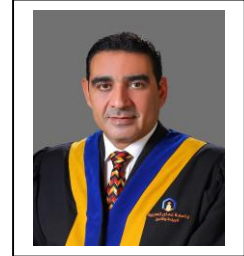


Date: 2025-2026



CURRICULUM VITAE

PERSONAL INFORMATION

Faculty Member Name: Dr. Omar Asad Mohammad Ahmad
Academic Rank: Associate Professor
College: Engineering
Department: Civil Engineering
Nationality: Jordanian
Address: Amman, Jordan
Phone No: +962 797963630
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ACADEMIC QUALIFICATIONS

Degrees with fields, institution, and date

- BSc in Engineering Geology, Russian Friendship University, Russia, 1993.
- M.Sc. in Engineering Geology, Russian Friendship University, Russia, 1995.
Dissertation title: Natural Groundwater and Under-groundwater Resources.
- Ph.D. in Water and Environmental Engineering [Engineering Hydrogeology], Russian Friendship University, Russia, 1999.
Dissertation title: The Integrated use and the protection of water resources of Amman city region.

ACADEMIC EXPERIENCE

- Duration: 2024-2011
- University: Sebha
- Academic Rank: Assistant professor
- Date the rank was granted: 2004
- The body granting the rank: Sebha University
- College: Engineering/ Civil Engineering Department.
- Country: Libya

دائرة الموارد البشرية
Human Resources Department

- Duration: 2011-2014
- University: Zarqa University
- Academic Rank: Assistant professor
- Date the rank was granted: 2011
- The body granting the rank: Zarqa University
- College: Engineering and Technology / Civil Engineering Department.
- Country: Jordan
- Duration: 2014-2017
- University: Zarqa University
- Academic Rank: Associate Professor
- Date the rank was granted: 2014
- The body granting the rank: Zarqa University
- College: Engineering and Technology / Civil Engineering Department.
- Country: Jordan
- Duration: 2017-Unti now
- University: Amman Arab University
- Academic Rank: Associate Professor
- Date the rank was granted: 2017
- The body granting the rank: Zarqa University
- College: Engineering / Civil Engineering Department.
- Country: Jordan

NON-ACADEMIC EXPERIENCE

- Duration: 2000-2004
- Company: Union Engineering Group
- Department: Soil and Engineering Geology Site Investigation
- Senior Engineer
- Country: Jordan

CERTIFICATIONS OR PROFESSIONAL REGISTRATIONS

- Jordanian Engineering Association – water and environmental specialist.

CURRENT MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

- Member, JEA Jordan Engineer Association, Jordan
- Member of International Society for Development and Sustainability (ISDS) Fukuoka, Japan.
- Reviewer for Journal of Applied Science, Sebha University.
- Reviewer for Journal of Earth and Environmental Science, USA, David Publishing Company.

HONORS AND AWARDS

- Wiley Publishing house award (Journal Water Environment Research) Water Environmental Federation.
- Elsevier Publishing house award (Journal Results in Engineering).

SERVICE ACTIVITIES

- Research for the local community.
- Academic leadership.
- Participation in many seminars and training workshops.

