

PhD Position: Modelling Fragmentation in Large-Scale DEM Simulations

Department Chemie- und Bioingenieurwesen (CBI), Erlangen, TV-L E 13, Vollzeit, Befristete Anstellung, Bewerbungsschluss: 12.10.2025

Your Tasks

The aim of the research project is to develop a physically accurate and efficient numerical method for describing particle breakage in DEM simulations. The method should enable large-scale DEM simulations of comminution, wear, and grinding processes. Click here for a detailed description of the project.

The position is embedded in the graduate programme <u>Fracture across Scales</u> (<u>FRASCAL</u>), and the workplace is the <u>Institute for Multiscale Simulation (MSS)</u> This position offers an exceptional multidisciplinary environment with close collaboration between simulation and experiment, access to high-performance computing resources, and interactions with researchers at MSS, FRASCAL, and across the Friedrich Alexander University.

Your Profile

Necessary qualifications:

The ideal candidate has the following qualifications:

- Masterls degree in physics, mechanical engineering, materials science, computational engineering, computer science (with a strong interest in physics), or related subjects
- Excellent programming skills, preferably in C++ and Python

Click here for information about further beneficial qualifications.

Additional Information

Befristetes Forschungsvorhaben

We are always looking for new employees. Feel free to apply outside of the specified period.

Please only use our application form to apply:

Apply now

Interessiert?

Die vollständige Stellenausschreibung sowie alle Infos zum Bewerbungsverfahren finden Sie hier:

