ALLYSON STOLL

MINERAL PROCESSING ENGINEER

AS

PROFILE

Allyson is a highly motivated mining and mineral processing engineer with 14 years of experience across mining operations, process optimization, simulation, data science, and organizational leadership. Leveraging her strong problem solving skills and interest in comminution and flotation optimization utilizing advanced process controls and expert systems, she has proven ability to improve throughput, stability, and safety in complex industrial systems while translating technical insight into operational and strategic outcomes. In addition, she is an experienced leader, educator, and industry speaker with strengths in systems thinking, change management, and cross-functional collaboration.

INFORMATION

Phone

(604)861-3663

(236)985-4170

Email

allyson@datallurgy.com

allyson.m.stoll@gmail.com

Website

www.allysonstoll.info

www.datallurgy.com

EDUCATION

Masters of Data Science

University of British Columbia

Vancouver, BC

2022

B.S. Metallurgical Engineering

Missouri S&T

Rolla, MO

2011

A.S. Science

Northwest MO State University

Kirksville, MO

2006

CREDENTIALS

Professional Engineer

Mining & Mineral Processing

State of Alaska, USA

License No. 105858

Eligible for Registration

British Columbia, Canada

Prior License No. 58148

WORK EXPERIENCE

2025 - Present — **Director of Operations**

Richmond, BC

AIDE Canada / Richmond Office / July 2025 - Present

- Lead operations for a national resource center providing materials and guidance related to autism and intellectual disability.
- Oversee financial operations, internal systems, partnerships, and program delivery to ensure accessible, high-quality national resources.
- Translate board-level strategy into operational plans, performance metrics, and execution frameworks.

2024 - 2025 — **Senior Process Consultant**

Vancouver, BC

Ausenco / Vancouver Office / July 2024 - July 2025

- Member of the Global Operations Optimization team supporting operating sites worldwide.
- Improved comminution circuit throughput and stability by identifying optimal operating parameters using existing equipment.
- Delivered data-driven diagnostics and practical implementation strategies to site teams.

2023 - 2024 — **Manager, Simulation**

Calgary, AB

Stream Systems Ltd. / Main Office / August 2023 - March 2024

- Developed agent-based simulation models from proof-of-concept through production delivery.
- Solved business problems by integrating process knowledge with data-driven modeling.
- Collaborated across research, software development, and client delivery teams.

2018 - 2023 — **Lead, Technology & Innovation**

Vancouver, BC

Teck Resources Ltd. / Corporate Office / Dec 2018 - June 2023

- Led corporate artificial intelligence co-op program including curriculum development, recruitment, placement, and mentoring.
- Developed material movement simulations using reinforcement learning to inform long-range technology deployment strategy.
- Provided processing systems and change management expertise for advanced analytics and machine learning initiatives at Red Dog Operations and Highland Valley Copper.

ALLYSON STOLL

MINERAL PROCESSING ENGINEER

AS

ENGAGEMENTS

Digitalization in Mining North America

The Future of Deployment, Adoption, and Implementation of Technologies in Mining

Panelist

What do Mining and the Game of Go Have in Common?

Presenter

Vancouver, BC

2023

Global Mining Guidelines Forum: Edmonton

The Future of Mining: What do Mining and the Game of Go Have in Common?

Presenter

Edmonton, AB

2023

SME Annual MinExchange

The Future of Mining: What do Mining and the Game of Go Have in Common?

Presenter

Denver, CO

2023

Carbon Tracking & Reporting Canada

The Future of Mining: What do Mining and the Game of Go Have in Common?

Presenter

Calgary, AB

Future of Mining Americas

Steel Caps and Hard Hats: Building the Future of Work from the Frontline

Panelist

Denver, CO

Digitalization in Mining North America

Improving Concentration Performance Through Big Data: A Process and Lessons Learned

Presenter

Exploring how diversity in mining will drive long-term innovation

Panelist

Toronto, ON

2022

WORK EXPERIENCE CONTINUED..

2016 - 2018 — Anchorage, AK

Project Metallurgist

Teck Alaska Inc. / Red Dog Operations / March 2016 - Nov 2018

- Designed and implemented SAG circuit advanced process control logic (OCS-4D).
- Commissioned a $500K VisioFroth system enabling real-time zinc rougher optimization.
- Directed $500K in reagent system modifications, eliminating unsafe operating conditions.
- Reduced operating and maintenance costs through wear-part data analysis for IsaMills.

2015 - 2016 — Anchorage, AK

Operating Engineer (EIT)

Teck Alaska Inc. / Red Dog Operations / Jan 2015 - Feb 2016

- Trained and mentored two engineers transitioning into the Operating Engineer role to allow me to shift into a new position for technical development.
- Maximized water discharge under tight seasonal constraints through collaboration with Mill Operations while adhering to strict regulatory compliance requirements.

2014 — Logan Lake, BC

Metallurgical Engineer, EIT

Teck Resources Ltd. / Highland Valley Copper / Jan 2014 - Dec 2014

(12-month secondment assignment)

- Led a team to commission an M1000 Isamill regrind circuit for a new copper-molybdenum bulk flotation plant by communicating effectively with contractor, technical, operating and maintenance groups.
- Optimized & debottlenecked the high-grade cleaning and recleaner circuits with minimal process changes by utilizing existing equipment.
- Coordinated with operating and maintenance groups to achieve 80% Isamill utilization within six months of commissioning and three months ahead of schedule.

2012 - 2013 — Anchorage, AK

Operating Engineer (EIT)

Teck Alaska Inc. / Red Dog Operation / Sept 2012 - Dec 2013

- Optimized daily metallurgical performance by setting effective targets, evaluating changing process conditions and collaborative effort with the mill operations crews.
- Communicated efficiently with technical, operating and maintenance groups to minimize resource losses.
- Coordinated staggered column conversions to Eriez Cav-Tubes from Microcel static mixers as part of a change management strategy to mitigate mass failure risk at the end of the part wear life.
- Designed and completed a testing campaign to determine lead column performance pre- and post-installation of a new wash pan design that improved flotation column performance by decreasing gangue entrainment.