



Presentation of research centre Institute of Environmental Technology

VSB-Technical University of Ostrava, Czech Republic

Lucie Obalová

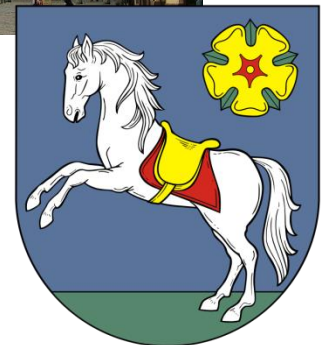
Ostrava

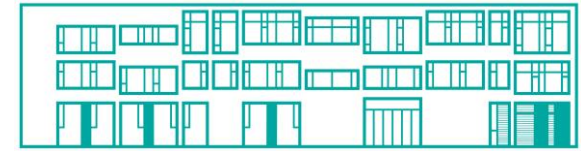
3rd largest city in Czech Republic

300 000 inhabitants

2 universities

Important industrial city





VSB – Technical University of Ostrava

- 6th largest university in the Czech Republic
- Established in 1849
- 11 353 students, 950 academic staffs
- 7 faculties, 2 university research centers
- 249 study programs (114 in English language)
- One of the largest campus in middle Europe



Faculties

FACULTY OF ELECTRICAL
ENGINEERING AND COMPUTER
SCIENCE

FACULTY OF MATERIALS
SCIENCE AND TECHNOLOGY

FACULTY
OF MINING
AND GEOLOGY

