



Silesian
University
of Technology

SCIENCE-PRESTIGE-INNOVATIONS

WWW.POLSL.PL

A young woman with dark hair tied in a bun, wearing a white lab coat, stands in a laboratory. She is smiling and looking towards the camera. In the background, there are shelves with various bottles and laboratory equipment.

Welcome to the Silesian University of Technology!

You have chosen a unique opportunity to study engineering in an institution of a worldwide academic reputation and vivid cooperation with major industrial partners



Silesian University
of Technology



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



Priority research areas:

1. Computational oncology and personalized medicine
2. Artificial intelligence and data processing
3. Materials of the future
4. Smart cities and future mobility
5. Process automation and Industry 4.0
6. Climate and environmental protection, modern energy



1. Computational oncology and personalized medicine

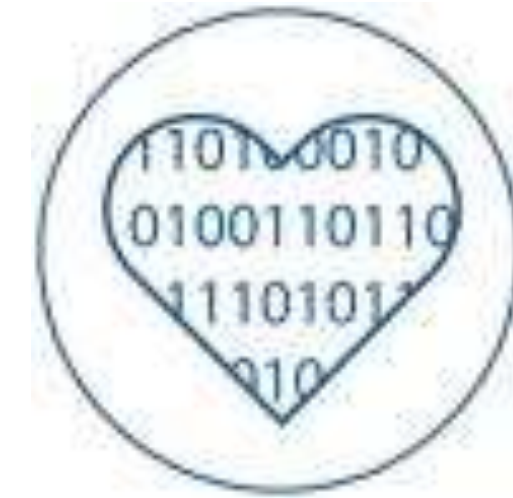
In recent years, the integration of technical sciences with medicine and biology has contributed to a significant improvement in both diagnostics and planning, as well as monitoring of the effects of therapy and the emergence of new research platforms, allowing for greater understanding of the causes and evolution of diseases. Thanks to the long-term and systematically developed cooperation of the Silesian University of Technology (SUT) and the Oncology Centre in Gliwice (IO), joint research is carried out in interdisciplinary research teams.

University researchers are world-class experts in cancer research, they are prominent specialists in the field of personalised medicine and nanomedicine. Their achievements in the field of medical image processing algorithms are at a high global level.

2. Artificial intelligence and data processing

The Silesian University of Technology conducts research in the theoretical area, as well as applications of artificial intelligence methods in various tasks.

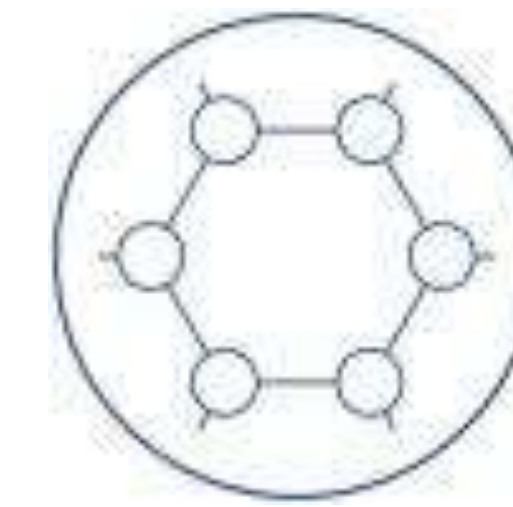
Scientists working in this area are conducting research in collaboration with leading research centres, such as Stanford University, Nanyang Technological University or Massachusetts Institute of Technology.



3. Materials of the future

This research area includes conceptual analysis and experimental research, focused on obtaining new materials with desired properties, with particular focus on the perspective of their technological applications. The group of scientists from the Silesian University of Technology has a significant impact on the development of Polish science in the field of synthesis and characteristics of new organic materials for optoelectronics and photovoltaics application, as well as the formation and characterization of organic electronic devices and the fastest possible implementation of carbon nanotubes for products used in everyday life, through a more efficient and ecological synthesis.

In the field of modelling, analysis and production of organic electronic devices, in particular the Organic Light-Emitting Diode (OLED), the Silesian University of Technology is a leader in Poland.



4. Smart cities and future mobility

Answering new challenges of modern technologies and requirements of the present-day economy, taking into account the directions of the national and Upper-Silesian region development, the main goal of the university is to increase commercialization of the R&D activity in the field of civil engineering, modern architecture and urban planning, especially concerning the issues of intelligent transport within the future cities, supported by information and transportation technologies.

The Silesian University of Technology is a precursor in the Building Information Modelling (BIM) applications in transportation, industrial and civil engineering, as well as parametric design tools applications in modern architecture and urban planning.



5. Process automation and Industry 4.0

The Silesian University of Technology has been conducting research related to the development of technologies of Industry 4.0 for many years. Especially in the field of automation and integration of processes using IT systems. A very intensive cooperation with the industry and, above all, with the Katowice Special Economic Zone, allows for identification of current industry needs and planning, as well as conducting scientific research aimed at developing the technologies that are mostly expected by the industry.

