

HADI AL ASHMAR

Chemical engineer

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Summary

Innovative and results-driven chemical engineer with a Master's degree in Sustainable Chemistry. Extensive experience in R&D roles, including positions at the INRS and IFPEN. Skilled in process optimization, data analysis, and experimental design. Proven ability to contribute to scientific journals and regulatory protocols. Eager to apply knowledge and skills to support innovative projects in a dynamic environment. Proficient in Aspen HYSYS, MATLAB, and process modeling. Excited to contribute to advancing your organization's mission.

Experience

Institut Français Du Pétrole et Des Energies nouvelles (IFPEN) Rueil Malmaison, France
R&D chemical engineer 09/2023 - Present

- Conducted a bibliographic synthesis on more than 50 types of particles and characteristics crucial for producing relevant non-exhaust particles.
- Developed strategies for conditioning and generating non-exhaust particles in the aerosol phase.
- Established experimental setups to characterize non-exhaust aerosols by size, composition, and evolution.
- Published significant findings in scientific journals, contributing to the development of regulatory protocols for non-exhaust particulate emissions.
- Mentored intern to build a testing bench, enhancing research capabilities.

Institut National de Recherche et de Sécurité (INRS) Nancy, France
R&D chemical engineer 03/2022 - 08/2022

- Assessed welding fume chemistry impacting worker health, studying oxidative potential.
- Evaluated prototype efficiency in measuring aerosol oxidizing potential for design improvements.
- Analyzed spectrophotometer data, managing complex datasets in Excel for accurate results.
- Authored a comprehensive report, contributing to scholarly articles on occupational health.

Al-Barouk paper recycling plant Al Barouk, Lebanon
Process engineer 01/2021 - 06/2021

- Increased process efficiency by 30% by introducing new chemicals.
- Developed waste water treatment process, reducing water usage by more than 50% through sedimentation.
- Authored the graduation report, leading to some implemented propositions.

Al Zahrani oil refining installations laboratory Al Zahrani, Lebanon
Chemical engineer 06/2019 - 08/2019

- Performed analysis on petroleum samples using ASTM and IP test methods, ensuring global quality standards
- Ensured compliance of petroleum products with country regulations through meticulous verification processes.

Education

Claude Bernard university Lyon, France
Master 2 in Synthesis, catalysis, and sustainable chemistry 2021 - 2022

- Overview of advanced methods of modern synthetic chemistry and applying the principles of green chemistry and
- Different approaches adopted by the chemists to decrease the environmental impact of the chemical transformations

Lebanese university Beirut, Lebanon
Chemical and petrochemical Engineering Diploma 2016 - 2021

- Applying basic principles in Chemical and Physical Sciences to the development, design, operations, and control of plants
- Processing of raw materials from petroleum and organic sources to obtain useful products for human consumption

High School Beirut, Lebanon
General Science Bacallaureate 2015 - 2016

Skills

Aspen HYSYS • PFD • P&ID • Matlab • Microsoft Office • Process modeling • Autocad • SolidWorks • LabView

Languages

Arabic Native ●●●●●

English Proficient ●●●●●

French Intermediate ●●●●●