

POSITION DESCRIPTION

Title:	Data Scientist
Location:	Perth, Western Australia
Work Type:	Full Time
Reports to:	GM Technology
Direct Reports:	Nil
Key Relationships:	GM Technology, Processing and Interpretation Department, Industry Data Science Specialists

THE COMPANY

HiSeis is a mining technology company specialising in hard rock seismic solutions for targeted orebody discovery. Based in Perth, WA, HiSeis provides a full end-to-end service from design & acquisition of 2D and 3D seismic surveys, to advanced processing and geological interpretation of the subsurface. HiSeis has completed 90+ seismic surveys across 4 continents over last 10 years with an established client base of over 50 customers, ranging from multinational mining companies to local junior explorers.

POSITION OVERVIEW

The Data Scientist/Computer Scientist role is a key contributor to new product development within HiSeis and responsible for the creation and optimization of novel code and software associated with the development of proprietary industry answer products.

This role works within the Technology team and is directly involved with the ideation, design, development, and implementation of technical projects. This position is expected to provide insight on potential for Software, Machine Learning and Artificial Intelligence applications to common datasets utilized at HiSeis and remain abreast of the emerging technologies from within the Data Science field.

This role will operate with an agile mindset to rapidly test, validate and progress new products into development.

PRINCIPAL RESPONSIBILITIES

The main aspects of the Data Scientist role include:

- Advising the optimal solution for a data management platform;
- Working closely with the HiSeis and 3rd parties to enable data ingestion and DMaaS templates suitable for all data types in the mining industry - data screening, triage and workflow development.
- Utilizing data science and machine learning to enrich mining datasets, namely drill hole data, seismic data and geoscience data. Ie. ML for prediction and database enrichment on mining data to extract value/prepare/interpolate/impute data for inputs to seismic Answer Products.

- Be a part of the product development team workings on analytical and machine learning products derived from seismic and geo scientific datasets. Incorporating most recent developments in the ML industry including computer vision, image segmentation and deep learning to develop proprietary products.
- Work closely with HiSeis portal development to optimize data representation, insight and management.
- Working in an agile and iterative framework for product development – Fail Fast, Fail Forward.
- Provide advice and recommendations on computing and product architecture for the purposes of optimising development and implementation with internal and 3rd party APIs, GUIs and software UI.
- Creation of workflows (where necessary) for internal optimisation of data handling, loading, visualisation etc.
- Document and contribute to industry publications/exposure on developed products through articles and case studies

SKILLS, EXPERIENCE & ATTRIBUTES

Education: Minimum BSc. In Geoscience, Certificate in Data Science

Required skills:

- Strong background in:
 - Cross disciplinary exploration projects
 - Subsurface technology research and development
 - Integrating Geophysical and Geological datasets
 - Software development
 - Code maintenance and development
- Fluent in Java and Python coding languages
- Advanced communication skills: Report Writing, Presentations
- Excellent interpersonal skills, self-motivated, team-player

LINK:

Email to j.smith@hiseis.com to register interest.