

Cracow University of Technology  
Faculty of Mechanical Engineering  
Institute of Materials Engineering



# Cracow University of Technology

CUT: Facts and  
Figures

University  
Structure

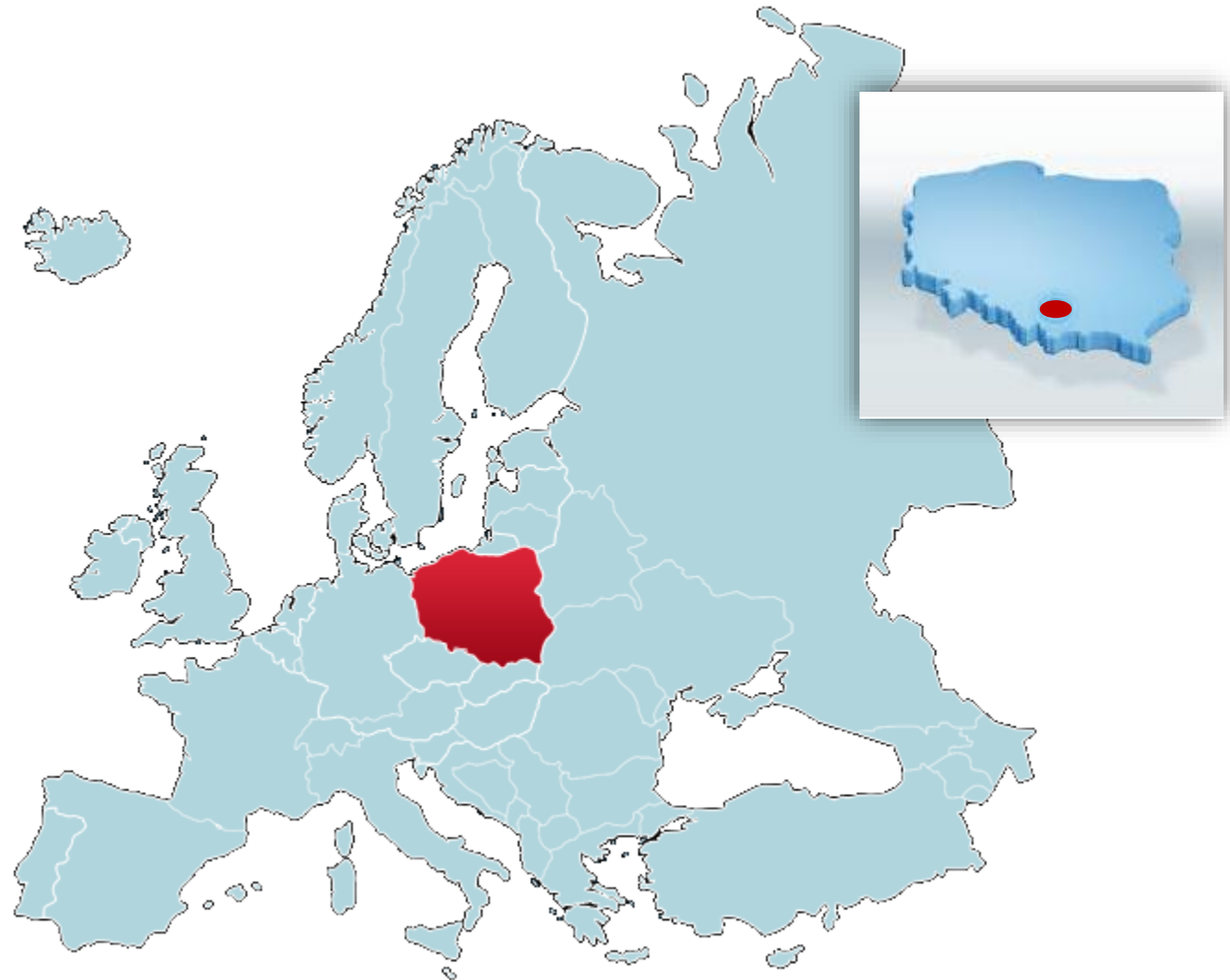
Faculty of  
Mechanical  
Engineering

Institute of  
Materials  
Engineering

Laboratories

Cooperation

Projects





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# Cracow University of Technology: fact and figures

## Founded:

in 1954

## Staff members:

more than 2 120

## Number of students:

- Total 17 941
- Full-time students 13 929
- Extramural students 4 012
- Postgraduate students 836
- Doctoral candidates 282

