

## **Programme: Mining Engineering**

University of Johannesburg provides formal tuition towards a formal degree in Mining Engineering technology programmes. The programmes are carefully designed, uniquely career focused and aligned with mining industry and mining organization across South Africa.

Mining Engineering technologists are involved in the daily production activities that includes the design of excavations, developing drilling patterns for the explosives, the cleaning of the broken rock and the support of excavations. A Mining Engineer may manage any phase of the mining value chain including exploration, feasibility studies, mine design, resource reporting and rehabilitation of mining land. The responsibility of includes dealing with environmental and social issues to minimize the damage on the natural environment and prevent any negative impact on the surrounding communities.

### **Responsibilities**

Mine management is focused on the extraction of minerals from an orebody safely and economically while meeting mine financial targets. In addition to specialist mining knowledge and engineering expertise, a mining engineer requires good interpersonal skills and strong business acumen.

### **Career Opportunities**

Mining Engineering is a combination of several areas of expertise. It involves organizing, operating and monitoring mining processes in conjunction with environmental protection and health and safety requirements for underground working conditions. Through technological advancements, the industry has improved production levels and safety whilst simultaneously managing environmental impact. Strategic industry relations provide a platform for graduate.

Mining Companies, software companies for planners, investment companies and more and more opportunities in consulting practices are becoming available.

Potential Mining Engineering Positions may include:

Explosive Ordnance Engineer

General Manager

Health and Safety Manager

Mine Manager

Miner

Mineral Resources Manager

Mining Engineer – Academic/Research

Mining Engineer – Coal

Mining Engineer – Consulting

Mining Engineer – Open Pit

Mining Engineer – Underground

Mining Engineer (Excluding Petroleum)  
Mining Engineering Technologist  
Mining Technician  
Practitioner  
Production / Operations Manager (Mining)  
Production / Operations Supervisor (Mining)  
Project Manager  
Quarry Manager  
Rock Engineering Manager  
Safety, Health, Environment and Quality (SHE&Q)  
Sales Representative / Salesman (Industrial Products)  
Superintendent  
Technical Services Manager  
Underground Manager