BAM
Bundesanstalt für Materialforschung und -prüfung

To strengthen our team in the division 4.4 "Thermochemical residue treatment and recovery of valuable materials" in Berlin-Adlershof, starting as soon as possible, we are looking for a

PhD Student (m/f/d) in the field of natural or engineering sciences such as chemistry, process engineering, environmental engineering

Salary group 13 TVöD
Temporary contract for 36 months
65% of the regular collectively agreed working hours

The Bundesanstalt für Materialforschung und -prüfung (BAM) is a materials research organization in Germany. Our mission is to ensure safety in technology and chemistry. We perform research and testing in materials science, materials engineering and chemistry to improve the safety of products and processes. At BAM we do research that matters. Our work covers a broad array of topics in the focus areas of energy, infrastructure, environment, materials, and analytical sciences.

We are looking for talented people to join us.

Your responsibilities include: PhD on the topic: Recycling of lithium iron phosphate batteries using thermochemical processes. The aim of the PhD project is to develop and evaluate new, thermochemical process options for the recycling of LFP batteries.
Specific tasks include:

- Targeted investigation and development of routes aimed at the separate recovery of lithium, iron and phosphate as secondary raw materials for alternative sales markets.
- Carrying out experimental investigations in the thermal process pilot plant and the laboratories of BAM
- Use of modern analytical methods for the examination of the secondary raw materials produced and for process analysis
- Comparison of the developed routes with existing recycling options, in particular the extraction of lithium iron phosphate for battery production using LCA methods
- Cooperation with BOKU Vienna (LCA methods), other research institutions and the industry

Your qualifications:

- Successfully completed scientific university studies (Master/ Diploma) in the field of natural or engineering sciences such as chemistry, process engineering, environmental engineering
- Knowledge in the field of material separation
- Knowledge in the field of recycling
- Experience in the field of thermal processes
- Good command of English
- Goal-oriented and structured way of working, initiative/willingness and ability to work hard, ability to work in a Team/willingness to cooperate, willingness to learn and conceptual, strategic and innovative thinking skills

We offer:

- Interdisciplinary research at the interface of politics, economics and society
- Work in national and international networks with universities, research institutes and industrial companies
- Outstanding facilities and infrastructure

- Flexible working hours and mobile working

Your application: We welcome applications via the online application form by 02.09.2022. Alternatively, you can also send your application by post, quoting the reference number 215/22-4.4 to:

Bundesanstalt für Materialforschung und -prüfung
Referat Z.3 - Personal
Unter den Eichen 87
12205 Berlin
GERMANY
www.bam.de

Dr. Christian Adam will be glad to answer any specific questions you may have. Please get in touch via the telephone number +49 30 8104-5670 and/or by email to Christian.Adam@bam.de.

BAM pursues the goal of professional equality between women and men. We therefore particularly welcome applications from women. In addition, BAM supports the integration of severely disabled persons and therefore especially welcomes their applications. With regard to the fulfilment of the job advertisement requirements, the application documents are examined individually. Recognised severely disabled persons will be given preferential consideration if they are equally suitable.

The advertised position requires a low level of physical aptitude.

I am interested and would like to apply

Back

BAM actively supports the compatibility of work and family and has been certified as a family- and life-phase-conscious employer by the “audit berufundfamilie” since 2015.