FACULTY
OF MECHANICAL
ENGINEERING

FACULTY
OF CIVIL
ENGINEERING

FACULTY
OF SAFETY
ENGINEERING

FACULTY
OF ECONOMICS

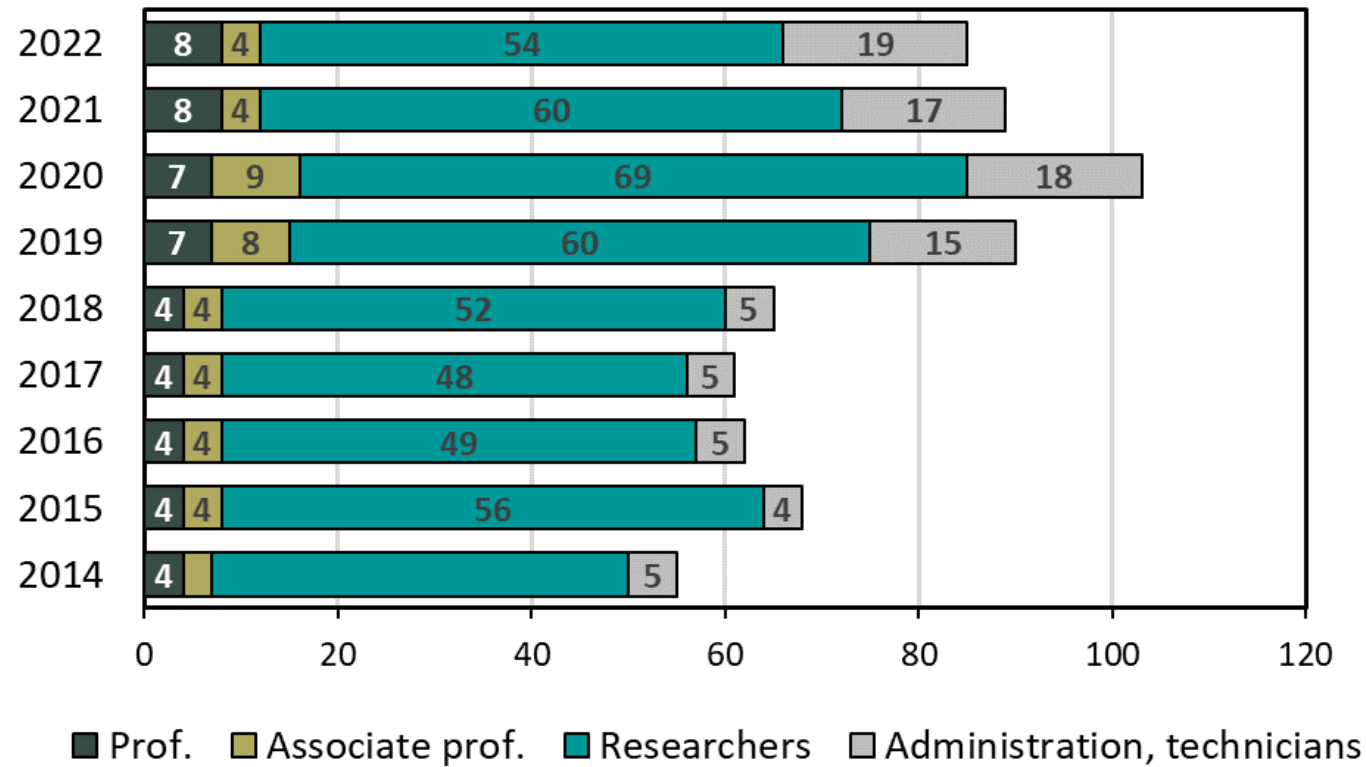
University research centres

ENERGY
AND ENVIRONMENTAL
TECHNOLOGY CENTER

IT4INNOVATIONS
NATIONAL SUPERCOMPUTING
CENTER



People

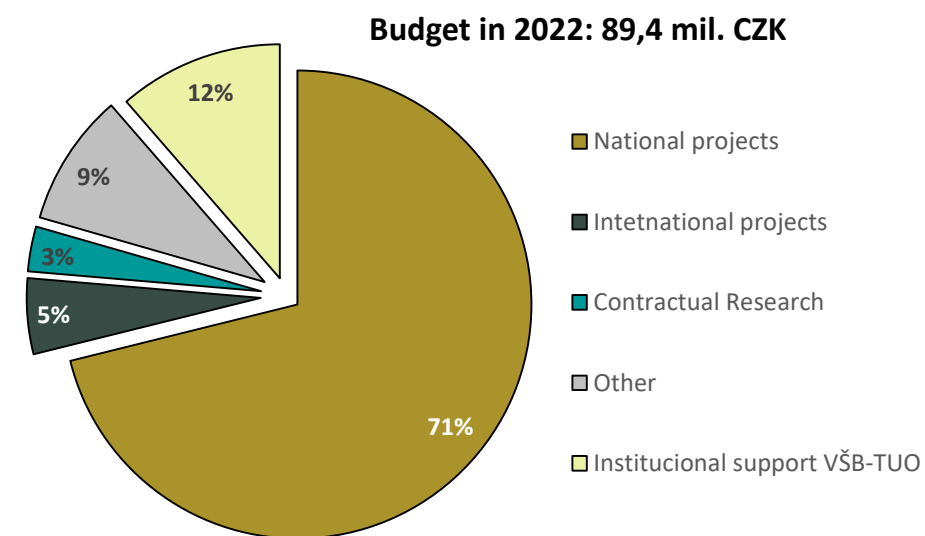




Funding of centre

Type	2014	2015	2016	2017	2018	2019	2020	2021	2022
Czech Science Foundation	2	2	3	2	3	3	3	3	3
Technology Agency CR	2	2	2	4	4	4	3	2	2
International projects	1	1	1	2	3	3	3	2	3
Specific students research	2	1	1	1	1	1	1	3*	3*
MIT TRIO	0	0	2	2	2	2	2	1	1
MIT OP PIK	0	0	1	4	4	3	2	1	1
MEYS	1	2	2	1	3	3	3	3	3
Support of R&S from MSR	0	2	0	0	0	0	0	0	0
Institutional support VŠB-TUO	0	2	1	1	0	0	0	0	0
Total	8	12	13	17	20	19	17	15	16

