

POSITION: VENTILATION CONSULTANT

This is a fulltime position based in Johannesburg.

ABOUT THE ORGANISATION AND OPPORTUNITY:

BBE is a highly expert team of ventilation specialists and multidisciplinary engineers focussed on mining ventilation, refrigeration, cooling, heating, and providing a safe and health underground environment. BBE has been active in this field for over 3 decades.

ABOUT THE POSITION:

The incumbent will be responsible for operational executing and designing of ventilation plans for mining clients of varying size and complexity, for short- and medium-term solutions within the operational domain of mines in day-to-day activities

PRINCIPAL RESPONSIBILITIES:

Technical

1. Participate in and optimise technical projects including mine ventilation planning and engineering, including airflow, fans, cooling, heating, occupational hygiene, legislation, fires, simulation software in both hard rock, platinum, coal mines and other.
2. Prepare and optimise ventilation systems and models (VUMA/VentSim), project schedules, capital and operating cost estimates and provide value-engineering opportunities to clients for short- and medium-term solutions.
3. Provide on-site assistance to clients by way of ventilation surveys, audits, and training for short- and medium-term solutions etc.
4. Demonstrate strong communication and presentation skills.
5. Determining, implementing and reviewing short, medium and operational planning to ensure an environment conducive to healthy and safe production.
6. Providing advice and guidance in all pertaining to Ventilation, Refrigeration and Occupational Hygiene topic related matters
7. Performing technical audits
8. Advising on a safe course of action in emergency situations
9. Updating relevant codes of practice, standards and procedures for clients whenever required and ensuring compliance.

Project management:

1. Prepare proposals, control proposals, invoicing, and Purchase Orders.
2. Ensure projects are executed within scope, budget and schedule.
3. Project management on technical study – internal client meetings, meetings with service providers and presentations, report writing, technical reviews, report edits, quality assurance and progress reviews.

Professionalism, client support and business development

1. Support business development activities, meet with clients and contribute to internal initiatives.
2. Maintain good working relationships with clients and service partners.
3. Conduct themselves with integrity, respect and professionalism in all interactions with clients, vendors and fellow staff members.

QUALIFICATIONS

- Matric and Advanced Certificate in Mine Environmental Control
- VUMA/ Ventsim Simulation software
- Microsoft office suite
- Driver's licence
- Be declared medically fit for the position and the environment, as determined by the risk based medical examination

MINIMUM EXPERIENCE REQUIRED

At least 5 years' experience in Mine Ventilation engineering, including demonstrated experience in:

- Underground hard rock mining / ventilation experience in various mining methods
- Underground coal mining / ventilation experience in various mining methods
- Experience in constructing and calibrating mine ventilation simulations in software packages such as VUMA or Ventsim / VisualMine ventilation services and offerings
- Ventilation modelling
- Mine planning

Strong knowledge, interpretation, and application of ventilation standards and best practices

WORKING ENVIRONMENT AND TRAVEL REQUIREMENTS

The role requires regular travel to client mining operations and work in surface and underground mine environments to conduct surveys, audits, inspections, training and other operational assignments. The incumbent must therefore be willing and able to work at mining sites, including underground where required.

SKILLS/KNOWLEDGE

- Microsoft Office 365 (Word, Excel; PowerPoint, Outlook, Teams, SharePoint etc)
- Published technical papers, would be an advantage

CORE COMPETENCIES REQUIRED:

- Analytical reasoning
- Problem-solving
- Conceptual thinking
- Strong reporting writing and editing skills
- Good communication skills
- Organisational skills
- Quality orientation
- Innovation and Creativity
- Judgement & decision-making

REMUNERATION:

Market related

Only short-listed candidates will be contacted. If you are interested, please send your application to Antoinette Crafford at acrafford@bbe.co.za complete with your latest CV. Applications close **16th October 2026**. Applicants must have a South African ID.