## **Pascale Jacqueline PETIT**

Experienced mechanical engineer, passionate about three E's Engineering, Economics and the Environment Seeking a senior level role in consulting

## Education

- •M. Eng. (Mineral Resource Management) at the University of Witwatersrand
- •M. Sc. (Mechanical Engineering) at the Rand Afrikaans University
- •B. Sc. (Mechanical Engineering) at the Rand Afrikaans University

## 

Fluent: English: : Read/Write/Listen/Speak (excellent)
Fluent: Afrikaans: Read/Write/Listen/Speak (excellent)
Native: French: Read/Write/Listen/Speak (excellent)

## Professional profile and Career highlights

- Mechanical mining engineering and techno-economic valuation across multiple assets worth up to USD 2 billion (Real).
  - Clients range from small entities to listed corporations and consulting companies.
  - Contributor to converting to efficient technologies and methodologies in operations of high profile multinational mining leaders, saving up to a minimum of USD 4 million annually (Real).
- Various levels of studies for engineering, estimating and valuations, trade-off analyses and optimization saving up to USD 5/ton<sub>ROM</sub>.
- Securing cost effective project selection through commodity knowledge of PGMs, gold, coal, base metals, ferrous metals, diamonds, steel and cement.
- Environmental and energy solutions including carbon footprint analysis and energy management as part of integrating environmental economics into mineral economics.
  - Specialised service provider to rescue companies from closure
  - Advisor to companies on green branding.
- **Publications** in mechanical and mining engineering journals and presentation of papers at **international conferences**, positioning for future.

Numbers
17 Years of work Experience
187
Projects
for
151
Clients
across
40
Commodities
in
25
Countries

March 2005 -December 2005 -February 2009 -July 2010 -March 2014 -July 2000 -February 2014 March 2012 February 2005 January 2009 June 2010 **November 2005** Present Mechanical Techno-Independent Mechanical Engineering Engineer / **Financial** Mechanical Project Analyst at Techno-Consultant at **Engineer / Techno** Mechanical **Engineer at TWP Engineer at** (owned by **Financial** Snowden Financial Analyst, **Engineer at RSV** Cyest **ELB** (owned by EDI Energy **Worley Parsons**) Corporation **Analyst at** Minxcon Downer) Management

Mechanical engineering for underground mine and mineral processing industries, specializing in fluid mechanics design. Project engineer and site logistics supervisor of decline shaft systems. Project manager for the construction and upgrading of buildings. Project engineer at a smelter processing plant.

Design development of materials handling and processing plants. Bid manager for various OEM projects.

Mechanical engineering of surface and underground mine, and for mineral processing industries. Project procurement. Project co-ordinator for the company, the suppliers and the client (mine). Project management.

Developing functionalities for Mine Optimisation Tool software. FPC costing for feasibility studies. Implementation of cost functionalities into Optimisation software. Design of bulk mining methods for nontabular mining products. Asset optimization through the identification to quantification of key operational drivers.

Economic and market assessment for commodities and countries. Project financial valuations. Project and company comparatives. Mechanical engineering for underground mine and processing, specializing in fluid mechanics design. Project co-ordinator for the company, suppliers and the client (mine).

Project management.

Project engineering design for surface and underground mining industry. Project financial valuations. Project and company comparatives. **Project and Contract** Management and coordination. Presentation of corporate training courses. **Business** Development.

Project engineering for the surface and underground mining industry. Project and company valuations and comparatives. Design of energy solutions, including application of renewables. **Project and Contract** Management. Presentation of corporate training courses. Technical expert for legal processes. Advisor for

engineering councils.