## Units:

- Faculties 7
- Inter-faculty units 11

## Courses of study:

25



# Cracow University of Technology: facts and figures

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## International cooperation:

- Lifelong Learning Programme (LLP)
  - ERASMUS+
  - ERASMUS, TEMPUS
- Bilateral agreement (in 2013 with 38 countries)





# Cracow University of Technology – structure

## 7 Faculties :



Faculty of  
Architecture



Faculty of  
Chemical  
Engineering  
and Technology



Faculty of  
Civil  
Engineering



Faculty of  
Electrical and  
Computer  
Engineering



Faculty of  
Environmental  
Engineering



Faculty of  
Physics,  
Mathematics and  
Computer Science



Faculty of  
Mechanical  
Engineering

## Other units i. a.:

- Centre for Education and Organization of Quality Maintenance Systems
- International Centre of Education
- Pedagogy and Psychology Centre
- Sports and Recreation Centre
- Library of the CUT

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# Faculty of Mechanical Engineering

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# Faculty of Mechanical Engineering

## Staff members:

277

## Number of students:

- Total 4 472
- Doctoral candidates 52

## Courses of study:

- Automation and Robotics
- Mechanical Engineering and Power Engineering
- Computer Science
- Safety Engineering
- Biomedical Engineering
- Materials Engineering
- Industrial Design
- Mechanics and Machine Design
- Transportation
- Management and Production Engineering

**Units: 9 Institutes and 1 Independent Laboratory**

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# Faculty of Mechanical Engineering structure

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1. Institute of Applied Mechanics
2. Institute of Materials Engineering
3. Institute of Machine Design
4. Institute of Automobiles and Internal Combustion Engines
5. Institute of Thermal and Process Engineering
6. Institute of Production Engineering
7. Institute of Computing Science
8. Institute of Rail Vehicles
9. Institute of Industrial Apparatus and Power Engineering
10. Laboratory for Coordinate Metrology





# Institute of Material Engineering

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**Head of the Institute**  
**Prof., PhD, DSc. Janusz Mikuła**

## Department of Materials Technology

- Laboratory of Foundry
- Laboratory of Powder Metallurgy
- Laboratory of Welding

## Department of Engineering Materials

- Laboratory of Materials Science (metallurgy and metal forming)
- Laboratory of Advanced Technology



# Laboratory of Welding

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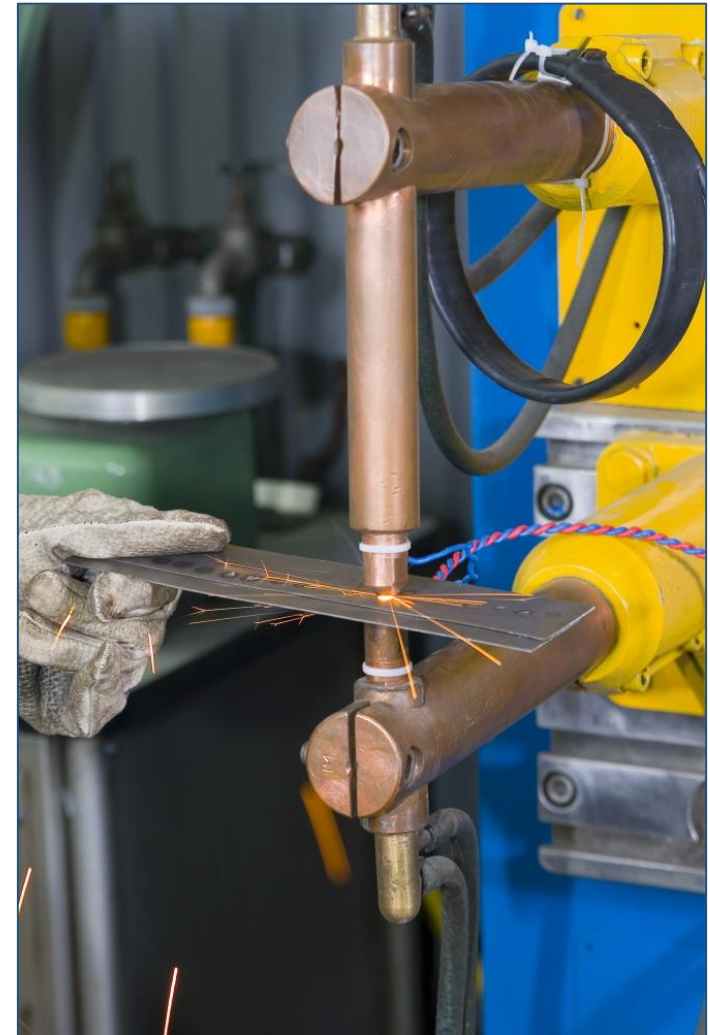
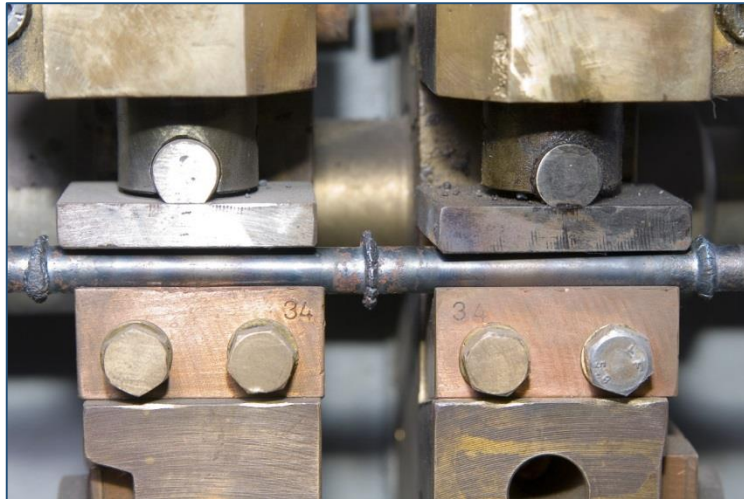
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# Laboratory of Powder Metallurgy

