

Dr. AHMED EID AL-JUAIDI

Associate Professor, Civil & Environmental Engineering Department, King Abdulaziz University

Education

<i>Degree</i>	<i>Discipline</i>	<i>Institution</i>	<i>Year</i>
Ph. D.	Civil and Environmental Engineering (Water resources)	Utah State University, USA	2009
M. Sc.	Water Engineering	Birzeit University, Palestine	2001
B. Sc.	Civil Engineering	IUG-University, Palestine	1998

Academic Experience

<i>From</i>	<i>To</i>	<i>Institution</i>	<i>Rank</i>	<i>Title (Chair, Coordinator, etc.)</i>	<i>Full or Part Time</i>
Jan2020	Present	King Abdulaziz University	Associate Prof.	Associate Prof.	Full Time
Oct 2015	Dec2019	King Abdulaziz University	Assitant Prof.	Assistant prof.	Full Time
Jan 2015	May2015	Ryerson University	Lecturer	Lecturer	Full Time
Jan 2012	May2012	Seneca College	Professor	Professor	Full Time
Jan 2011	Feb 2012	University of Toronto	Research Associate	Research Associate	Full Time
Aug 2005	Jan 2010	Utah State University	Research Assistant	Research Assistant	Full Time
2001	2004	Birzeit University	Researcher	Researcher/Lecturer	Full Time

Non Academic Experience

<i>From</i>	<i>To</i>	<i>Company/Entity</i>	<i>Title</i>	<i>Position description (Brief)</i>
Jan2014	Sept2015	Flora Design Inc. Project Engineer - Land Development	Project Engineer	Part Time
Oct2012	Nov2013	Ontario Ministry of Environment and Climate Change	Project Engineer	Full Time
Jun2012	Oct 2012	Schaeffers Consulting Associates, Vaughn-Ontario	Water Resources Analyst	Full Time

Certifications and Professional Registrations

Licensed Engineer with **P.Eng.** designation, Professional Engineers of Ontario (PEO), License number 100164332

Current Membership in Professional Organizations

<i>Member Since</i>	<i>Rank</i>	<i>Society/organization</i>
2000	Member	Jerusalem Engineering Association (JEA)

Honors and Awards

2006- Received Inland Northwest Research Alliance Fellowship from United States Department of Energy, Utah State University, Logan-Utah, USA

Service activities (within and outside of the institution)

- Supervised two (2) Master's (M. Sc.) research projects (Ahmed Al-Shutairy and Ahmed Attia)
 - Ahmed Al-Shutairy (MSc, completed), An Assessment of future water demand in city of Riyadh using Water Evaluation and Planning System.
 - Ahmed Attia (MSc, completed), Evaluation of municipal water supply system option using WEAP: Jeddah case study.
- Reviewers in various peer-reviewed ISI water and environmental Journal:
 - Journal of water resources planning and Management (ASCE)
 - Journal of Hydrologic Engineering (ASCE)
 - Water Resources Management (Springer)
 - Agricultural Water Management (Springer)
 - American Water Resources Association Journal (JAWRA)
 - Desalination and Water Treatment (Taylor and Francis)
 - Journal of drainage and irrigation Engineering (ASCE)
 - Journal of Environmental Management (Elsevier)

Principal Publications/Presentations from the Past Five Years

- Al-Juaidi, AE, AS Attia (2019). Evaluation of desalination and groundwater supply sources for future water resources management in Riyadh city. In-Press. Desalination and Water Treatment [DOI: 10.5004/dwt.2020.24892](https://doi.org/10.5004/dwt.2020.24892) (Impact factor: 1.383 /Q3)
- Al-Shutayri A., and AE Al-Juaidi (2019). Assessment of future urban water resources supply and demand for Jeddah city based on the WEAP model. Arabian Journal of Geosciences [DOI: 10.1007/s12517-019-4594-7](https://doi.org/10.1007/s12517-019-4594-7) (Impact factor: 1.14 /Q4)
- Al-Juaidi AE, (2019). A hydrologic-economic-agronomic model with regard to salinity for an over-exploited coastal aquifer. Arabian Journal of Geosciences [DOI: 10.1007/s12517-019-4554-2](https://doi.org/10.1007/s12517-019-4554-2) (Impact factor: 1.14 /Q4)
- Al-Juaidi AE, (2019). An integrated framework for municipal demand management and groundwater recovery in a water stressed area, Arabian Journal of Geosciences [DOI: 10.1007/s12517-019-4503-0](https://doi.org/10.1007/s12517-019-4503-0) (Impact factor: 1.14/Q4)
- Al-Juaidi, A. E., A. Nassar, and O. Al-Juaidi (2018). Evaluation of flood susceptibility mapping using logistic regression and GIS conditioning factors, Arabian Journal of Geosciences 11:1-10, [DOI: 10.1007/s12517-018-4095-0](https://doi.org/10.1007/s12517-018-4095-0) (Impact factor: 1.14/Q4)
- Aljuaidi, A.E., (2018). A simplified GIS based SCS-CN for the Assessment of Land-Use Change on Runoff, Arabian Journal of Geosciences, [DOI: 10.1007/s12517-018-3621-4](https://doi.org/10.1007/s12517-018-3621-4) (Impact factor: 1.14/Q4)
- Al-Juaidi, A. E., (2017). Decision Support System with Multi-criteria, Stability, and Uncertainty Analyses for Resolving the Municipal Infrastructure Conflict in the City of Jeddah, Journal of King Saud

