



# Damian Piotr Muniak

**Academic degrees:** PhD, DSc

**Position:** Prof. CUT

**Engineering - technical field**

**Discipline:** Environmental engineering, mining and energy

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## Academic qualifications:

Academic lecturer

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## Membership in professional and academic boards:

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## Academic merits:

- Over 50 individual scientific and didactic publications, including 6 books published on the Polish and international publishing market.
- Membership and leadership in several research projects.
- Authorship of an invention patented in the Patent Office of the Republic of Poland.
- Attribution of technical solutions for industry.

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## Professional qualifications/language skills:

- Very good knowledge of spoken and written English
- Legal permission to draw up energy performance certificates for a building - entry number in the central register of the Ministry of Infrastructure and Construction: 13508
- Legal permission to control of a heating or air conditioning system - entry number in the central register of the Ministry of Infrastructure and Construction: 1182
- SIMP qualifications in the scope of supervision and operation of:
  - devices that produce, process, transmit and consume heat and other energy devices
- SEP qualifications in the scope of operation of:
  - electrical equipment and installations with a voltage not higher than 15 [kV]
  - generating sets with a power above 50 [kW]
  - control and measurement equipment, and devices and installations for automatic regulation, control and protection
  - measurements of shock protection up to 1 [kV]
- Practical professional experience gained during several years of work in the following positions: product manager, category manager, project manager, lead value engineer - in the HVAC segment, in several domestic and international production, trade and R&D companies and.

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## Research field:

My scientific activity covers the issues of hydraulic and thermo-hydraulic balancing of heating systems, taking into account static and dynamic operation conditions, as well as coupled thermo-hydraulic analysis of devices and elements cooperating with each other in the heating system of a building, as well as issues of thermal comfort in buildings and their energy consumption. In addition, the area of activity includes other sanitary and ventilation systems in buildings, conventional and renewable energy, heat and mass exchange, and thermodynamics.

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**Useful links :**