

Candidate supervisor's information summary form
maximum 2 pages – it should be a summary of most important achievements

Name and surname, degree, title: Krzysztof Tomczuk, Assistant Professor	
Academic discipline/disciplines	– Automatics, Electronics i Electrotechnics – Mechanical Engineering
Professional development (degrees and titles) in chronological order	10.2025 – Associate Professor 04.2020 – Habilitated Doctor 07.2008 – Doctor of Philosophy (PhD) 08.2001 – Master of Science (MSc)
Most important publications/ patents in the last 3 years (maximum 10)	<ol style="list-style-type: none"> 1. K. Tomczuk, P. Tomczuk, M. Chrzanowicz, "Exploring the Feasibility of Autonomous Lighting Systems for Pedestrian Crossings in Off-Grid Areas.", <i>MDPI - Applied Sciences</i>, 2024, 14, 3054. https://doi.org/10.3390/app14073054 2. P. Obstawski, K. Tomczuk, "High-Temperature Two-Stage Subcritical Heat Pump Running on Environmentally Friendly Refrigerants.", <i>Advances in Science and Technology Research Journal</i>, vol. 18, 3, 2024. https://doi.org/10.12913/22998624/187103 3. K. Tomczuk, P. Obstawski, "Analysis of Cooperation of Compressor Heat Pump with PV System", <i>MDPI – Sustainability</i>, 2024, 16(9), 3797; https://doi.org/10.3390/su16093797 4. M. Koniak, P. Jaśkowski, K. Tomczuk „Review of Economic, Technical and Environmental Aspects of Electric Vehicles”. <i>Sustainability</i> 2024, 16, 9849. https://doi.org/10.3390/su16229849 5. K. Tomczuk, P. Obstawski, P. Tomczuk, M. Chrzanowicz, N. Strzelecka "Selected issues related to costs of thermal energy carriers and CO2 emissions for a historic sacral building" <i>Advances in Science and Technology Research Journal</i>, 2025; 19(7), s. 248-266. https://doi.org/10.12913/22998624/202484 6. K. Tomczuk, A. Maciak "Analiza możliwości zasilania punktów mobilnej gastronomii z farmy fotowoltaicznej dużej mocy" <i>Wiadomości Elektrotechniczne</i>, 2025, nr 7, s.3-6. http://dx.doi.org/10.15199/74.2025.7.2 7. K. Górnicki, P. Obstawski, K. Tomczuk "Waste Heat Recovery in the Energy-Saving Technology of Stretch Film Production" <i>Energies</i>, 2025, vol.18, nr 15, s-1-19, https://doi.org/10.3390/en18153957 8. K. Tomczuk, M. Rosiak "Analiza strat ciepła budynku mieszkalnego w kontekście termomodernizacji – stadium

	<p>przypadku” Ciepłownictwo, Ogrzewnictwo, Wentylacja, 2025, zeszyt 7-8. https://doi.org/10.15199/9.2025.7-8.5</p>
<p>Experience in work with doctoral students (defended doctoral dissertations, initiated doctoral procedures) in chronological order</p>	<p>Review of Mr. Marcin Leśko doctoral thesis entitled: "Lighting fixture with a variable light shape", Rzeszów University of Technology, Public defense of the thesis, Rzeszów 09/02/2022.</p>
<p>Achievements in the area of projects/grants (in the last 5 years)</p>	<ul style="list-style-type: none"> - Project manager "Energy storage - Flux system" 2021-2022. Financing institution NCBiR. - Task manager in the project "ELMAR - Supporting South Baltic SMEs is an entry into online supply chains and markets for the sale of electric boats and ships". 2021-2022. Institution financing the Interreg South Baltic programme. - Contractor in the project "e-VAN FCEV - a universal delivery vehicle with an electric drive, category N1 with a hydrogen fuel cell and a modular multifunctional cargo space development". 2017-2021. Financing institution NCBiR.
<p>Subject area of the research project for which the candidate student is being recruited</p>	<p>Subject area: Renewable Energy</p> <p>Integration and optimization of Renewable Energy hybrid energy system, energy storage and intelligent control for home and industrial applications.</p>
<p><u>Contact details:</u> Institute E-mail address Telephone number</p>	<p>Institute of Mechanical Engineering email: krzysztof.tomczuk@sggw.edu.pl tel: 34 613</p>