



Ifrah SHEIKH

PROFIL

I am a Master 2 student in Process Engineering at Université Claude Bernard Lyon 1, currently completing an internship at the Catalysis, Polymerization, Processes and Materials Laboratory (CP2M). I am particularly interested in pursuing a PhD in the field of polymerization, catalysis, and process modeling, where I can apply and deepen the skills acquired during my academic background and research experience.

WORK EXPERIENCE

CP2M Laboratory | Research Intern feb 2025 - july 2025



Investigation of the fragmentation behavior of Ziegler-Natta and metallocene catalysts during ethylene gas-phase polymerization. I compared the two catalysts under identical conditions in a full-scale gas-phase reactor, focusing on the influence of catalyst type on polymer morphology and properties. I also studied the early-stage fragmentation specifically for the metallocene catalyst using a stopped-flow gas-phase reactor. Polymer samples were analyzed using SEM, DSC, RMN and high-temperature SEC to assess the impact of reaction conditions and catalyst fragmentation on particle structure.

CP2M Laboratory | Modelling intern apr 2024 - aug 2024



Development of a model to understand the impact of the internal morphology of polymer particles on mass transfer phenomena during gas-phase polyethylene production.

DOMITYS | Reception and Administration dec 2022 - jan 2023

Welcoming and informing customers - collecting payments - processing files - managing reservations

EHPAD La Solidage | Multi-skilled employee apr 2019 - sept 2024

- Reception: Receive and inform families
- Catering: Prepare the restaurant for meals

EDUCATION

2023 - 2025 : Master's Degree Process and bio-process engineering

Université Claude Bernard Lyon 1, France.

Fluid mechanics, reactor design, thermodynamics, process safety, parametric identification, polymerization
Project: Study of drying kinetics and transfer phenomena in cucumbers

2019 - 2023 : Bachelor's Degree Physics Chemistry Process Engineering

Université Claude Bernard Lyon 1, France.

C language programming, dimensioning, study of heat and material transfer phenomena (heat exchangers), chemical bases
Project: Drying granular products in a fluidized bed

2019 : Scientific Baccalaureate

Lycée Louis et August Lumière, Lyon 8, France.

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🚗 Driving license and vehicle

SKILLS

- Dynamic, independent, sociable
- Process Modeling
- Process Optimization
- Project management

SOFTWARE

- LaTeX
- Microsoft Office
- Matlab
- Labview, Codesys
- Aspen

LANGUAGES

- English (level C1)
- Spanish (level A2)
- French (native)
- Urdu (level C2)