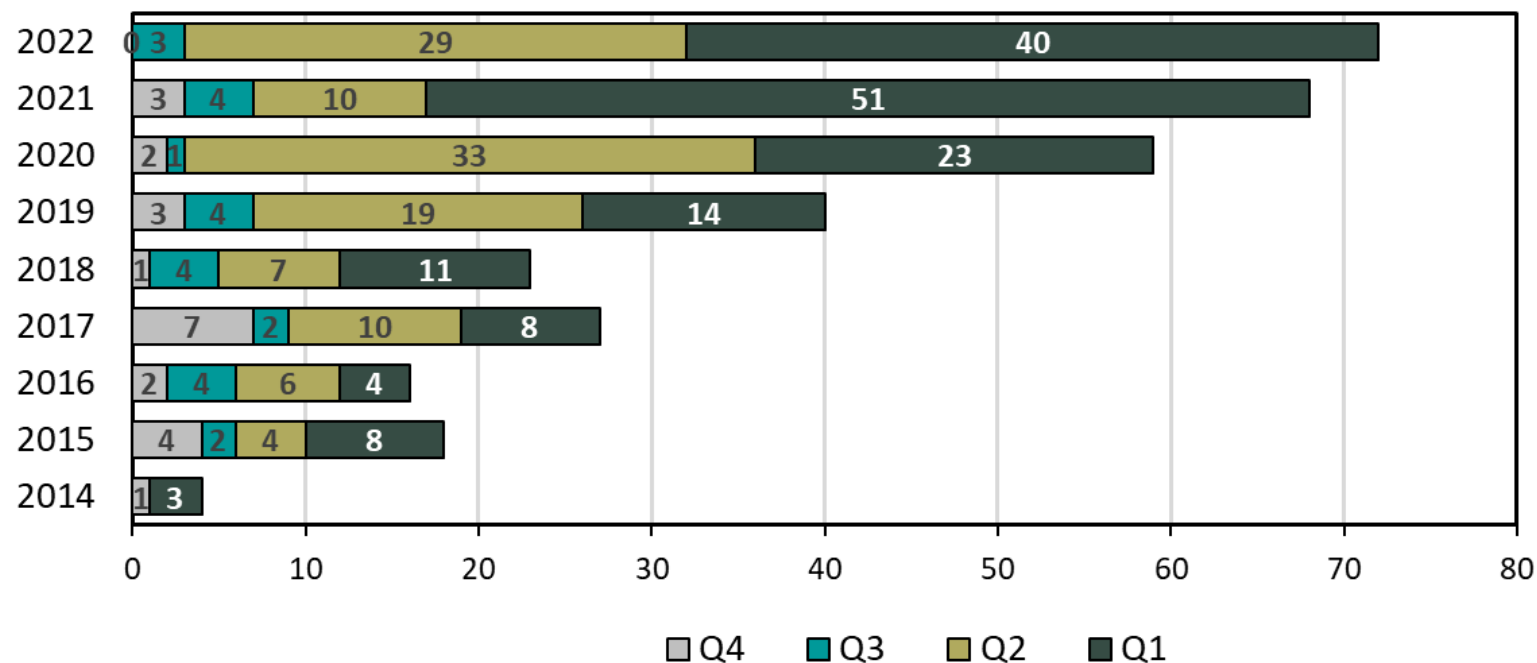
*Doctoral grant competition



	2014	2015	2016	2017	2018	2019	2020	2021	2022
Budget (mil. CZK)	19,6	27,7	26,1	30,2	43,2	93,7	96,6	74,3	89,4



