**Ruhr-Universität Bochum** (RUB) is one of Germany’s leading research universities. The University draws its strengths from both the diversity and the proximity of scientific and engineering disciplines on a single, coherent campus. This highly dynamic setting enables students and researchers to work across traditional boundaries of academic subjects and faculties.

Within a large-scale collaborative research initiative comprising several highly interdisciplinary projects, the interaction of reacting particles with surrounding reactive gases will be examined. The job description is as follows:

- Model development for the movement and chemical reaction of particles of complex shape in a reacting gaseous environment
- Model programming in C++ in parallel architectures
- High fidelity numerical simulation of available experimental configurations

We offer a full-time employment at the TVL-13 level of the public employment scale of the State of NRW, starting as soon as possible, for a fixed term of three years.

We are committed to equal opportunities and female candidates are strongly encouraged to apply.

Enquiries and applications are to be sent in electronic form (single PDF document including CV, full transcripts of university records and the name and contact details of three referees) not later than August 1st, 2020, to:

sekretariat@leat.rub.de

**IMPORTANT NOTICE:**

- receipt of your application will only be acknowledged after the application closing date.

The load of teaching will be calculated according to §3 of Lehrverpflichtungsverordnung (state of North Rhine-Westphalia).

Travel expenses for interviews cannot be refunded.

At Ruhr-Universität Bochum, we wish to promote careers of women in areas in which they are underrepresented, and we would therefore like to encourage female candidates to send us their applications. Applications by suitable candidates with severe disabilities and other applicants with equal legal status are likewise most welcome.
Anforderungsprofil

The ideal candidate will hold a Master (or PhD) in Engineering, Physics or Mathematics and has a prior knowledge of the modelling of particle systems, fluid mechanics and C++ Programming. Required are especially a proved experience (at Master or PhD level) in:

- Discrete Element Modelling of particle systems with particles of complex shape
- Experience in development of numerical methods on highly parallel architectures
- Experience in the simulation of particle-laden reactive flows

Familiarity with Immersed Boundary Methods and OpenFOAM is desirable. Knowledge of the English language in word and writing is required (TOEFL & GRE Records required). Mastering of or willingness to learn the German language (C1 proficiency level would be ideal), ability to work in a dynamic and motivated team and to communicate are considered very valuable assets.

Vergütung

TV-L 13

Art der Beschäftigung

Vollzeit

Zeitraum der Beschäftigung

3 Jahre

Bewerbungsfristende

Samstag, 1. August 2020 - 23:59

Kontakt

Vorname

Viktor

Name

Scherer

Telefon

+49 234 3226328

E-Mail

sekretariat@leatrub.de


Bitte beziehen Sie sich in Ihrer Bewerbung auf https://www.stellenwerk-bochum.de/