



Hussein EL Gharib

Energy and Chemical Engineer

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Skills

Geothermal Energy



Renewable Energy



Production Chemistry



Solar PV Panel Installation



System Testing



Hazop and Risk Assessment



Chromatography



Industrial Chemistry



Technical Report



Microbiology& Chemistry Lab



Polarizing microscope



Chemical Engineering Lab



Certifications

OSHA Certificate

OSHA

March 2017

Carbonate Reservoir Development

Applied Stratigraphic -Colorado

January2018

<https://www.stratigraphyhelp.com/>

Geothermal Energy-From Potential To Implementation.

Turin-SPE

June 2024

Geothermal Heat Pump Days

EGEC-Dublin

October 2024

Carbon Capture,Utilization and Storage.

TU Delft

June2025- July 2025

Awards

Presidential Award Top 5 Worldwide SPE Section 2020

Languages

English

Fluent



Arabic

Native



French

Novice



Dutch

Novice



Summary

Passionate and Driven Chemical , Energy Engineer with a strong academic background, holding a Master's and Bachelor's (Hons) in Energy Engineering and an HND in Chemical Engineering. Experienced in leadership and technical roles, proficient in HYSES, Integrated Modelling, Petrel, and Eclipse. Currently lecturing Energy Engineering at BAU, teaching Undergraduate students. Specialized in Renewable Energy, with recent training in Geothermal Energy (Shallow & Deep Heat Wells) in Turin and Dublin. Active Researcher on Carbon and Hydrogen Long-Term Storage in lithological formations, lately attended TU Delft Summer School In the Netherlands for Carbon Capture and Storage, Proud SPE member and founder of SPE Beirut Section.

Experience

Beirut University

Senior Lecturer

September 2015-Present

Lebanon

- Conduct extensive research to stay updated on advanced technical challenges in Energy Engineering.
- Deliver lectures on cutting-edge topics, ensuring students grasp complex engineering concepts.
- Develop and assess exams and coursework to enhance students' problem-solving skills.
- Collaborate with faculty to refine curriculum structure, aligning with ABET Accreditation standards.
- Teach a range of modules, including:
 - Petroleum Geology & Exploration Methods
 - Reservoir Rock Geo-mechanics
 - Well Logging & Reservoir Characterization
 - Drilling & Production Operations
 - Geothermal Subsurface Engineering
 - Physical Geology & Geology of Lebanon
 - Environment & Safety

Society Of Petroleum Engineering

Chairperson

June2018-Present

Beirut

- Analyze membership data and report key statistics to the technical section board.
- Maintain and update a comprehensive database of members.
- Develop and implement strategies to grow technical section membership.
- Encourage member engagement through volunteering and participation in activities.
- Promote global participation within the technical section.

Education

London South Bank University

HND Chemical Engineering

Merit

September 2008-June 2010

Final Year Project Thesis: "Biofuels Syngas from Methane Processes"

Involving a section of plant design including P&ID, Mass and Energy Balance and Economics.

London South University

BEng Energy Engineering

First Class

September 2010-June2012

- Developed strong scientific and managerial skills for business organizations.
- Gained expertise in key areas of Energy, Chemical, and Mechanical Engineering, including:
 - Reactor Design & Corrosion
 - Separation Processes
 - Computer Modelling & Process Control
 - Economics & Project Management
 - Health, Safety & Environmental Considerations
- Applied theoretical knowledge in practical projects, integrating engineering and management principles.

London South Bank University

Msc Energy Engineering

Merit

June 2012-December 2013

Dissertation thesis About Microbial Enhanced Oil Recovery

Delft University Of Technology

Engineering

<https://www.tudelft.nl/>

June 2025-July 2025

Summer School

Carbon Capture,Utilization and Storage.

Volunteering

SPE-Beirut Section

Membership-Chairperson

<https://www.spe.org/en/section/240>

June2018-Present

Beirut