WHAT MAKES US STAND OUT?

- **211** projects carried out in 2017
- **856** inventions and utility models filed in 2008-2017
- **612** PhD students
- **221** professors
- **532** patents granted in 2008-2016
Lodz University of Technology is ranked in the two most prestigious and most frequently referred to university rankings:

- the QS World University Ranking,

The rankings are prepared by Quacquarelli Symonds.
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.
Lodz University of Technology ranks 3rd among Polish universities in the number of patent applications filed and granted. In 2017, 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.
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.
‘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.
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 SINCE 2016

• 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 otrzymanych 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 ognioodporność 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 poznawczych u seniorów.  More information
In 2017, 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.
In the years 2013-2017 TUL’s scientists produced:

- **4 500 publications** indexed in the Web of Science Core Collection,

- **3 334 publications** in journals that currently have an impact factor,

- **3 345 publications** in journals that are currently listed on the Thomson Reuters master journal list.

In total, the publications have received **14 541 citations** and are indexed in the Web of Science Core Collection.
In 2017, the University organized over 50 scientific conferences.

Conferences with the highest attendance:

• 7th International Conference ‘Smart Engineering of New Materials’,
• DSTA 2017. Dynamical Systems - Theory and Applications,
• EEIA, 18th International Symposium on Electromagnetic Fields in Mechatronics, Electrical and Electronic Engineering,
• 18th International Conference ‘Computational Problems of Electrical Engineering’.
Faculty of Mechanical Engineering  
More information

Faculty of Electrical, Electronic, Computer and Control Engineering  
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Faculty of Chemistry  
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Faculty of Material Technologies and Textile Design  
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Faculty of Biotechnology and Food Sciences  
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Faculty of Civil Engineering, Architecture and Environmental Engineering  
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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
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.

- **Interdisciplinary School of Innovation (ISI)** is a programme aimed to stimulate, support and encourage academic entrepreneurship and creation of new, innovative, marketable solutions. Its activity is expected to result in spin-off companies and enable preincubation of ideas with a market potential.
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.

- In 2015, the International Doctoral School won in the Leaders in University Management LUMEN 2015 competition in the category of ‘Internationalization’.
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