



Lodz University of Technology



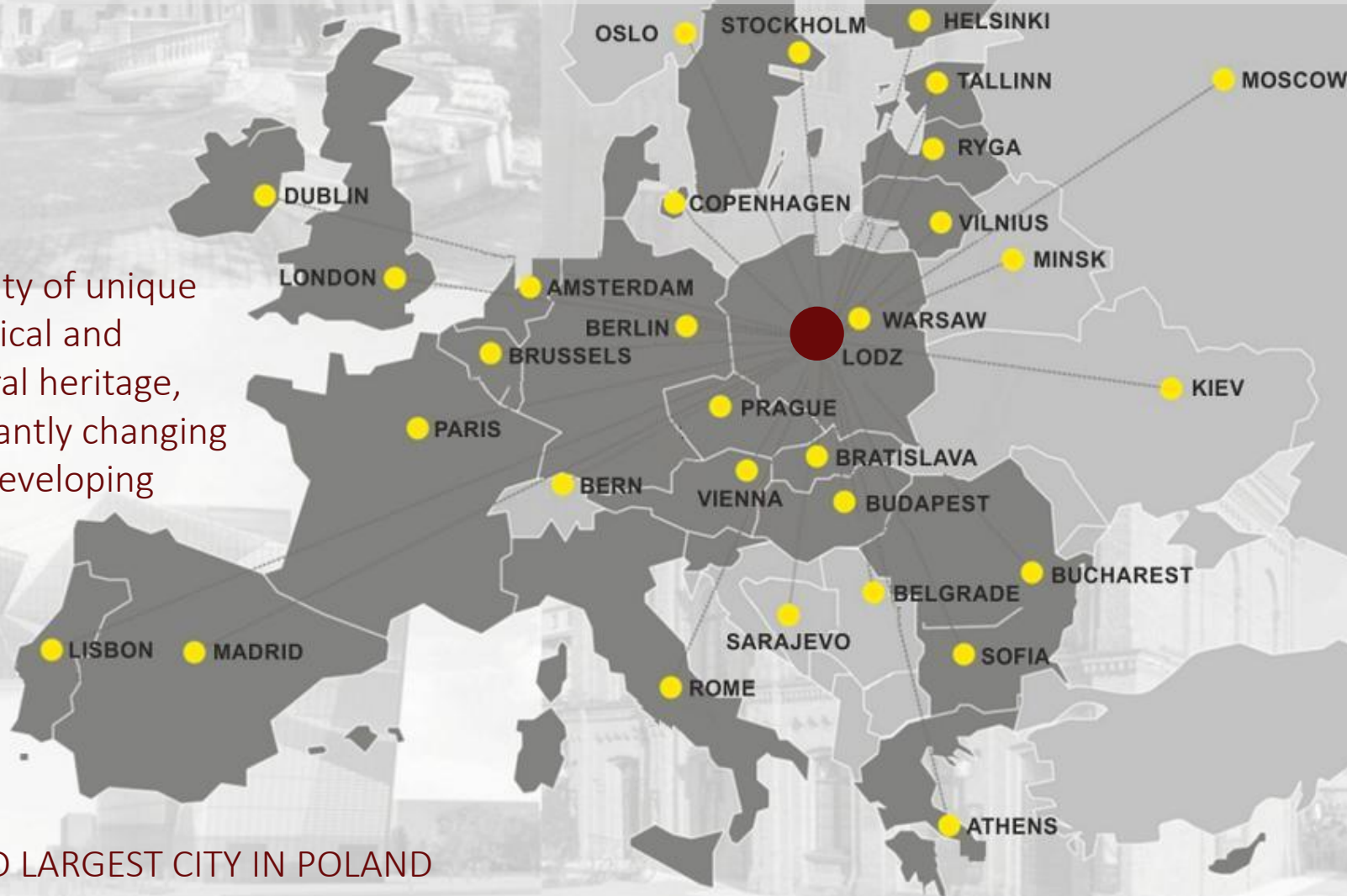
EDUCATION, RESEARCH, INNOVATION
LODZ UNIVERSITY OF TECHNOLOGY



