

Nafiseh Esmaeeli

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EDUCATION

Isfahan University of Technology	Isfahan, Iran
Bachelor of Science in Chemical Engineering	2010 – 2014
Concentration in Biotechnology	GPA: 16.75/20
Internship	Isfahan, Iran
Wastewater treatment laboratory	Summer 2014

RELATED EXPERIENCES

Faculty of Chemical & Material Engineering, University of Alberta Edmonton, Canada

Research Assistant

- Project title “*Risk tolerance strategy for rail transport of dangerous goods*”
Nov. 2018 - Present
- Project title “*Creating a positive safety culture and continuous improvement in Alberta’s construction industry*”, construction owners’ association of Alberta (COAA)
April 2017 - Dec. 2017

Volunteering

- Project title “*Non-surgical cataract treatment*”, *Ingenuity Lab* Feb. 2016 - April 2016

Faculty of Chemical Engineering, Isfahan University of Technology Isfahan, Iran

Research

- Project title “*Drug delivery systems based on chitosan*” Summer 2014
- Biotechnology and fermentation process course, project “*Multi-step separation of menophenols and pyrolytic lignins from the water-insoluble phase of bio-oil*” Fall 2013
- Economy course, project “*Feasibility study of Xanthan gum*” Fall 2013
- Biochemistry course, project “*Penicillin biosynthesis*” Spring 2013
- General Microbiology course, project “*Bacterial corrosion*” Winter 2012

Laboratory work experience

- Wastewater treatment laboratory 2014
- Physical chemistry 2014
- Analytical chemistry 2013
- Organic chemistry 2012
- General chemistry Laboratory 2010

Laboratory assays and techniques

- Thioflavin T fluorescence assay, DC protein assay
- Using light microscope, cell staining, serial dilution, pipetting technique, plate counts, incubating agar plate, incubating broth, employing variety of hoods, growth media, aseptic techniques, Thoma cell counting chamber

Laboratory devices and software

- SoftMax Pro. Software, Peak-ABC software
- PH meter, incubator, centrifuge, plate reader, gas chromatography with TCD detector

RESEARCH REPORTS

- *“Creating a positive safety culture and continuous improvement in Alberta’s construction industry”*, reports to COAA board of directors and participating companies

May. 2017

CONFERENCES

- *“Safety maturity curve: findings from industry perception survey”*, Canadian Chemical Engineering Conference, Edmonton, Alberta, Canada
- *“Creating a positive safety culture and continuous improvement in Alberta’s construction industry”*, XXI World Congress on Safety and Health at Work 2017, Singapore

October. 2017

September. 2017

- “*Safety maturity curve: findings from industry perception survey*”, COAA, Best Practices Conference, Edmonton, Alberta, Canada

May. 2017

PRINT AND RADIO INTERVIEW

- Stastny, R.P. 2017. Maturing to safety. *Oilweek*, August, pp. 26-27.
- Stastny, R.P. 2017. There’s still ample room for improvement in Alberta's heavy construction safety culture. JWN Energy, 20 July 2017. Available
URL: <http://www.jwnenergy.com/article/2017/7/despite-some-good-news-theres-still-ample-room-improvement-albertas-heavy-construction-safety-culture/>

AWARDS & HONORS

Isfahan University of Technology 2014

Exceptional talented student admission program - Granted admission to Master of Sciences program (declined to join my spouse in Canada)

Isfahan University of Technology 2013 – 2014

Glorified among top 10% students of chemical engineering class of 2014

Iranian public universities national entrance exam 2010

Ranked 2,400 among 320,000 applicants

SKILLS

- Great presentation skills
- Designing scientific posters
- Acting as an excellent team member
- Computer:
 - Knowledge of PC and Macintosh formats: Word, Excel, PowerPoint
 - Academic software: Qualtrics Survey Software, SPSS, HTFS+, HYSYS
 - Programming languages: C++, MATLAB

REFEREES

Referees are available upon request.