



Silesian  
University  
of Technology



RESEARCH  
UNIVERSITY

EXCELLENCE INITIATIVE

Ministry of Science  
and Higher Education

SCIENCE – PRESTIGE – INNOVATIONS

WWW.POLSL.PL

2023



# Unique location

- The only technical university in the only Metropolis in Poland (2.2M)
- Special Economic Zone with 100K jobs, other 200K jobs related
- Half a milion of companies in the region
- 5 Research institutes of the Polish Academy of Sciences
- Advanced technologies, ICT, chemical, automotive, aviation, biomedical sector





# Modern infrastructure and university campus



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# SUT – a research university



On 30 October 2019  
the Silesian University of Technology became  
one of 10 Research Universities in Poland



*The awarding ceremony*



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# European University



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MONTANUNIVERSITÄT LEOBEN

UNIVERSIDAD DE LEÓN

TECHNISCHE UNIVERSITÄT  
BERGAKADEMIE FREIBERG

POLYTECHNEIO KRITIS

UNIVERSITATEA DIN PETROȘANI

HOCHSCHULE MITTWEIDA

POLITECHNIKA ŚLĄSKA

Expanded in 2022 by:

- Hasselt University
- University of Lorraine

The European  
University Alliance  
on Responsible  
Consumption and  
Production  
**EURECA-PRO**

# European City of Science



European Association for the Advancement of Science and Technology

- Silesian University of Technology
- University of Silesia
- Medical University of Silesia
- University of Fine Arts
- University of Music
- University of Economics
- Academy of Physical Education

**Transform Silesia Together**



Katowice will be the European City of Science 2024!



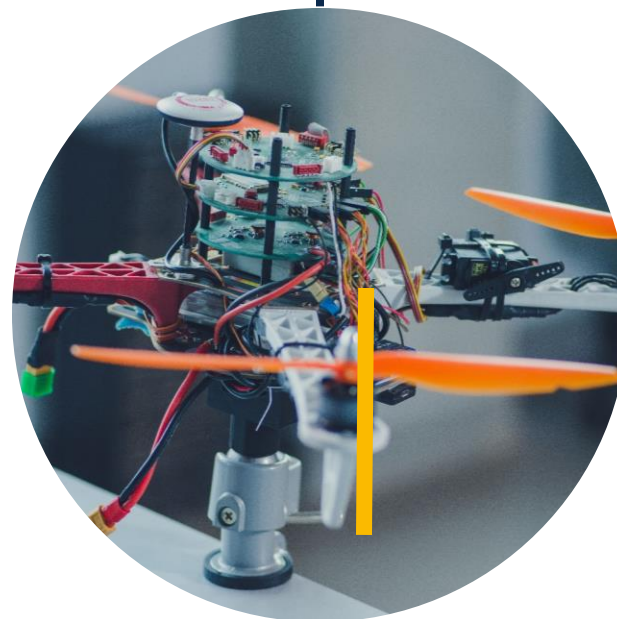
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# All fields of engineering and much more

7



- Faculty of Applied Mathematics
- Faculty of Architecture
- Faculty of Automatic Control, Electronics and Computer Science
- Faculty of Biomedical Engineering
- Faculty of Chemistry
- Faculty of Civil Engineering
- Faculty of Electrical Engineering
- Faculty of Energy and Environmental Engineering
- Faculty of Materials Engineering and Metallurgy
- Faculty of Mechanical Engineering
- Faculty of Mining, Safety Eng., Automation
- Faculty of Organization and Management
- Faculty of Transport and Aviation Engineering
- Institute of Physics - Centre for Science and Education



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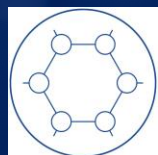
# Priority Research Areas



Computational oncology and personalised medicine



Artificial intelligence and data processing



Materials of the future



Smart cities and future mobility



Process automation and Industry 4.0



Climate and environment protection, modern energy



*details available at [www.polsl.pl](http://www.polsl.pl)*



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# SUT in numbers

16,000

students

800

PhD students

210,000

graduates

12

scientific disciplines

6

priority research areas

1,600

academic staff

130

full-professors

3,200

employees



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# Key objectives for development of SUT



