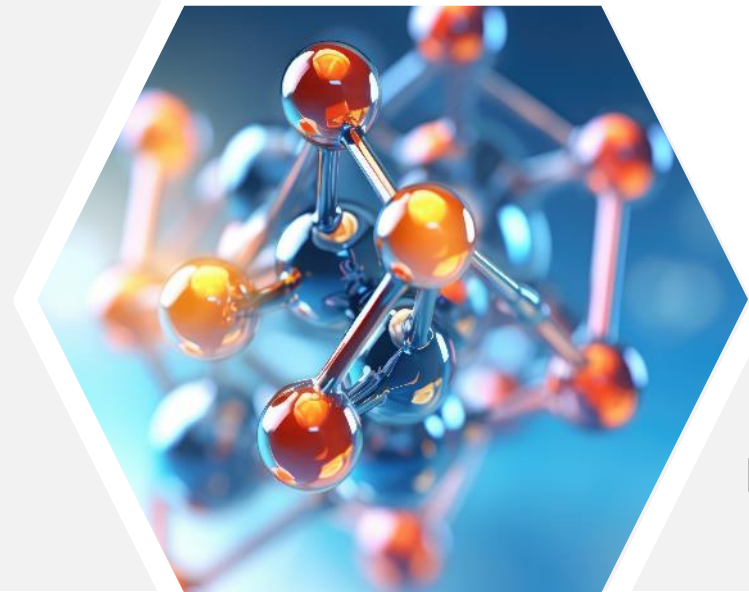


Faculty of Chemistry



Faculty
of Chemistry

pwr.edu.pl/en



Wrocław University
of Science and Technology



HR EXCELLENCE IN RESEARCH



unite!

University Network for Innovation,
Technology and Engineering



History of the Faculty

The history of the Faculty of Chemistry at Wrocław University of Science and Technology started in **1945** when, along with three other faculties, was the core of just lunched after the II World War Technical University in Wrocław.

Among “fathers” of the Faculty were professors **Edward Sucharda**, **Włodzimierz Trzebiatowski**, **Edwin Płazek**, **Bogusława Jeżowska-Trzebiatowska** and **Franciszek Nowotny**. Their hard work and faith that a difficult afterwar reality could be changed, seeded the idea of opening the Faculty of Chemistry which kept growing in years, blooming currently as the biggest chemistry department in Poland.





Wrocław
University
of Science
and Technology

Faculty on the Campus

Faculty of Chemistry

4/6 Norwida st.

50-374 Wrocław

building C-6

wch.pwr.edu.pl/en/



Faculty
of Chemistry



Faculty locations





Strategy





Faculty Leadership



Dean

Prof. Piotr Rutkowski



General Affairs

Prof. Jarosław Myśliwiec



External Relations

Prof. Marcin Sieńczyk



**Community
Development
and Integration**

Prof. Rafał Latajka



Education

Prof. Joanna Cabaj



Student Affairs

Prof. Agata Łamacz





Faculty Structure

**Institute
of Advanced Materials (I01)**

**Department of Biochemistry,
Molecular Biology,
and Biotechnology (K13)**

**Department of Analytical
Chemistry and Chemical
Metallurgy (K14)**

**Department
of Biological Chemistry
and Bioimaging (K15)**

**Department
of Bioorganic Chemistry (K16)**

**Department of Physical
and Quantum Chemistry (K17)**

**Department of Organic
and Medicinal Chemistry (K20)**



**Department of Bioprocess
Engineering, Micro-and
Nanoengineering (K21)**

**Department of Polymer Engineering
and Technology (K23)**

**Department of Soft
Matter Optics
(K93)**

**Department of Chemical Process
Engineering and Technology
(K24)**

**Department of Process
Engineering and Technology
of Polymer and Carbon Materials
(K25)**

**Department of Advanced
Material Technologies
(K26)**



Figures

195

Academic staff
including

35

Full professors



Faculty
of Chemistry

1050

1st degree students
(full-time + part-time)

