TECHNISCHE UNIVERSITÄT BERGAKADEMIE FREIBERG
The University of Resources. Since 1765.

Virtuhcon Centre for Innovation Competence: Virtual High Temperature Conversion

At the Centre for Innovation Competence "Virtual High Temperature Conversion Processes - Virtuhcon" based at TU Bergakademie Freiberg two research groups focus on the development of new technologies in the fields of metallurgy and material conversion. Research is based on the numerical simulation and virtualisation of high temperature conversion processes. The centre offers excellent lab equipment and is integrated in a multidisciplinary environment offering strong interconnections between university and industry.
The TU Bergakademie Freiberg and the Federal Ministry of Education and Research (BMBF) invites applications to fill the position of the

Research Group Leader (m/f/d) "Multiphase Models" – reference number 22/2019

at the Virtuhcon centre.

FAMILIE IN DER HOCHSCHULE
Mitglied des Best Practice-Clubs

Salary: TV-L E15
Time limitation: until 31st July 2021 (prolongation aspired)

The successful candidate leads an international team of minimum four young scientists. The interdisciplinary research is integrated in the well-developed infrastructure available including pilot and large scale plants, with scientific freedom as a key issue. The group receive funding from the BMBF including start-up equipment and consumables. The research group is focused on the development of solution strategies and numerical models for dense, reacting systems in metallurgy and chemistry. The implementation of the expanded strategy concept [1] of Virtuhcon is a requirement.

Applicants should have:
- a PhD in the fields of process engineering, metallurgy, mathematics, mechanical engineering or equivalent
- experience in CFD-modeling with dense, reacting particle systems
- international work experience
- relevant publications in scientific journals
- ability to perform under pressure, experience with working in and or leading interdisciplinary teams, high level of motivation

For further details on the application requirements please see [2] (section 7.2.2.1). Applications must include a short project description in line with the Virtuhcon strategy concept [1] and masterplan [3].

We particularly welcome and encourage applications from women and disabled people, recognizing they are under-represented at TU Bergakademie Freiberg. The principles of fair and open competition apply and appointments will be made on merit.

Applications quoting the reference number (22/2019) should **all be addressed to** TU Bergakademie Freiberg, ZIK Virtuhcon and the Projektträger Jülich (representing the BMBF) by February, 28th 2019.

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und Projektträger Jülich
Dr.- Ing. Bernd Schumann
Forschungszentrum Jülich GmbH
Postfach 61 02 47
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Information about the centre, the strategy concept and the masterplan you find at www.virtuhcon.de. Informal enquiries about the positions can be made to Prof. Meyer or Dr. Bauersfeld, Tel.: +49 (0)3731 39-4536, E-Mail: Sindy.Bauersfeld@iec.tu-freiberg.de.

[1] https://tu-freiberg.de/sites/default/files/media/virtuhcon-20590/Downloads/virtuhcon_strategiekonzept_phase2.pdf
[2] http://www.unternehmen-region.de/_media/b_FoeRiLi_ZIK_2_Phase_2_Sept-2014-114_final.pdf
[3]https://tu-freiberg.de/sites/default/files/media/virtuhcon-20590/Downloads/masterplana3_virtuhconii_2018-04-10_engl.pdf