

*Responsible and experienced
geoscience professionals with a
healthy sense of adventure!*

TECHNICAL GEOSCIENCE SERVICES



PIÑATA RESOURCES
EXPLORE EVALUATE DEVELOP



AN EXPERIENCED GEOSCIENCE TEAM

About Us

Pinata Resources is a leading provider of geoscience services, with a team of professionals experienced in various geological settings, phases of exploration and mineral concession development. Our team has a demonstrated history of successful project completion both in Australia and internationally. Our personnel bring experience from projects in Asia Pacific, South America and Europe.

With a team of geoscience specialists boasting extensive experience spanning from exploration through to modelling and mining, we are committed to delivering comprehensive solutions. Our focus is on optimising data management and resource assessment, enhancing operational efficiency and facilitating informed decision-making within the dynamic natural resources industry.

We prioritise safety and environmental sustainability in all operations. Our team includes personnel with experience in dealing with government agencies and stakeholders. We also have robust safety and health management plans in place to ensure safe and efficient exploration.

Our Services



Geological databases, GIS systems, & geological models

'Fit-for-purpose' generation, implementation, maintenance and auditing of geological databases, data retention systems, geological models, GIS data sets, documentation and training services.



Technical desktop services

Data evaluation, research of the project area and selected comparable mineral projects and deposits, targeting studies, exploration plan, landholder information and access studies, preliminary desktop study of the target commodity information.



Detailed drill program design and exploration planning

Support of environmental permitting, budget development and logistical information: suppliers and logistics to achieve the exploration project outcomes.



Project management for exploration drilling

Manage projects, ensure environmental and cultural heritage permits are in place and compliance requirements are met, engage and supervise earthworks and drilling contractors.



Statutory reporting

Annual technical reports, annual expenditure reports, environmental reporting, community consultation reporting, responses to departmental requests for information.



Client Team Augmentation

Experienced geologists and field personnel to collaborate closely with your project team, enhancing exploration efforts and boosting capacity to meet deadlines.



Technical data management services

Data extraction and data evaluation of historical data and/or recent project data from publicly available data sources, and compilation into a formal documented data structure. Identification of remote sensing datasets for follow-up for specialist imagery interpretation.



Low-impact exploration services

Design, plan, and implement low-impact ground disturbance exploration services including surface sampling, technical parameters for geophysical contractors to quote on, supervision on the ground, management of the services.



Technical data templates

Development of fieldwork and core logging systems - 'fit-for-purpose' geological templates, manuals, training, data capture systems, for technical data that includes fieldwork, core logging, core testing, sample chain of custody.



ASX release technical support

Services to assist in the generation of maps, figures, images, ASX data compilation, generation of ASX market disclosures and investor presentations.

Operational Geoscience Personnel

We offer operational personnel to augment our clients' mineral exploration teams, ensuring successful exploration program initiatives. Whether working remotely or on-site, our experienced geologists and field personnel collaborate closely with your project team to enhance exploration efforts and boost capacity to meet deadlines.

Our expertise ensures efficient utilisation of available resources, enabling effective exploration even in resource-constrained scenarios. Clients and field personnel benefit from our remote team through logistical support, experienced advice, and completing technical reporting.

Clients that engage us typically fall into two main categories: Exploration Outsourcing and Exploration Augmentation, although needs evolve as projects mature.

Exploration Outsourcing

- › For clients in the initial phases of exploration and/or lacking the necessary resources to conduct committed programs: We bridge this gap by providing solutions from end-to-end program planning to delivery and reporting.

Exploration Augmentation

- › For clients with established exploration teams: We offer a combination of campaign-based support and long-term placements.
- › Personnel work directly with client site representatives as part of their exploration team, ensuring seamless communication and collaboration.

Whether you're embarking on a new exploration venture or seeking to optimise existing operations, our geoscience services provide tailored solutions to Explore - Evaluate - Develop mineral projects.

Project activities

Planning and Approvals

We facilitate the process of obtaining necessary approvals for field activities according to site specific requirements. This includes liaising with designated client personnel, government departments, subject matter experts, traditional owners, and stakeholders to prepare required documentation, and ensuring compliance with client requirements.

Geological Mapping and Sampling

Our experienced geologists are skilled at identifying lithology, structural patterns, and alteration zones. Through reconnaissance mapping, follow-up on anomalies, and targeted ground truthing, we create accurate maps for informed decision-making and precise target identification.

Geochemical Sampling Programs

Our geoscience services extend to conducting gridded soil sampling programs, optimally designed to target known areas of interest. Depending on the requirements of the client, we provide personnel to design surface sampling programs and/or conduct programs designed by others. Our teams coordinate logistics, supervise programs, and collect samples for surface geochemistry campaigns.

Geophysics Programs

Our team is experienced in deploying geophysics nodes for Ambient Noise Tomography (ANT) surveys. In a recent project, we conducted a comprehensive ANT program that encompassed deployment of nodes, data collection, and 3D modelling. The program provided knowledge of local geology and structure, and illustrated spatial relationship with geochemical data, and ultimately delineated new exploration targets.

