

## CURRICULUM VITAE

# Saja Albdairat

Mutah, Alkarak, Jordan

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## EDUCATION

- PhD in Chemical Engineering, University of Sheffield, United Kingdom (February 2023)
  - Research area is Dynamic modelling of CO<sub>2</sub> capture process integrated with NGCC power plant using Aspen plus and Matlab
- Master of Science in Chemical Engineering specialized in Corrosion control engineering, The University of Manchester, Manchester, United Kingdom (September 2017 – September 2018)
  - Courses taken in the areas of Corrosion Control, Process and Power Industry and Material Design
  - Master Thesis was the effect of chemical inhibitors in preventing corrosion in carbon steel pipeline
- Bachelor of Engineering in Chemical Engineering, Mutah University, Karak, Jordan (September 2008 – June 2013)
  - Courses taken in the areas of Process Control, Heat and Mass Transfer, Separation Units, Thermodynamics, Chemical Reactions Engineering, Organic Chemical and Analytical Chemical.
  - Graduation Project was “Waste water treatment by supercritical water”.

## WORK EXPERIENCE & INTERNSHIPS

- Teaching Assistant, Chemical and Biological Engineering Department, University of Sheffield, United Kingdom (February 2020 – December 2022).
  - Aspen Plus Teaching Assistant, Chemical and Biological Department, Spring 2020 and Fall 2020.
  - Process simulation and modelling, Chemical and Biological Engineering Department, Spring 2020 and Fall 2020.
  - Environmental engineering, Chemical and Biological Engineering Department, Fall 2020.
  - Process design, Chemical and Biological Engineering Department, Fall 2021.
- Chemical Engineer (Trainee), Arab Potash Company., Jordan (January 2014 –July 2014), It was a practical training program on:

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- Reverse Osmosis of Purifying water and process of Brine to produce dry salt from its raw material.
  - Testing the water PH, Chlorine, Total Suspended solids, Dissolved Oxygen test Calcium Carbonate test, Silica, Total Hardness, Titration and Transport plus of boiler.
  - Testing Salt Moisture, Purity and ...etc.
  - Operation and Control of Salt Production Process.
- Chemical Engineer (Trainee), Jordanian National Poultry Company Jordan (October 2013 –January 2014). It was a practical training program on water testing.

### SCHOLARSHIPS & AWARDS

- Mutah University Scholarship, to pursue Master and Ph.D. of Chemical Engineering.
- Army, to Pursue Bachelor of Engineering at Mutah University.

### Memberships

- Jordanian Engineers Association.

### Training and Workshops

- How to get Published paper with IEEE, the University of Sheffield, 25/09/2019.
- Introduction to teaching as a GTA, the University of Sheffield, 29/08/2019.
- Assessment and Feedback, the University of Sheffield, 27/09/2019.
- Lab Demonstration, the University of Sheffield, 23/07/2019.
- Research Supervision, the University of Sheffield, 21/11/2019.
- Matlab Tutorial, the University of Sheffield, 25/06/2019.
- Ethics and Research Integrity in Engineering, the University of Sheffield, 21/04/2019.
- Guide to attending Conferences and making conference posters, the University of Sheffield, 22/05/2019.
- Teaching Design and delivery, the University of Sheffield, 25/04/2019.
- Postgraduate Research Conference, the University of Sheffield, 18/06/2019.
- Attending Symposium (Decarburization of the Fossil Fuel Combustion Industry via Carbon Capture Utilization and Storage), the University of Sheffield, 28/05/2019.

### Conference

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- GHGT-16: Oral presentation about Techno-economical assessment of solvent-based post-combustion CO<sub>2</sub> capture through process modification (multi absorber feed with Inter-heating stripper) for commercial scale CCGT power plants, Lyon, France.

### Course Name

- Thesis writing: Principles and practice, the University of Sheffield, fall 2019.
- Speaking skills for Research Purposes, the University of Sheffield, fall 2019.
- Instrumental Chemical Analysis (theory and practice on GC-ECD, GC-MC, HPLC, IC, UV-VIS, Spectrophotometer, AAs, Mutah University, Jordan, from 09/2014 to 10/2014.
- ISO14001, ISO18001, Jordanian Engineers Association, Jordan, 01/2015 to 02/2015.

### Computer Knowledge

- Matlab/Octave
- Operating system
- Aspen Plus/ Aspen Dynamics
- Microsoft office
- Python

### Professional Skills

- Project Assessment
- Team Building & leadership
- Aspen Plus solving Problems

### References

Available upon request