

Sundis Mohammed Salih Taher

MSc in Civil Engineering | PhD Candidate, Civil Engineering
Budapest, Hungary

Email: sundis.taher@edu.bme.hu | sundis.taher@uod.ac

Phone: +9647504963009

+36 202 207 830



Professional Summary

Civil Engineer with a specialization in pavement engineering and extensive experience in teaching and research. Currently pursuing a PhD at Budapest University of Technology and Economics, focusing on the effects of pavement modifications and material enhancements, with an emphasis on sustainability and performance. Achieved first place in my BSc program and possess a strong publication record in civil engineering research. Skilled in advanced materials testing, sustainable design methodologies, educational instruction. Committed to fostering student success, conducting impactful research in Civil Engineering.

Education

PhD Candidate in Civil Engineering

Budapest University of Technology and Economics, Hungary | Starting September 2023

Research Focus: Investigating the impact of pavement modifications and material enhancements on performance, sustainability, and resilience.

MSc in Civil Engineering: Pavement Engineering

University of Nottingham, UK | 2014

Thesis: The Effect of SBS Polymer Modifier Properties on the High-Temperature Properties of Asphalt Binder

This study analyzed the role of Styrene-Butadiene-Styrene (SBS) polymers in enhancing asphalt binder performance under high-temperature conditions. The research demonstrated significant improvements in rutting resistance and rheological properties of modified binders through DSR and MSCR testing, providing insight into sustainable pavement design.

BSc in Civil Engineering

University of Duhok, Iraq | 2011

Academic Achievement: Graduated **first in the department**.

Core studies included materials science, structural analysis, and geotechnical engineering, focusing on foundational principles in civil engineering applications.

Professional Experience

University of Duhok, College of Engineering

Lecturer and Assistant Lecturer | Full-time | December 2021–Present

Assistant Lecturer | Full-time | April 2016–December 2021

Department: Mechanical and Civil Engineering

- Developed and instructed undergraduate courses in *Strength of Materials, Engineering Mechanics, Engineering Project, and Programming for Engineers* (Visual Basic, MATLAB, FORTRAN, MS Office).
- Led instructional labs and practical sessions, fostering hands-on learning in programming, materials testing, and structural analysis.
- Supervised and mentored student capstone projects, promoting practical application of engineering concepts and research skills.

Demonstrator | Full-time | 2015–2016

Departments: Mechanical, Water Resources, and Civil Engineering

- Conducted laboratory tutorials in *Engineering Mechanics, Computer Skills, and Steel Design*, enhancing student comprehension of foundational engineering concepts.

Lab Demonstrator | Full-time | 2011–2013

Department: Civil Engineering

- Provided technical support for practical coursework in *Engineering Drawing, Building Materials, AutoCAD*, and basic programming, assisting students in building essential civil engineering skills.
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Published Research

1. **Taher, S. M. S., Saadullah, S., & Haido, J. (2021).** "Behavior of Geopolymer Concrete Deep Beams Containing Waste Aggregate of Glass

- and Limestone as a Partial Replacement of Natural Sand." *Case Studies in Construction Materials*, 15, e00744. Investigates sustainable construction practices through the use of geopolymers incorporating waste materials.
2. **Alyousifi, S., & Taher, S. M. S. (2021).** "An Evaluation of the Effect of Aggregate Type on Hot Mix Asphalt Properties in Kurdistan Region of Iraq." *Journal of Duhok University*, 24(2), 124-135. Focused on optimizing aggregate compositions for enhanced hot mix asphalt performance under regional conditions.
 3. **James H. Haido, Shireen T. Saadullah, Sundis M.S. Taher, Qahar Mustafa Abdullah, Bashar A. Mahmood (2024).** "Performance of RC Deep Beams Containing Eco-Friendly Waste PET Aggregate: Experimental Investigation." *International Journal of Materials Research and Innovation*. Examines eco-friendly concrete alternatives with recycled PET aggregates for structural beams.
 4. **Taher, S. M. S., & Tóth, C. (2024).** "UK Pavement Design: An Overview." *International Conference on Transport Sciences XIV*, Győr, Hungary. Presented a comparative analysis of pavement design practices in the UK and international standards.
 5. **Taher, S. M. S., & Tóth, C. (2024).** "Az Egyesült Királyság útpályaszerkezet-méretezési gyakorlata." *Transportation Research in Hungary*. An in-depth study of UK pavement design methodologies and their adaptation for varying traffic conditions and environmental factors.
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Skills

- **Technical:** AutoCAD, Revit, FORTRAN, MATLAB, Visual Basic, Microsoft Office Suite (Word, PowerPoint, Excel, Access)
 - **Testing & Analysis:** Proficient in advanced pavement material testing techniques, including DSR, MSCR, and viscosity analysis.
 - **Languages:** Kurdish (fluent), Arabic (very good), English (very good), French (intermediate)
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Professional Development & Conferences

International Conference on Transport Sciences (Győr, Hungary | 2024)

Presented on UK pavement design practices, focusing on innovations in pavement durability and responses to climate-related challenges.

Certifications & Language Proficiency

- **Pre-sessional English for Academic Purposes (University of Nottingham, UK | 2013)**
Score: 68 (Pass with Distinction)
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Hobbies & Interests Literature & Self-Improvement: Passionate reader of motivational, self-improvement, and fictional literature in both English and Arabic. Engaged in continuous learning to broaden perspectives and enhance personal development.

- **Independent Travel & Cultural Exploration:** Experienced solo traveler, having visited 50 countries. Skilled in travel planning, budgeting, and navigating diverse cultural landscapes. My travels have enriched my global perspective and adaptability
 - **Professional Development:** Actively participates in academic conferences, workshops, and seminars, with an interest in scientific debates and staying informed on current trends in civil engineering.
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References and Online Profiles

- **ResearchGate:** <https://www.researchgate.net/profile/Sundis-Taher>
- **BME University Profile:** <https://epito.bme.hu/taher-sundis?language=en>
- **Google Scholar:**
<https://scholar.google.com/citations?user=FFyoebAAAAAJ&hl=en>

Formal references and academic transcripts are available upon request.