LODZ IS SITUATED IN THE CENTRE OF EUROPE

ONE OF POLAND'S BIGGEST CITIES

The city of unique historical and cultural heritage, constantly changing and developing



THIRD LARGEST CITY IN POLAND
over 705 000 citizens in Lodz



LODZ THE BEST- CONNECTED CITY IN POLAND

0h

to Reymont Airport
(within citi limits)

1h

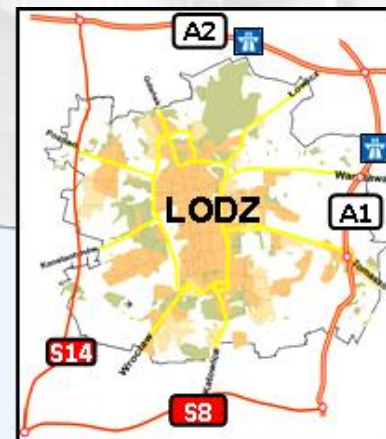
to Chopin Airport
(via motorway)

2h

to Warsaw by train
(22 trains/day)

3h

to major cities
in Poland



STRATEGIC CROSSROADS:



NORTH – SOUTH
GDANSK-VIENNA



WEST- EAST
BERLIN-MOSCOW

EXPRESS ROADS:



S8 and S14



LODZ IN THE HEART OF POLAND

Lodz offers numerous education opportunities to young people who may study at **23 university level schools**. Lodz is a major academic centre – the **fourth in Poland in terms of the number of university level schools** and the **sixth in terms of the number of students**.

Every year, thousands of secondary school graduates come to Lodz to study at one of the **six public** or **sixteen private universities**. Lodz academic facilities offer great development opportunities for representatives of the humanities, sciences and arts.

The main institutions offering courses in a wide range of academic fields include: Lodz University of Technology, the University of Lodz, the Medical University of Lodz.





LODZ UNIVERSITY OF TECHNOLOGY

WHAT MAKES US UNIQUE?

Lodz University of Technology is one of the best technical universities in Poland. It is proud to have been educating engineers **for 75 years**.

Over 120,000 **well educated graduates** are the fruit of the work of several generations of well-prepared staff: teaching, research and technical staff, as well as professional administrative support.

We are a dynamic technical university with an established structure, we provide education to over **13 thousand students** and employ **2.7 thousand staff**.





Lodz University of Technology

UNIQUE CAMPUS





UNIQUE CAMPUS

Lodz University of Technology stands out from other Polish universities because of a 37-hectare campus in the city centre, modern premises as well as revitalized, post-industrial buildings – all surrounded by greenery and the Reverend Michał Klepacz Park, where every spring the Siberian squillies bloom.

The largest investments in recent years include: **Factory of Engineers of the 21st century** (Faculty of Mechanical Engineering), **LabFactor** (Faculty of Process and Environmental Engineering), **TUL Sports and Education Centre Sports Bay** and **Alchemium - Magic of Chemistry of Tomorrow** (Faculty of Chemistry).

Post-industrial villas and palaces next to revitalized factories and modern buildings make up a unique campus of TUL.





ALCHEMIUM – THE MAGIC OF TOMORROW'S CHEMISTRY

The compound will be comprised of two structures: the conference and teaching centre, and the laboratory and teaching facility.

The laboratory and teaching facility will have five above-ground floors and one below-ground floor.

The 16 616 m² of the Alchemium floor area will accommodate 124 conference, laboratory and teaching rooms including a ceremonial hall for 500 guests.





Lodz University of Technology



WHAT MAKES US UNIQUE?



WHAT MAKES US UNIQUE?



