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

Marek Gaworski, PhD, DSc, Eng., Professor	
Scientific discipline/ disciplines	Mechanical engineering
Professional development (degrees and titles) in chronological order	1986: MSc, field of study: Agricultural and Forest Engineering, Faculty of Agricultural and Forest Engineering, Warsaw Agricultural University – SGGW AR 1995: PhD in the field of agricultural engineering, Faculty of Agricultural and Forest Engineering, Warsaw University of Life Sciences – SGGW 2006: habilitated doctor of agricultural sciences in the field of agricultural engineering, Faculty of Agriculture, Wrocław University of Environmental and Life Sciences 2024: professor of engineering and technical sciences in the discipline of mechanical engineering
Most important publications/ patents in the last 3 years (maximum 10)	Gaworski M. 2023. Behavior of cows in the lying area when the exit gates in the pens are opened: How many cows are forced to get up to go to the milking parlor? *Animals*, No. 13(18), 2882, p. 1-15. Gaworski M. 2023. Milk yield of cows in some European countries and the implementation of automatic milking systems. *Agronomy Research*, Vol. 21, No. S2, p. 460-470. Gaworski M. 2023. Device for measuring the force generated by dairy cattle. Patent No. 244581, Date of granting the right: 25-10-2023. Gaworski M., Boćkowski M. 2022. Comparison of cattle housing systems based on the criterion of damage to barn equipment and construction errors. *Animals*, 12(19), 2530, p. 1-19. Gaworski M., Borowski P.F., Kozioł Ł. 2022. Supporting decision-making in the technical equipment selection process by the method of contradictory evaluations. *Sustainability*, 14(13), 7911, p. 1-17. Gaworski M. 2021. Implementation of technical and technological progress in dairy production. *Processes*, 9(12), 2103, p. 1-21. Gaworski M. 2021. Differences in occupation of lying stalls by cows: Case study of pens with one row of stalls. *Engineering for Rural Development*, Proceedings, Vol. 20, p. 1039-1045.

	Gaworski M., Borowski P.F., Zajkowska M. 2021. Attitudes of a group of young Polish consumers towards selected features of dairy products. *Agronomy Research*, Vol. 19, No. S2, p. 1023-1038. Gaworski M., de Cacheleu C., Inghels C., Leurs L., Mazarguil C., Ringot B., Tzu-Chen C. 2021. The topic of the ideal dairy farm can inspire how to assess knowledge about dairy production processes: A case study with students and their contributions. *Processes*, 9(8), 1357, p. 1-21. Leola A., Priekulis J., Česna J., Gaworski M. 2021. Trend of cow herd size in Baltic states. *Agronomy Research*, Vol. 19, No. S2, p. 1052-1059. Solonscikov P., Barwicki J., Savinyh P., Gaworski M. 2021. Optimalization of design parameters of experimental installation concerning preparation of liquid feed mixtures. *Processes*, 9(12), 2104, p. 1-13.
Experience in work with doctoral students (defended doctoral dissertations, initiated doctoral programmes/procedures) in chronological order	Supervisor of completed doctoral dissertations: Michał Boćkowski, PhD: „Method to assess dairy cattle welfare conditions depending on production technical equipment", 2012 Łukasz Kozioł, PhD: „Method of assessing technical facilities for the care of fruit trees", 2015 Marta Bloch-Michalik, PhD: Technology of using methane fermentation by-product as a secondary fuel, taking into account energy aspects", 2018
Project/grants achievements (in the last 10 years)	Project implemented under the OP KL MJWPU program (POKL.09.04.00-14-024 / 08) in the years 2008-2013: "Managing innovative solutions in sectors of the Polish economy"; function: project manager (head).
Topic – research problem – for which the candidate supervisor seeks a doctoral student	The impact of technical equipment in the barn on the welfare of dairy cattle. Research on the effects of implementing various forms of progress in the area of mechanical engineering.
<u>Contact details:</u> Institute E-mail address Tel.	Warsaw University of Life Sciences – SGGW Institute of Mechanical Engineering marek_gaworski@sggw.edu.pl +48 22 593 45 83