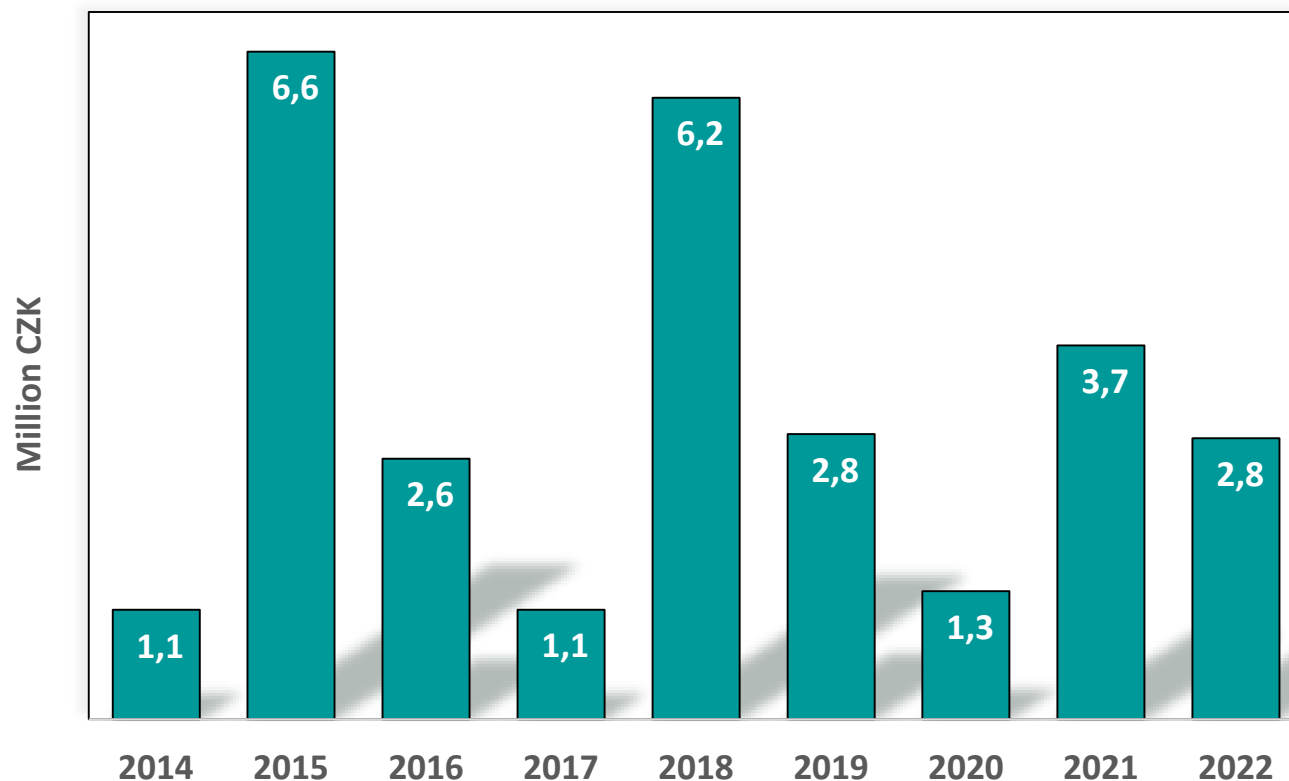
Publications in IF journals



	2014	2015	2016	2017	2018	2019	2020	2021	2022
IF publication/FTE	0,3	0,9	0,7	1,2	0,9	0,8	1,1	1,5	1,8
R&D staffs (FTE)	18,6	22,0	22,1	23,0	25,0	51,7	54,4	46,5	40,2

