

## ***Prof. Aiman Albatayneh***

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***World's Top 2% Scientists According to Stanford University's Latest List  
Top Energy Researcher in Jordan, According to AD Scientific Index***

I am a professor in the Department of Energy Engineering at the German-Jordanian University (GJU). Having completed my BSc. and Ph.D. degrees in Australia, I am deeply committed to leveraging energy fields for sustainable advancements. I pursued specialized studies in renewable energy engineering at the renowned University of New South Wales (UNSW) to sharpen my expertise. My Ph.D. research at the University of Newcastle explored energy efficiency and the development of low-energy buildings, with a focus on minimizing heating and cooling energy consumption. Drawing on an interdisciplinary approach, I employ modeling techniques and experimental methodologies to explore the forefront of renewable energy engineering. My professional journey also includes obtaining Australian citizenship as a skilled engineer through the Skilled Migration Program, affirming my competence and dedication.

In addition to my academic pursuits, I have actively served as a UN national consultant, providing technical assistance for scaling up energy efficiency programs in Jordan and the broader Arab region. Furthermore, I am Principal Investigator (PI) for international projects with millions of budgets, including "Advice and support of bilateral Energy partnerships with developing and Emerging countries - Jordan," the [Energy Academy in Joran](#), and the Energy Innovation Platform ([EIP](#)) funded by the GIZ, and the visionary "Climate Change Resilient Cities (CLIC)" project, funded by the DAAD. Nexus research project "Key drivers for technology innovation to improve water, energy, and food security in Jordan is funded by the German Research Foundation (DFG). Between GJU and the German Universities, these initiatives enable me to contribute significantly to bilateral energy partnerships and foster resilient urban planning in the face of climate change challenges.

The dynamic field of low-energy solutions design, renewable energy systems, energy efficiency, heating and cooling, environmental studies, policies, economics, water energy, and the food nexus is at the core of my research. Throughout my tenure at the German-Jordanian University, I have engaged in fruitful research collaborations with fellow students and esteemed research collaborators from the MENA region, Europe, and Australia. Evidencing the impact of my work, I have published over 100 research papers, with the majority of these papers having been led as the primary researcher. An updated list can be found on [Google Scholar](#), [ORCID](#), and [ResearchGate](#).

# Prof. Aiman ALBATAYNEH

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**NATIONALITY** Jordanian/ Australian

## EMPLOYMENT

2016-2020 Assistant Professor at German Jordanian University (GJU).  
2020- 2024 Associate Professor at German Jordanian University (GJU).  
2024- Now Full Professor at German Jordanian University (GJU).

## PROFESSIONAL MEMBERSHIPS

- **Engineers Australia** (No.3343703)  
Professional Mechanical Engineer.  
Professional Electrical Engineer/ Renewable Energy
- **Jordan Engineers Association and Arab Engineers Association**  
Mechanical Engineer/ Thermal Machines (No.3/9979).

## EDUCATION

2013- 2016 **Ph.D. in Engineering**  
The University of Newcastle (UON), Australia- *Thesis title: The development of a comprehensive metric which characterises the thermal performance of complete buildings*

2010- 2013 **B.Sc. in Renewable Energy Engineering- Honours**  
The University of New South Wales (UNSW), Australia (Ranked 19th according to the 2024 QS World University Ranking)

2006 – 2008 **Diploma of Business Management**  
Lloyds International College Sydney, Australia.

## TRAINING

- **Climate Intelligence: Using Climate Data to Improve Business Decision-Making-** University of Reading- UK- 2024 (Online).
- **Global Resource Politics: The Past, Present, and Future of Oil, Gas, and Shale-** Hanyang University- South Korea, - 2024 (Online).
- **The Challenge of Global Water Security -** Cardiff University- UK- 2024 (Online).

- **Power in Crisis: Politics in the 21st Century** - University of York- UK, 2024 (Online).
- **Laboratory Safety, Health and Safety Risk Assessments** The University of Newcastle Australia (UON) 2015.
- **Effective Spoken Skills for the Workplace and Learning Strategies for Workplace Training; Language and Culture of Employment in Australia** -NSW Government -Department of Education and Training. Australia, 2011.

## LANGUAGES

- English and Arabic Excellent Reading, Writing, and Speaking.

## TEACHING EXPERIENCE

### **Undergraduate (Energy Engineering Department)**

Energy Engineering Economics; Special Topics in Renewable Energy; Low Carbon Buildings; Energy Efficiency, Management, and Laws; Wind Energy Technology; Fluid Mechanics Lab; Energy lab and Graduation Project I and II for tens of students.

### **Master program (Environmental and renewable energy engineering)**

Energy Efficiency; Special Topics in Renewable Energy; Applied Mathematics for Engineers; Master Thesis (I supervised and co-supervised more than 15 graduate students).

## CONSULTATIONS

2018- 2021

### **UN National Consultant- ESCWA**

National consultant for technical assistance to upscaling energy efficiency programs in the residential and services sectors in the Arab Region –by the United Nations Economic and Social Commission for Western Asia (ESCWA).

