

Vaiana Moreau

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SUMMARY

With both a Bachelor's and a Research Master's degree in Chemical Engineering from Polytechnique Montréal, I have a strong scientific and theoretical background complemented by extensive laboratory experience. I have developed solid skills in experimental project management, student supervision, and scientific writing. Organized, detail-oriented, and motivated, I aim to leverage my technical experience, teamwork skills, and research abilities in an industrial environment.

SKILLS

Software: Microsoft Office Suite (Word, Excel, PowerPoint, Outlook, Visio, MS Project), Aspen Hysys, SketchUp, LabVIEW, COMSOL

Programming Languages: MATLAB, Python

Technical Skills: P&ID, PFD, mass and energy balances

Soft Skills: Organization, autonomy, leadership, teamwork, analytical mindset

Languages: French (native), English (advanced)

EDUCATION

Master of Science in Chemical Engineering – Biomaterials & Cell Culture, Polytechnique Montréal *May 2023 – August 2025*
Degree awarded with distinction

Bachelor's Degree in Chemical Engineering, Polytechnique Montréal, Canada *August 2018 – May 2023*

French Scientific Baccalaureate, Lycée Samuel Raapoto, Tahiti, French Polynesia *June 2017*
With honors (Equivalent to second year of college diploma)

RELEVANT EXPERIENCE

Laboratory Instructor for Polymer Materials and Organic Chemistry Courses, Polytechnique Montréal *August 2023 – December 2024*

- Coaching students in laboratory settings
- Preparing and leading laboratory sessions
- Grading and providing support for report writing

Chemical Engineering Consultant (4th-year Bachelor student – Capstone Project), GCM Consultants (in collaboration with Polytechnique Montréal) *August 2022 – April 2023*

- Propose alternative solutions to a problem in a pharmaceutical process
- Perform a HAZOP analysis
- Manage project planning using MS Project
- Conduct technical and economic analyses (OPEX, CAPEX) for the proposed solutions
- Integrate sustainable development principles and safety considerations into the design of the solutions

Research Intern: Biomaterials for Cancer Treatment, Polytechnique Montréal *June 2021 – April 2023*

- Drafting experimental protocols
- Planning and organizing analytical tests

- Characterizing mechanical properties and material microstructure
- Collaborating with another university
- Contributing to scientific article writing
- Training new students in gel preparation techniques

Laboratory Technician (Internship), CAIRAP, Tahiti, French Polynesia

August 2020 – December 2020

- Determining analytical method detection limits
- Preparing method validation documents
- Conducting dosage tests
- Performing daily water and food analyses following hygiene standards
- Conducting literature reviews on existing protocols
- Planning and ensuring task continuity

OTHER EXPERIENCE

Première Moisson, Customer Service, Montréal, Canada

September 2024 – Present

- Welcoming and advising customers

Laura Secord, Customer Service, Montréal, Canada

June 2021 – October 2021

ACADEMIC ACTIVITIES

SSM13 (Summer School on Medicines), Barcelona, Spain

July 2023

- Oral presentation on macroporous hydrogels for neural cell culture

SCHOLARSHIPS AND AWARDS

PrEEMiuM Scholarship(10,000 CAD/year)

May 2023 – May 2025

- Awarded for academic excellence and research in energy efficiency and materials.

UPIR Scholarship(1,500 CAD)

October 2022 – April 2023

- Merit-based scholarship supporting research during bachelor's program.

UPIR Scholarship(1,500 CAD)

October 2021 – April 2022

- Recognized for academic performance and research potential.

VOLUNTEER ACTIVITIES

Member, CEES-GCH Student Committee (Graduate Studies Committee in Chemical Engineering)

May 2024 – August 2025

- Contributed to departmental decision-making on graduate program structure and student experience.

VP Activities, AEPF (French Polynesian Students Association)

Sept 2022 – Sept 2023

- Organized social, cultural, and fundraising events for the student community.

Member, PolyShow Student Committee

Jan 2018 – March 2020

- Helped coordinate the university's annual talent show and student performances.

Additional Informations

- Possession of a Class 5 driver's license
- Permanent resident of Canada
- References available upon request
- Possibility of access to a salary grant eligibility letter (PRIIME program)