

The Department of Applied Mechanics at Brandenburg University of Technology Cottbus-Senftenberg is seeking candidates for a

## **Postdoctoral Scientist (f/m)**

in the field of Computational Materials Science. The Department participates in the FLAG-ERA Research Program.

The ideal candidate should be familiar with aspects related to modelling foils behaviour at different scales. Experience with modelling carbon fibre material classes is also most welcome.

### **Tasks:**

- Development and implementation of an material description of foils with anisotropic behaviour considering nanomechanical properties of graphene
- Work package coordination within the project
- Coordination of the communication with all project partners
- Support in supervising students
- Third party fund raising

### **Requisites:**

- university and doctoral degree preferable in the engineering or physical field
- experienced knowledge in modelling geometrical and/or physical non-linearity
- experienced knowledge in modelling thin layered structures and microstructures (covering multiscale approaches)

### **What we offer:**

- Fixed term contract for 24 months in full-time. The employment contract is based on contracts for the German civil service (TV-L).
- We particularly welcome applications from women. Preference will be given to handicapped applicants provided equal qualifications.<sup>1</sup>

### **Desired skills and experience**

The applicant should have a strong international profile and an excellent track record in key computational areas including one or more of the following topics: defects in materials; foils, surfaces and interfaces; microstructures and multiscale computational strategies. A proven record in initiating new projects and independently acquiring funding, preferably through acquisition of personal grants, is welcome.

### **About the employer**

For further information please contact:

Prof. Dr.-Ing. Matthias Ziegenhorn (Phone: +49 (0) 3573 85 476, Email: [matthias.ziegenhorn@b-tu.de](mailto:matthias.ziegenhorn@b-tu.de))

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<sup>1</sup> BTU Cottbus - Senftenberg is committed to treating all job applications on their merit irrespective of sex, gender, age, marital status, race, colour, disability, religion, ethnic or national origin