

ABET Curriculum Vitae



1. **Name:** Nour M. Khliafat

2. **Education:**

- Doctor of Philosophy (Renewable energy Engineering), University of Technology Sydney, Australia | 2018 – 2022

Dissertation: Feasibility and Energy Efficiency of Wind Turbines in New South Wales

- Master of Science in Mechanical Engineering (Renewable Energy), University of Jordan, Jordan | 2013 – 2015

Thesis: Energy Harvesting using Alternator installed on Sport Machine

- Bachelor of Science in Mechanical Engineering, University of Jordan, Jordan | 2008 – 2013
- High School Secondary Degree National Certificate(93.4%), Tawjihi | 2008

3. **Academic experience**

- Participated in various training online courses to gain understanding, evaluation, analysis and interpretation of good and poor findings in the wind energy field | 2018
- CareerHub, UTS | 2018, 2019, 2020
 - Attended different workshops and events to improve communication skills and for personal development.
- UTS Workshops such as Endnote Workshop | 2019
 - Developed skills and knowledge of publishing papers to maximise the impact of research and promote research outcomes through clearer messages.
- Attended CEE school and FEIT showcases | 2019 & 2020
 - Improved presentation skills
- Assisted a student, Ruel, Ashoor on his Capstone Project: Renewable Energy and Wind Power, University of Technology Sydney | 2020

4. Non-academic experience

- Mechanical Engineer, Ideal Engineering Systems Company, Jordan | 2013
 - Provided a full spectrum of mechanical services as well as operational and design HVAC system.
- Energy Audit Project, Registration and Administration Building, The University of Jordan | 2014
 - Assessed the energy performance of Registration and Administration Building of the University of Jordan.

5. Certifications or professional registrations

Jordan Engineers Associations

The Institution of Engineers Australia

6. Current membership in professional organizations

Professional member in the Institution of Engineers Australia

Member of Jordan Engineers Associations

7. Honors and awards

- 2019 FEIT Female HDR Top-up Scholarship, University of Technology Sydney, Australia
 - Promoted and raised the profile of the work of female FEIT (Faculty of Engineering and IT) HDR (Higher Degree Research) candidates and encourage female HDR candidates to evaluate and increase the impact and contribution of their projects and publications.
 - Awarded based on the highly competitive selection process, with consideration to works, projects or studies that demonstrated exceptional and outstanding achievement in Engineering and have demonstrated significant impact.
- Best Presented Paper Award at the International Conference on Recent Innovations in Engineering and Technology, Australia | October 6 – 7, 2019 (International Institute of Engineers and Researchers)

8. Service activities (within and outside of the institution)

International Conference on Recent Innovations in Engineering and Technology (ICRIET) Australia | October 6 – 7, 2019

9. Most important publications and presentations from the past five years

1. N. Khlaifat, A. Altaee, J. Zhou. Assessment of wind energy potential at Yanco, New South Wales, Australia. International Journal of Industrial Electronics and Electrical Engineering. 8 (2020) 26-30.

2. N. Khlaifat, A. Altaee, J. Zhou, Y. Huang, A. Braytee. Optimisation of a Small Wind Turbine for a Rural Area: A Case Study of Deniliquin, New South Wales, Australia. *Energies*. 13 (2020) 2292.
3. N. Khlaifat, A. Altaee, J. Zhou, Y. Huang. A review of the key sensitive parameters on the aerodynamic performance of a horizontal wind turbine using Computational Fluid Dynamics modelling. *AIMS Energy*. 8 (2020) 493-524.
4. N. Khlaifat, A. Altaee, J. Zhou, Y. Huang. Evaluation of wind resource potential using statistical analysis of probability density functions in New South Wales, Australia. *Energy Sources, Part A: Recovery, Utilisation, and Environmental Effects*. (2020) 1-18.
5. N. Khlaifat, A. Altaee, J. Zhou, Y. Huang. Statistical analysis of wind characteristic in Yanco agricultural institute, Australia. *International Journal of Smart Grid and Clean Energy*. 10 (2021) 1-7. 6.
6. N. Khlaifat ,and Al-Omari, Z. Statistical Wind Energy Potential Assessment in Ras Munif, Jordan. In 2022 International Engineering Conference on Electrical, Energy, and Artificial Intelligence (EICEEAI) (pp. 1-4) (2022). IEEE.
7. Al-Omari, Z., N. Khlaifat, and Banimustafa, A. Genetic Algorithm for Optimizing Blade Shape of Horizontally-Oriented Wind Turbine at Ras-Munif, Jordan. In 2023 International Conference on Machine Learning and Cybernetics (ICMLC), July (2023) (pp. 393-398). IEEE.
8. Attitudes and Perspectives for Installing EV Charging Station: A Case Study at Isra University, Jordan (Accepted)(2024)
9. A Feasibility Study of Combining Solar/Wind Energy to Power a Water Pumping System in Jordan's Desert/Al-Mudawwara Village.(Under Review)(2024)

10. Briefly list the most recent professional development activities

Leading high-quality research in areas related to the emerging field of renewable energy systems, solar thermal systems, energy efficiency and management, wind turbine design, wind assessment, optimisation, and computational fluid dynamics.