JOB DESCRIPTION
Underground Planning Engineer

Education: Bachelor in Mining Engineering

Experience: 15 years or more in underground mining of narrow veins; of which 10 years should be in planning.

Job Title	Underground Planning Engineer	Date	July 2018
Department	Mine	Report to	Country Manager
Location	Coscuez, Boyacá	Salary	As per Experience

Profile

Fura Gems Inc, a colour gemstone mining and marketing company with emerald and ruby assets in Colombia and Mozambique, respectively. Fura is involved in the exploration and mining of rubies in Mozambique. The current position is based at Fura operations situated at Coscuez emerald mine in Boyacá, Colombia. Fura is engaged in the exploration and mining of emerald resources by underground operations in this iconic and historical mine.

Underground Planning Engineer

Reporting to the General Manager, the position will lead the underground operations with a focus on maximizing safe production while minimizing costs. The successful candidate will direct, control and develop the operation of the mine in Cosquez in accordance with the required legislative framework and appropriate industry best practices.

Key Strategic/Operational Responsibilities

1. Create, manage and develop the short, medium and long-term mining plans, ensuring technical and safety standards of the operation.
2. Develop mining methods to improve mining economics, effectiveness and safety, as well as minimize environmental impacts;
3. Develop and optimize mine designs, production procedures and systems, mine production planning, scheduling, as well as drill and blast designs;
4. Support the geological resource team for modelling of the reserves, and work with them for scientific and efficient mine design for extraction.
5. Collaborate with the Engineering and Geology teams to develop solutions to geological and engineering problems and provide project engineering management and geological resource/reserve ore body data for operations at the mine site;
6. Perform feasibility studies, plausible mining scenarios, cost estimates and estimates of production potential for existing mine opportunities or potential new mine sites/levels;
7. Develop mining plans aligned with the company's operational targets.

![COSCUEZ S.A. - A FURA GEMS COMPANY]

8. Design of survey program and supervision of the surveying team. Also assume ownership of ongoing projects of the Planning Department.
9. Preparation of detailed developmental designs and plans including design of haulage and ventilation ways.
10. Design of stopes based on geological & geotechnical guidelines.
11. Compute month end mine production, report reconciliation of reserves vs actual production and compile as updated reserve/resources reports.
12. Helping in budgeting and forecasting of mine budgets and plans.
13. Providing leadership and direction to Mining Engineers and Surveyors; and support mine services designers including service holes and air, water and electrical reticulation calculations.

Competence / Requirements

1. A proven manager with a strong track record including a minimum of 15 years of experience in the mining industry
2. Strong experience in an underground mining environment with knowledge in underground Mining planning, geology, applied geotechnical, safety, mining equipment, and mining and environmental regulation.
3. Well-established knowledge and experience in mine planning and scheduling practices, ideally with exposure to narrow vein deposits;
4. Strong exposure to various stages of planning of an UG mine operation, including ventilation, backfill, production, scheduling and drill & blast;
5. High level of computer literacy as applied to mine engineering with excellent computer skills and be a competent user of mining industry software (Datamine experience is desirable);
6. Demonstrable track record of involvement and achievement in successful projects, and be able to articulate your contribution to those results;
7. Total commitment to health and safety.
8. Strong Data analysis and interpretation skills