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micro Vickers hardness tester



mixing of powders  
emission spectrometer



# Laboratory of Materials Science

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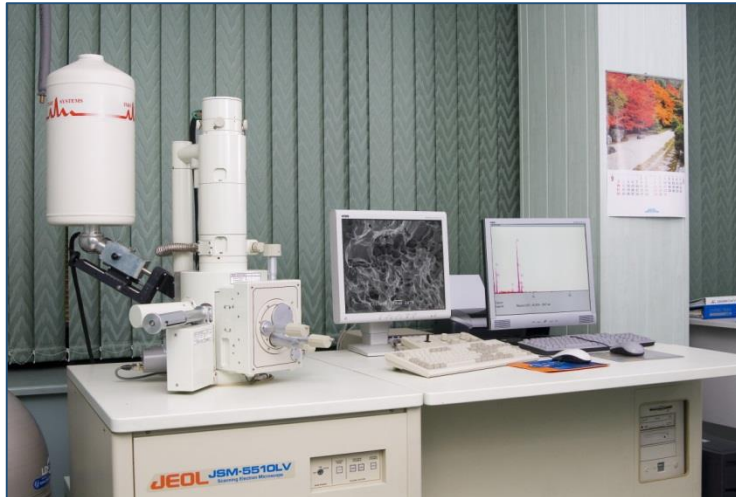
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# Laboratory of Material Science

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diffractometer



Charpy hammer



## Cooperation

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**KZN Biezanów**



**INSTYTUT SPAWALNICTWA**  
Polskie Spawalnicze Centrum Doskonałości



Politechnika Wroclawska



Politechnika Krakowska



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## Ongoing Projects



Tempus



**Modernization of two cycles (MA, BA) of competence-based curricula in Material Engineering according to the best experience of Bologna Process (2014-2016)**



HUMAN CAPITAL  
NATIONAL COHESION STRATEGY

EUROPEAN UNION  
EUROPEAN  
SOCIAL FUND



- 1. PIT Mobile Postgraduate Studies in Collaboration with Industry (2012-2015)**
- 2. Materials Engineering - Engineering Of The Future (2012-2015)**



Narodowe Centrum  
Badań i Rozwoju

**Innovative and Environmentally Safe Methods of Disposal of Dust, Ash and Slag from Waste Incineration Plants and Other Industrial Combustion Processes (2015-2016)**



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## Research Areas:

- Designing advanced materials, especially geopolymers and geopolymer composites,
- Investigating the mechanical properties of the advanced materials (metals, plastic and geopolymers),
- Investigating the influence of fillers/additives to advanced materials (especially plastics and geopolymers),
- Zeolites and their synthesis,
- Optimization of the properties of geopolymer composites used as coating materials,
- Other issues connected with materials science, waste management
- Teaching materials engineering – new didactic approaches





