

RYAN JUNG

University of Waterloo - 4A Chemical Engineering

8 Hickory St W Waterloo, Ontario, N2L 3H6 (226)-868-5980 r2jung@uwaterloo.ca

Chemical engineering student (fourth year) with 6+ coop/internship experiences in oil and gas, pharmaceuticals/vaccines, engineering teaching, and lab testing. Looking to cultivate my knowledge and experience into a role as a future Professional Engineer.

PROFESSIONAL EXPERIENCE

UNIVERSITY OF WATERLOO, Waterloo, Ontario

Engineering Teaching Assistant, January 2016 – April 2016

- Worked as an engineering teaching assistant for all 1B engineering calculus courses, in support of over 500 first year engineering students at the University of Waterloo (Waterloo Engineering Endowment Fund).
- Responsible for holding daily tutorial sessions and open office hours, working closely with students to help convey key concepts, practice problems, and solution methodologies.

SANOFI PASTEUR CANADA, North York, Ontario

Bioprocessing Formulations and Stability Co-op, January 2014 – December 2014

- Conducted research activities for bioprocessing scale-up for vaccine candidate materials in pre-clinical phases, in terms of vaccine manufacturing and vial filling.
- Experience with aseptic operation (used to reduce cross-contamination potential), sterilization techniques, handling of biohazardous materials, and performed biochemical quantitative assays to characterize protein and antigen formulations.
- Performed highly sensitive and time-limited batch formulations of expensive final vaccine products for developmental studies.

FLUOR CANADA, Calgary, Alberta

Stress Engineering Intern, January 2013 – April 2013

- Performed stress analysis of pipe and refinery systems forwarded from the pipe design department for modularized piping/vessel systems.
- Analysis included thermal and weight loads of vessels on skirts, and different loads/moments on pipe layouts and flanged connections to meet compliancy guidelines.

JANA LABORATORIES, Aurora, Ontario

Junior Project Technical Lead, May 2012 – August 2012

- Worked with the technical research engineering team assisting in managing lab projects and setting up work protocols and procedures for plastic pipe testing.
- Helped design new equipment for lab testing, involving abrasion testing of plastic piping with tailings liquids and prolonged dilute sulfuric acid exposure testing at elevated temperatures for resin pucks in a circulation bath.

PROVIDENT ENERGY LTD. (acquired by Pembina), Calgary, Alberta

Midstream Engineering Student Intern, September 2011 – December 2011

- Worked with the project and process midstream engineering team working on railcar transport and cavern storage of condensates performing day-to-day activities.
- Used AutoCAD to revise, design, and As-Built engineering drawings that needed to be finished on tight schedules for construction to begin in the field.

BONAVISTA ENERGY CORPORATION, Edson, Alberta

Plant Operations Co-op, January 2011 – April 2011

- Worked with the plant operations team assisting in the daily operations and maintenance of a sour natural gas plant.
- First-hand exposure to compressors used for gas throughput and acid gas injection, heat exchangers, high pressure steam boilers used to run all plant equipment, booster and reflux pumps for exchange/contact columns used to remove or scrub sour components from natural gas using a lean, recoverable sulfonal-amine solution.
- Assisted with well site check-ups to monitor pressures, proper gas metering, and temperatures were being maintained.

EDUCATION

UNIVERSITY OF WATERLOO, Waterloo, Ontario

Candidate for Bachelor of Applied Science, Chemical Engineering

- Expected graduation date of April 2017
- Cumulative GPA of 3.7 or 85%

SPRINGBANK COMMUNITY HIGH SCHOOL, Calgary, Alberta

Alberta Secondary School Diploma, June 2010

ADDITIONAL SKILLS

- Experience with a multitude of design and simulation software including but not limited to AutoCAD, AutoPIPE, Aspen Plus/HYSYS.
- Computer savvy, excellent understanding of Microsoft programs such as Word, Excel, Outlook, Powerpoint
- Programming knowledge in Matlab and C++

INTERESTS & HOBBIES

- Deep interest in processing, optimization, continuous design improvement, process control
- Hobbies include piano, guitar, hockey, golf, sketching and designing