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

Name and surname, degree, title: Anna Podlasek, DSc, Associate Professor	
Academic discipline/disciplines	civil engineering, geodesy and transport environmental engineering, mining and energy
Professional development (degrees and titles) in chronological order	2012 – Eng. 2013 – MSc 2018 – PhD 2024 – DSc (habilitation)
Most important publications/ patents in the last 3 years (maximum 10)	**Podlasek, A.,** Koda, E., Vaverková, M. D., Rabek, P., Bujakowski, F., & Pietruszewski, W. (2025). Groundwater vulnerability modelling in landfill-affected areas: From conventional GOD and DRASTIC models to the novel DRASTIC-LPBM approach. Engineering Geology, 108347**.** **Podlasek, A.,** Koda, E., Kwas, A., Vaverková, M. D., & Jakimiuk, A. (2025). Anthropogenic and natural impacts on surface water quality: the consequences and challenges at the nexus of waste management facilities, industrial zones, and protected areas. Water Resources Management, 39(4), 1697-1718. Pietruszewski, W., & **Podlasek, A**. (2025). Multi-Indicator Assessment of Heavy Metals Contamination and Ecological Risk Around the Landfills of the Boruta Zgierz Dye Industry Plant in Central Poland. Sustainability, 17(12), 5425. **Podlasek, A.,** Vaverková, M.D., Jakimiuk, A., Koda, E. (2024). Potentially toxic elements (PTEs) and ecological risk at waste disposal sites: An analysis of sanitary landfills. PLoS ONE 19(5): e0303272. **Podlasek, A.,** Vaverková, M. D., Jakimiuk, A., & Koda, E. (2024). A comprehensive investigation of geoenvironmental pollution and health effects from municipal solid waste landfills. Environmental Geochemistry and Health, 46(3), 97. **Podlasek, A.,** Vaverková, M., Koda, E., Jakimiuk, A., & Martínez Barroso, P. (2023). Characteristics and pollution potential of leachate from municipal solid waste landfills: Practical examples from Poland and the Czech Republic and a comprehensive evaluation in a global context. Journal of Environmental Management, 332, 117328. Koda, E., **Podlasek, A.** (2023). Sustainable use of construction and demolition wastes in a circular economy perspective. In

	Sustainable and Circular Management of Resources and Waste Towards a Green Deal (pp. 137-147). Elsevier. **Podlasek, A.,** Vaverková, M.D., Koda, E., Paleologos, E.K., Adamcová, D., Bilgin, A., Palm, E.R., Nissim, W.G., (2022). Temporal variations in groundwater chemical composition of landfill areas in the vicinity of agricultural lands: a case study of the Zdounky and Petrůvky landfills in the Czech Republic. Desalination and Water Treatment, 275, 131-146. **Podlasek, A.** (2023). Modeling leachate generation: practical scenarios for municipal solid waste landfills in Poland. Environmental Science and Pollution Research, 30, 13256-13269. Mohammad, A., Singh, D. N., **Podlasek, A.,** Osinski, P., Koda, E. (2022). Leachate characteristics: Potential indicators for monitoring various phases of municipal solid waste decomposition in a bioreactor landfill. Journal of Environmental Management, 309, 114683.
Experience in work with doctoral students (defended doctoral dissertations, initiated doctoral procedures) in chronological order	Assistant supervisor of doctoral thesis "Impact of the technical cover systems and landfill reclamation works on selected environmental components" – Aleksandra Jakimiuk, PhD (defended on 29.10.2025)
Achievements in the area of projects/grants (in the last 5 years)	**2021-2024** "Action for Education, Spatial Organisation and Planning for Sustainable Food (AESOP4FOOD)", KA220- Cooperation partnerships in higher education. Project Erasmus+:2021-1-NL01-KA220-HED-000023116. Principal Investigator. **2021-2024** "How to stay alive in V4? Phosphorus Friends Club builds V4's resilience". Project: 22110364.Visegrad Strategic Grants. Coordinator. **2023** „Green Campus SGGW - pilot study towards circular waste management". „Inkubator Innowacyjności 4.0". „Support for the management of scientific research and commercialisation of the results of R&D work in scientific entities and enterprises". MNISW/2020/358/DIR. Principal Investigator. **2018-2021:** National Science Centre, Preludium 13 („Analysis of contaminant migration processes in the soil-water environment using laboratory tests and numerical modeling techniques"). Principal Investigator.

Subject area of the research project for which the candidate student is being recruited	The application of waste materials in the context of sustainable construction. Integration of chemometric analyses and numerical modelling in the design of remediation processes and reclamation of degraded areas.
Contact details: Institute E-mail address Telephone number	Warsaw University of Life Sciences - SGGW Institute of Civil Engineering Department of Sustainable Construction and Geodesy anna_podlasek@sggw.edu.pl 22 59 35222