350

2nd master's degree

58

Associate
or visiting professors

104

International
Students

1st – 50

2nd – 54

12

Scientists
in the TOP 2% list
of most influential
researchers
in the world

178

PhD Students

13

Departments

227

Projects (ongoing)

~50M €



Academic rankings



Chemical Engineering

251-300

Chemistry

401-450

Material Sciences

201-250



Chemical and Process Engineering

three years in a row
the best educational
program in Poland

Biotechnology

Chemical Technology

Chemistry and Material Engineering

3rd place



Chemical Engineering

29th in Europe





Wrocław
University
of Science
and Technology

Achievements



Radosław Gaida, MSc., Eng.
Jacek Gawroński Award (2024)

Prof. Paulina Kasperkiewicz-Wasilewska
Award for Scientific Achievements (2024)



Ministry
of Education
and Science

Małgorzata Ewa Mielczarek (2023)
Julia Anna Goszyk (2023)
Michał Wyskiel (2023)



**Foundation for
Polish Science**

„Polish Nobel”
Prof. Marek Samoć (2016)
Prof. Marcin Drąg (2019)



Scholarship of the Wrocław City Council

Julia Janas (2023)
Aleksander Opacki (2023)
Hanna Łochowska (2024)

**Jarosław & Renata
Szynkarczuk’s Award
for the best student in
the field of materials
engineering**

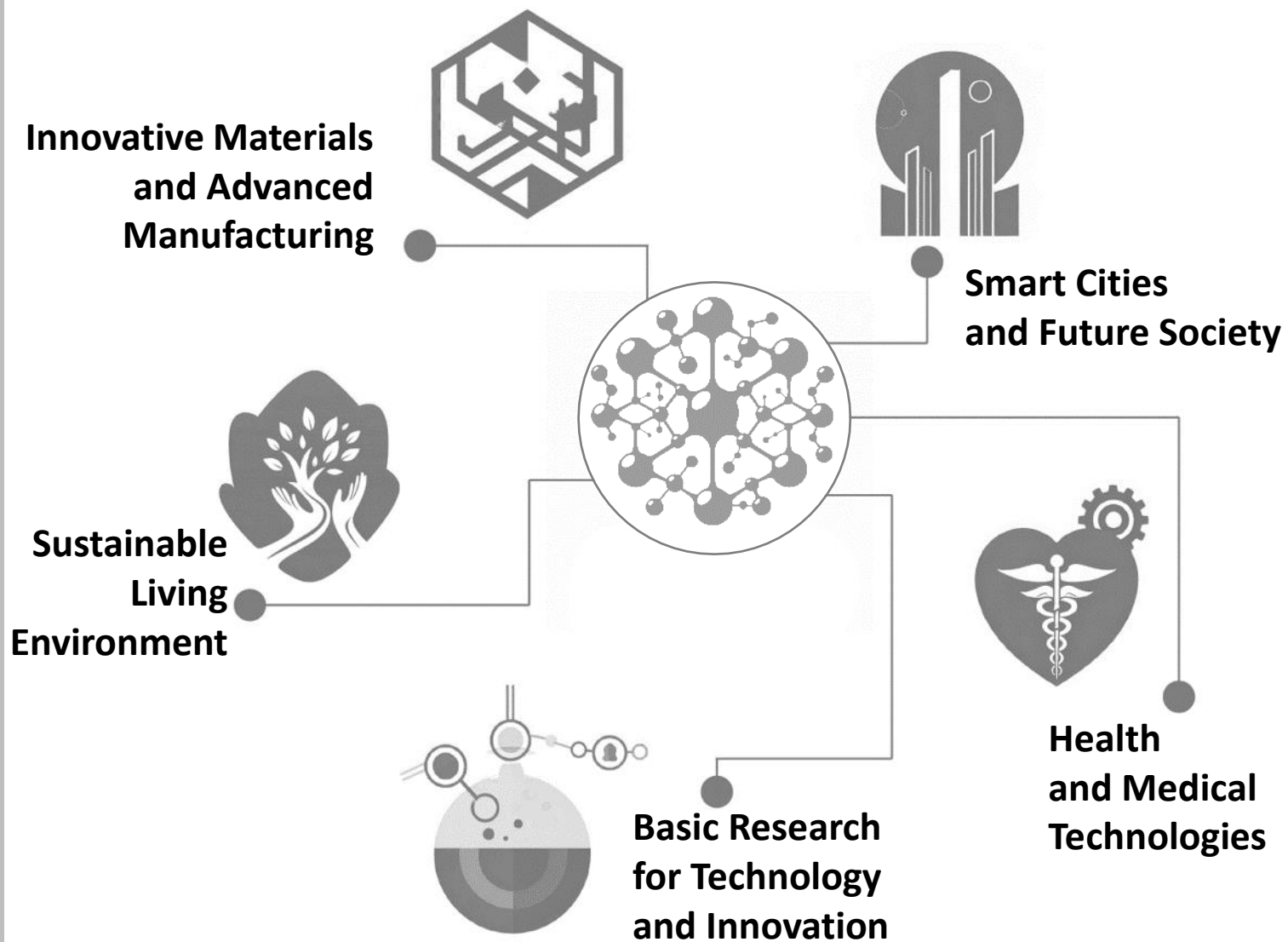
Marek Adaszyński (2023)
Katarzyna Latacz (2023)
Dawid Mazur (2024)
Katarzyna Latacz (2024)
Alicja Matusiak (2024)



