Jamie Faubert

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EDUCATION

University of Waterloo September 2020 - Present
Master of Environmental Studies, Sustainability Management (Industrial Ecology Group)

University of British Columbia September 2015 -May 2020
BASc, Materials Engineering (specialization in Minerals and Metals Extraction), Minor in Commerce, Co-op

EXPERIENCE

Redwood Materials Carson City, NV
Chemical Engineer | Engineering Team June-August 2020

- Developed comprehensive VBA heat & mass balance model of a novel electric-vehicle battery recycling plant
- Worked cross-functionally with finance team to select the most cost-competitive vendor for process reagents
- Performed material selection, sizing, and cost analysis for equipment used in full-scale operation
- Generated and analyzed process data used to optimize capital and operational cost while improving overall efficiency

Apple Cupertino, CA
Recycling Technologies Engineer | Environmental Technologies Team January-August 2019

- Developed and lead implementation of corporate closed-loop strategy on zinc for low-carbon recycled supply chains
- Supported corporate closed-loop initiative by providing technical expertise on copper, gold, lithium, and other materials
- Conducted market research of global commodities markets evaluating market size, prominent players, and price outlook
- Worked with finance, procurement, product design, and manufacturing teams to successfully implement NPI projects

The Hydromet Group Vancouver, BC
Research Assistant | Dr. David Dreisinger May-August 2018

- Conducted pressure oxidation experiments for cesium leaching from soil samples and analyzed data from results
- Performed bench-scale lead electrowinning experiments for optimization of pilot plant testing
- Executed and collected experimental results for manganese precipitation and improved control of crystal size

McIntosh Lalani Engineering Calgary, AB
Materials Testing Technician | Soils Division May-December 2017

- Performed density tests on soils and aggregates using analytical equipment at six new housing development sites
- Consulted with clients of on-site geotechnical problems using test results and provided suggestions to resolve issues
- Drafted daily project updates for management outlining key project milestones, complications, and resolution

LEADERSHIP

UBC Materials Engineering Undergraduate Club May 2019 — April 2020
President

- Lead a team of eleven executives in organizing professional development events, research programs, and social outings
- Served as an ambassador for undergraduates Materials Engineering students and advocated for student support
- Successfully implemented a new social media platform aimed at promoting events happening in the department

TECHNICAL PROJECTS

Senior Capstone Project September - December 2019
Design and Economic Feasibility of Gold Leaching Plant

- Conducted design and economic viability of three technically feasible gold leaching processes for fabricated mine along with four group members under the supervision of Dr. Dreisinger and Dr. West-Sells
- Developed sizing and economic model of the atmospheric leaching process with CIP and neutralization operations

SKILLS & INTEREST

Technical: LCA (ISO:14044), VBA, Macros, Microsoft Suite, Python
Interest: Sustainability, Commodities, Economics, Skiing, Surfing, Hiking, Running
Languages: Fluent in English and French