4th

place in Poland among
technical universities



8th

place in Poland among
academic universities



3rd

place in Poland among academic
universities in the field of innovation



the most valued university
by employers
in the Lodz region



4th

the most frequently chosen
university in Poland according
to the report of the Ministry of
Science and Higher Education



AWARDS AND DISTINCTIONS

Lodz University of Technology is listed in **the most prestigious and most widely commented international university rankings**, including:





AWARDS AND DISTINCTIONS

Lodz University of Technology is also **highly ranked in institutional assessments and accredited by international organizations**, which is a confirmation of high quality of education, research and management..




Eaquals



évaluation et qualité

Hcéres



Evaluated by

IEP INSTITUTIONAL
EVALUATION
PROGRAMME

www.iep-qaa.org



eua EUROPEAN
UNIVERSITY
ASSOCIATION



Lodz University of Technology

EDUCATION





FACULTIES AND INTERFACULTY UNITS

**Mechanical
Engineering**

**Electrical, Electronic,
Computer and Control
Engineering**

Chemistry

**Material Technologies
and Textile Design**

**Biotechnology
and Food Sciences**

**Civil Engineering,
Architecture and
Environmental Engineering**

**Technical Physics,
Information Technology
and Applied Mathematics**

**Management and
Production Engineering**

**Process and
Environmental Engineering**

International Faculty of Engineering

Interdisciplinary Doctoral School



INTERNATIONAL COOPERATION CENTRE

The International Cooperation Centre was established to facilitate international actions.

The aim of the unit is to involve the University in the process of **creation of the European Higher Education**, to **promote Polish education abroad**, to **strengthen international standing of TUL**, to support the process of **TUL's internationalization** by supporting **international mobility of students and academic teachers**, organizing international projects to be carried out at TUL, and also by strengthening **TUL's participation in international educational, scientific and organizational networks and associations**.



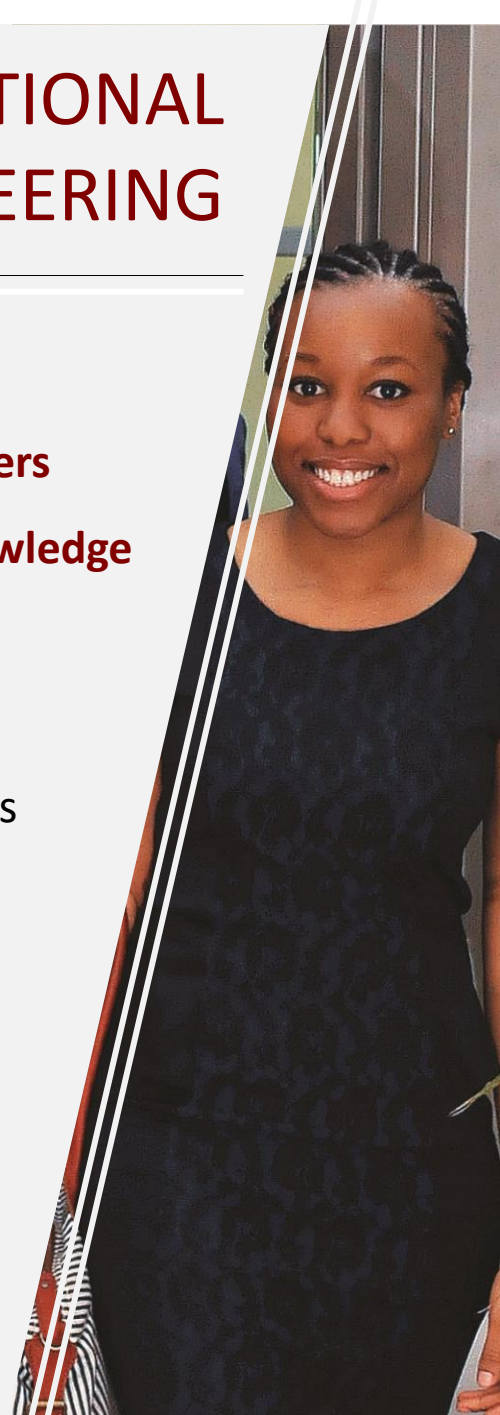


INTERNATIONAL FACULTY OF ENGINEERING

The main objective of the Faculty is to **educate professional engineers and managers, fluent in foreign languages, able to apply their knowledge in science, engineering, technology and business.**

At present, there are over **1000 students** at the faculty. The students have the opportunity to obtain **double diplomas**, one from TUL and the other from a partner university in France, Holland, Great Britain, Denmark and other European countries.

