



Lodz University of Technology



**SCIENCE, RESEARCH, INNOVATION
LODZ UNIVERSITY OF TECHNOLOGY**



AWARDS AND DISTINCTIONS

Lodz University of Technology is ranked in the two most prestigious and most frequently referred to university rankings:

- the QS World University Ranking,
- Times Higher Education World University Rankings 2021.

The rankings are prepared by Quacquarelli Symmonds.





AWARDS AND DISTINCTIONS



The Lodz University of Technology has been classified in the **Academic Ranking of World Universities (ARWU)** (the so-called Shanghai Ranking) in two disciplines:

- **biotechnology** (the ranking took into account 500 universities, including only 2 Polish universities),
- **mechanical engineering** (400 universities were classified in the ranking, including 8 Polish universities).

The Academic Ranking of World Universities is considered the most recognizable and prestigious international ranking.



AWARDS AND DISTINCTIONS



Lodz University of Technology is the first university in Poland to have been awarded institutional accreditation by the **French Supreme Council for the Evaluation of Scientific Research and Higher Education**. The HCÉRES certification is a confirmation of the high quality of education, research, and management.



Lodz University of Technology, as one of three Polish universities of technology, has been ranked for the first time in the **RUR (Round University Ranking) World University Rankings**.



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Leaders in University
Management

[NAGRODY I WYRÓŻNIENIA]

- The **ELSEVIER Research Impact Leaders Award** is granted to outstanding research institutions that make the greatest impact on scientific research and contribute to the promotion of Polish science in the world.
Lodz University of Technology has been awarded in the category of Agricultural Sciences.
- The **LUMEN. Leaders in University Management Awards** for Lodz University of Technology in the category of Management.



URZĄD PATENTOWY

RZECZYPOSPOLITEJ POLSKIEJ



HR EXCELLENCE IN RESEARCH

[AWARDS AND DISTINCTIONS]

- Lodz University of Technology ranks **3rd** among Polish universities in the number of patent applications filed and granted.
Lodz University of Technology filed **97 patent applications**, all of which were granted.
- The European Commission awarded the **HR Excellence in Research** badge to Lodz University of Technology for ensuring attractive work and development conditions for researchers, which confirms that the University abides by the principles set down in the European Charter for Researchers and Code of Conduct for the Recruitment of Researchers. TUL is the first university of technology and the third academic school in Poland to be recognized by the EC.



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.



SCIENCE AND RESEARCH

„Advanced technologies of sustainable development” is the principal theme of research conducted at TUL.

It encompasses 6 major research areas:

- **Advanced materials technologies.**
- **Energy, environment and infrastructure.**
- **Information technologies.**
- **Production, human resources and finance management systems.**
- **Industrial biotechnology.**
- **Biomedical engineering.**



[UNIVERSITY FUNDING]

- The University won nearly **185 468 500 zł** in grants from MNiSW, NCN, NCBiR (in the years 2013 – 2017).
- In 2017, Lodz University of Technology received an annual lump-sum state grant of **16 944 000 zł** for the statutory activity.
- In 2017, **211 projects funded under different Operational Programmes were under way** at the University.



THE LARGEST GRANTS

- Przetwarzanie biomasy odpadowej w skojarzonych procesach biologiczno-chemicznych**
An NCBR grant of nearly 30 000 000 zł.
- Innowacyjna instalacja produkująca wodór i metan metodą mikrobiologiczną z odpadów i produktów ubocznych przemysłu cukrowniczego wraz z zastosowaniami otrzymywanych gazów i zapewnieniem samowystarczalności energetycznej oczyszczalni ścieków w cukrowni**
An NCBR grant of over 18 500 000 zł.
- Nowatorski system do oceny i rehabilitacji zaburzeń układu równowagi.**
An NCBR grant of over 13 000 000 zł.



INNOVATIONS DEVELOPED AT TUL

- Polimerowe kompozyty ceramizujące poprawiające ogniodporność budynków i zwiększające bezpieczeństwo użytkowników.
[More information](#)
- Endoskop o wydłużonym zasięgu wykorzystywany m.in. w leczeniu układu pokarmowego. [More information](#)
- System odczytywania kolorów przy pomocy dźwięków w oparciu o sensor ruchu i algorytm mapowania obrazów na dźwięk.
[More information](#)
- Technologia granulacji nawozów do specyficznych potrzeb upraw.
[More information](#)
- Technologia pokrywania ziaren piasku powłoką chroniącą przed przenikaniem wody. [More information](#)



INNOVATIONS DEVELOPED AT TUL

- Biodegradowalne opakowania oceniające jakość zawartych w nich artykułów spożywczych, medycznych i codziennego użytku.
[More information](#)
- Urządzenie umożliwiające efektywne mierzenie właściwości hydrofobowych papieru. [More information](#)
- Opaska kontrolująca nawodnienie organizmu człowieka.
[More information](#)
- Odzież pielęgnacyjna lecząca dolegliwości dermatologiczne.
[More information](#)
- Gry wspierające medycynę m.in. stymulujące funkcje poznawcze u seniorów. [More information](#)



AWARDS AND DISTINCTIONS

TUL's researchers won 20 medals (17 gold ones, 2 silver ones and 1 platinum) during innovation fairs and exhibitions including:

- International Invention Design Competition in Hong Kong,
- EUROINVENT in Romania,
- SEOUL INTERNATIONAL INVENTION FAIR (SIIF) in Seoul,
- International Exhibition of Inventions in Geneva,
- 10th International Invention and Innovation Show in Katowice
- International Warsaw Invention Show IWIS 2017.



