

PERSONAL
INFORMATION



Mohammad Suleiman Albdour
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PROFESSIONAL
SUMMARY

Associate Professor and contracts specialist with expertise in Sustainable Building Design, Energy Modelling, and FIDIC-based Project Management. Combines academic leadership with practical experience in high-performance and energy-efficient construction.

PREFERRED JOB

Architectural Engineering / Sustainable Buildings & Construction Management
Associate Professor / Building Simulation / Building Energy Standards / FIDIC
Contracts Engineering / High-Performance and Sustainable Building Design

WORK EXPERIENCE

2020 -Present

Associate Professor and Building Manager Al-Hussein Bin Talal University, Jordan Taught and supervised courses in Architectural Engineering, Sustainable Design, and Energy Modelling. Led building projects and research focused on energy efficiency and high-performance construction. Contributed to curriculum development and departmental coordination.

2015 -2019

PhD Research Fellow Szentágothai Research Centre, University of Pécs, Faculty of Engineering and Information Technology, Department of Architectural Engineering, Hungary Conducted research and teaching in sustainable architecture, energy, and environmental design, supported by the Tempus Public Foundation under European Union research programs. Focused on simulation-based energy analysis and building performance optimization.

2014 - 2015

Full-time Lecturer Al-Hussein Bin Talal University (AHU), Faculty of Engineering, Jordan Taught courses in architectural and civil engineering with a focus on sustainable design principles and energy-efficient construction. Contributed to academic development and student supervision within the department.

2013 – 2015

Architect and Quantity Surveyor Sabeel Al Handasah Consultant Engineers (CE Co.), Jordan Also served as **Trainer** of five Building Information Modelling (BIM) courses, delivering professional instruction on BIM applications and digital modeling tools for engineers and architects. Contributed to design development, cost estimation, and project coordination using advanced modeling standards.

EDUCATION AND TRAINING

2015-2019

Ph.D. in Architectural Engineering (Environment and Energy Efficiency) University of Pécs, Hungary Dissertation: Enhancing Outdoor Thermal Performance. Fully funded by the Tempus Public Foundation (European Union Scholarship). Focus: Determining how designers can modify climatic conditions in urban spaces to improve outdoor thermal comfort.

2011-2013

Master of Science in Architectural Engineering (Environmental Design and Energy Efficiency) Cairo University, Faculty of Engineering, Egypt Ranked among the top 150 universities worldwide in Architecture (QS WUR by Subject).

PERSONAL SKILLS

Mother tongue

ARABIC

Other language

English and Portuguese

UNDERSTANDING		SPEAKING		WRITING
Listening	Reading	Spoken interaction	Spoken production	
C1	C2	C1	C2	C1

Communication skills

- Good communication skills gained through my experience as a trainer of building information modelling and building energy modelling.

Job-related skills

- **ASHRAE High-Performance Building Design Professional** (2019)
- Autodesk building performance analysis certified.
- Life-cycle Cost Analysis (LCCA).
- Lighting passport certified (Philips Lighting).
- ASHRAE 189.1-2011 Standard for the Design of High-Performance Green Buildings
- **2-3D Modelling:** Revit (working drawings, details)
- **Energy Simulation Modelling:** DOE-2, IDA ICE, EnergyPlus (whole building energy simulation).
- **STANDARD 90.1, 90.2, APPENDIX G** (Building Baseline Scenario)
- **ASHRAE 50% ADVANCED ENERGY DESIGN GUIDE.**
- **Ventilation for IAQ (ANSI/ASHRAE Standard 62.1-2016)**
- **Computational Fluid Dynamics:** ENVI-met, Autodesk CFD,(Thesis).
- **Weather Data and Climate Analyst**
- **International Computer Drivers Licence**

Publications

- 1-Albdour, M.S., Alhomaidat, F., Alrsai, M. et al. Proposal for zero energy housing designs in Jordan. **Energy, Sustainability and Society** 14, 53. <https://doi.org/10.1186/s13705-024-00481-0>
- 2- Hasan, R. A., Alhomaidat, F., & Albdour, M. S. Social norms and perceptions of Saudis on active transportation. **Frontiers in Built Environment**, 10. <https://doi.org/10.3389/fbuil.2024.1369704>
- 3-Albdour, M. S., Shalby, M., Salah, A. A., & Alhomaidat, F. (2022). Evaluating and enhancing the energy efficiency of representative residential buildings by applying national and international standards, using BIM. **Energies**, 15(20), 7763. <https://doi.org/10.3390/en15207763>
- 4- Ala' Alsahalen , Mahmoud Alrsai , Hassan Karampour , **Mohammad S. Albdour**, Buckle Propagation Failure of Subsea Pipelines; Experimental, Analytical, and Numerical Simulations. **Mechanics Based Design of Structures and Machines** <https://www.tandfonline.com/doi/full/10.1080/15397734.2024.2382838>
- 5-Albdour, M. S., Baranyai, B., & Shalby, M. M. (2022). Overview of whole-building energy engines for investigating energy-related systems. **Pollack Periodica**. <https://doi.org/10.1556/606.2022.00606>
- 6-Albdour, M. S., & Baranyai, B. (2019). Impact of street canyon geometry on outdoor thermal comfort and weather parameters in pécs. **Pollack Periodica**, 14(3), 177–187. <https://doi.org/10.1556/606.2019.14.3.17>
- 7-Albdour, M. S., & Baranyai, B. (2019). Water body effect on microclimate in Summertime: A case study from pécs. **Pollack Periodica**, 14(3), 131–140. <https://doi.org/10.1556/606.2019.14.3.13>
- 8-Albdour, M. S., & Baranyai, B. (2019). Numerical evaluation of outdoor thermal comfort and weather parameters in summertime at Széchenyi Square. **Pollack Periodica**, 14(2), 131–142. <https://doi.org/10.1556/606.2019.14.2.12>
- 9-Mitigation of Heat Island Through Park and Parking Design. (ongoing)
- 10- AI and Zero Energy Building Design. (ongoing)

Fund

- 1-Redesign and Cost Estimation of Petra College of Tourism and Archaeology (Office spaces transformed into residential rooms) €400,000 Al-Hussein Bin Talal University
- 2- Distance Learning Center Proposed architectural design and full cost estimation €1.2 million Al-Hussein Bin Talal University
- 3- Research Fund: High-Performance Buildings in Jordan Funded research on energy-efficient residential buildings €40,000 Al-Hussein Bin Talal University
- 4-University Gate Design for AHU Students Architectural concept and cost estimation €30,000 Al-Hussein Bin Talal University
- 5-Proposal for Extension Building College of Engineering Preliminary design and full cost estimation €1,000,000 Al-Hussein Bin Talal University

References

- Dr. Bálint BARANYAI**, Professor of Architecture , Faculty of Engineering and Information Technology University of Pécs, Hungary Email: baranyaibalint@gmail.com | balint.baranyai@mik.pte.hu Mobile: +36 30 55 22 989
- Dr. Ayman Hassan Ahmed**, Professor of Architecture and Environmental Control Faculty of Engineering, Cairo University, Egypt Email: arch.ayman@yahoo.co.uk Mobile: +20 100 667 0260
- Prof. Tiago Miranda** , Professor, Civil Engineering Department, College of Engineering, University of Minho, Minho, Portugal ,E: tmiranda@civil.uminho.pt