TUL is **the leader of student exchange.**





INTERDISCIPLINARY DOCTORAL SCHOOL

TUL is committed to internationalization of research and education at the Ph.D. level. **The Interdisciplinary Doctoral School** operating at TUL's faculties offers **doctoral programmes in science and technology**.

Each student enrolled at the IDS follows an **individual doctoral programme** which includes scientific courses, additional courses such as academic writing in English, scientific communication, project management and a foreign language course.





EFFECTIVE EDUCATIONAL METHODS



**DESIGN THINKING
(DT4U)**



**PROBLEM BASED
LEARNING (PBL)**



FLIPPED EDUCATION



CASE STUDY



BLENDED LEARNING



TUTORING



STUDENT SUCCESSES

Nearly 60 Student Research Clubs operate actively at our university, bringing together enthusiasts who develop their own projects.

The most frequently awarded are:

- **LODZ SOLAR TEAM** – the creators of the first solar vehicle in Poland,
- **IRON WARRIORS** – the constructors of the super-efficient car,
- **RAPTORS** – the authors of the Martian rover,
- **GUST** – participates in Small Wind Turbine contests and conferences,
- **UbiCOMP** – the originators of many solutions for the elderly and disabled persons, including a drug dispenser, a system supporting the treatment of arachnophobia and navigation collar.





STUDENT SUCCESSES

Jakub Niedźwiedzki from the Faculty of Electrical, Electronic, Computer and Control Engineering was awarded in the **Diamond Grant** program. His research is focused on **SLAM - the simultaneous localization and expansion of the map of mobile robots, for operator or autonomous navigation.**

The project of the TUL students **Smart Hives** won the third place in the international competition **Cisco Global Problem Solver.**

The project consists of devices for monitoring beehives and a mobile application for apiary management.





Lodz University of Technology

SCIENCE AND RESEARCH






SCIENCE, RESEARCH

The strategic goal of Lodz University of Technology is to achieve world standards in science. The University is committed to openness and innovation in scientific research and developing cooperation in international research networks. Our researchers are authors of both primary and applied research.

The strong scientific position of the university both in Poland and abroad is a result of **high intellectual potential** of the scientific staff. **Our modern laboratory** base provides an opportunity to **implement interdisciplinary projects**, the results of which will contribute to the **development of science, technical and technological** as well as **civilizational progress**.

Research is conducted in **12 scientific**  disciplines at Lodz University of Technology.





SCIENCE AND RESEARCH

Lodz University of Technology is among 20 Polish universities that implement the "**Initiative of Excellence - Research University**" program.

Participation in this program gives TUL **an additional budget of 2% of the basic subsidy**. These funds enabled the implementation of new measures to improve the quality of research at Lodz University of Technology.

One of them is the introduction of awards supporting the scientific excellence of employees, doctoral students and students.





ICRI-BIOM CENTRE OF EXCELLENCE

The Foundation for Polish Science, in the MAB PLUS competition, awarded a grant to fund **the International Center for Research on Innovative Bio-based Materials (ICRI-BioM) in Łódź.**

This is a claim to fame of a large group of people who prepared the application, and of Lodz University of Technology and Max Planck Institute in Mainz who supported it.

The International Research Agenda will facilitate **above-average research collaboration** and **involve international researchers in the education of students and PhD students.** The Centre will provide excellent opportunities for student placements and doctoral research projects, and may be a source of their funding.





