

JULIA FLOREZ ABLAN

Materials Engineer - PhD Candidate

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Venezuelan

Spanish



PROFESSIONAL SUMMARY

Materials Engineer and PhD candidate specialized in polymers, recycling techniques, characterization, and heterogeneous catalysis in an international and multidisciplinary environment. Experienced in industrial research and development, polymer formulation, technical services, and circular plastic technologies through roles at IFP Energies nouvelles, LyondellBasell, and reasearch lab (Afinko).

PROFESSIONAL CAREER

PhD - Hydrogen assisted recycling of polyolefins on acid/metallic bifunctional catalysts

IFP Energies nouvelles

Nov 2023 - On going (Nov 2026) Lyon, FR

- Conducting research on catalytic recycling of polyolefins through hydrogen-assisted conversion processes. Working with acid/metal bifunctional catalysts for advanced plastic valorization.
- Performing catalyst and polymer characterization as well as reaction analysis.
- Collaborating in an international research environment focused on industrial applications.

Application Development and Technical Services (ADTS)

lyondellbasell

Sept 2022 - Oct 2023

Sumaré, BR

- Provided technical support to customers regarding polymer processing, characterization and applications.
- Delivered technical trainings and product application guidance.
- Collaborated with multidisciplinary teams in R&D and commercial projects.

Product Development and Application (PAD)

lyondellbasell

Jan 2020 - Sept 2022

Sumaré, BR

- Research & Development of Masterbatches
- Managed technical projects and coordinated product development activities.
- Participated in formulation optimization and industrial validation.
- Worked closely with application engineering and production teams.

Researcher

Afinko Soluções em polímeros

Feb 2019 - Dec 2019

São Carlos, BR

- Developed polymer characterization methodologies and testing procedures.
- Performed polymer characterization and analysis for industrial applications.

QUALIFICATIONS

Materials Engineering - Polymeric materials specialization

Universidade Federal de São Carlos

Jan 2014 - Dec 2018

São Carlos, BR

RECOGNITIONS

- Best PhD oral presentation IFPEN catalysis direction 2026
- Best poster price French Catalysis Conference (FCCat 2025)
- LYB recognition for leadership and knowledge in project management tool implementation)
- "Mérito" Scholarship - Scholarship granted to foraging students with academic excellence that are part of the PEC-G cultural exchange program.

TECHNICAL SKILLS

Polymer and Materials Engineering

Polyolefins and polymer recycling

Polymer formulation and masterbatches

Polymer processing and applications

Circular plastics technologies

Polymer characterization techniques

Technical customer support

Product and application development

Heterogeneous catalysis

Heterogeneous catalyst characterization

LANGUAGES

English
Portuguese
Spanish
French

