

Muhannad Ismeik, PhD, PE

Associate Professor

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Key Qualifications

- 30 years of professional experience in teaching, research, training, management, and consulting in the US and Middle East.
- Solid record of 36 interdisciplinary scholarly publications in indexed journals and international conferences.
- Peer reviewer and editorial board member for multiple professional journals.
- Extensive teaching experience with traditional instructional approaches and project-based learning (PBL) facilitation.
- Broad engagement in multicultural and multilingual academic environments.
- Superior ability to motivate and inspire students to strive for success.
- Wide involvement in department, college, institutional, university, and community service.
- Excellent skills in capacity building, leadership, interpersonal communication, organization, supervision, mentoring, and performance assessment.
- Energetic, reliable, and dynamic team player with high ethical standards.
- Licensed professional engineer with a distinguished, focused, and goal-oriented work style.

Current Employment

Associate Professor (*Tenured*) 2008 - Present
Department of Civil Engineering (*ABET accredited*)
The University of Jordan, Amman, Jordan (*Ranked 1st locally according to QS 2026*)

Academic Credentials

Post-Doc	Civil Eng., Montana State University-Bozeman	US	1999
PhD	Civil Eng, Bosphorus University (<i>American Robert College</i>)	Turkey	1996
MS	Civil Eng, Bosphorus University (<i>American Robert College</i>)	Turkey	1992
BS	Civil Eng, Bosphorus University (<i>American Robert College</i>)	Turkey	1991

Teaching Background

Geotechnical Engineering, Foundation Engineering, Numerical Methods, Engineering Economy, Materials of Construction, Engineering Project (PBL), Engineering Skills (PBL), Engineering Design and Management Planning (PBL), Research Methodology, Geosynthetic Engineering, Advanced Soil Mechanics, and Ground Improvement.

Research Interests

Soil improvement and durability, geosynthetics, seismic analysis, geopolymers, concrete materials, sustainable systems, waste utilization, and computational intelligence modeling.

Selected Publications (*Research contributes to UN Sustainable Development Goals)

- Hanandeh, S., Ismeik, M., and Al-Mwas, S. Performance of geogrid-reinforced subbase layers under cyclic loading: Effect of geogrid type and depth. Innovative Infrastructure Solutions. Vol. 11, P. 44, 2026, Springer, Germany.*^{11,12,13}
<https://doi.org/10.1007/s41062-025-02429-5>
- AlFukaha, R., Shaqour, F., and Ismeik, M. Freeze-thaw durability of clayey soils stabilized by alkaline activated kaolin and recycled cement kiln dust. Results in Engineering. Vol. 24, P. 103199, 2024, Elsevier, Netherlands.*^{13,14,15}
<https://doi.org/10.1016/j.rineng.2024.103199>
- Ismeik, M. A comprehensive assessment of compression index of marine seabed soils. Marine Geophysical Research. Vol. 45, P. 22, 2024, Springer, Germany.*^{9,11}
<https://doi.org/10.1007/s11001-024-09555-2>
- Ismeik, M., Shaqour, F., and Hasan, S. E. Geotechnical evaluation of clayey soils amended with cement kiln dust during freeze-thaw cycling. Arabian Journal of Geosciences. Vol. 14, No. 19, P. 2023, 2021, Springer, Germany.*^{9,12}
<https://doi.org/10.1007/s12517-021-08144-6>
- Ismeik, M. Simplified solutions for computing consolidation settlement of foundations embedded in a compressible finite stratum. Arabian Journal of Geosciences. Vol. 13, No. 14, P. 636, 2020, Springer, Germany.*¹¹
<https://doi.org/10.1007/s12517-020-05415-6>
- Ismeik, M. and Shaqour, F. Effectiveness of lime in stabilizing fine-grained soils subjected to freeze-thaw cycles. Road Materials and Pavement Design. Vol. 21, No. 1, pp. 42-60, 2020, Taylor and Francis, UK.*^{13,14,15}
<https://doi.org/10.1080/14680629.2018.1479289>

Journal Reviewer

- Geotechnical Testing Journal (ASTM International)
- Geosynthetics International (Emerald)
- Geomechanics and Geoengineering (Taylor and Francis)
- Soils and Foundations (Elsevier)
- Construction and Building Materials (Elsevier)
- Acta Geotechnica (Springer)
- Jordan Journal of Civil Engineering (JUST)

Further Data

A detailed curriculum vitae, which includes achievements, publications, presentations, community and professional services, extracurricular activities, references, as well as teaching, research, and outreach philosophy, is available upon request.