## Candidate supervisor's information summary form

Name and surname, degree, title: Agnieszka Bus dr hab. inż.	
Discipline/ disciplines of science	Environmental engineering, mining and energy
Professional development (degrees and titles) in chronological order	<ul> <li>2008 r. – MSc in Environmental Protection</li> <li>2013 r. – PhD in Protection and Environmental Development</li> <li>2019 r. – Habilitation degree in technical science</li> </ul>
chronological order Most important publications/patens over the last 3 years (maximum 10)	<ul> <li>BUS A., KARCZMARCZYK A., 2018: Kinetic studies on removing phosphate from synthetic solution and river water by reactive material in a form of suspended reactive filters</li> <li>Desalination and Water Treatment, 136: 237-244</li> <li>BUS A., MOSIEJ J., 2018: Kształtowanie jakości wody odpływającej i dopływającej z kompleksu zbiorników</li> <li>Niewiadoma zlokalizowanego na rzece Cetyni. Rocznik</li> <li>Ochrona Środowiska, 20: 1793-1810.</li> <li>KARCZMARCZYK A., BUS A., BARYŁA A., 2018: Phosphate leaching from green roof substrates—can green roofs pollute urban water bodies? Water, 10 (2): 1-13.</li> <li>KARCZMARCZYK A., BUS A., BARYŁA A.: Influence of operation time, hydraulic load and drying on phosphate retention capacity of mineral filters treating natural swimming pool water, w: Ecological Engineering, vol. 130, 2019, ss. 176-183</li> <li>BUS A., KARCZMARCZYK A., BARYŁA A.: Permeable reactive barriers for preventing water bodies from a phosphorus-polluted agricultural runoff-column experiment, w: Water, vol. 11, nr 3, 2019, ss. 1-13</li> <li>BUS A., KARCZMARCZYK A., BARYŁA A: Calcined eggshell as a P reactive media filter-batch tests and column sorption experiment, Water Air and Soil Pollution, vol. 230, 2019, ss. 1-11</li> <li>BUS A., KARCZMARCZYK A.: P-binding mineral materials to enhance phosphate removal using nature-based solutions in urban areas, 2020, Desalination and Water Treatment, 205, 198-207</li> </ul>
	<b>A.BUS</b> ., A. SZELĄGOWSKA: Green Water from Green Roofs—The Ecological and Economic Effects, Sustainability, 2021, 13, 4, 1-14 Patent P. 403571, "Filter for removing pollutants, especially from small watercourses and reservoirs" ( <b>Bus A</b> . 50%,
	from small watercourses and reservoirs" ( <b>Bus A</b> . 50%, Karczmarczyk A. 50%).

Experience in work with doctoral students (defended doctoral dissertations, doctoral programmes opened) in chronological order	-
Project/grants achievements (from the last 10 years)	International project: Ecotechnology for Sustainable Development (EcoSuD). Implementation period: 2011-2013. Coordinator: KTH Royal Institute of Technology, Stockholm. Funding Source: Svenska Institute (SI) National project: Influence of biological membrane development on phosphate removal through flow-controlled mineral filters. Implementation period: from 1.07.2017. Project implemented as part of cooperation with the Polish Association of Natural Bathing Waters 505-10-052700-P00436-99: Assessment of the effectiveness of the reactive barrier model for removing diffuse pollution, implementation period: 2017-2018, source of financing: Warsaw University of Life Sciences National project: Innovative technologies and a system for monitoring, forecasting and operational planning of drainage activities for precise water management INOMEL BIOSTRATEG3 / 347837/11 / NCBR / 2017 drainage facility. Participation in the project: 2019-2020
Topic – research problem – for which the candidate supervisor seeks a doctoral student	Reclamation of surface waters Application of ecological engineering to improve water quality Ecosystem services and economic efficiency of pro-ecological investments
<u>Contact details:</u> Faculty/Institute E-mail address Tel.	Agnieszka Bus Faculty of Civil and Environmental Engineering Institute of Environmental Engineering e-mail: <u>agnieszka_bus@sggw.edu.pl</u> tel. 22 5935099