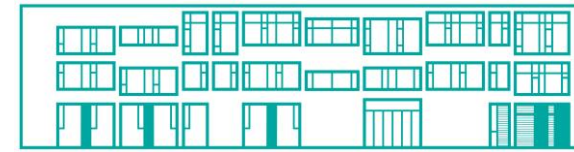


Cooperation with industry - contractual research



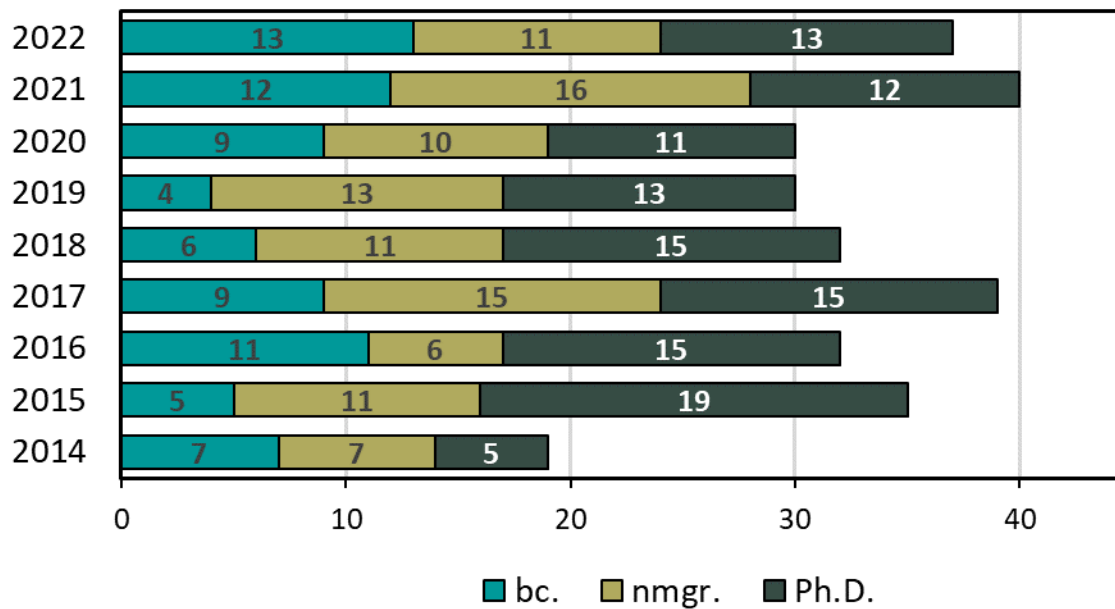
Envitech Bohemia
 ELVAC EKOTECHNIKA Inc.
 CAPITAL REFRACTORIES Ltd.
 BorsodChem MCHZ
 Ranido
 Ústav geoniky AV ČR
 I.P.C. Refractories
 Bochemie Bohumín
 SINEKO Engineering
 OZO Ostrava
 Refrasil
 Nano4People
 Conformity
 Nošovice town
 Nižní Lhoty town
 TECHNICKÉ SLUŽBY OCHRANY OVZDUŠÍ
 OSTRAVA
 Vodní zdroje Chrudim
 Wasten





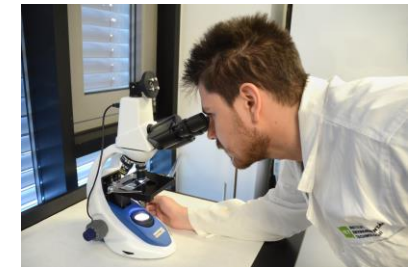
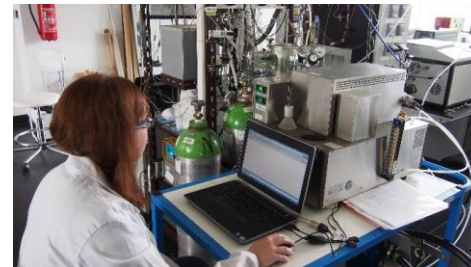
Cooperation with faculties in students education

Students in IET laboratories (2014 - 2022)



Study programs

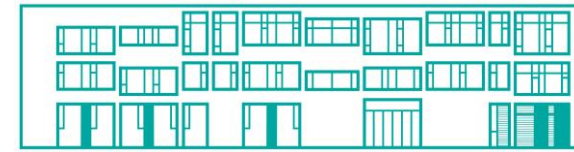
- Process Engineering (FMT)
- Chemical and Environmental Engineering (FMT) (FMT)
- Nanotechnology (FMT)
- Thermal technology and ceramic materials(FMT)





