

# Ala'a Saleh AlShdiefat

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## Qualifications and Membership

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<b>PhD</b> in Construction Management The University of Salford, Manchester-UK	<b>2018</b>
<b>M.Sc</b> in Engineering Project Management (EPM) Isra University (Excellent cumulative Average)	<b>2013</b>
<b>B.Sc</b> in Civil Engineering Jordan University of Science & Technology-Jordan (Very Good cumulative Average)	<b>2006</b>
Member in Jordanian Engineering Association (JEA)	<b>2006</b>

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## Professional Experience

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<b>Associate Professor</b> Philadelphia University Amman –Jordan	<b>Nov. 2024 – Present</b>
<b>Assistant Professor</b> Philadelphia University Amman –Jordan	<b>Sep. 2018 – Nov. 2024</b>
<b>Director of International Projects Office and Innovation Centre</b> Philadelphia University Amman –Jordan	<b>Sep. 2022 – Sep. 2024</b>
<b>Researcher – Construction Management</b> The University of Salford Manchester – UK	<b>Jan. 2015- August 2018</b>
<b>Board Assembly</b> Bureau of Architectural Research and Design Amman –Jordan / Resident Engineer (RE)	<b>Nov. 2013 – July. 2014</b>
<b>Makan Architects and Engineers</b> Amman –Jordan / Resident Engineer (RE)	<b>Sep. 2012 – Oct. 2013</b>
<b>Archisys Architects and Engineers</b> Amman –Jordan / Assistant Resident Engineer (ARE)	<b>Nov. 2010 – Aug. 2012</b>
<b>Arabtec Construction Company</b> Dubai – UAE / Site Engineer	<b>Jan 2008 – Mar 2010</b>
<b>Sukkok for Building &amp; Tourism Development</b> Amman – Jordan / Site Engineer	<b>Dec 2006 - Jan 2008</b>

**Alshdiefat**, A.S., Sharif, A.A., Alharahsheh, A.I., Albrka, S.I., Olsson, N.O.E., Younes, M. and Bang, S. (2025), Construction and demolition waste management in Jordan: a multifaceted perspective, *Construction Innovation*, 25(2), 290-305.

Younes, M. K., **Alshdiefat**, A. A. S., Aljaradin, M., Abushammala, M. F., & El-Remmash, R. (2025). Enhancing Construction and Demolition Waste Management Using SWOT and Quantification Systems. *Tikrit Journal of Engineering Sciences*, 32(4), 1-11.

**Alshdiefat**, A.S. (2024). ISM Model for Assessing Critical Productivity Factors in the Jordanian Construction Industry Post-COVID-19 Pandemic. *Organization, Technology and Management in Construction: an International Journal*, 2024 (16), pp 81–92. <https://sciendo.com/article/10.2478/otmcj-2024-0006>

**Alshdiefat**, A.S.; Sharif, A.A.; Abu Ghunmi, N. A.M; Lee,A.; Rana, M.Q. (2024).Factors Impacting on Women Gaining Leadership Roles in the Jordanian Construction Sector: Architects and Civil Engineers. *Buildings*. 14(4), 944.

**Alshdiefat**, A. S., Lee, A., Sharif, A. A., Rana, M. Q., & Abu Ghunmi, N. A. (2024). Women in leadership of higher education: critical barriers in Jordanian universities. *Cogent Education*, 11(1), 2357900.

Sharif, A.A.; **Alshdiefat**, A.S; Lee,A.; Rana, M.Q.;Abu Ghunmi, N. A.M. (2024). Gender Equality in Architecture and Construction: An Assessment Framework at the Institutional and Sectoral Levels in Jordan. *Buildings* 14,764.

Sharif, A. A., **Alshdiefat**, A. S., Rana, M. Q., Kaushik, A., & Oladinrin, O. T. (2022). Evaluating social sustainability in Jordanian residential neighborhoods: a combined expert-user approach. *City, Territory and Architecture*, 9(1), 1-25.

