

Petra Diamonds Limited is one of the world's leading suppliers of rough diamonds and one of the largest independent diamond groups by resource. It's a polished diamond we're after for this role - an individual that clearly outshines his/her peers:



**PetraDiamonds**

| PETRA DIAMONDS SA (PTY) LTD



## Mining Engineer: Simulation and Planning – Internal and External

Petra Diamonds is a leading independent diamond mining group and an increasingly important supplier of rough diamonds to the international market.

The position is based in Cullinan.

**Reference Nr: PDSA295**

**Job Grade: D3**

**Role Purpose:** Reporting to the Manager: Planning, the role part of a team that engage and assist mining operations with the optimisation and implementation of technical aspects of Life of Mine (LOM) planning, scheduling and costing with specialised simulation and planning software to achieve operational planning and financial requirements.

### Responsibilities:

- Define planning parameters and supply mine design criteria documents for CDM (i.e. Tunnel spacing, development rates or extraction percentages).
- Consult with geotechnical modelling consultant on planning parameters (slot initiation points, under-cut face angle scheduling, tunnel sizes etc.). Review modelling results and adjust design. Repeat until design is feasible.
- Initiation and execution of simulation on operational parameters (Ring retreat rates, loading time, availability, utilization etc.) Review modelling results and adjust design. Repeat until design is feasible. (Haulsim and Spry).
- For new expansion projects - Liaise with the Technical Services, Engineering and Finance Functions (Mostly CDM) to compile life of mine scenarios (design, schedule, ventilation, cost and simulations).
- Consult and liaise with operational technical staff (Mining, Plant, Technical Services, Engineering, etc.) as required by the project guidelines.
- Responsible for document control (Mine design criteria) and change logs in the planning process (LOM Presentations).
- Prepare scenario and draft documentation (concept, pre-fease or feasibility) and presentation in line with project guidelines.
- Compile the design, schedule and cost for expansion scenarios (mainly CDM).
- Develop, own and control the budget for the area of responsibility.
- Responsible for the generation of cost saving ideas.
- Provide expert LOM planning, scheduling and costing advice on Industry Best Practice and keep abreast of latest developments in area of expertise.
- Engage internal and external stakeholders on Planning related matters, and support operations on Planning related engagement.
- Establish and maintain good working relationships and an effective / sound communication system with the Planning Function.
- Ensure that all Planning reporting is aligned with standards, guidelines and schedules.
- Compile monthly plan versus actual reports on CDM with Operational Managers and Group draw control and forecast revision of plan.
- Execute trade-off studies and equipment selection studies.
- Model behaviour that is consistent with the Company Vision and Values.
- Model behaviour that is consistent with the Company's values and Code of Ethical Conduct.

### Minimum Requirements:

- B Degree or equivalent in Mining Engineering / Survey / Geology / Geotech.
- Minimum 3 years' experience in a technical services department or planning role on a senior level interacting with senior management (Surveyor/Planner/Geotech/Geologist).
- Proven experience with drafting and scheduling tools. (e.g. Studio5 & EPS).
- Experience in Simulation Software (e.g. Haulsim, Spry).
- Valid driver's license.

### Technical Competencies:

- Use mine planning software.
- Ensure compliance to best practices and mining technical standards and take corrective action when required.
- Effectively communicate plans to stake holders.
- Know and understand the Mines production targets, security systems, standards, policies and procedures.

- Plan, coordinate and prioritise.
- Demonstrate knowledge and skill in ensuring effective utilisation of available resources.
- Demonstrate in-depth technical knowledge of mining operations and processes.
- Demonstrate knowledge regarding the relevant mining legislation.
- Ensure that the planning is practicable from own experience base and interaction with stakeholders.
- Demonstrate knowledge regarding relevant mining experience.
- Analyse and interpret information.
- Demonstrate the ability to interact within a multi-disciplinary team, innovation and pro-active thinking.

**Behavioural Competencies:**

- Planning and Organising; Decision Making; Earning Trust; Communication; Continuous Improvement; Safety Focus; Customer Orientation; Valuing Differences; Initiating Action; Managing Relationships

Petra Diamonds is an equal opportunity employer. Preference will be given to suitable candidates from the designated groups in line with the Company's Employment Equity Policy and Plan and internal candidates. Pre-screening, profile testing, on mine assessments, medical and security clearance form part of the recruitment and selection process. Short listed candidates will be required to attend a panel interview. Employment of the successful candidate is subject to the aforementioned criteria. Preference will be given to candidates who live within the host labour sending area.

*If you are already employed by Petra Diamonds, please submit an authorised Internal Application Form, your résumé, qualifications and ID when applying.*

**Please complete an application form (available on <http://www.petradiamonds.com/careers/current-vacancies>) and forward, together with your résumé, SAPS certified qualifications and ID, to [e2-recruitment@petradiamonds.com](mailto:e2-recruitment@petradiamonds.com) by 29 January 2023. Please note, applications must be sent to the correct e-mail as indicated. Incomplete application forms and documentation will not be considered.**

**Correspondence will be limited to short-listed candidates only. Petra Diamonds reserves the right not to fill this position.**

If you have not heard from us within 30 days of the closing date, please regard your application as unsuccessful.

**Please note that Petra Diamonds does not at any time require any form of payment for recruitment purposes. If you are approached in this regard, you should report the incident immediately to your local SAPS or via one of the following hotlines:**

**Toll Free: 0800 007 247; Phone Call: +27 31 571 5573; Fax: +27 31 560 7395; Email: [tothehotline@tip-offs.com](mailto:tothehotline@tip-offs.com); Post: KZ 138, Umhlanga Rocks, 4320; Website: [www.tip-offs.com](http://www.tip-offs.com)**

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<http://www.petradiamonds.com/careers/current-vacancies>