Nanotechnology and Advanced Materials in the Czech Republic
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.
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.

Thanks to operations of Thermo Fisher Scientific, TESCAN, and Delong Instruments, the Czech Republic produces more than 30% of electron microscopes worldwide.

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

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, semiconductors, electronic components, ICT.
**Elmarco** – a major breakthrough to create a whole nanofiber supply chain and discover new opportunities for the most demanding applications.

**Energy & Environment**

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.
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.

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.

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.

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.
Nanotechnology & Advanced Materials at Czech Universities

Czech Republic | Students: 12,724 | Graduates: 3,412

Brno University of Technology
Students: 1,281
Graduates: 394

Czech Technical University in Prague
Students: 1,723
Graduates: 421

University of Chemistry and Technology, Prague
Students: 1,947
Graduates: 647

University of Pardubice
Students: 791
Graduates: 242

Charles University in Prague
Students: 1,466
Graduates: 292

VSB – Technical University in Ostrava
Students: 671
Graduates: 271

Technical University, Liberec
Students: 487
Graduates: 108

Palacký University, Olomouc
Students: 1,108
Graduates: 308

Note: Academic year 2018/2019. The study programmes were selected by CzechInvest.
Source: Ministry of Education, Youth and Sport, 2019.
Contact us
nano@czechinvest.org

CzechInvest Headquarters and Foreign Offices:

Czech Republic | Prague
Phone: +420 296 342 500
fdi@czechinvest.org
Stepanska 15, 120 00 Prague 2

Germany | Düsseldorf
Phone: +49 211 250 56 190
germany@czechinvest.org

China | Shanghai
Phone: +86 (0)21 60322035
china@czechinvest.org

Russia and CIS | Moscow
Phone: +7 495 787 7851
russia@czechinvest.org

South Korea | Seoul
Phone: +82 2 720 6080
seoul@czechinvest.org

Japan | Tokyo
Phone: +81 3 5485 8266
tokyo@czechinvest.org

Scandinavia
Phone: +420 296 342 799
scandinavia@czechinvest.org

UK and Ireland | London
Phone: +44 20 8748 3695
Mobile phone: +44 77 8523 1520
london@czechinvest.org

USA – East Coast | New York
Mobile phone: +1 347 789 0570
newyork@czechinvest.org

USA – West Coast | San Francisco
Mobile phone: +1 831 313 6295
california@czechinvest.org

Canada | Toronto
Phone: +1 647-640-2113
canada@czechinvest.org