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

Name and surname, degree, title: Szymon Głowacki, PhD, DSc, Eng.	
Academic discipline/disciplines	Mechanical engineering
Professional development (degrees and titles) in chronological order	MSc - 1994 PhD - 2000 DSc - 2018
Most important publications/ patents in the last 3 years (maximum 10)	Vlasenko Tetiana, Hutsol Taras, Głowacki Szymon, Vlasovets Vitaliy [i in.]: Ensemble learning based sustainable approach to rebuilding metal structures prediction, Scientific Reports, 2025, vol. 15, nr 1, s.1-16. DOI:10.1038/s41598-024-84996-8
	Tryhuba I., Tryhuba A., Hutsol T., Cieszewska A., Andrushkiv O., Glowacki Sz., Bryś A., Slobodian S., Tulej W., Sojak M.: Prediction of Biogas Production Volumes from Household Organic Waste Based on Machine Learning, Energies, 2024, 17(7), 1786. DOI: 10.3390/en17071786
	Kukharets S., Jasinskas A., Golub G., Sukmaniuk, O., Hutsol T., Mudryk K., Čėsna J. Glowacki Sz., Horetska I.: The Experimental Study of the Efficiency of the Gasification Process of the Fast-Growing Willow Biomass in a Downdraft Gasifier, Energies, 2023, 16(2), 587. DOI:10.3390/en16020578
	Kukharets V., Hutsol T., Kukharets S., Głowacki Sz., Nurek T., Sorokin D.: European Green Deal: The Impact of the Level of Renewable Energy Source and Gross Domestic Product per Capita on Energy Import Dependency, Sustainability, 2023, 15(15), 11817. DOI: 10.3390/su151511817
	Sojak M., Głowacki Sz., Tulej W., et al.: The Expert System Supporting Decision-Making in the Process of Vegetable Pests Extermination During Vegetation Period, Agricultural Engineering, 2023, 27(1), 331-348. DOI: 10.2478/agriceng-2023-0024
	Tryhuba I., Hutsol T., Tryhuba A., Agata Cieszewska A., Kovalenko N., Mudryk K., Glowacki Sz., Bryś A., Tulej W., Sojak M.: An Approach to Assessing the State of Organic Waste Generation in Community Households Based on Associative Learning, Sustainability, 2023, 15(22), 15922. DOI: 10.3390/su152215922

	Głowacki Sz., Salamon A., Sojak M., et al.: The Use of Brewer's Spent Grain after Beer Production for Energy Purposes, Materials, 2022, 15(10), 3703. DOI: 10.3390/ma15103703 Tulej W., Głowacki Sz.: Analysis of Material-Characterization Properties of Post-Production Waste—The Case of Apple Pomace, Materials, 2022, 15(10), 3532. DOI: 10.3390/ma15103532 Tulej W., Głowacki Sz.: Modeling of the Drying Process of Apple Pomace, Applied Sciences-Basel, 2022, 12(3), 1434. DOI: 10.3390/app12031434
Experience in work with doctoral students (defended doctoral dissertations, initiated doctoral procedures) in chronological order	Defended doctoral theses: 2022 - Weronika Tulej, Material and energy potential of apple pomace.
Achievements in the area of projects/grants (in the last 5 years)	
Subject area of the research project for which the candidate student is being recruited	Modification of the technology for the production of solid biofuels in the form of pellets and analysis of the combustion process of the resulting fuel, with particular emphasis on the emission of exhaust gases.
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