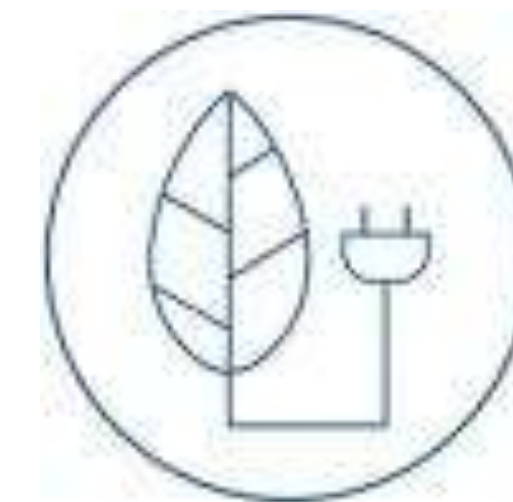
In 2018, the Silesian University of Technology, together with the Katowice Special Economic Zone, established the first competence centre in Poland – the Silesian Competence Centre of Industry 4.0. This allows the pioneer activity of the university in the field of creating standards and guidelines for other competence centres in other regions of Poland.



6. Climate and environmental protection, modern energy

Protection of environment and mitigating climate change are priorities for moving towards sustainable growth. In this respect, Silesian University of Technology is active in a number of research fields. The research area includes: sustainable energy growth, circular economy, as well as air quality assessment and protection.

The structure of the investigations conducted at the university is a balanced mixture of fundamental and applied research. The University maintains close contacts with international and national corporations: ABB Corporate Research Centre, General Electric, SGL Carbon, Tauron SA, Arcelor Mittal, Sumitomo FW, PKN ORLEN and numerous small and medium size enterprises, as well as prestigious universities: University of California, University of Cambridge, Massachusetts Institute of Technology, University of Oxford, Swiss Federal Institute of Technology Zurich (ETH), University College London and US National Lab Lawrence Livermore Laboratory.



European Universities Initiative

The Silesian University of Technology (SUT) is a member of consortium within the **European Universities Initiative**. The consortium consists of 7 universities from 6 countries.

8 The following project: "The European University Alliance on Responsible Consumption and Production EURECA-PRO" was granted by the European Commission in July 2020.



A brief history

- The Silesian University of Technology was established on May 24th, 1945
- The first inauguration of the academic year was held on October 29th, 1945
- 2750 students began their studies on four faculties
- Study programmes were taken from the Lviv Polytechnic
- Scientific and didactic staff mostly consisted of former professors from Lviv



75 years of tradition

The oldest technical university
in the region and one of the largest
in the country



Silesian University
of Technology



Silesian University of Technology

Currently educates about 20,000 students on all three levels of study: bachelor, master and doctoral; including over 15,000 at full-time studies.

It offers over 50 fields of study and around 200 specializations, covering the entire scope of engineering activities.



Silesian University of Technology



Faculties



Institutes



Number of
study majors



Academic High
Schools



Number of basic units



- 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 Engineering and Industrial Automation
- Faculty of Organization and Management
- Faculty of Transport and Aviation Engineering
- Institute of Research on Education and Communication
- Institute of Physics - Centre for Science and Education



BSc study programmes

Automatic Control, Electronics, Telecommunications
Informatics
Biomedical Engineering - Information systems
medicine
Biotechnology
Circular Economy
Civil Engineering
Electrical Engineering
Engineering Physics
Environmental Engineering
Industrial and Engineering Chemistry
Informatics
Management and Production Engineering
Mathematics (Applied Mathematics)
Mechanical Engineering
Mining, Safety Engineering and Industrial Automation
Power Engineering
Transport



MSc study programmes

Architecture

Automatic Control and Robotics, Electronics and
Telecommunication, Informatics

Automation and Robotics

Biotechnology

Civil Engineering

Electrical Engineering

Industrial and Engineering Chemistry

Management and Production Engineering

Materials Engineering

Mechanical Engineering

Mechanics and Machine Design

Mechatronics

Mining and Geology

Power Engineering

Power Engineering – 4 semesters

Transport



Silesian University
of Technology

Silesian University of Technology in numbers

600+

PhD students

200,000+

graduates

20,000
including
260
international
students

students

1,620+

academic staff

120+

full-professors

3,150+

employees



Academic exchange

Academic Year	Outgoing Students (SMS+SMP)	Outgoing Staff (STA+STT)	Incoming Students (SMS+SMP)
2017/2018	195	101	181
2018/2019	231	125	217
2019/2020	163	61	267



Silesian University of Technology today

15 basic units in three cities



Gliwice



Katowice



Zabrze



Silesian University of Technology today

Study in English on 16 study programmes

International exchange and short-term students can choose from a wide range of courses offered in English in almost every field of study available at the Silesian University of Technology.



