

Candidate supervisor's information summary form

Name and surname, degree, title: Professor Eugeniusz Koda, Ph.D. (Eng.)	
Academic discipline/disciplines	Civil Engineering, Geodesy and Transport (CEGT) Environmental Engineering, Mining and Energy (EEME)
Professional development (degrees and titles) in chronological order	1991 – Ph.D. Civil Engineering, Gdańsk University of Technology 2012 – Hab. Doctor in CE, Gdańsk University of Technology 2019 – Professor of Technical Sciences
Most important publications/ patents in the last 3 years (maximum 10)	1. Markiewicz A., Koda E., Kawalec J. Geosynthetics for Filtration and Stabilisation: A Review. <i>Polymers</i>. 2022. 14(24), e5492. IF=4.967 2. Koda E., Rybak-Niedziółka K., Winkler J., Černý M., Osiński P., Podlasek A., Kawalec J., Vaverková M.D. Space redevelopment of old landfill located in the zone between urban and protected areas: Case study. <i>Energies</i>. 2022. 15(1), e146. IF=3.252 3. Vaverková M.D., Winkler J., Uldrijan D., Ogrodnik P., Vespalcová T., Aleksiejuk-Gawron J., Adamcová D., Koda E. Fire hazard associated with different types of photovoltaic power plants: Effect of vegetation management. <i>Renewable and Sustainable Energy Reviews</i>. 2022, 162, e112491. IF=16.799 4. Parthiban D., Vijayan D.S., Koda E., Vaverkova M.D., Piechowicz K., Osinski P., Van D.B. Role of industrial based precursors in the stabilization of weak soils with geopolymer - A Review. <i>Case Studies in Construction Materials</i>. 2022. 16, e00886. IF=4.934 5. Koda E., Osiński P., Podlasek A., Markiewicz A., Winkler J., Vaverkova M.D. Geoenvironmental approaches in an old municipal waste landfill reclamation process: Expectations vs reality. <i>Soils and Foundations</i>. 2023. 63(1), e101273. IF=3.1 6. Mazur Ł., Resler M., Koda E., Walasek D., Vaverková M.D. Energy saving and Green building Certification: Case Study of commercial buildings in Warsaw, Poland. <i>Sustainable Energy Technologies and Assessment</i>. 2023, 60, 103520; IF=8.0 7. Vaverková M.D., Koda E. 2023. Why landfill deposits are a distinguishing feature of the Anthropocene. <i>Anthropocene Review</i>. 10(2), 463-473. IF=3.6. 8. Pasternak G., Pasternak K., Koda E., Ogrodnik P. 2024. Unmanned Aerial Vehicle Photogrammetry for Monitoring the Geometric Changes of Reclaimed Landfills. <i>Sensors</i>. 24 (22), 7247, IF=3.4. 9. Podlasek A., Koda E., Kwas A., Vaverková M.D., Jakimiuk A. 2024. Anthropogenic and Natural Impacts on Surface Water Quality: The Consequences and Challenges at the Nexus of Waste Management Facilities, Industrial Zones, and Protected Areas. <i>Water Resources Management</i>. 11, IF=3.9. 10. Vijayan D.S., Gopalaswamy S., Sivasuriyan A., Koda E., Sitek W., Vaverková M.D., Podlasek A. 2024. Advances and Applications of Carbon Capture, Utilization, and Storage in Civil Engineering: A Comprehensive Review. <i>Energies</i>. 17 (23), 6046, IF=3.0.

Experience in work with doctoral students (defended doctoral dissertations, initiated doctoral procedures) in chronological order	1. Dorota Wychowaniak (okś) - "Samoooczyszczanie środowiska wodnego na terenach przyległych do składowiska odpadów z pionową przesłoną przeciwiłtracyjną". Defended: 29.11.2017. 2. Wojciech Czaczkowski (bud) - "Zastosowanie metodyki PRINCE2 do zarządzania przedsięwzięciami w małych przedsiębiorstwach budowlanych". Defended: 20.12.2017. 3. Agnieszka Kiersnowska (bud) - "Wpływ czynników chemicznych i termomechanicznych na właściwości georusztu jednokierunkowego PEHD". Defended: 31.01.2018. 4. Anna Sieczka (okś) - "Migracja związków azotu pochodzenia nawozowego w środowisku gruntowo-wodnym". Defended with destinction: 18.07.2018. 5. Paweł Wowkonowicz (iśge) - "Emisja wybranych ftalanów ze składowisk odpadów komunalnych oraz ocena ryzyka środowiskowego". Defended: 24.09.2019. 6. Anna Miszkowska (ilt) - "Wpływ kolmatacji mechanicznej na warunki przepływu wody w filtrach geosyntetycznych". Defended with destinction: 24.06.2020. 7. Wojciech Górski (ilgt) - "Modelowanie numeryczne stanu zdefektowanych złączy konstrukcyjnych w budownictwie wielkopłytowym". Defended: 30.10.2024. 8. Piotr Osiński (ilgt) - "The influence of soil saturation on slopes stability conditions". Defended with destinction: 11.12.2024. <u>Open doctoral procedures:</u> 9. Ewa Iwanicka (ilgt) - "Ocena efektywności oczyszczania gruntów z substancji ropopochodnych z uwzględnieniem warunków geotechnicznych". Planned defense: July 2025. 10. Grzegorz Pasternak (ilgt) - "Zastosowanie technologii LiDAR w monitorowaniu odkształceń powierzchni zrehabilitowanych składowisk odpadów". Planned defense: November 2025.
Achievements in the area of projects/grants (in the last 5 years)	2019–2023 – COST Action CA18135: Fire in the Earth System: Science & Society. Member of the Management Committee. Project completed and accepted on 23.10.2023. 2021–2024 – How to Stay Alive in V4? Phosphorus Friends Club Builds V4's Resilience. Visegrad Grant. Project leader. Completed. Additionally, commissioned studies and service projects in the fields of reclamation, monitoring, management, assessment of the technical condition of landfills and infrastructure.
Subject area of the research project for which the candidate student is being recruited	1) Recovery of Raw Materials within the Circular Economy and Sustainable Development in Engineering and Construction. 2) Assessment of the Effectiveness of Reclamation Measures at Landfills and Degraded Areas Based on Monitoring and Modeling of Contaminant Migration. 3) Soil Reinforcement and Stability Improvement of Earth Structures and Natural Slopes Considering Climate Change
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