



DOCTORAL RESEARCH TOPIC:

Investigation of waste heat recovery
in industrial streams

RESEARCH FIELD:

Energetics and Power Engineering (T 006)

BRIEF DESCRIPTION OF RESEARCH TOPIC:

Students passionate about driving industrial transformation towards sustainability are invited to pursue PhD topics focused on circular economy, waste heat energy recovery in industrial processes. In the face of climate change, efficient use of energy and resources is not only a challenge but also an opportunity to create a sustainable future.

During the PhD studies, students will have the opportunity to tackle real-world industrial challenges by conducting experimental and numerical research, developing new heat exchanger models, and contributing to enhancing industrial competitiveness and achieving sustainability goals.

Why choose this field?

- Opportunity to work with advanced equipment such as two-phase flow research stands and commercial CFD software.
- Participation in international projects and collaboration with industry companies.
- Development of innovative solutions that contribute to industrial sustainability and efficiency.
- Acquisition of valuable experience highly sought after in both academia and industry.

Proposed dissertation topics:

1. Experimental investigation of waste heat recovery using an innovative heat pipe condensing economizer.
2. Numerical investigation of the effect of the non-condensable gases on the condensation process in a condensing economizer.

Join a scientific community dedicated to building a more efficient and sustainable industrial future!

SCIENTIFIC SUPERVISOR:

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offered PhD topics available at our website

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