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## Contact

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**Piotr Plichta**

Administrative Officer

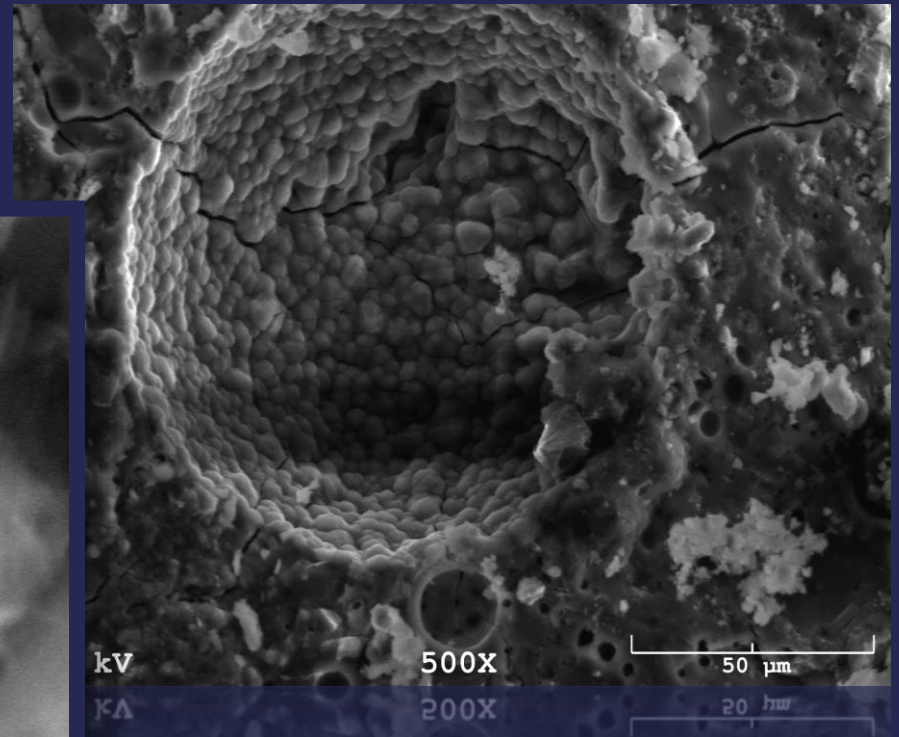
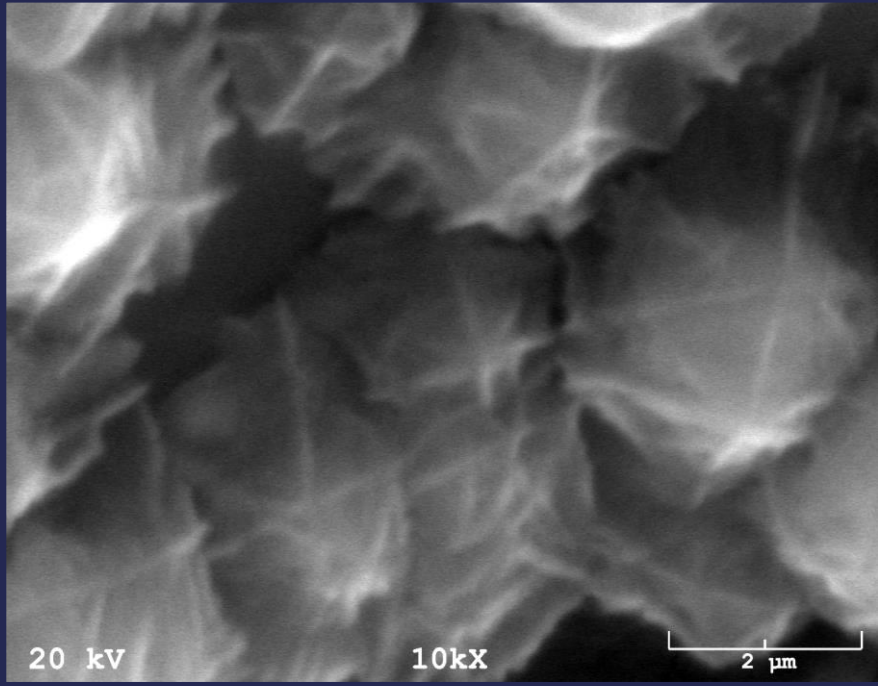
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Thank you for attention