STRATEGY „5G FOR POLAND”

The Ministry of Digital Affairs, in its document „Strategy 5G for Poland” selected **Łódź for a pilot implementation of a 5G network.**

Lodz University of Technology campus will be a testing ground. In addition, on TUL’s campus, a **competence centre** will be opened where start-ups will have the opportunity to test their products in relation to **5G technology.**

The document was signed by the Ministry of Digital Affairs, the Office of Electronic Communications, and the National Institute of Telecommunications.





STRATEGY „5G FOR POLAND”

The „Akcelerator technologii 5G” project is aimed at providing conditions for the development of **5G innovation for business**.

An agreement has been signed by the Łódź Special Economic Zone (ŁSSE), Lodz University of Technology, Office of Electronic Communications, Ericsson, and Play

– P4 Sp. z o.o. mobile network operator.

The ŁSSE has been granted 14 million złoty for start-up support from the **Regional Operational Program for Łódzkie Voivodeship**.





Lodz University of Technology

TECHNOLOGY TRANSFER





SCIENCE AND RESEARCH



3rd

place in the ranking of the Polish Patent Office among Polish universities according to the number of patents granted in 2019



410

patents obtained at the Polish Patent Office



400

inventions filed for legal protection at the Polish Patent Office



9

utility models filed for legal protection at the Polish Patent Office



13

trademarks filed for legal protection at the Polish Patent Office



12

protection titles obtained in foreign patent offices



SUPPORT FOR RESEARCHERS

Lodz University of Technology implements an **active policy of intellectual property management** in the process of technology development and commercialization and in research project management.

Center for Technology Transfer - a University company which coordinates transfer and implementation of technologies and solutions for industry. It is the first technology transfer company in Poland operating within the University.

- over 50 laboratories equipped by industry
- 450 R & D projects carried out in collaboration with 230 business partners





ICT CENTRAL POLAND CLUSTER

Owing to the initiative of Lodz University of Technology, the **ICT Central Poland Cluster** was instituted that brings together **40 ICT enterprises** and **three largest universities in Łódź**: Lodz University of Technology, the University of Lodz, and the University of Social Sciences.

Companies associated in the Cluster have a total **headcount of 17 000**.

The mission of the ICT Central Poland Cluster is to **represent and integrate broadly understood ICT industry** encompassing representatives of business, academia and business environment institutions locally, nationally and internationally in order to enhance its standing in the region, **create conducive conditions for its further dynamic growth, and joint projects**.





Lodz University of Technology



TUL FOR COMMUNITY



TUL FOR COMMUNITY

TUL was one of the first higher education institutions in Poland to become a signatory to **the Declaration of Social Responsibility of the University**, which contains 12 principles relating to various aspects of the functioning of the university, didactic and scientific activities, internal organisation and dialogue with the local community.

In the academic community of TUL the most important values are: **community, creativity, respect for freedom and rights.**

The research work being carried out at Lodz University of Technology **responds to social problems**, translates into **the development of medical science, improves the quality of life, enhances environmental protection** and **contributes to technological progress.**





TUL FOR COMMUNITY

In 2008, **TUL's Children's University** welcomed its first students. The only children's university operating within a technical university, it sets only one admission requirement: that its students be 7 to 12 year old. Its mission is to inspire children's curiosity and to teach in a simple and fun way.

In 2007, TUL opened its **secondary school**. Most of its graduates go on to study at one of the degree courses offered at TUL.

TUL also has something for seniors. **Third Age University** was established in 2006 with the aim of including the elderly into the process of lifelong learning in order to empower them psychophysically.





