (**Nano Iron**) and air (**Advanced Materials – JTJ**) or to improve energy savings find their

way to the market. Newly introduced type of batteries (**HE3DA**) is about to cause a revolution in the energy storage and automotive industry.

2017

Research & Development



CEITEC

Multidisciplinary centre facilitating synergetic studies on all available levels of complexity in life sciences and advanced materials and nanotechnology with scientists conducting research in 52 groups and seven programmes. New CEITEC Nano laboratories offer state-of-the-art infrastructure for all commercial and academic partners.



Institute for Nanomaterials, Advanced Technologies and Innovation

Institute of Technical University of Liberec to support competitive engineering, well-known due to their international patent for the industrial production of nanofibers. Industrial research activities in machinery and vehicles, mechatronics, robotics, management and utilisation of artificial intelligence, nanomaterial creation, and electrostatic spinning.



Regional Centre of Advanced Technologies and Materials

Scientific and research centre connected to Palacký University in Olomouc with main objective to produce superlative research and to transfer high-tech products and advanced technologies into medical, industrial and environmental practice. Involved in prestigious international cooperation as Pierre Auger Observatory and CERN-ATLAS.



STAR

Science and technology cluster close to Prague helping to develop innovative businesses and start-up ecosystem. Gathered around the most modern facilities of **BIOCEV** (Centre of Excellence in biomedicine and biotechnology), **ELI Beamlines** (part of the Extreme Light Infrastructure project to create the latest laser equipment), and **HILASE** (key European facility for laser development).

THESE BODIES PROMOTE THE SECTOR AND DEVELOP NEW TECHNOLOGIES TO INTERNATIONALIZE THE CZECH NANOTECHNOLOGY.

nanoprogress
THE NANOTECHNOLOGY CLUSTER



nano asociace
ASOCIACE NANOTECHNOLOGICKÉHO PRŮMYSLU ČR

Nanotechnology & Advanced Materials at Czech Universities



Czech Republic | Students: 8,930 | Graduates: 2,093



Brno University of Technology

Students: 2,237

Graduates: 539



Czech Technical University in Prague

Students: 1,908

Graduates: 542



University of Chemistry and Technology, Prague

Students: 1,006

Graduates: 238



University of Pardubice

Students: 607

Graduates: 122



Charles University in Prague

Students: 643

Graduates: 125



VSB – Technical University in Ostrava

Students: 623

Graduates: 166



Technical University, Liberec

Students: 544

Graduates: 116



Palacký University, Olomouc

Students: 363

Graduates: 63

Note: Academic year 2016/2017. The study programmes were selected by CzechInvest.

Source: Ministry of Education, Youth and Sport, 2017



CZECHINVEST
Investment and Business Development Agency

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Canada | Toronto

To be opened

Ukraine | Kiev

To be opened