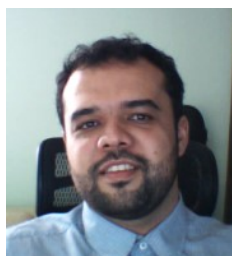


Hebert Oliveira

Mineral Resource Estimate Consultant



Profession Geologist Engineer

Education BSc (Geology Engineering), Ouro Preto Federal University, Minas Gerais State, Brazil, 1998 – 2003
MSc (Geology/Geostatistics) student, Rio Grande do Sul Federal University, Rio Grande do Sul State, Brazil, 2013 - 2016

Registrations/ Affiliations AusIMM - The Australasian Institute of Mining and Metallurgy – MAusIMM
AIG – Australian Institute of Geoscience - MAIG

Specialisation Geology, Exploration, Resource Audit, Due Diligence, GIS and Database Validation; QAQC; Exploration Brownfields, Geological Modeling and Mineral Resource Estimate, Geostatistics, Long/Short Term mine Geology.

Expertise

Hebert has been working in Exploration and Mining Projects close to operational sites. He developed skills and know-how in the planning and execution of exploration projects for various mineral deposits in Brazil and acquired experience with geological databases, design (GIS), geophysical and geochemical data treatment, planning and managing drilling campaigns (surface/underground), lithological and structural mapping (surface/underground), many sorts of geological sampling methods for different deposits and also the geostatistical evaluation of mineral resources.

Hebert has a good experience in Underground Mining Geological Procedures, Geological Exploration and Feasibility Projects, Development of Standard Geological Procedures, Design and Implementation of Geological Databases, Management of Geological Teams (Surface and Underground), Geological Modelling, Geostatistical Evaluation of Resources/Reserves, Surface and Underground Sampling Methods and Geological Mapping (Structural and lithological)

Exposure to mining software: Gems 6.x, Gemcom Surpac, Studio CAE Mining ("Datamine"), GeoModeler (ThreeDify), Century System (DHLogger, Fusion, QueryBuilder), AutoCAD, LeapFrog3D, Minitab, GSLib, SGeMS, Isatis, ArcGIS;

Exposure to commodities: gold, copper, silver, iron, oil shale, tungsten/molybdenum and limestone.

Countries: Brazil, Colombia, Chile, Jordan

Employment

2013 to present	Technical Support/Owner – KGeo –Knowledge Geoscience
2011 to 2013	Senior Resource Estimation - Coffey Mining
2009 to 2011	Mine Geology Coordinator - AngloGold Ashanti Brasil Mineração
2006 to 2009	Full Geologist - AngloGold Ashanti Brasil Mineração
2005 to 2006	Project Geologist - Yamana Gold Inc. - Jacobina Mineração e Comércio
2003 to 2005	Geologist - Processamento e Caracterização Mineral (Samarco Mining S.A area)

Language: Portuguese (Native),
Advanced English
Intermediate Spanish

Hebert Oliveira

Mineral Resource Estimate Consultant

Recent project experience includes:

- Technical report NI 43 101 compliant on mineral resource estimate for a large iron ore deposit located in Quadrilatero Ferrífero – Brazil – May 2015;
- Technical report JORC 12 compliant on mineral resource estimate for a midtier iron ore deposit located in Quadrilatero Ferrífero – Brazil – March 2015;
- Technical support on mineral resource estimate for a large iron ore deposit located in Quadrilatero Ferrífero – Brazil – March 2014;
- Technical support and Qualified Person on resource estimate for a midtier iron ore deposit located in Quadrilatero Ferrífero – Brazil – January 2014;
- Data Review and resource estimate verification - Mineração Caraíba S.A. – April 2013;
- Resource Estimate – Phosphate - Eagle Star located in Tocantins state - Brazil – April 2013;
- Resource Estimate – Tungsten – Mining company located in Rio Grande do Norte state - Brazil – May 2013;
- Resource Estimate – Gold, Copper and Silver - AUX Colombia located in Colombia - October 2012 and January 2013;
- Resource Estimate on Industrial Limestone located in Chile – October 2012;
- Due Diligence – Iron Ore Project located in Tocantins state - Brazil – October 2012;
- Resource Estimate – Vanadium Mine at Largo Resources Bahia state – Brazil - October 2012;
- Geological support to Feasibility study and ramp-up of the Lamego Mine Project – AngloGold Ashanti Brasil, located in Minas Gerais state – September 2009 until November 2011;
- Geological support to Feasibility study of the Corrego do Sítio Mine Project – AngloGold Ashanti Brasil, located in Minas Gerais state – September 2006 until January 2009.