Faculty
of Chemistry



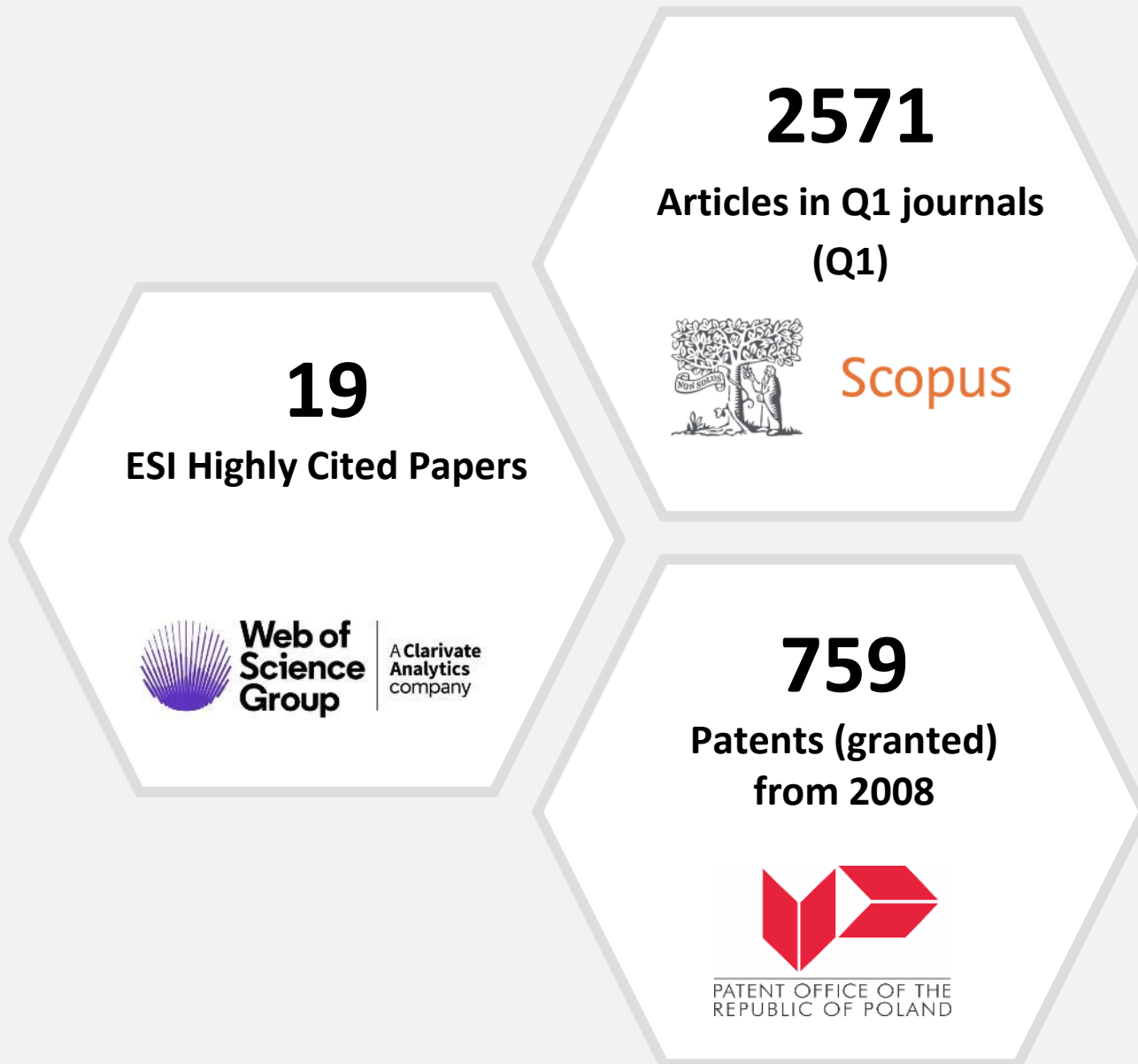
Priority Research Areas





Wrocław
University
of Science
and Technology

Publications and patents



Faculty
of Chemistry



Research achievements

14 life-time

Prof. Katarzyna Chojnacka
Prof. Paweł Pohl
Prof. Grażyna Gryglewicz
Prof. Marek Samoć
Prof. Izabela Michalak
Prof. Anna Witek-Krowiak
Prof. Stanisław Gryglewicz
Prof. Andrzej Trochimczuk
Prof. Marek Bryjak
Prof. Jolanta Bryjak
Prof. Józef Oleksyszyn
Prof. Łukasz Berlicki
Prof. Piotr Rutkowski
Prof. Leszek Rycerz



12 in 2023

Prof. Katarzyna Chojnacka
Prof. Izabela Michalak
Prof. Paweł Pohl
Prof. Anna Witek-Krowiak
Sławomir Porada, PhD, Eng.
Prof. Grażyna Gryglewicz
Prof. Marcin Poręba
Prof. Irena Maliszewska
Anna Siekierska, PhD, Eng.
Prof. Marcin Drąg
Jan Zaręba, PhD, Eng.
Prof. Łukasz Berlicki





Laboratories Science-Industry Meeting Place

Accredited Multielemental Analyses Laboratory



ICP-MS X Series 2 Mass spec
Optical Emission Plasma ICP-OES spec
ICP-OES iCAP 6500 Duo and Radial
UV-Vis Evolution 220 spec
Mercury Analyzer AMA-254
CN Elemental analyzer
Microwave decomposition



Spectrochemical Microanalysis Laboratory



UV-VIS Specord 210 Plus
Atomic Absorption Spectrometer
Microplanet Grinder Pulverisette 7
Cryogenic grinder/pulverizer
Multiwave Pro Microwave Mineralizer

food industry
chemical industry
municipal economy
agriculture
medicine
forensics
pharmaceutical industry
environment
biotechnology
energy industry

Central Laboratory

Proteomics
LC-MS/MS (ESI-Q-TOF-MS/MS)
NMR (400, 600, 800 MHz)
FPLC Akta Pure with MALS
Rapid N Cube
Flash (Nextgen 300+)
Zetasizer ULTRA
XRF spec



