



## Dr. Zeyad Alshboul

Dean, Faculty of Engineering 2023 , Ajloun national university.

جامعة عجلون الوطنية

Ajloun National University



Irbid-Alramtha



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## PROFILE

I am a water treatment expert with extensive experience in the field of water, wastewater and its related environmental issues with around 14 years of experience working with donor agencies, private and public sectors.

During my career, I gained comprehensive experience in managing the full project life cycle through planning, implementation, monitoring & controlling and until project closure; and subsequently during operation and maintenance. My experience extends to proposal writing, technical and financial evaluation of proposals, and contract negotiation until contract award. The area of expertise covers water & wastewater treatment technology and (O&M) of surface and groundwater treatment plants, water resources management, water and sewerage networks, data management and analysis, training & capacity building;

I worked at the Water Authority of Jordan (WAJ) in surface and groundwater treatment, water quality monitoring & control, and fixed & mobile treatment plants. During this period I was involved in addressing issues related to surface water pollution, treatment from (hardness, E. coli, nitrate, salinity, suspended solids, turbidity, ..) and disinfecting the treated water for domestic water supply. I have been promoted very fast during my work in the higher education sector and academic field. I was appointed as program chair and dean of engineering faculty at ANU and promoted to associate professor. I gained deep experience in higher education institution management.

## Personal Data

**Date of birth:** October, 1982

**Marital status:** Married

**Nationality:** Jordanian

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[scopus](#), [Research gate](#), [google scholar](#)

## EDUCATION

◆ **PH.D.** Water and Environmental Engineering.  
(Koblenz.Landau University, Germany 2016).

◆ **Master** - Water Resources and Environment  
(Al Albayt University, Mafrqa, Jordan 2011).

## WORK EXPERIENCE

- Dean, Faculty of Engineering 2023 , Ajloun national university.
- Associate Professor 2022, Ajloun National University.
- Director, Water and Environmental Research Center, Ajloun National University 2022.
- Director of Accreditation and Quality Assurance Unit, ANU 2023.
- Dean, Faculty of Engineering 2021 , Ajloun National University.
- Department Chair- Civil Engineering Dept.- Faculty Engineering, ajloun national university 2020.
- Consultant, OXFAM GB. Amman, Jordan 2018 \$ 2021
- Assistant Professor, Civil Engineering Dept. Ajloun National University 2019
- Assistant Professor, Applied Science University 2016
- Intern, Storm Water Protection, Environmental Management and Certification Unit, Technology center Worth, Daimler, Mercedes Benz, Germany
- PhD candidate and senior project, Germany, RPTU 2012-2016
- Water Authority of Jordan, Desalination and Water Treatment 2006

## PROFESSIONAL ACTIVITIES

- Existing water leaks detection systems, Innovation Arabic Center for Training and Consulting, Amman, Jordan, Nov. 2022.
- Water accountability and Utility Management, Innovation Arabic Center for Training and Consulting, Amman, Jordan, Jan. 2023.
- Decision analysis for operation & maintenance – Drainage, Innovation Arabic Center for Training and Consulting, Amman, Jordan, Sept. 2022.
- Root Cause Analysis (RCA) Drainage Knowledge of Smart City Programs, Innovation Arabic Center for Training and Consulting, Amman, Jordan, Oct. 2022.
- Contract Management in HSE requirements and performance monitoring for drainage operation and maintenance, Innovation Arabic Center for Training and Consulting, Amman, Jordan, Dec. 2022.



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## SKILLS

MS Office, MS Project  
Origin pro (graphing,  
statistical and analytical  
data software)  
MS Illustrator  
MS  
ArcGIS  
PLANET  
MAP  
AutoCAD

## Languages

Arabic  
German  
English.

## CONTINUED PROFESSIONAL ACTIVITIES

- Member of Jordan Engineers Association.
- Alumni DAAD, 2012-now.
- German Jordan Association 2016.
- Committee of Scientific Research.
- Member of Uni tender committee.
- Member of accreditation and quality assurance committee.
- Member for many Engineering projects committees (Solar Energy system project, WWTP project, Technical and financial Evaluation committees)

