

# Latifah Thamer S Alkhalidi

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## Personal Summary

A Chemical and Nuclear Engineering graduate adept at tackling complex engineering challenges and designing innovative solutions for the nuclear and chemical field. Throughout my academic journey, I've demonstrated a keen aptitude for intricate engineering design projects. My problem-solving abilities have been honed through experiences in critical thinking and application of engineering principles to real-world scenarios. My adeptness in collaboration and leadership is evident through coursework and extracurricular activities. I've thrived in team-based projects and assumed leadership roles in challenging environments. My passion for continuous learning is highlighted by my involvement in a multitude of workshops, seminars and training programs. These experiences have fostered my ability to adapt to new situations and effectively communicate complex ideas, as demonstrated by my active participation in public speaking engagements. Committed to making a positive impact beyond academia, I've dedicated time to volunteering efforts. Notably, my engagement in various student clubs and societies showcases my dedication to fostering a diverse and inclusive environment. Recognitions such as the Award of Achievement from the Saudi Arabian Cultural Bureau in London underscore my commitment to excellence. I'm eager to leverage my comprehensive skill set, technical expertise and holistic approach to contribute effectively to innovative projects and drive positive change.

## EDUCATION

**Chemical and Nuclear Engineering**  
**Bachelor of Engineering (BEng)**  
**University of Leeds**  
**Leeds, UK**

**2020 - 2023**

International Foundation Programme (Engineering, Computing and Life Science)  
Liverpool John Moores University  
Foundation Certificate, with Distinction

**2019 - 2020**

## RELEVANT COURSEWORK AND MAJOR PROJECTS

**Design a highly active liquid effluent treatment and storage plant** – known as the Highly Active Liquor Evaporation and Storage (HALES) plant.

**Design of Highly Active Storage Tank (HAST) for Highly Active Liquor (HAL):** Detailed design of the storage tank for Highly Active Liquor including cooling/mixing arrangements. Shortcut sizing of the external heat exchanger (including specification of heat exchanger type, e.g. shell & tube or plate, number of tube/shell passes, overall heat transfer area, number of tubes/plates, pressure drop, etc.) as the auxiliary item

**Nuclear Operations:** assessing data characterising the performance of a natural zeolite (clinoptilolite) to remove radioactive caesium ions, and the subsequent pumping of the exhausted material at the SIXEP plant in Sellafield.

**Use of SEPARENT 2 to determine criticality:** calculating the k-eff for 4 different systems in a large tank containing an aqueous solution of 3 mol/l HNO<sub>3</sub> with varying amounts of uranium and plutonium.

## AREAS OF EXPERTISE

- |                             |                      |                           |                             |
|-----------------------------|----------------------|---------------------------|-----------------------------|
| ✓ AutoCAD                   | ✓ Aspen HYSYS        | ✓ Serpent 2               | ✓ CES Edu Pack              |
| ✓ Problem Solving           | ✓ Team Collaboration | ✓ Leadership & Delegation | ✓ Change Management         |
| ✓ Risk Assessment Reporting | ✓ Public Speaking    | ✓ Client Relationships    | ✓ Data Analysis & Reporting |
| ✓ Critical Thinking         | ✓ Time Management    | ✓ Strategy Execution      | ✓ Project Management        |

## ACTIVITIES/ORGANIZATIONS

- Participated in National Citizen Service (NCS)
- Participated in UCL debating society event
- Participated in Manchester Youth Council event

**July 2018**

**May 2017**

**April 2017**

- Participated in Race for Life (Cancer Research UK) **June 2014-2018**
- Participated in Levenshulme Art Exhibition (Photography) **July 2018**
- Member of Debate Mate **November 2015-2018**
- Member of Ministry of Education Scholarships Programme **2018-Present**

### **VOLUNTEERING ACTIVITIES**

- Volunteer at Penny Appeal Charity **2017**
- Volunteer at the Saudi Student club in Manchester' Cultural Event, Manchester, UK **2017**
- Volunteer at the Manchester Islamic & Cultural Centre, Manchester, UK **June 2017**
- Volunteer at the Saudi Cultural and Civilization Exhibition, Manchester, UK **April 2017**
- Volunteer at the Saudi Student club in Manchester, Liverpool and Leeds, UK **2017- Present**

### **Internships**

- MWG Solicitors **2017**
- Chemical Engineering Student Ambassador at the University of Leeds School of Chemical and Process Engineering **2020-2023**

### **TRAINING/CERTIFICATIONS**

- Attending "Using Mental Mapping in Distance Learning" and "Using OneNote Program in Distance Learning" Workshop, hosted by the GCC and the Arab Bureau of Education for the Gulf States (ABEGS). **Dec. 2020**
- Attending the British Academy of Management (BAM 2020 Conference in The Cloud, UK). **Sept. 2020**
- Attending "Your way to future by building your CV", hosted by Mohammed Bin Salman Foundation (Misk). **July 2020**
- Attending "An Introduction to Hubspot and ways that startups can benefit from it" Workshop, hosted by Prince Mohammad bin Salman College (MBSC) of Business and Entrepreneurship, delivered by Ahmad Mushtaq, "Founder of Sohoby" **July 2020**
- Attending "Personal Branding 101" Workshop, hosted by Prince Mohammad bin Salman College (MBSC) of Business and Entrepreneurship, delivered by Khayra Bundakji **June 2020**
- Attending "The Effect of COVID-19 on Investment", an episode from Webinar Series "COVID-19 Game Changer" hosted by Prince Mohammad bin Salman College (MBSC) of Business and Entrepreneurship, in collaboration with Startup Grind Makkah to discuss how investment opportunities have been affected by the current situation, Makkah, Saudi Arabia **April 2020**
- Attending The 1st virtual Majmaah University Societal Forum titled "Our responsibilities during the challenging times of Coronavirus crises" **March 2020**
- Preparing and publishing academic papers, Dr. Haya Alshehri, Manchester, UK. **April 2021**
- Co-Operative Bank Workshop, Manchester, UK **April 2019**
- First Aid training session, Manchester, UK **Sept. 2017**
- Introduction to Cybersecurity; Cisco Networking Academy **Oct. 2020**
- What is Cyber Security Anyway?; University of Lancaster University **July 2022**
- Entrepreneurship; Cisco Networking Academy **August 2020**
- Labour Market Skills in Light of the Fourth Industrial Revolution; Mobaderoon King Khalid University **July 2020**
- Future Road to the basics of CV; Mohammed Bin Salman Foundation (MISK) **July 2020**

### **AWARDS & ACKNOWLEDGMENTS**

- Saudi Arabian Cultural Bureau in the London, letter of appreciation for voluntary contribution for Students' Activities in the UK during the Academic year 2018-2019
- Saudi Arabian Cultural Bureau in London, Award of Achievement -for Academic Outstanding at a UK Higher Education Institution during the Academic year 2019 -2020
- Consistent Excellent Attendance at Liverpool John Moores University 2019-2020
- Academic Excellence at Liverpool John Moores University 2019-2020