

Shahram Zaheri

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Work Experience

Feb. 2018 - Oct. 2018 Minto Explorations Ltd., Minto Mine, YT
Metallurgical Technician

- Monitored performance of grinding (180 t/h), flotation, and concentrate dewatering.
- Joint Minto mine's emergency response team and received Yukon's mine rescue certificate for underground and surface.
- Prepared metallurgical accounting reports on daily, biweekly and monthly bases.
- Carried out bench scale flotation tests to test performance of new reagents and new ores.
- Conducted regular maintenance and calibration of Thermo Fisher Scientific's on-stream copper analyzer.

Sep. 2016 – Jan. 2018 Lumex Instruments Canada, Mission, BC
Sales and Application Specialist

- Gained in-depth knowledge about different analytical instruments including AAS, FTIR, Capillary Electrophoresis System, and their applications.
- Analyzed client's technical needs, with an understanding of their processes and operations, to develop solutions that meet their needs.

Jul. 2016 – Aug. 2016 Applied Water Treatment Inc. (AWT), Wawa, ON
Process Engineer

- Operated pilot plant test work at mine site to examine the application of HDS and LDS wastewater treatment processes.
- Determined optimum operating conditions for subsequent full- scale wastewater treatment plant design.

May 2015 – Dec. 2015 Teck Resources Limited (CESL), Richmond, BC
Process Operator

- Worked with 80+ metallurgists and operators in constructing, commissioning, and decommissioning of hydrometallurgical plant (demo scale).
- Operated demo scale leaching vessel and filter press.

Jan. 2015 – Apr. 2015 University of British Columbia, Vancouver, BC
Hydrometallurgy Laboratory Assistant

- Cooperated with Ph.D. student to synthesize ion exchanger to remove selenate from industrial wastewater.

- Conducted solid characterization analysis, XRD and SEM-EDX, on 60+ samples.

Jun. 2010 – Aug. 2010 Pars Oil Refinery, Tehran, Iran
Summer Intern

- Participated in on-site classes at different units of the refinery to gain knowledge and experience on the separation process of lubricants.
- Gained in-depth knowledge about working with PFDs and P&IDs.

Key Skills

Analytical Techniques: More than two years of hands-on experience in working with different analytical instruments including UV-Vis Spectroscopy, AAS, SEM, SEM-EDX, and XRD.

Process Operation: One year of experience in copper/gold mineral processing circuit. Three years hands-on experience in operating hydrometallurgical test works in bench, pilot, and demo plant scales.

Modeling & Simulation: In-depth knowledge in leaching modeling and developing mass and heat balances for hydrometallurgical processes. Familiar with Python, Pascal, and Visual basic programming languages

Education

Sep. 2012 – Dec. 2014 University of British Columbia, Vancouver, BC
Master of Applied Science, Materials Engineering (Hydromet.)

Sep. 2007 - Sep. 2011 Sharif University of Technology, Tehran, Iran
Bachelor of Science, Chemical Engineering

Research Experience

Sep. 2012 - Dec. 2014 University of British Columbia, Vancouver, BC
M.A.Sc. Thesis (under supervision of Dr. Asselin)

- Conducted 100+ cobalt cementation tests at atmospheric and high temperature/ high pressure conditions.
- Analyzed the test samples by UV-Vis Spectroscopy, AAS, and SEM.
- Determined an optimum high temperature/high pressure condition in which cobalt can be removed from zinc electrolyte 4 times faster and using lower amounts of reagents.

Jan. 2013 – Mar. 2014 University of British Columbia, Vancouver, BC
Course Project (with Dr. Dixon)

- Developed heat and mass balance Excel spreadsheet to simulate autoclave leaching for a concentrate containing pyrite and arsenopyrite.

- Generated best-fit leaching model for chalcocite and pyrite leaching based on available experimental data.

Sep. 2012 – Jan. 2013

University of British Columbia, Vancouver, BC
Course Project (with Dr. Dreisinger)

- Created simplified process flowsheets, heat and mass balance Excel spreadsheets to model extraction of copper from enargite concentrate based on Total Pressure Oxidation, CESL, and Galvanox technologies.
- Evaluated the three developed processes in terms of capital and operating costs, copper recovery, and reagents consumption.

Volunteer Experience

Certified member of Emergency Response Team (ERT) at Minto mine