

Leonardo Pennetta de Oliveira

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Work Experience

University of Alberta

Research Assistant

Edmonton, AB, Canada

January 2017 - August 2017

- Developed an online survey of perceptions of workers and contractors to interactively assess the safety culture of their industrial workplaces: identifying organizations' leading versus lagging indicators of safety, and confirm and correlate leading practices to improved safety performance.
- Leveraged these findings through the Construction Owners' Association of Alberta (COAA) by supporting the development of best practices and other techniques, tailored for organizations' safety culture 'receptor capacity'.

Syngenta

Quality Assessment Intern

Paulinia, SP, Brazil

January 2015 - July 2015

- Contributed to a project to promote internal marketing at the company in order to create an industrial process with better quality and safety for the coworkers.
- Led a project to improve the packaging design process to reduce fluid loss during the filling of bottles and thereby improve the quality of the sealing process.
- Participated in the research process and tracking counterfeit products to identify replicas and protect our customers.

White Martins (Praxair Inc.)

Process Engineering Intern

Paulinia, SP, Brazil

February 2014 - December 2014

- Contributed to a project that was a collaboration between White Martins and Volvo in which I utilized mathematics and chemical knowledge in order to determine the economic, environmental, and energetic viability of changing the fuel source of diesel vehicles to liquid natural gas.
- Developed analytical skills while inspecting inventory and compiling internal trackers of all the equipment in use in the field which were used for risk management and supervision of equipment usage and processes.
- Familiarized myself with new software that calculated specific information about liquid natural gas.

Natural Sciences and Engineering Research Council of Canada (NSERC)

Student Research Assistant

University of Alberta, Edmonton, AB, Canada

May 2013 – August 2013

- Developed knowledge about experimental processes related to the Alberta oil sands and the heaviest fractions of petroleum.
- Gained experience realizing protocols and assays for high temperature conversion of bitumen and microreactors.
- My duties also included analyzing the results from the experiments, interpreting the data, making oral presentations of my results to the research team, and writing a final report to document those results.

National Centre of Research on Energy and Materials (CNPEM)

Student Research Assistant

Campinas, SP, Brazil

January 2012 – June 2012

- Gained experience manipulating enzymes and proteins to breakdown the waste of sugarcane into ethanol, working with fermenters and various injectors in order to determine the viability of this production process in large-scale.
- Applied research and experimentation skills to complete Bradford protein assays that proved the appropriate production of proteins.

Education

University of Alberta

Master's Degree in Chemical Engineering

Edmonton, AB, Canada

September 2015 - December 2017

University of Campinas

Bachelor of Chemical Engineering

Campinas, SP, Brazil

February 2010 - June 2015

Teaching Experience

Teaching Assistant

University of Alberta

- CHE 318: Mass Transfer
 - May 2017 - December 2017
 - Taught seminars related to fundamentals of mass transfer principles including mass balances, Fick's law, diffusive and convective mass transport, and interphase mass transfer.
 - Graded the pre-laboratory reports and the laboratory reports.
- MAT E 202: Materials Science II
 - September 2016 - December 2017

- Taught experiments related to properties of materials, microstructure, and heat treatment of steel.
- Graded the pre-laboratory reports and the laboratory reports.
- CHE 345: Chemical Reactor Analysis I
 - January 2016 - April 2016
 - Taught seminars related to kinetics of chemical reactions and design of ideal chemical reactors.
 - Graded the assignments.

Special Project

Capstone Project

University of Campinas

- Promising food disinfection technologies were reviewed to reduce *Salmonella* contamination in eggs.
- Project was designed assessing the needs of consumers and egg producers.
- A combination of exposure to ozone gas and ultraviolet radiation techniques were combined and designed to reduce food contamination after the eggs were laid.

Volunteering

New Green Project

University of Campinas

June 2011 - July 2011

- Taught mathematics to students from low-income families in preparation for the National Exam of Secondary Education.

Youth Support Centre

High School Maria Imaculada “Dr. Piero Roversi”

August 2006 - July 2007

- Taught mathematics, chemistry, and physics to elementary and high school students from low-income families.

Awards

Science Without Borders

University of Alberta

September 2012 - August 2013

- Received a scholarship from the Government of Brazil to study in Canada for one year.

Software

Proficient in Microsoft Office Suite (Word, Excel, Power Point)