Top-quality  
research to  
improve living  
standard and  
economy



Excellence-based  
career  
development,  
special attention  
to the young



Modern  
education,  
motivated by  
real problems



Collaboration  
with industry  
and technology  
transfer



Internationalisation  
and visibility  
at all aspects



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# Investment in excellence

**SUT**  
**- research**  
**university**

**63 mln EUROS**  
**(2020-2026)**

**Institution upgrade**  
**(scientific networks, strategic**  
**partnership)**

**Scientific excellence**  
**(TOP publications, Horizon**  
**project, outstanding**  
**researchers, breakthroughs)**

**Modern education**  
**- students and PhDs**

**Internationalisation**

**Staff career**



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# Societal and economy impact

- Mutual involvement in strategy development
- Expertise share
- Infrastructure share
- Study programmes motivated by the needs
- Joint R&D centers
- Joint projects
- Rapid response to requests
- Commitment to resolving emergencies
- Research oriented on innovation and breakthroughs

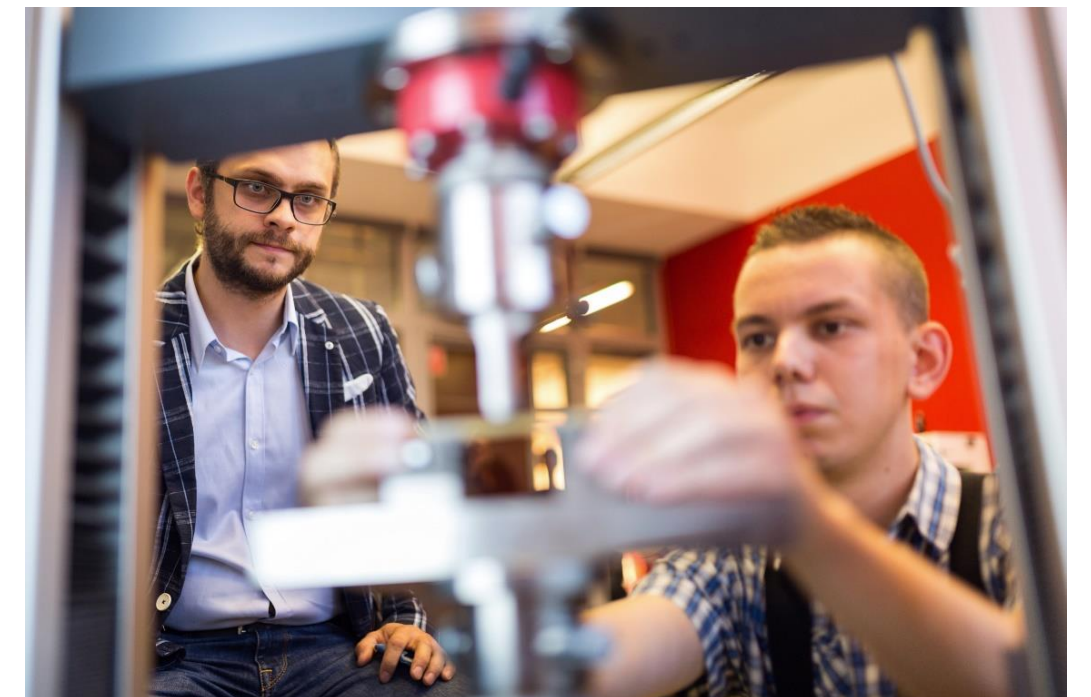




# Modern education



- Problem and Project Based Learning
- Dual studies
- Flexible study track
- PhD School jointly with scientific and research institutes
- Implementation doctorates
- MBA programmes





# Students research (~180 clubs)



Silesian  
Greenpower



Elektra



Smart  
Power



High  
Flyers



Silesia  
Automotive



## BUSINESS SCHOOL



### MBA studies

- **Postgraduate studies** launched in cooperation with business partners in: materials engineering, mechanical engineering, civil engineering and transport, automation electronics and electrical engineering.
- **Courses and trainings** responding to the needs of the industry: SUT organizes special training courses and trainings dedicated to the specific needs of industrial and business partners.





## COOPERATION WITH THE BUSINESS ENVIRONMENT

# JOINT PROJECTS



The SUT is the seat of the **Horizontal Contact Point**, which is a brokerage center that allows scientists from the Southern-Western Poland to pair with entrepreneurs in the field of international projects.



The university - through the activities of the **Project Management Centre** - supports scientists and entrepreneurs in acquiring partners in order to apply for joint implementation of national and international projects.