Drilling Campaigns

Geoscience services involve comprehensive drilling supervision and detailed geological logging of drill samples. As the on-site client representative, we oversee drilling operations to ensure they are conducted safely and efficiently, while maintaining the quality of drill samples.

Responsibilities include adhering to safety protocols, monitoring efficient progress, and providing accurate downhole survey updates. Additionally, we perform lithological, mineralisation, and alteration logging, as well as handle core mark up, sampling, core cutting, packaging, and sample dispatch.

Data Management and Support

We store exploration data in accordance with the needs of our clients. In the absence of specific protocols, our staff use SharePoint sites, individually set up for each client, to store this information.

We also have remote teams with expertise in exploration programs to provide additional support to our site personnel. These teams oversee the programs, conduct quality checks, and offer general assistance. This service ensures that field time is dedicated to efficient data collection while maintaining data integrity.

Program Management

Delivering the complete exploration program, Pinata Resources are involved from exploration design through permitting and land access, logistics management, safety and risk management exploration execution and closure, compliance reporting, market disclosures and technical reporting for the exploration and resource development phases of the project.

- ✔ Identify, define and develop targets and deposits through appropriate exploration methods.
- ✔ Provide teams with appropriate experience to undertake exploration programs and manage the logistics of field programs.
- ✔ Conduct programs safely and with respect and consideration for the people and environment.
- ✔ Evaluate information progressively and provide timely insights to inform client decisions.
- ✔ Report activities in line with professional reporting standards and guidelines.

Management approach

1. Plan

Work closely with clients to understand exploration objectives, stakeholders, resources, budgets and time frames.

Identify and coordinate requirements for internal and external permits, permissions and authorisations to undertake the program.

3. Implement

Conduct exploration programs including desktop studies, project reconnaissance, validation of historic work, geological mapping, geochemical sampling, geophysics surveys and drilling programs.

In the process of delivering programs, identify and manage risks and ensure progressive reporting to the client.

2. Prepare

Identify and schedule resources and where required manage the procurement of external services and products.

Plan and manage logistics, ensure personnel are prepared and able, and equipment is maintained and available for the planned program.

4. Close

Manage or coordinate rehabilitation works, site inspections and provide reports in compliance with permitting requirements and demobilise equipment and staff on program completion.

Provide technical content and support clients in development of market disclosures and reports.

Information Management

Our team of dedicated Geoscience Information Managers, comprised of geologists with specialty experience in geoscience information management, utilise commercial software packages commonly used in the exploration and mining industry.

Services are engaged by clients to support their geoscience projects, including exploration, drilling, and operational management. We facilitate the collection, validation, and quality control of geological information from various sources, including historical data, and provide tools for storing, retrieving, analysing, and visualising geological information.

We develop custom-built databases and provide database migration services including planning and implementation, migration of data from existing databases and other sources, and post-migration testing to ensure a seamless transition.

Auditing services include geological data audits, data capture and storage checks, cross-checking of the database against original source records, and audits of the database and processes to ensure data integrity and reliability. We seek to enhance the quality of information and enable the usage of expensively gained data to inform decision-making.

Process Improvement is a key focus, streamlining data entry processes, enhancing data retrieval efficiency, and preparing data ready for modelling. With comprehensive geoscience information management capabilities, all data management needs can be handled.

- ✔ Provide and implement complete and ongoing database management, utilising commercial or custom-built database packages to meet unique needs.
- ✔ Facilitate training for geoscience teams in the use of the database, including data capture, validation, QAQC procedures and best-practice data storage solutions.
- ✔ Offer ongoing database support, with access to support and services in different time zones.
- ✔ Identify historic data and incorporate into the database.

Summary

Pinata Resources specialises in the exploration, evaluation, and development of geological deposits. It provides geoscience personnel to supplement existing teams or bridge the gap for clients without an exploration team, participating in both on-site and remote activities.

We excel in distinguishing minerals and alteration zones, conducting structural and volumetric analysis of vein and/or dike-hosted deposits, and developing detailed 3D geological and structural models using advanced software like Leapfrog, Minescape, Minex, and Vulcan.

Technical evaluation of geoscience data is conducted to generate drilling targets for different deposit types including IOCG, VMS, REE, epithermal, stratified mineralisation, vein mineralisation, oxide zone mineralisation, and porphyry.

The team has a track record of successfully negotiating land access agreements with traditional owners and landholders.

In addition to overseeing extensive exploration programs and providing mentorship to exploration geologists, the company conducts 'fit-for-purpose' geological audits of drill holes, databases, and geological models across a range of mineralisation styles. This has led to improvements in database integrity, data capture systems, fault locations and/or structural domains, and demonstrated how regolith, barren, and weathered units have impacted the geological model.

To comply with environmental and safety regulations, Pinata Resources has also generated Risk Management Plans and implemented Mine Management Plans for the Northern Territory, Program of Works for Western Australia, and drilling campaigns in Queensland and New South Wales to comply with the various environmental regulations in each State.

With a commitment to excellence and innovation, Pinata Resources is your trusted partner in exploration.

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