



Project Geophysicist

Job Description

Xpotential has an exciting opportunity for a Project Geophysicist to join our world class Geoscientific Consulting Team based at our Cape Town office in South Africa. We are seeking an experienced, committed, and professional geophysicist, eager to work on a range of exploration and mining projects in Africa, across a range of commodities, gaining first-hand experience using the latest in geophysical technology applied to mineral exploration.

As the project lead, you will work closely with the ground geophysics team to ensure surveys are planned, managed, and run according to the contracted deliverables while taking responsibility for data quality, QA/QC and reporting. You will form part of the technical team responsible for data processing and modelling along with final interpretation and client presentation.

As the Project Geophysicist you will also be expected to coach and mentor other members of the team, promoting quality and ensuring that Xpotential deliver industry-leading data and results to our clients.

The majority of the work will take place in the office yet travel is sometimes required to field projects. We are often engaged on remote and challenging projects in extreme environments, in harsh climates and in culturally sensitive regions across Africa. It is a physically and mentally challenging work environment where safety is always paramount.

The successful candidate will have the opportunity to gain significant experience in many aspects of exploration from project planning and budgeting through to 3D modelling and inversions.

This job is for you if:

- You have a strong technical understanding of geophysical data sets incl. magnetics, gravity, IP and EM.
- You have excellent attention to detail with a critical eye for data review and quality control.
- You are confident managing others, leading a team and interacting with clients.
- You want to work in a dynamic and ambitious team with opportunities to develop new skills.
- You pride yourself on being a team player with a high level of ethics and integrity.

Who we're looking for:

Essential

- Bachelor of Science (Honours or higher) Degree in Geophysics
- A minimum of 3 years' experience practicing as a geophysicist, with a strong focus on ground geophysical fieldwork.
- A strong knowledge and experience of electrical geophysical techniques, in relation to both data acquisition and processing.
- Strong problem-solving abilities, specifically relating to ground geophysical surveys.
- Good verbal and written English language skills.
- An ability to communicate clearly with colleagues and clients.
- Confidence working under pressure to tight deadlines.
- A high attention to detail, quality, and safety.

Desirable

- Experience in the following software suites: Oasis Montaj, ArcGIS, GoCad, Profile analyst, ModelVision,
- Familiarity with Gems Walk magnetometers, Scintrex Gravitymeters, Iris and GDD IP equipment as well as Zonge Geophysical equipment.
- Experience with Fullagar's (Mira) VPmg and VPem geophysical inversion routines.
- Experience in Python
- A working knowledge on mineral deposit types, mineralization styles, and how best to target specific commodities using appropriate geophysical methods.
- Experience in project management.
- Able to work in the field for periods of up to 4 weeks.
- Experience in leading, coaching and mentoring others.
- Experience and confidence in liaising with clients.

What we'll offer you:

The opportunity to be part of a team driven to help our clients make discoveries through producing the highest quality geophysical products. Through our diverse client base, you will gain exposure to mineral exploration projects focussed on a large number of different commodities using various geophysical methods.

About us:

Xpotential was established in 2004 as a geophysical consultancy specialising in the processing and inversion of potential field data. Now wholly part of RES, we adopt a multi-disciplinary target generation approach. Results are visualised in a 3D environment providing the framework for a geologically driven interpretation of geophysical data. Xpotential specialise in interpretation and modelling of potential field data (magnetic, gravity, gravity gradient, IPDC and electromagnetic). Our interpretation products are significantly expanded by including input from structural geologists, economic geologists and remote sensing specialists within the group.