TUL RESEARCH OUTPUT

In the years 2015-2019 TUL's scientists produced:

- **5 135 publications** indexed in the Web of Science Core Collection,
- **3 639 publications** in journals that currently have an impact factor,
- **Index Hirscha - 47.**

In total, the publications have received **27 570 citations** and are indexed in the Web of Science Core Collection.



CONFERENCES ORGANIZED BY TUL

- 15th International conference "Dynamical Systems – Theory and Applications"
- 20th European Meeting on Environmental Chemistry EMEC20
- 25th International Symposium on Separation Sciences
- 19th International Symposium on Electromagnetic Fields in Mechatronics, Electrical and Electronic Engineering
- MIXDES, Mixed Design of Integrated Circuits and Systems
- MicroTherm – Microtechnology and Thermal Problems in Electronics
- INPAP2019 The Future of Papermaking
- Recent Advances in Nonlinear Mechanics 2019
- Workshop on Progress in Nanotechnology and Optoelectronics



SCIENCE IN FACULTIES



Faculty of Mechanical Engineering

[More information](#)



Faculty of Electrical, Electronic, Computer and Control Engineering

[More information](#)



Faculty of Chemistry

[More information](#)



Faculty of Material Technologies and Textile Design

[More information](#)



Faculty of Biotechnology and Food Sciences

[More information](#)

Faculty of Civil Engineering, Architecture and Environmental Engineering

[More information](#)

Faculty of Technical Physics, Information Technology and Applied Mathematics

[More information](#)

Faculty of Management and Production Engineering

[More information](#)

Faculty of Process and Environmental Engineering

[More information](#)





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.



INTERNATIONAL DOCTORAL SCHOOL

- **International Doctoral School (IDS)** is to promote education in the English language and development of scientific research.
- IDS assists doctoral candidates in the choice of and liaising with research supervisors who provide scientific guidance. It also helps its participants raise their competences (including foreign language) to the level sufficient for doing research or pursuing a doctoral degree.
- IDS participants are students who come from, among others, **Ukraine, India, Iran and China**.



[POPULARIZATION OF SCIENCE]

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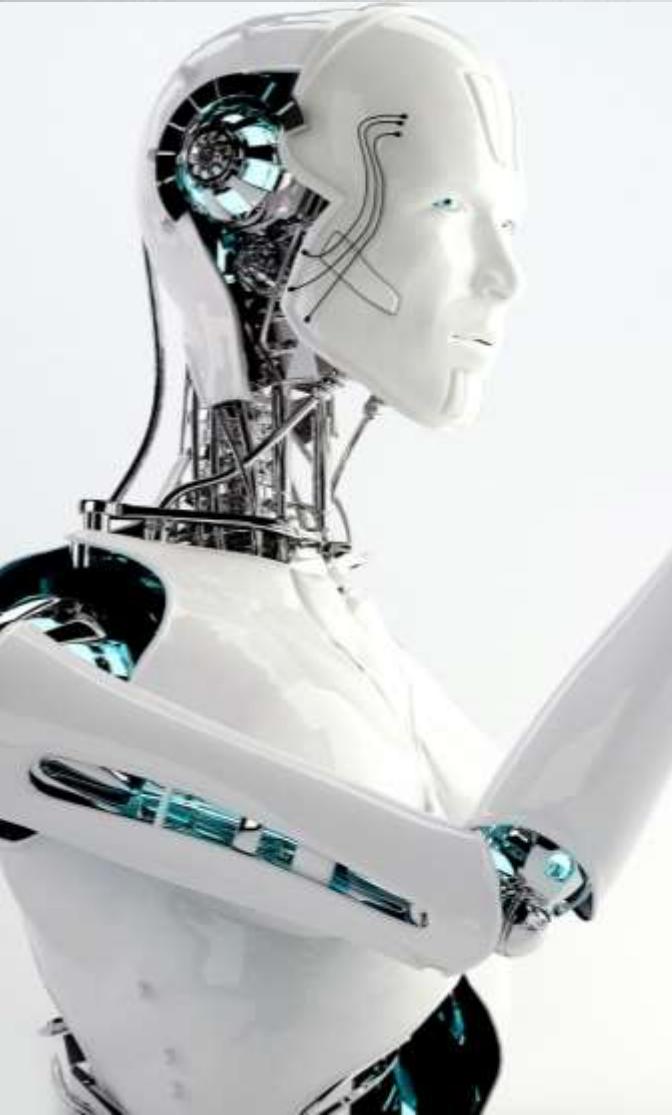


**DLACZEGO WARTO
BYĆ NAUKOWCEM?**

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