Sharif, A. A., Lee, A., **Alshdiefat**, A. S., Rana, M. Q., & Ghunmi, N. A. A. (2024). Sustainable Gender Equality: A Comparative Perspective on STEM Education and Employment in Jordan. *Sustainability*, 16(6), 1-19.

Kaushik, A.K.; Arif, M.; Syal, M.M.G.; Rana, M.Q.; Oladinrin, O.T.; Sharif, A.A.; **Alshdiefat**, A.S. (2022). Effect of Indoor Environment on Occupant Air Comfort and Productivity in Office Buildings: A Response Surface Analysis Approach. *Sustainability*, 14, 15719. <https://doi.org/10.3390/su142315719>

**Alshdiefat**, A., & Aziz, Z. (2020). Crucial barriers of building information modelling (BIM) in the Jordanian construction industry. *Global Journal of Engineering and Technology Advances*, 3(03), 020-030.

**Alshdiefat**, A, and Aziz, Z. (2018). Causes of change orders in Jordanian construction industry. *Journal of Building Construction and Planning Research (JBCPR)*. 6, 234-250.  
<https://doi.org/10.4236/jbcpr.2018.64016>

**Alshdiefat**, A. S. (2018). *Developing an assessment model for the adoption of building information modelling to reduce the cost of change orders in the Jordanian construction industry* (Doctoral dissertation, University of Salford).

**Alshdiefat** ,A., Arayici, Y., Aziz, Z, and Coates, P. (2016). Perceive Benefits of Implementing BIM in Jordanian Construction Industry on Change Orders. *Proceedings of the First International Conference of the BIM Academic Forum Held at Glasgow Caledonian University, Glasgow, September 13-15, 2016* (ISBN – 9781905866816).

**Alshdiefat**, A. (2013). *Evaluation of claims management, causes, impacts and resolution in building projects in Jordan*. (Unpublished MSc thesis), Al Isra University, Jordan.

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### Award and Grant

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1. 3<sup>rd</sup> Rank in reserve list as Principal Investigator (PI) in Interreg NEXT MED Programme: ***Developing Mediterranean innovation capacities through smart and mobile renewable energy solutions for underserved regions - SmMobMedRES***. Fund by Interreg NEXT MED, 2025. Ref: **Project A\_T\_1.1\_0534**, € 2.1 million
2. Principal Investigator (PI) in the funded Project: ***Low-Carbon Design Innovations and Technology Adoption for Jordan's Rural Municipalities***. Funded by Council for Australian-Arab Relations, CAAR, 2025. Ref. **CAAR00154, \$54,000.00 (Australian Dollar)**.
2. Principal Investigator (PI) in the funded Project: ***Furthering Gender Equality in Jordanian Higher Education and Leadership via societal and structural changes. Lead-Jo*** awarded by British Council, 2022. Ref **GEP07-22, £24,600**.
3. Principal Investigator (PI) in the funded Project: ***Wastewater Treatment in Anaerobic UASB And Hybrid Bioreactor Followed by A Post-aerobic Treatment*** in Bab Amman Municipality- Juba Branch funded by National Center for research and development in collaboration with Italian National Research Council, **16000 JD**.
4. Co- PI in the funded Project: ***Levelling Up STEM! Towards gender equality in the pathways to Jordanian Higher Education and employability (UpJo)*** awarded by British Council, 2022. Ref **GEP08-22, £23,950**.
5. Principal Investigator (PI) in The Researcher Links Workshop Grants: ***Developing Jordan's roadmap for Energy Efficient and Neutral Buildings*** awarded by Newton Fund (UK), 2018. Ref: 2018-RLWK10-10589, **£23,800.0**
6. Principal Investigator (PI) in The Researcher Links Workshop Grants: ***Enhancing energy performance of Jordanian buildings using Building Information modelling enabled Technological and Process Innovations*** awarded by Newton Fund (UK), 2019. Ref: 2019-RLWK11-10310, **£20,800.0**
7. Co- PI in the Researcher Links Workshop Grants: ***Shifting the Energy Efficiency to a New Level in Jordan: Integrating Ambient Intelligence and Big data in the Built Environment: SEENJordan*** awarded by Newton Fund (UK), 2019. Ref: 2019-RLWK11-10504, **£19,800.0**
8. PI in the funded Project: ***Build Equality: Building Leadership and Employment Pathways for Women in the Construction Sector across Jordan and the UK*** awarded by British Council, 2024. Ref **GEP2024-042, £ 24,998.69**.
9. Principal Investigator (PI) for mobility project between Philadelphia University and PEGASO International-Malta (KA131 and KA171/ 2022), funded by Erasmus +.
10. Second Rank in the Jordanian Engineering Associations in Collaboration with Greater Amman Municipality awards for Universities' graduation projects / traffic prize for the Project: ***Reduce Traffic Congestion in Amman by Implementing Risk Assessment and Simulation Technique. 2022***

