

Name and surname	Sebastian Opaliński
Academic Degree	dr hab. inż. (DSc.)
Institute/Department	Department of Environmental Hygiene and Animal Welfare
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UPWr Base of Knowledge - link	https://bazawiedzy.upwr.edu.pl/info.seam?ps=20&id=UPWr042d8442ed8e494f97809881607fa68f&lang=en&pn=1&cid=125797
Researchgate	https://www.researchgate.net/profile/Sebastian-Opalinski
Personal website / Working group website	https://upwr.edu.pl/en/research/leading-research-group/animal-science-for-future-asc4future
Participation in projects in last 5 years (chronological; with distinction into PI (kierownik) and RF (wykonawca))	The project concerning the evaluation of odour reducing microbial-mineral additive for poultry manure, financially supported by The National Centre for Research and Development grant no. PBS2/B8/14/2014 "Innovative biopreparation for poultry production premises", RF ERA-NET CO-FUND ICT-AGRI-FOOD, LivestockSense, ""Enhancing environmental sustainability of livestock farms by removing barriers for adoption of ICT technologies"", PI
Do you plan to engage support of second supervisor or auxiliary supervisor?	NO
PhD topic	Selected precision livestock farming tools and their impact on animal welfare and production efficiency at a poultry farm
Research discipline in Doctoral School	Animal Science and Fisheries
Short description of the research problem to be solved in the PhD (minimum 1000 characters)	Digital technologies have been developed to monitor various livestock species' production efficiency and environmental conditions in real-time (Banhazi et al., 2012). Precision Livestock Farming (PLF) tools enable improving animal health & welfare, maximising production efficiency, increasing product quality, and mitigating livestock emissions. Unfortunately, PLF tools are not widely used on poultry farms cause European farmers lack the knowledge to understand the benefits of PLF. Thus, promoting and adopting PLF is a significant challenge in animal production because the development of sustainable animal husbandry requires the removal of socio-economic and cultural barriers preventing PLF adoption. Therefore, the main objectives of the research planned for PhD student are (1) conducting tests with the use of PLF tools to determine its real impact on improving the efficiency of animal production, (2) determining the real expectations and concerns of livestock farmers towards PLF, based on surveys obtained from the largest possible target group.
Professional skills for PhD candidate (e.g. master program, specializations, softwares, language, analytical techniques, minimum 500 characters)	Higher education in animal science. Interest in scientific work, the ability to work both independently and in a group, communication skills. Necessary skills in planning experiments, data analysis and writing scientific publications. Computer skills in the MS Office environment and the statistical package. Participation in conferences and scientific publications on the issues of livestock farming and breeding. Knowledge of English at the C1 level. The candidate should be ready to complete the min. 4-month internship at a foreign research centre dealing with precision livestock farming methods.
Details of the project to support PhD research	
a) Project title	ERA-NET CO-FUND ICT-AGRI-FOOD, LivestockSense, "Enhancing environmental sustainability of livestock farms by removing barriers for adoption of ICT technologies"
b) Agreement number	ICTAGRIFOOD//LIVESTOCKSENSE/01/2021
c) Number of months in the project to support PhD (in months; starting from 1st of October 2022)	8
d) Project website	https://livestocksense.eu/