

Product and Materials Failure Engineer

Chemical Engineering professional and Materials Processing Engineer with Technical application specialist experience and successful project engagements with comminution and particle dynamics, performance and modeling of the Mill, coal beneficiation by simultaneous grinding and oil agglomeration, chemical cleaning of coal to remove organic sulfur, grinding of hemp fiber for use as reinforcing fillers in composite plastics, dry and wet grinding, fine grinding, particle sizing, Continuous Casting, Vacuum Casting, Optimization of industrial casting processes, superalloys and steels characterization and materials technology

AREAS OF EXPERTISE

Process Engineering	Particle Size Reduction	Process Modeling & Simulation
Chemical Engineering	Grinding Materials	Feasibility Studies & Analysis
Comminution	Mineral Material Technology	Casting Metals & Characterization
Particle Dynamics	Corrosion	Safety & Regulatory Compliance

EDUCATION:

M.Sc. Master of Applied Science- Chemical Engineering and Applied Chemistry

THESIS: Characterization of Szego-milled Hemp Fibers
University of Toronto, Canada, 2011

M. Eng. Master of Materials Process Engineering

THESIS: Detail examination of growth structure of commercial ESR ingot of alloy 718
Royal Institute of Technology (KTH) Stockholm, Sweden, 2008 & University of British Columbia (UBC)

B.Sc. Bachelor of Chemical Engineering in Mineral Material Technology

THESIS: Cathodes protection of Gas Pipe Line
Azad University of Technical and engineering, Tehran, Iran, 2005

PROFESSIONAL SOCIETIES:

Engineer in Training, Pengl

PUBLICATIONS:

1. Coal beneficiation by selective oil agglomeration, 39th international conference on clean coal, 2014, Florida, USA
2. Characterizing Hemp Fibers, Bio composites, 11th International Conference on Bio composites, Toronto, Canada
3. Detail examination of growth structure of commercial ESR ingot of alloy 718, (KTH), Stockholm, Sweden, 2009
4. Attrition (Erosion), University of British Columbia (UBC), Vancouver, Canada, 2008
5. Medical applications of Nickel Titanium alloy Royal Institute of Technology (KTH) Stockholm, Sweden, 2007
6. Cathodes protection of gas pipe line (B. Sc thesis) 2005

PROFESSIONAL EXPERIENCE:

Technical Application Specialist, General comminution Inc., 2017 to 2019

- Consistently meets technical standards for excellence; anticipates, recognizes and resolves technical problems
- Demonstrated success with assay implementations especially for the customer validation and verification
- Ensuring the assay integration process runs smoothly for new customers to be up and running successfully
- Investigated and defined operational issues and prioritize based on severity, risk and strategic business needs
- Maintained direct working relationship with Projects Leads to assure development and attainment of plans
- Ensure integrity of entire material management workflow in relation to individual discipline process and usage

Chemical Process Engineer, General comminution Inc., Toronto, ON, 2012 to 2016

- Recorded and analyzed data, demonstrated experimental procedures, collected, prepared and/or tested samples
- Conducted research to develop new and improved processes and designing and planning the layout process
- Planed, prioritized, assigned, supervised, and participated in the work of staff for performing lab chemical test
- Reviewed of quality control data, instrument maintenance records, calibration and troubleshooting
- Performed quality control at all stages of the project development and project execution
- Provided technical skill in comminution areas to plan, design, set up, modify, optimize grinding processes

Material Process Engineer, University of British Colombia (UBC), Vancouver, BC, 2007 to 2009

- Conducted chemical lab experimental on various equipment such as microscope and electro scan microscope
- Planned, setting up and undertaking collaborative research with faculty on various projects
- Performed experiments and collected samples for various test to analyze and presenting in seminars
- Conducted chemical lab experimental and collecting data required to make improvements and modifications,
- Reviewed of quality control data, instrument maintenance records, calibration and troubleshooting
- Prepared progress reports or other articles and presentations and monitoring performance of processes