



Co-operation offer



Institute of Thermal Power Engineering
Faculty of Civil Engineering
Cracow University of Technology

Institute of Thermal Power Engineering

Institute of Thermal Power Engineering is providing research and education in the field of energy technologies. The Institute covers a wide area of energy research, from expert works for the power sector, to investigations of the most advanced technologies for energy generation, such as:

- thermal power engineering,
- clean coal and gas technologies,
- renewable and sustainable energy sources.

The advantage of the Institute is the experienced scientific, engineering and technical staff as well as numerous modern laboratory facilities. Institute research team is involved in the realization of various international (COST 538 – High-Temperature Plant Lifetime Extension, TEWI IT Platform – EU Operational Program) and over 40 nationwide research projects.

Scientific activity of the Institute of Thermal Power Engineering results in cooperation with many industrial and scientific partners, at home and abroad, and providing numerous implementation for industry involving

- design, optimization, and monitoring systems for power boilers and critical boiler components,
- inverse heat conduction methods,
- numerical modeling of steam boiler's superheaters by CFD simulations and own codes,
- design, optimization and CFD analysis of heat exchangers
- identification of actual working conditions (measurements: temperature, heat flux, heat transfer coefficient, thermal conductivity, thermal stresses, pollutants emission),
- thermal optimization of AC/DC High and Extra-high Voltage underground transmission lines.

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Scientist + Entrepreneur = Success

If you are planning to develop your company on the basis of the latest scientific findings and you would like to collaborate with experienced scientific experts check the offer of Cracow University of Technology for the industry www.s2b.transfer.edu.pl.

Our online database includes:

- technology offers, patents and industrial designs
- listing of University commercial services including laboratory expertise and research
- database of experts with experience in the implementation of services for the industry

As an internal unit of Cracow University of Technology, our team of consultants is specialized in the commercialization processes. On the other hand long term active cooperation with entrepreneurs allows us to identify precisely industry needs and expectations. Experiences gained through the last two decades on the edge of industry and science collaboration, let TTC formulate optimal models of commercialization and suitable methods of development projects support.



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