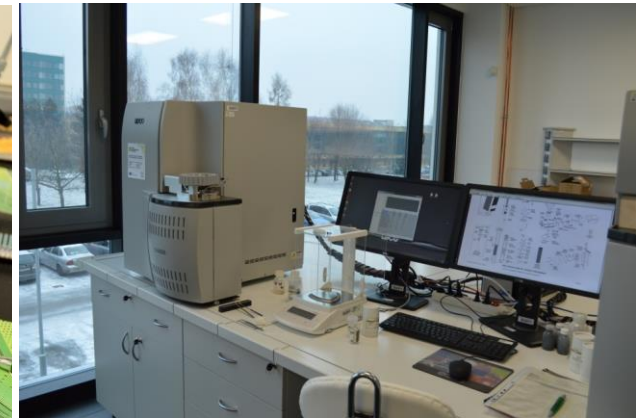
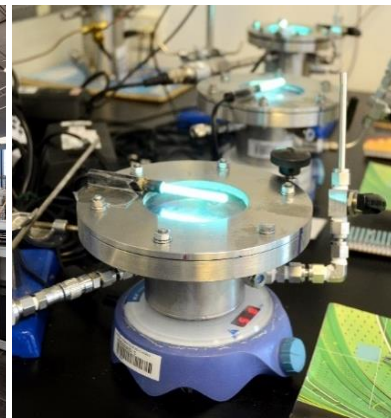
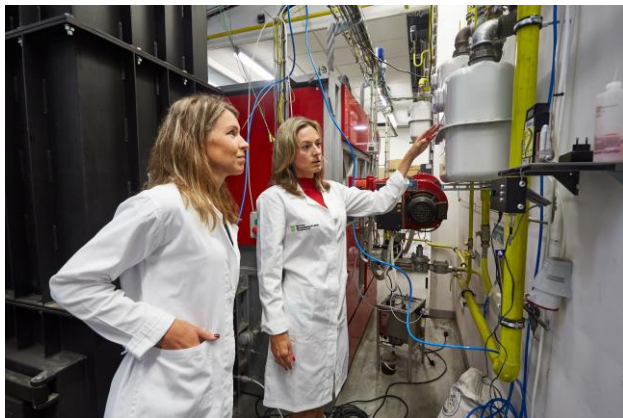
International Cooperation

- Jagellonian University Krakow, **Poland**
- University Marie Curie-Skłodowska in Lublin, **Poland**
- AGH, Krakow, **Poland**
- Lodz University of Technology, **Poland**
- Technical University of Bratislava, **Slovakia**
- Prešov University in Prešov, **Slovakia**
- Technical University of Crete, **Crete**
- University of Oulu, **Finland**
- University of Nova Gorica, **Slovenia**
- University of Antwerp, **Belgium**
- National University of Kiev, **Ukraine**
- Technical University Bergakademie in Freiberg, **Germany**
- Nagoya Institute of Technology, **Japan**
- University of Turin, **Italy**
- Montanuniversität in Leoben, **Austria**
- Vienna Technical University, **Austria**
- JINR, Dubna, **Russian Federation**
- National Taiwan University, Taipei, **Taiwan**
- National University Littoral, **Argentina**
- Assiut University, **Egypt**
- Griffith University Brisbane, **Australia**
- University Jiangsu, **China**
- National University of Thumbes, **Peru**
- National Engineering University in Lima, **Peru**
- Ariel University, **Israel**
- University of Calgary, **Canada**
- DTU Copenhagen, **Denmark**



Research teams

- Waste to Energy
- Biochemical Processes
- Industrial Chemistry
- Heterogeneous Catalysis
- Heterogeneous Photocatalysis
- Material Preparation and Waste Valorization
- Water Treatment and Analysis



Thank you for your attention

