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

Name and surname, degree, title: **Miroslaw LIPIŃSKI, Ph.D., D.Sc.**	
Academic discipline/disciplines	civil engineering, geodesy and transport (CEGT)
Professional development (degrees and titles) in chronological order	**Professional** 1979 – 1980 Industrial Telecommunications Institute 1985 – present. Warsaw University of Life Sciences, Faculty of Civil and Environmental Engineering, Department of Geoengineering, Department of Geotechnics. 1988 – 1989 ISMES Institute of Experimental Research in Bergamo (Italy), research internship (10 months) 1993 – 1994 ISMES Institute of Experimental Research in Bergamo (Italy), research internship (15 months) 1997 – present GEOTEKO Consultants Ltd, senior specialist in geotechnics, employment contract, ½ time **Scientific** 15.12.2000 – Ph.D. in technical sciences; Discipline: Civil Engineering, specialization: geotechnics; Title of doctoral dissertation: Undrained response of cohesionless soils to monotonic loading (in English). Institution: Gdańsk University of Technology; Faculty of Civil Engineering and Environmental Engineering 26.11.2014 – D.Sc. (habilitation) . in technical sciences; Discipline: Civil Engineering, Specialization: soil mechanics, geoengineering; Thesis title: Criteria for determining geotechnical parameters (in Polish) Institution: Białystok University of Technology; Faculty of Civil Engineering and Environmental Engineering
Most important publications/ patents in the last 3 years (maximum 10)	• Halim Noor, Lechowicz Zbigniew, **Lipiński Mirosław**: Stability Analysis of Mamak Dam Behavior Under Different Water Levels in the Reservoir, Acta Scientiarum Polonorum. Architectura, 2025, s.1-15. DOI:10.22630/ASPA.2025.24.1 • **Lipiński Mirosław,** Wdowska Małgorzata, Puspitaningrum Intan: Various approaches to derive state of tailings materials on the basis of shear wave velocity measurement, W: Geotechnical Engineering Challenges to Meet Current and Emerging Needs of Society / Guerra Nuno [i in.] (red.), 2024, London, Taylor & Francis Group, s.1746-1751, ISBN 9781003431749. DOI:10.1201/9781003431749-325 • **Lipiński Mirosław**, Wdowska Małgorzata*, Puspitaningrum Intan*: Applicability of shear wave velocity to evaluate state of granular materials with fines, E3S Web of Conferences, 2024, vol. 544, s.1-8. DOI:10.1051/e3sconf/202454414004 • **Lipiński Mirosław**, Wdowska Małgorzata, Puspitaningrum Intan: Quality requirements for static liquefaction test of soil in triaxial apparatus, Studia Geotechnica et Mechanica, 2023, vol. 45, nr s1, s.395-404. DOI:10.2478/sgem-2023-0019

	• Wdowska Małgorzata, **Lipiński Mirosław**: Reliability of Methods for Determination of Stress History Parameters in Soils, Studia Geotechnica et Mechanica, 2023, vol. 45, nr s1, s.350-361. DOI:10.2478/sgem-2023-0017 • **Lipiński Mirosław**, Wdowska Małgorzata, Wudzka Anna: Capability of Triaxial Apparatus with Respect to Evaluation of Nonlinearity of Soil Stiffness, Archives of Civil Engineering, 2020, vol. 66, nr 1, s.69-80. DOI:10.24425/ace.2020.131775 • **Lipiński Mirosław**, Wdowska Małgorzata: Evaluation of State of Fine Sands on the Basis of Shear Wave Velocity, Archives of Civil Engineering, 2020, vol. 66, nr 2, s.135-146, Numer artykułu:10. DOI:10.24425/ace.2020.131801 • **Lipiński Mirosław**, Wdowska Małgorzata: Evaluation of void ratio of sands with various amount of fines on the basis of shear wave velocity measurement, W: World Multidisciplinary Civil Engineering-Architecture-Urban Planning Symposium. WMCAUS / Yilmaz Işık, Drusa Marian, Marschalko Marian (red.), IOP Conference Series: Materials Science and Engineering, 2019, nr 471, IOP Publishing, s.1-10. DOI:10.1088/1757-899X/471/4/042026 • Michalczuk Krzysztof, **Lipiński Mirosław**, Wdowska Małgorzata: Wybrane zagadnienia dotyczące budowy tuneli z wykorzystaniem zmechanizowanych tarcz zawiesinowych, Przegląd Naukowy Inżynieria i Kształtowanie Środowiska, 2019, vol. 28 (3), nr 85, s.488-499. DOI:10.22630/PNIKS.2019.28.3.45 • **Lipiński Mirosław**, Wdowska Małgorzata: Hybrid approach for evaluation of tailings state on the basis of shear wave veocity measurement, International Multidisciplinary Scientific GeoConference & EXPO SGEM, 2018, vol. 18, s.325-332. DOI:10.5593/sgem2018/1.2/S02.04
Experience in work with doctoral students (defended doctoral dissertations, initiated doctoral procedures) in chronological order	<u>Supervision of Ph.D. thesis completed:</u> • Title of thesis: Modification of the Vlasov model of foundation soil (in Polish) Date of defence of the doctoral thesis: 22nd of November 2023 <u>Research Care over doctoral thesis:</u> Scientific supervision of two doctoral Ph.D. students (including one foreign English-speaking).
Achievements in the area of projects/grants (in the last 5 years)	• Research project No. N N506 0989 33; Criteria for determining and selecting geotechnical parameters; Project implemented in 2007-2010 Nature of participation – project manager; Participation in the project as the main contractor • Research project KBN No. 7T 07E03824; Mechanics, Construction and Architecture Team, Section T07E; Nonlinearity of stress-strain characteristics in pre-destruction states of soil – experimental basis for theoretical description. Start date: 01.07.2003. End date: July 2006. Nature of participation – project manager.
Subject area of the research project for which the candidate student is being recruited	There are two types of work possible: **Experimental.** Laboratory work on (generally speaking) the basis of validation of the methodology for describing constitutive soil characteristics. In particular, determining the material characteristics of cohesive and non-cohesive soils under complex loading conditions. The work may concern such issues as: soil liquefaction, soil stiffness in the range of small strain, new characteristics for describing the history of the stress state in cohesive soils.

	Computational: Fluent knowledge of programming in various languages is necessary. The work would concern the numerical implementation of model of static liquefaction of soil.
Contact details: Institute E-mail address Telephone number	Warsaw University of Life Sciences (WULS-SGGW) Institute of Civil Engineering miroslaw.lipinski@wp.pl (preferred) miroslaw_lipinski@sggw.edu.pl 22 59 35228