2021-Now

### **National Center for Security and Crises Management (NCSCM),**

**Jordan-** For developing and implementing a Water Energy, Food, and Ecosystem- (WEFE) Nexus measurement system for crisis and to tackle climate change.

## FUNDED PROJECTS

Principal Investigator (PI) for the following projects;

- German Energy Academy in Jordan; supported by International Climate Initiative – the IKI Program and German Corporation for International Cooperation GmbH (GIZ)- more than \$3M GJU share is \$700K, more details are available at this link.<https://gea-jordan.academy/>
- Advice and support of bilateral energy partnership with developing and emerging countries" funded by German Corporation for International Cooperation GmbH (GIZ) -\$700K, GJU share is \$150K; more details are available at this [link](#).

- The Energy Innovation platform is funded by the GIZ with \$100K; more details are available at this [link](#).
- German Energy Academy in Jordan is \$ 800 K funded by GIZ, GJU's share is around \$160K; more details are available at this [link](#).
- Climate Change Resilient Cities "CLIC" funded by the German Academic Exchange Service (DAAD) GJU share is \$50K; more details are available at this [link](#).
- Key drivers for technology innovation to improve water, energy, and food security in Jordan are funded by the German Research Foundation (DFG). GJU's share is \$10K; more details are available at this [link](#).
- Studying climate change and electrical loads in Jordan was funded by GJU with a \$15K research grant.
- Study the thermal performance characterizations for typical residential buildings in Jordan for different climate zones funded by GJU with a \$60K research grant.

## AWARDS AND FELLOWSHIPS

- Emiratis Energy Reward 2025- Dubai Supreme Council of Energy under the patronage of HH Sheikh Mohammed bin Rashid Al Maktoum
- Ranked in the world's top [2% of scientists](#) by Stanford University and [Elsevier](#) (2023, 2024).
- Ranked one of the top energy engineering scientists in Jordan according to [Ad Scientific Index](#)
- Participated in the 9th Arab-American Frontiers symposium, an exclusive event for Arab Frontiers in Science, Engineering, and Medicine hosted by the US National Academy of Sciences in Qatar (10/2023).
- Awarded Fellowship from the Government's Research Training Scheme (RTS) for PhD in Engineering at The University of Newcastle, Australia (2014).
- Awarded Australian citizenship as a skilled engineer through the Skilled Migration Program (2010).

## RESEARCH EXPERIENCE

- Head of a research team with The University of Newcastle in Australia to improve the thermal performance of residential buildings.
- A leading researcher in renewable energy focusing on energy efficiency, low-carbon buildings, biomass, wind energy, environment, water, and food energy food nexus with fellow students and researchers from Jordan and abroad.

## PUBLICATIONS

I have published over 100 research papers, most of which I am the lead author, an updated list of which can be found on;  
[Google Scholar](#); [ResearchGate](#); [ORCID](#)

## EDITORIAL BOARDS

- Guest Editor for "Decarbonizing the Residential Sector: Synergistic Approach to Energy Saving, Efficiency, and Renewables," published in Energy Exploration and Exploitation Journal.

- Guest Editor for " Water and Energy Nexus for Sustainable Development in the Middle East Region," published in Air, Soil and Water Research Journal.
- Conference chair for Resilient and Responsible Architecture and Urbanism (RRAU) conference -6th Edition, with Scopus index publications (Advances in Science, Technology, and Innovation (ASTI)), published by Springer Nature.
- Editorial Board Member for Book series "Sustainable Landscape Planning and Natural Resources Management," Springer Nature.
- Member of the Renewable Energy Executive Board in Jordan for The German-Arab Chamber of Industry and Commerce (GACIC / AHK). Association of German Chambers of Commerce and Industry (DIHK), Germany.

## **SELECTED CONFERENCES**

- Host and Conference Chair for an international conference - Resilient and Responsible Architecture and Urbanism (RRAU) – 6th Edition, hosted by German Jordanian University and co-hosted by the University of Palermo in Italy - 8/12/2024 to 10/12/2024.
- Yearly participation in the International Scientific Conference of Environmental and Climate Technologies - CONECT, Riga, Latvia in May 2017-2025.
- The First International Conference on Sustainable Water Management and Resource Adaptation: Security and Energy Nexus was held in Paris, France, from November 12 to 13, 2024. Organized in collaboration with Université Paris Cité
- 17th International Conference on Engineering of Modern Electric Systems, EMES 2023. Oradea, Romania - 6/2023
- Green Urbanism (GU) - Various locations and years (2016, 2018, 2019, 2020)
- Alternative and Renewable Energy Quest (AREQ) - Barcelona, Spain (2017), online (2020)
- Urban Planning and Architectural Design for Sustainable Development (UPADSD) - Various locations and years ( 2019, 2020)
- Cultural Sustainable Tourism (CST) - Thessaloniki, Greece (2017), online (2020)
- Future Smart Cities (FSC) - Cairo, Egypt (2018), Xiamen University, Malaysia (2019), online (2020)