

Research & Development in the Czech Republic





R&D Infrastructure



19

universities with STEMM focused faculties producing approx. **22,000** graduates in technical fields per year



54

institutes of the Academy of Sciences with more than **8,000** employees

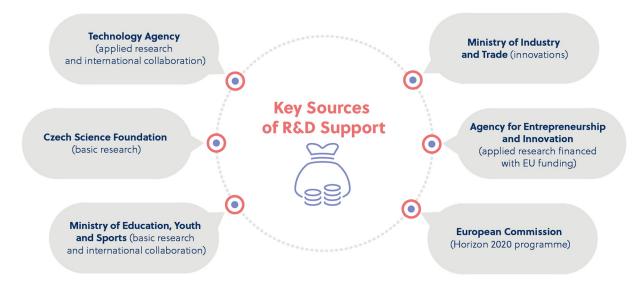


48

new research centres
worth more than EUR 2 billion

Source: Ministry of Education, Youth and Sports, 2017 and www.avcr.cz

Sources of R&D Support





Historical Milestones



Prokop Diviš

invents the lightning rod



Gregor Johann Mendel discovers the principal

laws of heredity





Charles University, the oldest university in CEE region, is founded in Prague







Jan Evangelista Purkyně formulates the cell theory

Major R&D Investments



Honeywell



GE Aviation has been successfully developing and manufacturing aircraft engines in the Czech Republic since it acquired certain assets of the local company Walter in June 2008. Since the acquisition, GE Aviation has already certified three new engine models and made significant investments in its Czech business. The company's engineering team has already more than doubled in size and is still expected to grow further as new development projects are coming down the pike. The Czech operation has become a turboprop center of excellence for GE Aviation.

The Czech Republic is the cornerstone of Honeywell's global engineering strategy in Europe. The Prague Laboratory opened in 1993 and the Brno Design Center followed ten years later. In 2006, the Brno Design Center was integrated into Honeywell Technology Solutions' international network of research, development and engineering centers. Honeywell also has two manufacturing sites in the Czech Republic: Aerospace in Olomouc and Environmental and Combustion Controls in Brno. More than 4,000 professionals work for Honeywell in the Czech Republic. Red Hat's activity in Brno started in 2004. The company currently employs 900 people and has given more than 100 students their first professional experience.
Red Hat Czech has become the largest software engineering facility in the world and an employer of choice for people who want to work and live the Open Source way. The Brno entity has received many internal and external awards including Best Engineering Site and Best Employer in the Czech Republic.



Jan Jánský discovers the four blood types





Jaroslav Heyrovský
receives a Nobel prize
for his invention
of the polarographic method





Jára Cimrmanformulates the principles
of a five-stroke engine





Viktor Kaplan invents the Kaplan turbine (patented in 1920)



R&D Facts and Figures

Development of R&D expenditure

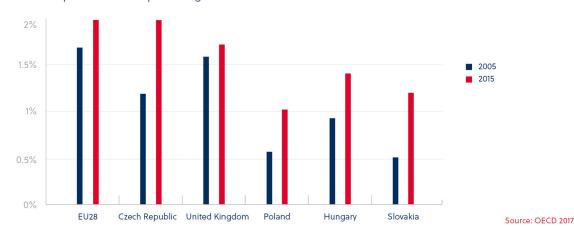
Gross domestic R&D expenditure in absolute numbers and as a percentage of GDP



Source: Czech Statistical Office 2017

International comparison of R&D expenditure

Gross domestic R&D expenditures as a percentage of GDP





Invention of Semtex

plastic explosive in Pardubice



FDA approves Atripla,

a once-a-day pill for treating HIV based on a compound formulated by Antonín Holý







2006



Otto Wichterle produces the first soft gel contact lenses



First surgery replacing the heart with two support devices performed at the Institute of Clinical and Experimental Medicine

Czech Strengths in R&D





The number of employees (FTEs) in R&D has risen by **50% in the past ten years to 66,433**, which amounts to 12.8 people per 1,000.



0.82% of the world's scientific papers are written in the Czech Republic (which accounts for 0.14% of the world's population)

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