- University- Engineering Sciences, Scimago Journal & Country Rank (Hi Index: 20), [DOI: 10.1016/j.jksues.2017.11.004](https://doi.org/10.1016/j.jksues.2017.11.004)
8. Al-Juaidi, A. E. M., (2017). Decision support system analysis with the graph model on non-cooperative generic water resource conflicts, *International Journal of Engineering & Technology*, 6 (4): 145-153. [DOI: 10.14419/ijet.v6i4.7566](https://doi.org/10.14419/ijet.v6i4.7566)
 9. Al-Juaidi, A. E., and T. Hegazy (2017). Graph Model Conflict Resolution Approach for Jordan River Basin Dispute. *British Journal of Applied Science and Technology*, 21(5): 1-13. [DOI: 10.9734/BJAST/2017/32446](https://doi.org/10.9734/BJAST/2017/32446)
 10. Al-Juaidi, A. E., and T. Hegazy (2017). Conflict Resolution for Sacramento-San-Joaquin Delta with Stability and Sensitivity Analyses Using the Graph Model. *British Journal of Mathematics & Computer Science*, 20(5): 1-10. [DOI: 10.9734/BJMCS/2017/31225](https://doi.org/10.9734/BJMCS/2017/31225)
 11. Attia I. Mousa, A. E. Al-Juaidi (2015). Strain Based for Cylindrical Shell Under Sinusoidal Stress. *American Journal of Engineering Research*, 4(11): 163-170.
 12. Al-Juaidi, A. E., J. Kaluarachchi, and A. I. Mousa (2014). Hydrologic-Economic Model for Sustainable Water Resources Management in a Coastal Aquifer. *Journal of Hydrologic Engineering (ASCE)*, 19(11): 04014020-1 to 04014020-12. [DOI: 10.1061/\(ASCE\)HE.1943-5584.0000960](https://doi.org/10.1061/(ASCE)HE.1943-5584.0000960) (Impact factor: 1.576/Q2)
 13. Al-Juaidi, A. E., D. E. Rosenberg, and J. J. Kaluarachchi (2011). Water Management with Wastewater Treatment and Reuse, Desalination, and Conveyance to Counteract Future Water Shortages in the Gaza Strip. *International Journal of Water Resources and Environmental Engineering*, 3(12): 266-282. [DOI: 10.5897/IJWREE10.030](https://doi.org/10.5897/IJWREE10.030).
 14. Al-Juaidi, A. E., J. Kaluarachchi, and U. Kim, (2010). Multi-criteria Decision Analysis of Treated Wastewater Use for Agriculture in Water Deficit Regions. *Journal of the American Water Resources Association (JAWRA)*, 46(2): 395- 411. [DOI: 10.1111/j.1752-1688.2009.00409.x](https://doi.org/10.1111/j.1752-1688.2009.00409.x) (Impact factor: 2.16/Q1)

International Research Report

1. Al-Juaidy, A., U. Kim, and J.J. Kaluarachchi (2011) Decision Analysis to Minimize Agricultural Groundwater Demand and Salt Water Intrusion Using Treated Wastewater. GQ10: Groundwater Management in a Rapidly Changing World. NO. 342-70-WE-31. Publication 342. ISBN 978-1-907161-16-2

Recent Professional Development Activities

1. Taught "Municipal infrastructure planning and design", Short course, Saudi Society for Civil Engineering, King Abdulaziz University 2017-2019
2. Lectured "Fundamentals Engineering Exam (FE)", importance and benefits, Saudi Council of Engineers, Prince Sultan Road, 2017-2019.