**Silesian University
of Technology**



Silesian University of Technology today

JOINT DOCTORAL SCHOOL

The Silesian University of Technology organizes its PhD studies within the Joint Doctoral School. The aim of the School is to promote and implement research areas defined in the University development strategy. PhD studies prepare students to achieve a high degree of specialization and expertise in a scientific discipline. The Joint Doctoral School offers interdisciplinary education, covering a wide range of scientific disciplines (topics of PhD theses). Duration of a PhD programme is 4 years with full-time enrolment. Each PhD student receives a scholarship without charging for tuition.



Silesian University
of Technology

Silesian University of Technology today

Outstanding results of parametrization

1 faculty with A+ category,
10 faculties with A category
3 faculties with B category





AWARDS AND RANKINGS

The Silesian University of Technology has debuted in the prestigious Times Higher Education ranking by subject (2019), which comprises best universities in the world. We've been ranked high in two disciplines: Engineering and Technology (601–800) and Computer Science (501–600).

In the prestigious QS World University Rankings the Silesian University of Technology is ranked within 801-1000 position.

1st place in Poland in 2019 in the competition of the Ministry of Science and Higher Education for implementation doctorates. The university received funding for 78 of such doctorates.

4th place among Polish technical universities in Shanghai Ranking by subjects (Shanghai Ranking's Global Ranking of Academic Subjects 2018).

4th place among technical universities in Poland (ranking of the "Perspektywy" Educational Foundation, 2018). The University was granted the "University of Leaders" certificate in 2018 and 2019. The certificate confirms the achievements and significant contribution to the development and improvement of the quality of education.

The Silesian University of Technology was honoured with the ELSEVIER Research Impact Leaders 2016 award in the Engineering and Technology category, as well as the ELSEVIER Research Impact Leaders 2018 in the area of Social Sciences, as one of the universities, whose publications had the greatest impact on the perception of Polish science in the world.

The University was also granted the HR Excellence in Research award by the European Commission in January 2017.

University's partner institutions in numbers

Country	Partner Institutions	Country	Partner Institutions	Country	Partner Institutions
Ukraine	38	Japan	3	Bangladesh	1
China	36	Romania	3	Bosnia and Herzegovina	1
Germany	24	Belgium	2	Cyprus	1
Russia	15	Belarus	2	Egypt	1
Czech Republic	12	Bułgaria	2	Estonia	1
Kazakhstan	10	Croatia	2	Ethiopia	1
Slovakia	9	Denmark	2	Finland	1
Brazil	8	India	2	Guyana	1
France	8	Iraq	2	Indonesia	1
Spain	8	Canada	2	Yemen	1
Italy	7	Kyrgyzstan	2	Colombia	1
USA	6	Lithuania	2	Latvia	1
Mexico	5	Portugal	2	Macedonia	1
South Korea	4	Turkey	2	Morocco	1
Taiwan	4	Hungary	2	Peru	1
Uzbekistan	4	Vietnam	2	El Salvador	1
United Kingdom	4	Albania	1	RSA (Republic of South Africa)	1
Georgia	3	Argentina	1		



The SUT has established a close cooperation with its business environment

In the entire region of Upper Silesia, there are numerous companies and special economic zones, including the Katowice Special Economic Zone, with numerous enterprises operating in the fields of advanced technologies. SUT does this in order to reach its main objective, which is to train highly skilled engineering staff for modern industry and to conduct and implement innovative research.





The “Mrowisko”

Student Cultural Centre „Mrowisko”
and the biggest students’ club in Silesia
– the „Spirala”



Sports life

Silesian University of Technology has been
ranked among the very top of the most sports-
oriented universities in the country for many
years



Student life

Student life at the university is exceptionally
rich throughout the academic year and even
during holiday



There are over 20 of Student Organisations, complemented by about 180 scientific associations

Moreover, students have at their disposal a choir, a music band, a dance ensemble and a theatre



Students projects



Silesian
Greenpower



Elektra



Smart
Power



High
Flyers



Silesia
Automotiv
e



Silesian University of Technology today

... a place that without a doubt, educates successful people

Almost 10% of the top-managers in Poland graduated from SUT. Its alumni receive the highest salaries in the region and the 4th highest in Poland. Recently, we also ranked 4th among higher education schools whose graduates are most sought after by employers.



Silesian University
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Each year the Silesian University of Technology extends it study offer

We are not only educating engineers.
On top of technical degree courses we offer quality
degrees in, among others, sociology, business
analytics, interior design, as well as degrees in
education or philology (English, Spanish, and
German).



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DUAL Studies

The Silesian University of Technology regularly organizes job fairs, numerous training courses and workshops, including programmes promoting academic entrepreneurship.

The effect of a close cooperation with industry is, among other factors, the offer of a system of dual studies. At the same time, students gain academic knowledge and professional experience, thanks to which modern industry gains highly qualified employees.



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