

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

Name and surname, degree, title: Radosław Winiczenko Ph.D	
Academic discipline/disciplines	mechanical engineering
Professional development (degrees and titles) in chronological order	<p>1998 Master of Science in Engineering: field of study: mechanics and machine construction, Faculty of Mechanical Engineering, Bydgoszcz University of Technology</p> <p>2002 Ph.D.: scientific discipline: machine construction and operation, Faculty of Production Engineering, Warsaw University of Technology</p> <p>2019 Habilitation: scientific discipline: mechanical engineering, Faculty of Technology, University of Warmia and Mazury in Olsztyn</p>
Most important publications/ patents in the last 3 years (maximum 10)	<ol style="list-style-type: none"> <li>1. Winiczenko Radosław, Skibicki Andrzej, Skoczylas Paweł: Multi-Objective Optimisation of Welding Parameters for AZ91D/AA6082 Rotary Friction Welded Joints, Applied Sciences-Basel, 2025, vol. 15, nr 3, s.1-17, PUNKTY=100, IF=2,5.</li> <li>2. Winiczenko Radosław, Skibicki Andrzej: Experimental and FEM Studies of Continuous Drive Friction Welding of Ferritic Spheroidal Graphite Cast Iron, Processes, 2024, vol. 12, nr 4, s.1-16, PUNKTY=70, IF=2,8.</li> <li>3. Winiczenko Radosław, Skibicki Andrzej, Skoczylas Paweł: The Experimental and FEM Studies of Friction Welding Process of Tungsten Heavy Alloy with Aluminium Alloy, Applied Sciences-Basel, 2024, vol. 14, nr 5, s.1-13, 2023, PUNKTY=100, IF=2,5.</li> <li>4. Trajer Jędrzej, Winiczenko Radosław, Dróżdż Bogdan [i in.]: Multi-Criteria Optimization of Energy and Water Consumption in Fruit- and Vegetable-Processing Plants in Poland, Energies, 2023, vol. 16, nr 24, s.1-15, PUNKTY=140, IF=3.</li> <li>5. Winiczenko Radosław, Kaczorowski Mieczysław, Krzyńska Anna [i in.]: TEM Microstructure, Mechanical Properties and Temperature Estimation in the 5XXX Series Al-Mg-Si Aluminum Alloy with W-Ni-Fe Tungsten Composite Friction-Welded Joints, Materials, 2022, vol. 15, nr 3, s.1-17, PUNKTY =140, IF= 3,4.</li> </ol>

Experience in work with doctoral students (defended doctoral dissertations, initiated doctoral procedures) in chronological order	Co-supervisor (open doctoral dissertation, 2018) "Modeling of energy and water consumption in fruit and vegetable processing plants"
Achievements in the area of projects/grants (in the last 5 years)	"Height efficiency compressor heat pump with reduced mass of ecological refrigerant" National Center for Research and Development, (optimization expert), (POIR.01.01.01-00-1538/19), 2021-2023
Subject area of the research project for which the candidate student is being recruited	Multi-criteria optimization using artificial intelligence methods in the following areas: 1. Friction welded magnesium alloy joints. 2. Construction of heat exchangers, heat pumps. 2. Selected technological processes.
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