

MOHALLAB ALTIGANY MOHAMED ALFAKEY

Senior Geologist-Geophysicist

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CAREER OBJECTIVE

Dynamic and results-driven Senior Geologist-Geophysicist with extensive experience in Geophysical exploration methods, Electrical, Magnetic, and Gravity methods, and other related geophysical (passive and active) methods, data collection and interpretation according to its geological background. Adept at leading multidisciplinary teams, managing Geophysical exploration projects, and optimizing operational performance through technical innovation and risk management. Seeking a leadership role in a reputable mining or exploration company to drive strategic for geophysical exploration initiatives and contribute to sustainable target development.

PROFESSIONAL EXPERIENCE

Saudi Gold Refinery, Riyadh, Saudi Arabia

Project Manager | Dec 2023 – Present

- Leading **Geophysical exploration** program of Electrical methods (Resistivity and IP) by using ERT Technique.
- Conduct Drone magnetic survey.
- Resource **Estimation**: Calculates the quantity and grade of mineral resources based on drilling and sampling data.
- **Exploration Planning**: Designing and managing exploration programs both geological and geophysical programs to discover a new mineral deposit or expand existing ones.
- **Data Interpretation**: Analyze geological, geochemical, and geophysical data to identify mineralization trends.
- **Technical Reporting**: Prepare the final technical reports.
- **Compliance and Safety**: Ensure geological activities meet environmental, safety, and regulatory standards.

GTI for Geological Services, Khartoum, Sudan

Technical Manager | May 2017 – Present

- Directed exploration teams, achieving a 95% success rate in geophysical exploration programs.
- Reduced equipment maintenance costs by 30% through proactive maintenance planning.
- Designed and implemented a safety training program, reducing workplace incidents by 30%.

Dongola Argeen Highway Co. Ltd, Wadi Halfa, Sudan

Senior Geologist | Jan 2018 – Sep 2019

- Improved geological report accuracy by 95% via strict data validation.
- Managed a discovery project that boosted company revenue by 20%.
- Ensured 98% compliance with industry regulations.

Sudanese Japanese for Mining & Investment Co. Ltd, Northern Sudan

Senior Geologist | Jul 2017 – Oct 2017

- Increased reserve estimation by 40% and cutting drilling costs by 25% using advanced modeling.
- Conducted geological risk assessments for key projects.
- Led mapping efforts that improved drilling success by 30%.

Mahogany Mining Co. Ltd (Gold Exploration), Northern Sudan

Senior Geologist | Dec 2013 – Jul 2017

- Developed partnerships with local communities and regulatory bodies.
- Delivered technical reports influencing executive decisions.
- Mentored junior geologists in field and lab techniques.

Darcy Engineering Co. Ltd, Sudan

Senior Geologist (Geological & Environmental Consultancy) | Sep 2007 – Mar 2012

- Pioneered innovative mapping strategies, increasing exploration success by 20%.
- Modeled challenging sites, improving production efficiency by 30%.
- Led geological risk assessments for major infrastructure projects.

EDUCATION

- **PH D Candidate (Using the geophysical methods in mineral exploration and estimation)** – Al Neelain University, Khartoum, Sudan | Jan 2023
- **M.Sc. in Geology (Geophysics)** – Al Neelain University, Khartoum, Sudan | Mar 2015
- **B.Sc. Hons in Geology** – School of Applied Earth Sciences, Al Neelain University | Aug 2007

TECHNICAL SKILLS

- Geophysical exploration by using several geophysical methods
- Geological Mapping | Mineral Exploration | Resource Estimation
- Structural Geology | Ore Deposit Analysis | Geological Risk Assessment
- Satellite Gravity | Remote Sensing | Landsat & ENVI 4.5 | GIS and QGIS (Advanced)
- Osis Montag | Go CAD (Basic) | CorelDraw (Professional) | 2D & 3D Res programs
- Project Management | Fieldwork Operations | Safety & Compliance
- Reporting & Stakeholder Communication | Team Leadership & Training

CERTIFICATIONS & TRAINING

- **MS Project** – GeoSoft International | September 2025
- **Project Management Professional (PMP)** – Tasamuh Training Center | Jan 2024
- **ISO 45001:2018 (OH&S)** – Quality & IT Experts Co. Ltd | Dec 2023
- **NLP Diploma** – Feb 2012

LEADERSHIP & COMMUNITY ENGAGEMENT

- President – Neighborhood Nexus Initiative (Community Development Role)

LANGUAGES

- Arabic – Native
- English – Very Good (Spoken & Written)