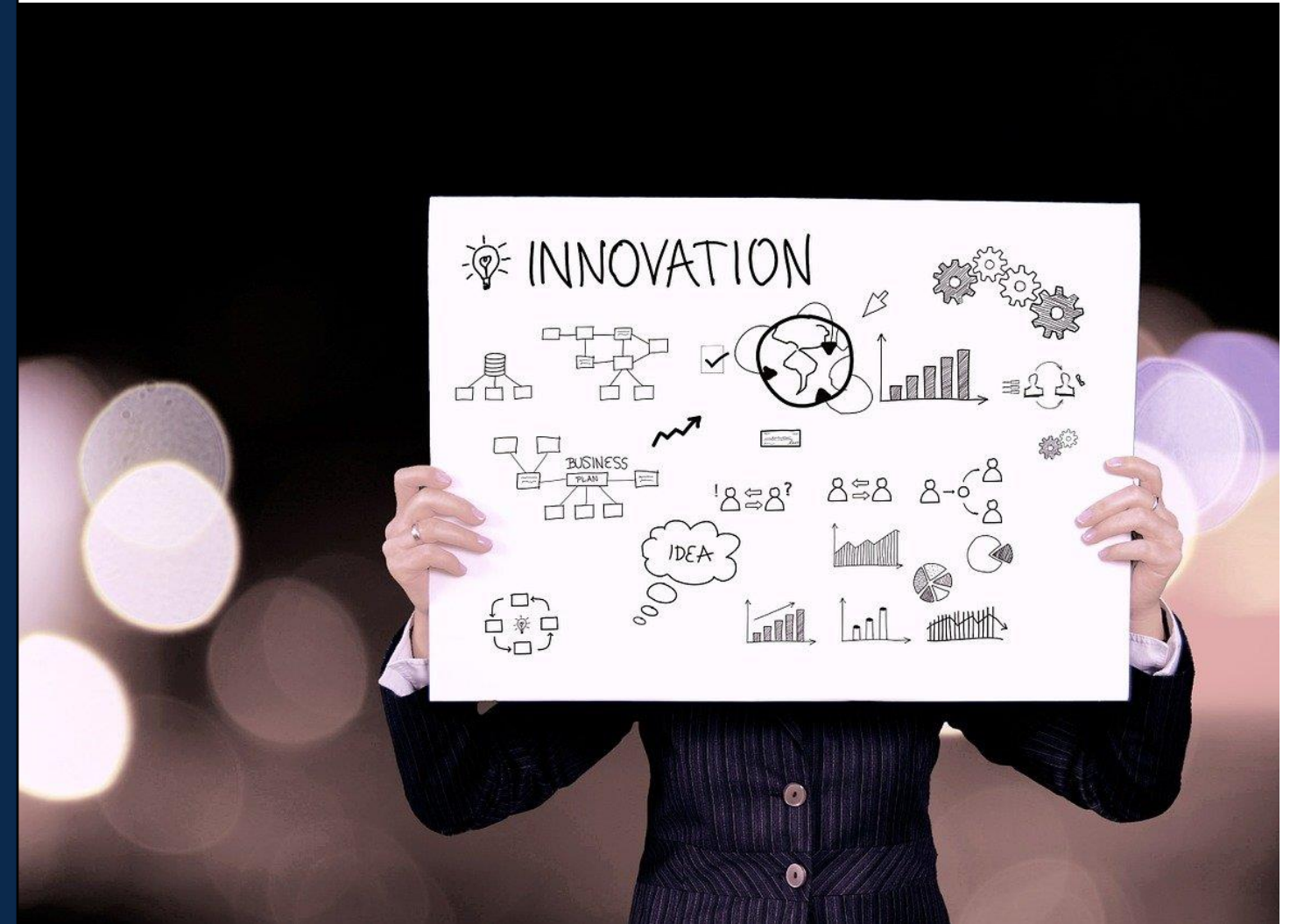
COOPERATION WITH BUSINESS ENVIRONMENT

# KNOWLEDGE COMMERCIALISATION AND TECHNOLOGY TRANSFER



The SUT- through the **Center for Incubation and Technology Transfer (CITT)** - establishes and maintains relations between the University's scientists and enterprises.

**CITT** helps scientists establishing industry partnerships, order and submit materials, apply for EU framework programmes, funds, grants, commercialize technology, and incubate new businesses.



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# Thank you for your attention!

SUT - a university focused  
on excellence in research,  
modern education,  
and high impact on  
society and economy



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