Engineering and Advanced Materials Laboratory

Raman spectrometer
(dispersive module and FT-Raman)
Modular High Temperature
Calorimeter
Instron® Testing Machine
Model 5966
Nanoscope
Multi-station reaction system for
Hydrothermal Synthesis





Wrocław
University of
Science
and Technology

Research Projects

3

projects



10

projects



19

projects



12

projects



10

projects



6

projects



92

projects



39

projects



2

projects



2

projects



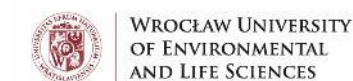
2

projects



2

projects



Faculty
of Chemistry



Wrocław
University
of Science
and Technology

Cooperation with Industry



Centralne Laboratorium
Ochrony Radiologicznej



Faculty
of Chemistry



Wrocław
University
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and Technology

Cooperation with Industry

Genentech

A Member of the Roche Group



SOVIGO



3M



Faculty
of Chemistry



Wrocław
University
of Science
and Technology

Cooperation with Academia



Suzuka
University



LUND
UNIVERSITY



MONASH
University

EMBL



TECHNISCHE
UNIVERSITÄT
DARMSTADT

UTHealth
Houston



UNIVERSITÄT
BIELEFELD



INSTITUTO
GONÇALO MONIZ
FIOCRUZ BAHIA



UGA
Université
Grenoble Alpes



NAZARBAYEV
UNIVERSITY



UNIVERSITATEA
BABEŞ-BOLYAI



Inserm



Faculty
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Cooperation with Academia



Faculty
of Chemistry



Wrocław
University of
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and Technology

