

E-MINES
Dun, France



ABOUT

E-MINES is an expert services company created in 2011. Its Head Office is in Ariège, southern France. Its activity includes Research & Development in metallogeny and expert services to support mining companies. E-MINES promotes responsible mining in developed countries.

The company funds Ph.D. theses, in collaboration with academic partners, to strengthen its scientific and technical development. It is currently supervising two Ph.D. students. One of them works on primary tungsten resources in the Pyrénées, the other one works on antimony in Vendée. Those theses not only help strengthening the scientific development and expertise of the company, they also participate, more globally, in a better understanding of metallogeny in the French geological context.

E-MINES is also developing a software: the “GKR” for “Geological Knowledge Representation”. The GKR system is able to compile data provided by public or private organisms, in order to identify all known deposits or occurrences in specific areas of the world for one or several commodities in order to produce a complete dataset. This powerful softwar is run with 4D platform and manages millions of information.

EXPERTISE

E-MINES has two main domains of activities, which are:

- Research and development: essentially for its proprietary GKR software, an expert system developed with internal resources to produce expertise in the domain of mineral resources in a broad sense; E-MINES scientific program focuses on tungsten, antimony and titanium. These critical and strategic metals are likely to integrate or initiate key industrial sectors for the economy of France.
- Support activity and expertise: essentially for mining exploration companies, and environmental studies. Existing models for each commodities or critical metals are often too imprecise to have the best probabilities of success to develop a mine. E-MINES helps companies grow their chances of success.

FACILITIES & SERVICES

In addition, E-MINES has set up an analysis laboratory and is developing an X-Ray method to measure metal concentration in soils or rocks samples. This method is non-disruptive and non-destructive, and therefore allows unlimited re-analyses of the samples. It is also designed to be more eco-efficient than other analysis techniques, such as agua regia or acid attacks (no needs for water, for instance). E-MINES has already carried out more than 40 000 analyses during the last four years.

The company also offers management and logistic services for samples collected by geologists from client exploration companies. The laboratory follows a strict protocol for samples preparation and analyses, and has been granted the ISO 9001 quality certification in 2015.

Field work:

Soil Augers, overhauser magnetometer GSM-19 GW with VLF station

Sample preparation:

Vibratory sieve shaker, Jones riffle splitter, Jaw crusher, Disc Mill

Sample analysis:

XRF Niton XL3t 980 GOLDD



MORE INFORMATION

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