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### Research Supervision

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1. **Guest Editor** in a Special Issue entitled "[Energy Efficiency Management in Buildings](#)", which published by [Architectural Engineering and Design Management](#) (Q1) [ Manuscript deadline 01 September 2023]
2. Co- Supervisor for PhD dissertation with title: **Conceptual Framework for Building Information Modelling (BIM) Adoption to Improve the Efficiency of The Contractual Issues in The Jordanian Construction Sector** by Ibrahim Moh'd Abdel Qader Saraireh at University Malaysia PAHANG. 2020

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## Community Service

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1. Participated in a free workshop hosted by Jordanian Engineering Association – Al Balqaa Branch. *Building Information Modelling (BIM): Definition, Concept, and levels*. Esalt. August 2019
2. Participated in a free workshop hosted by Jordanian Audit Bureau. *Impact of Building Information Modelling (BIM) for reducing change orders in public projects*. Amman. November 2019
3. Participated in a free workshop hosted by Jordanian Engineering Association – Al Mafraq Branch. *Introduction to Building Information Modelling (BIM)*. Al Mafraq. August 2020

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## Training

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- Innovation Management Level 1: Innovation Associate. 2022. Conducted by The King Abdullah II Centre for Excellence, Amman, Jordan.
- FIDIC training program: Module 2, Management of Claims and Disputes Resolution Under the FIDIC Contracts. 17<sup>th</sup>-18<sup>th</sup> June 2019, Amman, Jordan.
- Simulation modeling training course: AnyLogic 8 Fundamental. 4<sup>th</sup> -7<sup>th</sup> July 2017. The University of Salford, Manchester, UK.
- Promoting of Sustainable Building and Green Infrastructure between North Rhine-Westphalia and Jordan. 2022. Euro-Mediterran-Arabischer Landerverein (EMA)., Amman, Jordan.
- Value Engineering. 2022. Pioneer Academy in Cooperation with SAVE-International, USA, Amman, Jordan
- Supporting the Digital Transformation in Jordan's Higher Education Sector. 2021. Conducted in cooperation between the Ministry of Higher education and the British Council.
- Autodesk Revit Structure. 2021. April 2021, Amman, Jordan
- Autodesk Navisworks. 2021. June 2021, Amman Jordan
- Assessment & Feedback as Tools for Learning: Reimagining Assessment and Feedback Practice in Jordanian Higher Education-Workshop. 2023. Conducted in cooperation between the Ministry of Higher education and the British Council.

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## Research Interests

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- **Intelligent Construction Collaboration:** A key focus of my work is to enhance construction collaboration through the application of innovative tools and techniques.
- **Building Information Modeling (BIM)**
- **Sustainability in construction industry:** investigation the true environmental impact of construction activities
- **Smart cities:** A key focus of my work is to improve construction management practices, cost control, time management and energy control.
- **Construction Management researches**

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## Languages

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- Arabic (Fluent)
- English (very good)

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### Personal Details

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Date of Birth : 6<sup>th</sup> of July  
Nationality : Jordanian  
Gender : Male