Conferences

**48th edition of the Scientific and Technical
Seminar, November 2024**

**CHEMISTRY
FOR AGRICULTURE
AND HUMAN HEALTH**

**PhoBiA Annual Nanophotonics
International Conference, May 2024**

PANIC

**Chemistry & Biotechnology
International Conference, June 2023**

ChemBiotIC

Chemistry & Biotechnology International Conference

**10th Seminar on Advances in the Synthesis
of Non-Racemic Compounds, October 2020**



Department of Organic
and Medicinal Chemistry

**10th Congress of Chemical Technology,
May 2022**

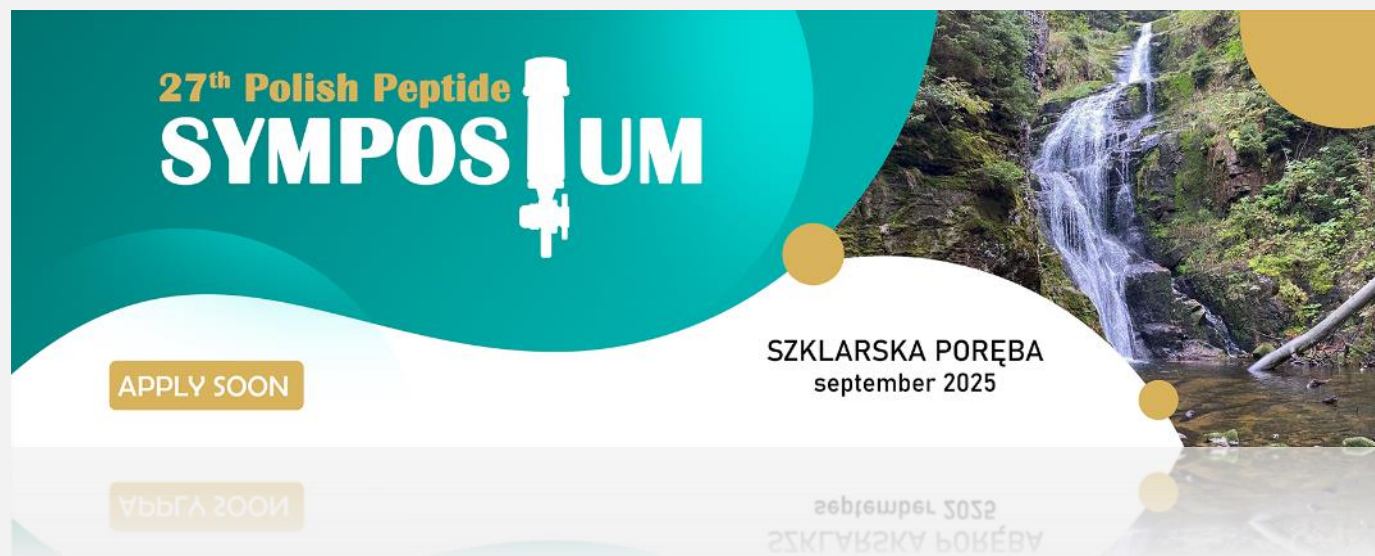


Faculty
of Chemistry



Upcoming Conferences in 2025

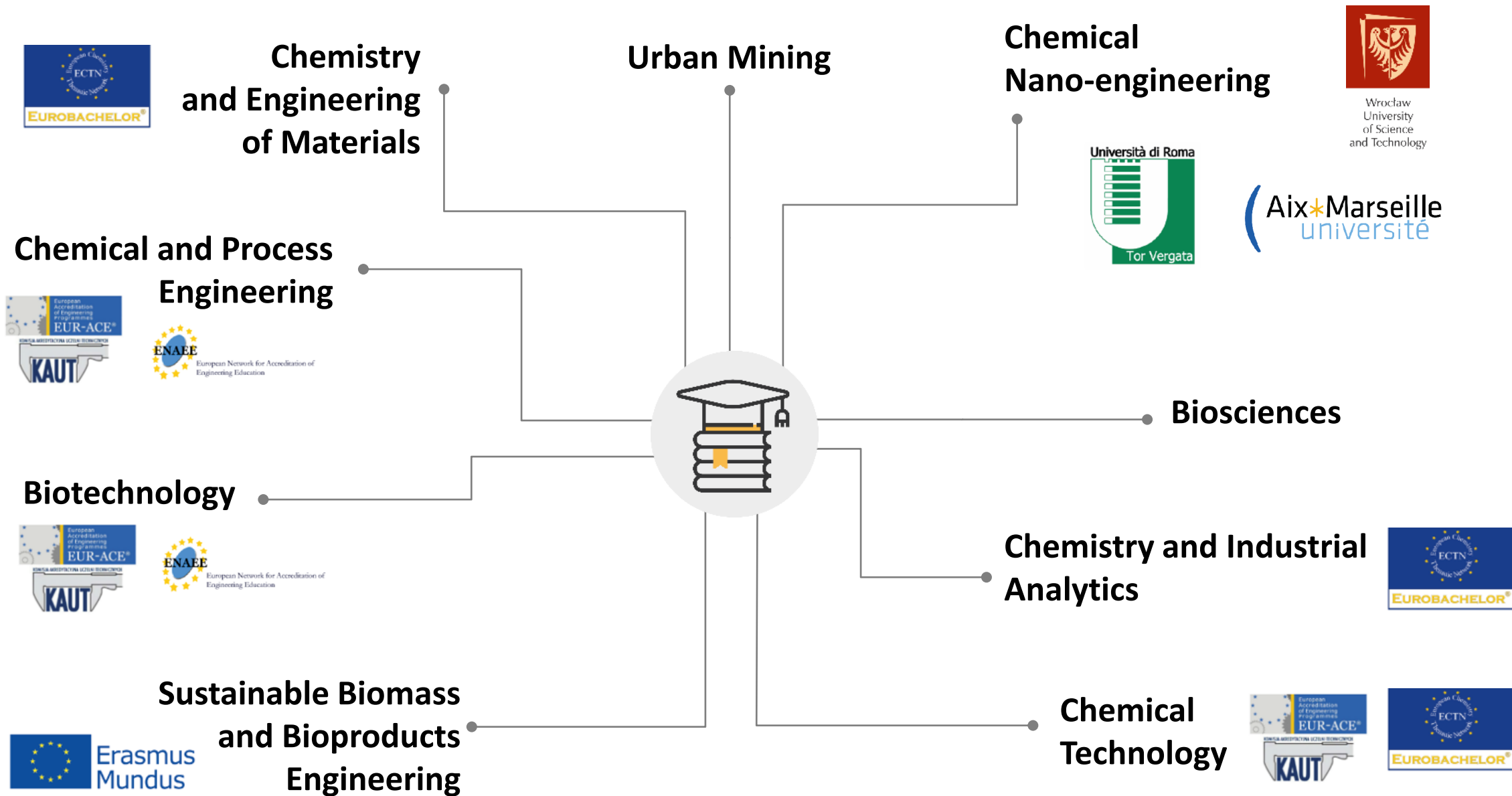
- 67th Scientific Congress of the Polish Chemical Society
- 27th Polish Peptide Symposium





