

	<u>Job Description – Process Engineer</u>	
	Doc No. AVL – PRC ENG	Issue Date: August 2011
		Revision No. 001

Position Title: Process Engineer

Department: Operations

Location: Delta, BC with occasional local travel including the project site

Reports To: VP Operations

General Accountability:

Reporting to the VP Operations, the Process Engineer is responsible for the continued development and implementation of the metallurgical functions for the Company. Responsibilities include but are not limited to the development, organization, engineering and administration of all feasibility, laboratory, pilot plant testing and construction related to the development of the Nechalacho Deposit as follows:

Responsibilities and Duties:

- Coordinate the various aspects of the process engineering, including design, planning and development;
- Provide guidance, support and act as direct resource to the team undertaking the mine development feasibility studies;
- Undertake scoping study level trade-off evaluations of process alternatives;
- Assist in the preparation of feasibility level capital and operating costs for metallurgical process plants;
- Assist in the development of processing plans, methods, design, materials handling, manpower requirements, cost analysis and other areas as appropriate;
- Review design, management and interpretation of mineralogy studies, aimed at understanding the ore types present and the interaction of the ore types with processing performance;
- Design, manage and interpret bench-scale laboratory experiments aimed at understanding the mineral dressing characteristics of ores of rare metals, including rare earths;
- Design, manage and interpret bench-scale laboratory experiments aimed at understanding the hydrometallurgical processing of ores of rare metals, including rare earths and rare earth separation plants;
- Design, manage and interpret solvent extraction studies and design solvent extraction circuits for the recovery of rare metals and the separation of rare earths.
- Design, manage and interpret pilot plant demonstrations of metallurgical processes;
- Critical review of reports prepared by contract metallurgical laboratories;
- Search literature and assimilate information generated by others with the aim of solving relevant metallurgical issues;
- Provide specialist technical input into team project work;
- Provide input and evaluation into recovery estimates;
- Act as the process lead on studies and projects;
- Develop or bring forward, as appropriate, industry best practices and new technologies;
- Oversee the development and maintenance of long and short term processing plans, processing designs and input into mine development efforts as appropriate;
- Prepare and review project proposals, studies and technical reports;
- Oversee the cost effective, safe and timely completion of projects that meet or exceed expectations;

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- Liaise with contractors, vendors and other stakeholders on a technical level and present reports, publications and presentations in a professional manner;
- Apply a sound basic knowledge of safety, environmental and energy-related issues during the execution of projects; and
- Travel to laboratories, site, branch and head offices as needed.

Education and Training:

- Bachelor or higher degree in metallurgy or Chemical Engineering
- P.Eng status or necessary qualifications for P.Eng status
- At least ten years of industrial experience including two years in operations
- Experience in the execution of pre-feasibility and feasibility studies
- Experience in the design and implementation of laboratory and pilot plant test work
- Technical experience with mineral processing, leaching, liquid-solid separation, solvent extraction, and precipitation unit operations

Core Competencies:

- Team player and able to build and maintain relationships both internal and external.
- Flexible to change and open to constructive feedback.
- Strong written and verbal communication skills.
- Strong organizational and interpersonal skills.
- Able to work independently with minimal supervision.

OTHER:

Based in Delta, BC and may work rotational shifts during exploration and operational season. The rotations will be discussed upon successful hire and may change as the Project develops.

Avalon Rare Metals offers total rewards compensation, with a comprehensive benefits package.

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