

## **Structural/ Mechanical Engineer- Ontario**

### **Responsibilities**

Work as a part of a multi discipline team of engineers and designers, focusing primarily on shaft sinking support equipment and infrastructure and underground construction. A hands on individual capable of providing strong leadership and direction to designers and EIT.

Areas of primary focus:

- Headframe design, with the focus on modifications to accommodate shaft sinking operations
- Hoisting plant design (for shaft sinking and production)
  - Hoist evaluations and refurbishment requirements
  - Duty cycle analysis
  - Rope, attachment and bucket/skip specifications and design
- Galloway/Workk stage design
  - Suspension winch specification
  - Rope and attachment design and specification
  - Experienced in designs of work stages and platforms as per the Ontario Guidelines
  - Design and selection of shaft mucking and drilling equipment
- Production hoisting systems
  - Skip/Cage design and specifications
  - Loading and unloading system design and specification
  - Ropes and attachments selection and specifications
- Non-shaft sinking related work (secondary):
  - Mine ventilation
  - Development applications (temporary)
  - Permanent installations
  - Escape way designs
  - Pumping system designs
  - Platform & Bulkhead designs

### **Requirements**

Member in good standing of the Professional Engineers of Ontario

Mechanical/Structural Engineer

Minimum 10 preferably 15 years experience

Working knowledge of Solid Works & Auto Cad

Well versed in the OHSA Regulations for Mines and Mining Plants