THE MOST IMPORTANT PUBLICATIONS IN LAST FIVE YEARS

1. Mohamad Alwidyan, Amal Jaradat, **Omar Ahmad**, Anwar Al Assaf, (2026). Optimizing Water and Energy Efficiency in Jordan: Challenges, Opportunities, and Sustainable Solutions for the Future. **20**(1), 97-113. <https://doi.org/10.59038/ijmie/200109>
2. **Omar Asad Ahmad**, Shahed Sulieman Al-Mwas, (2026). The Effects of Sodium-Potassium Hydroxides and Sodium Orthosilicate on the Geotechnical Properties of A-2-7 Clayey Sand. *International Journal of Advances in Signal and Image Sciences*, **12**, (1s), 49-163.
3. **Omar Asad Ahmad**, (2026). Heavy metal source identification in Shafa Badran using geographic information system and three-dimensional modelling. *Journal of Water and Land Development*, **68** (1-III), 186-195. <https://DOI:10.24425/jwld.2026.157834>
4. **Omar Asad Ahmad**, (2025). 3D geospatially driven predictive modeling for sustainable management of heavy metal pollution (Pb, Cd, As) in rapidly developing urban regions. *City and Environment Interactions*, 100289. <https://doi.org/10.1016/j.cacint.2025.100289>
5. **Omar A. Ahmad**, Abdelmajeed Alkasassbeh, Mohammad Alma'aitah, (2025). Evaluating the Role of Polymer Concrete in Enhancing Long-Term Performance and Reducing Early Age Cracking. *Civil Engineering Journal*, **11** (10), 4399-4421. <http://dx.doi.org/10.28991/CEJ-2025-011-10-023>
6. Mohammad, S. I., Vasudevan, A., Alkasassbeh, A., **Ahmad, D. A.**, Alfugara, A., Kahla, N. B., ... Yaylaci, M. (2025). Efficient detection of piezoelectric material defects in smart structures using nonlinear vibration and neural networks validation. *Smart Structures and Systems*, **36**(2), 97-109. <https://doi.org/10.12989/SSS.2025.36.2.097>.
7. Fuad A. Al-Bataineh, **Omar Asad Ahmad**, A'kif Al-Fugara, Wafeek Mohamed Ibrahim, Nejjib Ghazouani and Hamed Safarpour. (2025). A novel approach for sustainable construction based on mathematical simulation and a machine learning algorithm: Smart concrete structures with piezoelectric patch. *Advances in Concrete Construction, An International Journals*, **20**(3), 141-154. <https://doi.org/10.12989/acc.2025.20.3.141>
8. Alkasassbeh, A., **Ahmad, D. A.**, Al-Fugara, A., Ahmed, A., Ben Kahla, N., & Safarpour, H. (2025). Mechanics-based modeling and analysis of nonlinear lamb wave dispersion in 3D functionally graded skew nanoplates. *Mechanics Based Design of Structures and Machines*, 1-33. <https://doi.org/10.1080/15397734.2025.2556240>.
9. **Omar Asad Ahmad**, (2025). Predicting future contamination spread using 3D modeling: A case study of lead, cadmium, and arsenic contamination. *Journal of Ecological Engineering*, **26**(5), 344-354. <https://doi.org/10.12911/22998993/201750>

10. **Omar Asad Ahmad, (2025)**. The effect of anthropogenic activities on soil quality (Shafa Badran watercourse) in the Al Zarqa River Basin. *Journal of Ecological Engineering*, **26(3)**, 108-118. <https://doi.org/10.12911/22998993/199570>
11. Omar Asad Ahmad, (2022). The Feasibility of Heavy Metals Removal from Drinking Water Sources Containing Sulfide Ions by Pillared White Sand of Different Grains Size, *Polish Journal of Environmental Studies*, **31 (4)**, 2997-3004.
12. Omar Asad Ahmad, Gazzaz N., Al Shebani A., (2022). Ground water quality in Wadi Shati (Libya): Physico-chemical analysis and environmental implications, *Journal of Water and Land Devolvement*, 128-137-128-137.
13. M Alrawashdeh, A Shaqadan, **QA Ahmad**, IAHA Yousef, AE Alzoubi, (2021). Assessment of Environmental Factors on Corrosion in Reinforced Concrete with Calcium Chloride. *Civil Engineering and Architecture*, **9 (6)**, 1985-1995.
14. **QA Ahmad**, S Ayyad, (2021). Secondary Treated Wastewater as a Concrete Component and Its Impact on the Basic Strength Properties of the Material. *Archives of Civil Engineering*, **67 (1)**, 571-583.
15. S Ayyad, **QA Ahmad**, (2021). The Use of Sand Columns in the Reinforcement of Weak Layers in Road Engineering. *Archives of Civil Engineering*, **67 (1)**, 527-838.
16. **QA Ahmad**, AM Al-Kassasbeh, MA Al-Rawashdeh, (2021). Fabrication of Polymer Concrete of Light Weight and High Performance. *International Journal of GEOMATE*, **20 (77)**, 116-122.
17. **QA Ahmad**, (2021). The Usefulness of Construction and Destruction Waste as Recycled Aggregates in Concrete. *International Journal of GEOMATE*, **19 (75)**, 8-18.

INSTITUTIONAL PROFESSIONAL DEVELOPMENT ACTIVITIES IN THE LAST FIVE YEARS

- Erasmus+ staff mobility for teaching and training between AAU and Birmingham City University, City Birmingham - UK, 2022.
- Participation in workshops of Water sciences and water pollution and smart solutions organized by Royal Scientific Society RSS, Amman, Jordan.
- Participation in seminars and workshops in Water sciences and water pollution and sustainable by Ministry of water and Irrigation, Amman, Jordan.
- Participation in local and regional conferences in the field of water, energy, environment and sustainability.

RESEARCH LINK (Scopus and Google Scholar)

- <https://www.scopus.com/authid/detail.uri?authorId=56624264800>
- <https://scholar.google.com/citations?user=BgsCFhEAAAAJ&hl=en>
- <https://orcid.org/0000-0002-2926-1824>
- <https://www.researchgate.net/profile/Omar-Asad-Ahmad>

LANGUAGES

- Arabic
- English

- Russian