Wrocław
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Educational Programs



Faculty
of Chemistry



Wrocław
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Educational Activity



**PANIC 2024 Conference
Summer School**



**Postgraduate studies
Cosmetics products
technology**



**Organic Chemistry
Summer School**



**Chemical Nano-engineering
Summer School**



Faculty
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Wrocław
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Teaching Projects

21

Students

**Sustainable Biomass
and Bioproducts Engineering**



23

Students

**Chemical
Nano-engineering**



Wrocław
University
of Science
and Technology



mobility

excellence

innovation

diversity

complementarities



Faculty
of Chemistry



Educational Labs

- Laboratory of Biochemistry
- Laboratory of Chemical Engineering
- Laboratory of Chemical Technology
- Laboratory of Clinical Diagnostics
- Laboratory of Genetic Engineering
- Laboratory of Inorganic and Analytical Chemistry
- Laboratory of Microbiology
- Laboratory of Organic Chemistry
- Laboratory of Physical Chemistry
- Laboratory of Polymers
- Laboratory of Technology Chemistry





Educational Partnerships

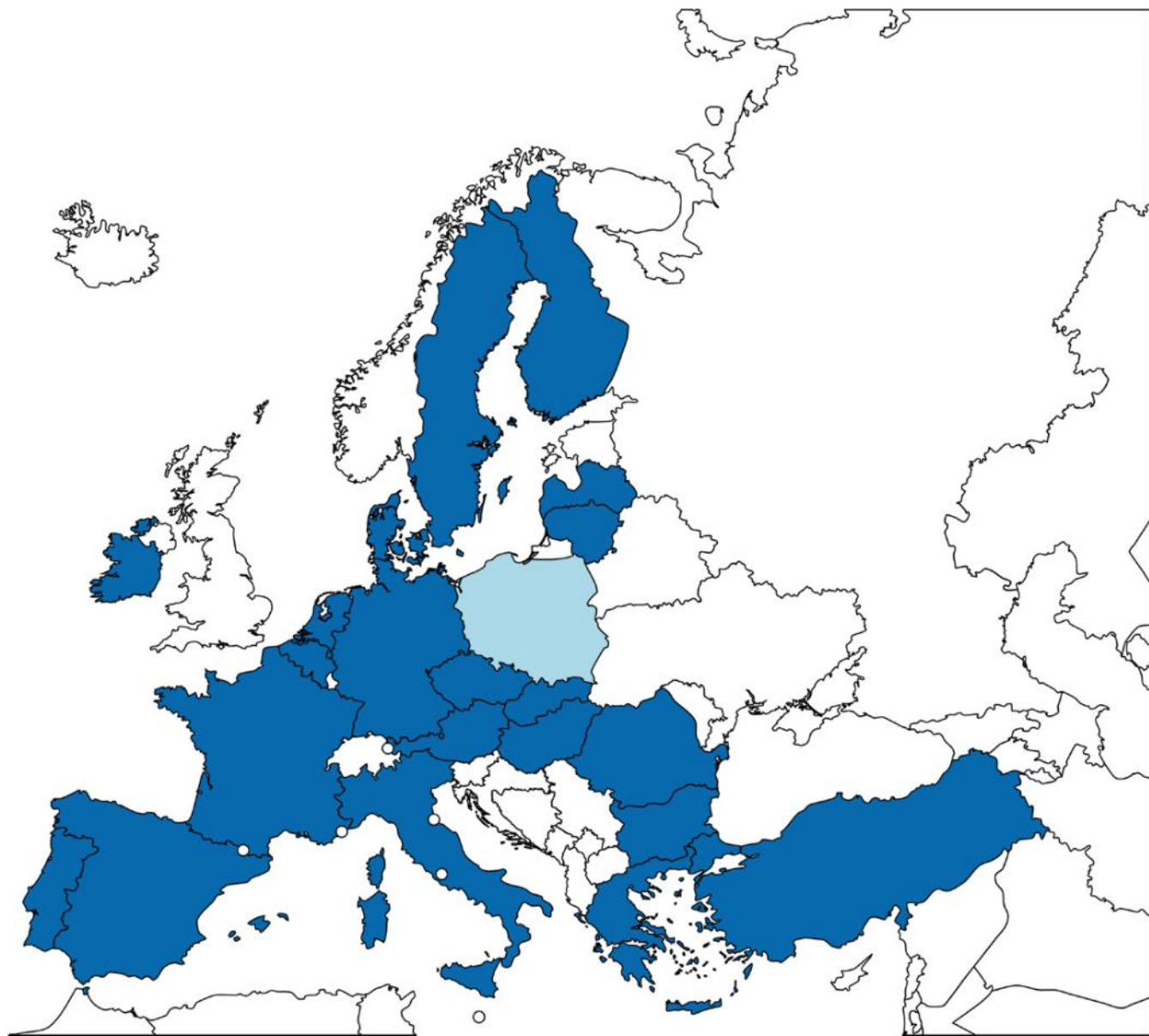


Co-funded by
the European Union

21 EU countries

91 Universities

112 Agreements



International Networking



Paul Ehrlich MedChem
Euro PhD Network

(since 2020)

65 Universities (5 from Poland)

Main goal: research training and mobility of PhD students in the area of Medicinal Chemistry at European level.



unite!

University Network for Innovation,
Technology and Engineering

(since 2022)

9 Universities (1 from Poland)

Main goal: engineering education for modern world





Wrocław
University
of Science
and Technology

International Networking



European Universities Collaborative
Links Developments in Engineering
Sciences.

(since 2023)



Faculty
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Wrocław
University
of Science
and Technology

Blended Intensive Programmes (BIPs)

**Department of Process Engineering
and Technology of Polymer
and Carbon Materials (K25)**

Design and Engineering of Sustainable
Materials, DESUM 2024

Advanced Ceramics Processing
and Innovative Characterisation
ADCERPIC 2023



Co-funded by
the European Union

**Department of Advanced
Material Technologies (K26)**

Circularity of Polymers
2023, 2024



Faculty
of Chemistry



Students Community



- chemical engineering
- technology
- biotechnology
- materials engineering
- chemical analytics



- chemistry
- polymers
- organic synthesis
- plasma applicaion
- emulsions



- chemical technology



- designing chemical equipment
- 3D priting
- computers for engineers



GAMBRINUS

- biology
- physics



PhoBiA
Photonics & Bionanotechnology Association

- photonics
- chemistry
- biotechnology



- biotechnology





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4/6 Norwida st.

50-374 Wrocław

building C-6

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