



## Exploration and innovation



The World Bank Group report, "Minerals for Climate Action: "The Mineral Intensity of the Clean Energy Transition," found that the production of key minerals will need to increase by nearly 500% by 2050, to meet the growing demand for clean energy technologies.

The challenge?

Locating the deposits.

Much of the greatest potential deposits remain hidden across vast swaths of unexplored land. Land surveying, 3D modelling and sampling will all be key for businesses to locate the critical minerals the world needs, in sufficient quantities.

The technologies of the past are not up to the challenge. What is required is great innovation and research.

The UK has over 170 universities and higher education institutes, with 4 of its universities ranked in the global top 10, and specialist mining colleges. They have world-class geoscience, minerals and materials research centres and can access some of the most advanced technology on the planet.

UK businesses benefit from this research and education and are at the cutting edge of geological surveying technology, offering the full breadth of expertise in geological exploration including in land surveying, 3D modelling, sample analysis, drilling equipment and contractors.

**Learn more about UK mining innovation  
for your business.**

**Contact us**



## The British Geological Survey

The British Geological Survey (BGS) is a world-leading geological survey that enables governments, industry and the public to make better decisions regarding geology and associated processes in managing the economy, the environment and society. BGS works with the UK and international partners to bridge sectors, disciplines, international borders and the boundaries between natural and human environments. BGS is independent and impartial. Its international work includes major institutional strengthening projects and supports development issues such as:

- realising sustainable benefits from natural resources
- improved water security
- living with geological hazards
- understanding global environmental change
- development of sustainable cities



The British Geological Survey (BGS) has a long history of working internationally, including extensive work in Central Asia in recent years. BGS's projects in Kyrgyzstan and Tajikistan focus on digital transformation and geological data management, partnering with the national geological survey organisations to help them deliver accessible, interpretable and re-usable geoscience data. BGS has also worked with organisations across Central Asia on understanding natural hazards.

BGS has extensive expertise in minerals geoscience, with much of its research underpinned by the internationally respected mineral statistics database and its position as the major UK provider of national spatial and statistical minerals information. BGS works with partners on the sustainable development of mineral deposits and resources, the management of these resources and the security of supply. Much of BGS's international work has an emphasis on critical raw materials for use in green technologies.

With its high level of expertise and access to data, BGS was appointed to lead the UK Critical Minerals Centre. The centre is a collaboration between BGS, universities and both private and public sector partners that will provide up-to-date analyses on the supply, demand and flow of critical minerals around the world.



## Alfred H Knight

Alfred H Knight provides independent inspection, analytical, and consultancy services to the metals and minerals sector, operating globally through a network of technical and operational experts. This allows us to deliver swift, accurate, and reliable results to clients at crucial points in logistics chains, such as loading and discharge ports, warehouses, refineries, and mine sites. With over 140 years' worth of experience, we are trusted by major clients across the mining, refinery, smelting, government, financial, and international trade sectors. Alfred H Knight maintains rigorous quality standards to ensure that all of its operations provide the highest level of services to the clients. This is achieved through compliance with industry standards and regulations, accreditations from external agencies including ISO/IEC 17025:2005 and ISO 9001:2015, and in-house quality standards.



## Robertson Geo

Robertson Geo is a market leader in the design and supply of premium wireline logging technology. For over 40 years the company has pioneered the development of advanced wireline instrumentation for borehole geophysics used in site investigation in the mining, geotechnical, renewables, groundwater and hydrocarbon sectors. As a UK-based OEM the company offers geophysical logging equipment supply, onsite services and system rentals for subsurface data acquisition of mineral, hydrological, environmental and geoscience projects. Many of Robertson Geo's logging technologies are unique in the industry, being calibrated, validated and manufactured under an ISO9001 Quality Management System.



Its products have been supplied to over 150 countries and are in use in a wide range of harsh climatic and subsurface environments. Robertson Geo Operational Service Engineers can be deployed to any global location; field crews are capable of prolonged service logging applications and are expert in data processing, training and interpretation.



# UK mining expertise

## SRK Consulting

SRK Consulting is an independent consulting company that provides multi-disciplinary technical services to the worldwide mining industry. This generally comprises assisting clients to find valuable minerals, determining they are economic and managing the process of designing and constructing mines to extract and process those minerals.

SRK provides support to clients across many technical disciplines including exploration, geology, geotechnical engineering, water management, mining, processing, infrastructure, waste management, financial evaluation and environmental & social issues.



The SRK Group comprises over 1,600 professionals, offering expertise in a wide range of resource engineering disciplines with 45 offices in 20 countries located on six continents. The SRK Group's independence is ensured by the fact that it holds no equity in any project. This permits the SRK Group to provide its clients with conflict-free and objective recommendations on crucial judgement issues. The SRK Group has a demonstrated track record in undertaking independent assessments of resources and reserves, project evaluations and audits, Mineral Experts' Reports, Competent Persons' Reports, Mineral Resource and Ore Reserve Compliance Audits, Independent Valuation Reports and independent feasibility evaluations to bankable standards on behalf of exploration and mining companies and financial institutions worldwide. The SRK Group has also worked with a large number of major international mining companies and their projects, providing mining industry consultancy service inputs.



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