

TARGETING FOR TECHNOLOGY METALS

With our extensive experience, we are your trusted partner for environmental and engineering services. Whether it's engineering, consulting, technical services or software solutions - we provide support in implementing your projects and develop tailored solutions in plant engineering.



- Sample selection and characterization incl. NORM
- Geometallurgical test work
- Test work design, management, interpretation, reporting and presentation
- Hydrometallurgical process development
- Minerals processing tests and engineering
- Chemical engineering
- Advanced computer simulations to optimize leaching kinetics
- Analysis and separation of NORM as well as integration of NORM removal within the flowsheet

Facilities fully equipped and certified for handling NORM samples. ISO 9001:2015 and ISO 14001:2015 certified company AEO certified.



YOUR SERVICE PARTNER FOR MINERAL RESOURCES

Umwelt- und Ingenieurtechnik GmbH Dresden (UIT), part of the General Atomics Europe Group, provides global engineering, consulting and process solutions with over 30 years of experience and a reputation for expertise and competence.

We specialize in the construction of industrial and mine water treatment plants, the development of battery recycling processes, the design and construction of pilot plants, the use of advanced geophysical instrumentation of mining exploration, work on cutting-edge topics such as biogas and hydrogens, and are proud of our hydrometallurgical pilot plant for study and processing of critical technology metals.

Our team of more than 80 professionals works continuously to develop innovative and sustainable solutions for our customers, with a commitment to protecting the environment.



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- Process Development
- Hydrometallurgy
- Field Exploration
- Consulting
- Material Characterization
- Economic Evaluation





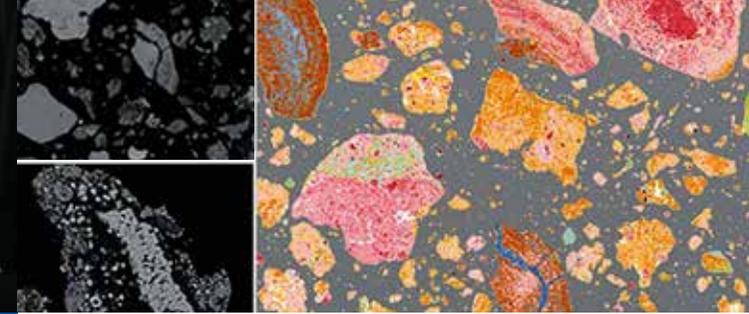
Your partner from lab testing to plant construction:

- Development of process flowsheets for challenging deposits
- Scientific and technical studies
- Technical and economic assessment
- Basic and detailed engineering
- Plant construction from pilot to industrial scale



Exploration with a geometallurgical mindset:

- Geological mapping and integrated field work
- Image and GIS data collection incl. drone-based exploration Sampling and data collection
- Drill campaign planning and supervision
- Planning and support of field and drill programs
- Transfer and translation of field data into deposit economics



Unraveling complexity, defining potential:

- Sample selection and characterization incl. NORM
- Characterization for physical beneficiation
- Geochemistry with certified analytical laboratory
- Geometallurgical approach using SEM, Automated Mineralogy, XRD, and various tomographic methods (e.g. μ CT)



Economic evaluation based on field data and metallurgical expertise:

- Metallurgical test work using inhouse test facility and experienced processing partners
- Process development
- Economic estimation

Technological evaluation

- Process simulation and optimization
- Techno-economic assessment (TEA)
- Economic efficiency analysis
- Profitability review



From field exploration to plant design - Your comprehensive consulting partner:

- Geometallurgical reports
- Exploration strategy and project management, site visits
- Mapping and field investigations, Mineral resource/reserve estimation
- Verification of drilling and QA/QC protocols
- Technical due diligence

Project evaluation and studies

- Preparation of technical reports based on international codes
- Project review, independent technical reports
- Design verification at various scales
- Process plant revision and plant audits



Integral solutions by considering the whole process chain:

- Separation and refining of critical materials
- Physical and chemical beneficiation
- Hydrometallurgical process development
- Test work at in-house laboratories and technical centers
- Process simulation accompanies all stages and scales
- Technical assessment towards basic engineering

How can we support you with your mineral resources project?

Contact us at: info@uit-gmbh.de