



The Technische Universität Bergakademie Freiberg is an equal opportunity employer and specifically welcomes applications from female scientists. Preference will be given to applicants with disabilities when qualifications are equivalent.



The Faculty of Mechanical, Process and Energy Engineering, Institute of Mineral Processing Machines (IAM), announces a temporary position starting at the earliest date possible for a

### Research Assistant – number 40/2019

within an KIC EIT Raw Materials up-scaling project.

**Vergütung:** Entgeltgruppe 13 TV-L  
**Stellenumfang:** 0,5 VZÄ (20 h/Woche)  
**Befristung:** 30.06.2021

The IAM, with partners from Finland, France and Sweden, investigates in line with a Europe-wide joint research project new approaches on increasing the efficiency of comminution of metal containing slags. Understanding the nature of the raw materials to be processed is key to efficiency increases. The IAM will investigate the mineral structure based on existing tools such as the Quantitative Microstructural Analyses (QMA, based on optical microscopy), point load test and micro-indentation. Contributions to further develop those methods within the project with regard to computer aided picture analyses of mineralogical structures are envisaged.

#### What you can expect from us:

We offer a challenging, diverse and responsible position within the project team. Further members of our institute support you with expert knowledge and experience and assist you in solving your tasks with innovative approaches. Within the team you are assigned with the coordination, planning and execution of the investigations of sample materials obtained from other project members as well as with the input towards project reports and publications of the research results. For experimental works, an extensively equipped mineral processing laboratory will be at your disposal.

#### What we expect from you:

We expect a higher-than-average university master degree preferably in the field of technical mineralogy. A basic understanding of mineral processing on industrial scale, in particular on comminution processes, proper sampling and experimental work with ores would be welcome. Experiences in computerized image analysis of mineralogical structures could perfectly complement your background. An opportunity for writing a PhD thesis may be granted.

You are looking forward to working independently and are able to think solution orientated and in engineering terms. You are inspired to work in international teams associated with occasional travels and have an excellent knowledge of spoken and written English.

For further information Prof. Dr.-Ing. Lieberwirth is available under +49 3731/39-2558.

Please include the reference number **(40/2019)** on your application.

Kindly send the usual application documents as hard copies (including certificates, CV, letter of motivation, letter of recommendation) not later than **(28.02.2019)** to (the postmark of the ZPS of the TU Bergakademie Freiberg is valid):

**TU Bergakademie Freiberg - Dezernat für Personalangelegenheiten - 09596 Freiberg**

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