## REFEREED INTERNATIONAL JOURNALS

- Kamel Alzboona , Zaydoun Abu Salema\*, Zeyad Alshboul , Jalal Al-Tabbalc, Eid Al Tarazid, Khalideh Alrawashdehe, Impacts of the Petrochemical Industries on Groundwater Quality, 2024, Journal of Ecological Engineering.
- Abd Ulazeez Alkouri<sup>1</sup>, Z. Alshboul, Environmental Impact Assessment Using Bipolar Complex Intuitionistic Fuzzy Sets, 2024, Under review
- Mohammed S. Al-Khateeba, b, \*, Zeyad Alshboulb, Randah I. Hatamleh, Rabah M. Ismaild, Fayez A. Abdulla, Kamel. K. Al-Zboon, Spatial and Statistical Analysis of Sudden Pause of Anthropogenic Activities Impact on Urban Air Quality, 2024, Under review.
- Zeyad Alshboul, Buthaina Awais, Mohammad Malkawi, Mahmoud Al-Rousan, Lowering The Economic And Environmental Impacts Of The Single Use Personal Protective Materials, 2023, Environmental Engineering and Management Journal.
- Zeyad Alshboul, Mohammad Malkawi, Kamel Alzboon, IoT Enabled Model for Improving Responses of Water, Sanitation, and Hygiene Programs to Urgent Community Needs During Covid-19, 2023, JJEES.
- Z. Alshboul, Kamel Alzboon, Ali Alzoubi, Temporary and Permanent Impacts of COVID-19 on Water Consumption Patterns and Solid Waste Generation, 2022, International Journal of Engineering Applications.
- Zeyad A. Alshboul , Water Accountability Model under Emergency Cases and for Areas Gained New Access to Water Services, 2022, Information Sciences Letters.
- M. Malkawi, Ziad AlGhzawi, Zeyad Alshboul, Abdulrahman Al-Yamani, Umaiya Murad, Internet Of Things Based Monitoring System Of Leaks In Water Supply Networks Using Pressure-Based Model, Information Sciences Letters, 2022.
- Zeyad A. Alshboul, Husein A. Alzgool, Hadeel Alzgool, Sustainable Use of Brine Water in Concrete, Cement Mixes Alter Compression-Bending Strengths 2021, International Review in Civil Engineering
- Husein A. Alzgool, Zeyad Alshboul, Ahmad S. Alfraitat and Hadeel Alzgool, The Effect of using Olive Oil Mill Wastewater on Bending and Compression Properties of Cement Mortar 2021, International Journal on Emerging Technologies
- Alshboul, Z., and A. Lorke. 2015. Carbon Dioxide Emissions from Reservoirs in the Lower Jordan Watershed. PLoS One 10: e0143381. (Published in Plos One).
- Alshboul, Zeyad, Fernández, Jorge, Hofmann, Hilmar, Lorke, Andreas, Export of dissolved methane and carbon dioxide with effluents from municipal wastewater treatment plants, Environmental science and technology, 2015. (Published in Journal of Environmental Science and Technology).
- Lorke, A., Bodmer, P., Noss, C., Alshboul, Z., Koschorreck, M., Somlai, C., Bastviken, D., Flury, S., McGinnis, D. F., Maeck, A., Müller, D., and Premke, K.: Technical Note: Drifting vs. anchored flux chambers for measuring greenhouse gas emissions from running waters, Biogeosciences Discuss., 12, 14619-14645, doi:10.5194/bg-12-14619-2015, 2015. (Published in Journal of Biogeosciences).
- Jeremy Wilkinson, Andreas Maeck, Zeyad Alshboul, and Andreas Lorke, Continuous Seasonal River Ebullition Measurements Linked to Sediment Methane Formation, Environmental Science & Technology, DOI: 10.1021/acs.est.5b01525. (Published in Environmental Science and Technology).
- Azzaya Tumendelger, Zeyad Alshboul, Andreas Lorke; Emission of greenhouse gases (N<sub>2</sub>O and CH<sub>4</sub>) from municipal wastewater treatment plants in Southwest Germany: Revealing N<sub>2</sub>O sources using stable isotopic approach; plos one 2018.



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## TEACHING EXPERIENCE

- Engineering Mechanics
- Environmental Engineering
- Engineering Hydrology
- Hydraulics
- Fluid Mechanics
- Water and Wastewater Treatment Engineering
- Environmental Impact Assessment
- Dynamics
- Desalination
- Water Resources Engineering
- GIS in Civil Engineering
- Introduction to Civil Engineering
- Sustainable Development
- Solid Waste Management
- Fluid Mechanics and Hydraulic Lab
- Sanitary Lab.
- Pavement Design
- Statistics