Lodz University of Technology



TUL AND PASSIONS

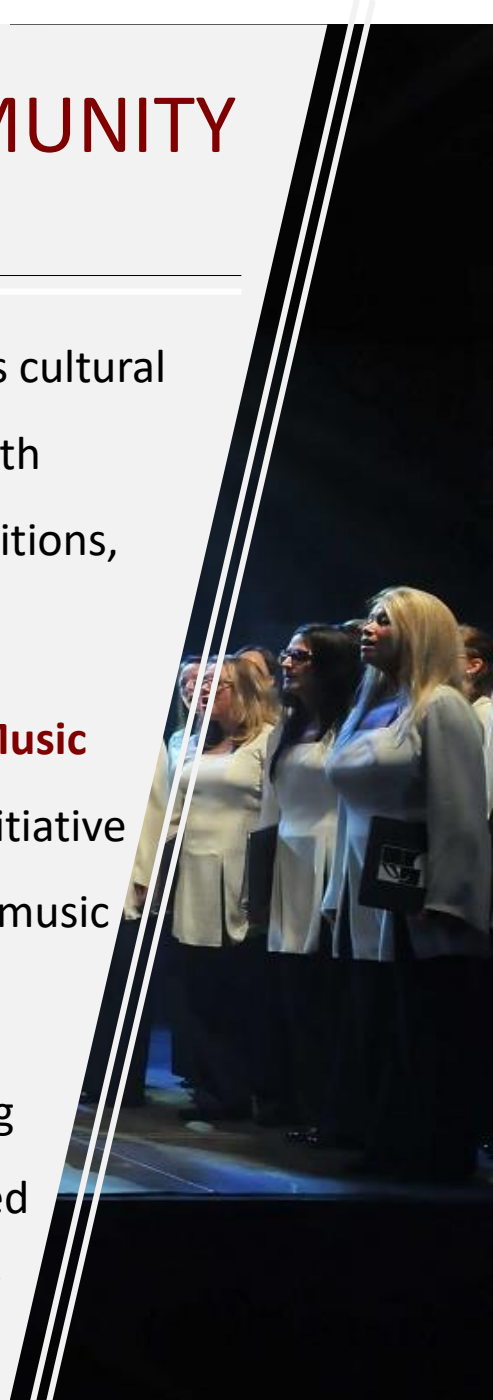


TUL FOR COMMUNITY

Lodz University of Technology is the hub of many events and various cultural activities. For many years, it has been hosting concerts, meetings with interesting personalities from the world of art and culture, art exhibitions, shows, screenings, and festivals.

Classical music concerts have a nearly 30-year tradition. The cycle **Music at Lodz University of Technology** was inaugurated in 1992 on the initiative of Professor Jan Krysiński - the rector at that time. According to the music critics of our city, this cycle is a well-known musical salon of Łódź.

The Thursday Cultural Forum is a monthly meeting with outstanding artists, intriguing personalities, well-known and universally acclaimed artists, including actors, writers, musicians. Over the 15-year history of the meetings, nearly 170 guests have been invited.





OUR INVESTMENTS

SPORTS BAY – ZATOKA SPORTU is one of the most modern sports facilities in Poland:

- 50-metre olympic pool,
- 30-metre moving floor pool,
- 17-metre climbing wall (one of the highest in Poland),
- fitness center,
- entertainment and sports hall,
- outdoor fields for team games and endurance sports,
- training rooms.





OUR INVESTMENTS

Owing to the efforts of Lodz University of Technology and the city authorities, Łódź will host **2022 European Universities Games**.

European Universities Games is **the largest University sports event in Europe** 6000 student athletes from at least 40 countries take part.

As part of the infrastructural development, a new European Universities Games information pavilion will be erected in front of the Sports Bay, whereas an under-ground walkway will connect campus B with the student residential area.





EUROPEAN AND WORLD UNIVERSITY CHAMPIONSHIPS AT ACSD PŁ „ZATOKA SPORTU”



LODZ 2019

EUROPEAN UNIVERSITIES
BADMINTON CHAMPIONSHIP

EUSA



LODZ 2019

EUROPEAN UNIVERSITIES
VOLLEYBALL CHAMPIONSHIP

EUSA



LODZ2022

EUROPEAN UNIVERSITIES
GAMES

EUSA



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