

Kelly Zheng

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Education

Chemical Engineering
University of Waterloo
May 2019 | 3.8 GPA

Seeking 4 and 8-month
work-terms.

Skills

Languages: MATLAB, Java,
CSS, HTML5, Python, JS

Software: SIMULINK,
ASPEN, SAP, AutoCAD

Soft: Troubleshooting,
research, written and oral
communication, project
management, self-learning.

Awards

**National Science and
Engineering Research
Council**, Undergraduate
Research Award.

**Weizmann International
Summer Science
Institute**, Canadian
Scholar, Biofuel.

**Canadian Student
Debate Federation**,
Senior Nationals delegate.

Loran Scholars, National
Finalist.

Activities

UWAFST EcoCar3
(Controls, Mechanical),
Debate (VP External),

Professional Experience

Senior Energy Researcher | University of Waterloo
(Winter 2015, Fall 2016)

- Significantly improved fuel-cell testing procedures for client companies, decreasing runtime of sample imaging from four days to ten minutes using knowledge of automation and Python scripts.
- Authored three papers on defect propagation mechanisms

Junior Chemical Technician | Cameco Corporation
(Summer 2015)

- Worked 12-hour shifts supporting daily uranium mill operation while performing and logging mill-circuit assays into SAP databases. Awarded recognition for speed and accuracy.
- Efficiently identified anomalies in mill samples and troubleshoot equipment

Biofuel Research Associate | Weizmann Institute
(Summer 2012)

- Led a three-person team in optimizing conditions for green microalgae as a lipid producer and possible raw material source for biofuel production.
- Completed safety training including WHIMIS, compressed gas, machining, respirator, confined space, and first-aid

R&D Biotech Student | Saskatchewan Research Council
(Part time, 2009 - 2014)

- Spearheaded development of a biotechnology-based method of determining genetic purity of Canadian wheat classes to replace visual-inspection methods
- Awarded more than \$15,000 for findings at various science competitions.

Volunteering

Regional Organizer | Food Not Bombs

Organized the conversion of donated, unwanted produce from local groceries into healthy, vegan meals served free-of charge to needy community members in Kitchener-Waterloo.