At the B CUBE - Center for Molecular Bioengineering, an institute of the Center for Molecular and Cellular Bioengineering (CMCB), in the Junior Research Group Multi-Scale Analysis (Dr. Igor Zlotnikov) a position as

**Research Associate / PhD Student**  
**for in-situ nanomechanical characterisation and modeling**

(Subject to personal qualification employees are remunerated according to salary group E 13 TV-L)

is available, starting at **01.02.2020** with 65% of the fulltime weekly hours. The position is initially limited for 17 months with the possibility of extension. The period of employment is governed by the Fixed Term Research Contracts Act (Wissenschaftszeitvertragsgesetz - WissZeitVG). The position offers the chance to obtain further academic qualification.

**Tasks:** The main responsibilities will be to perform structural and nanomechanical study of biological tissues employing nanoindentation-based techniques and electron microscopy-based techniques, *in-situ* nanomechanical analysis of focused-ion-beam milled structures; and simulations employing finite element analysis (FEA) approach.

**Requirements:** university degree (masters) preferably in the fields of materials science or mechanical engineering. Qualifications should include extensive experience with mechanical characterization using nanoindentation-based techniques, environmental control instrumentation, electron microscopy and performing FEA simulations. Strong writing skills with a proven track record of successful research and publication is essential. Excellent communication skills in English are essential as this is the colloquial language at the B CUBE.

For further information about the institute please see [www.tu-dresden.de/bcube](http://www.tu-dresden.de/bcube).

Applications from women are particularly welcome. The same applies to people with disabilities.

Please send your complete application until **18.11.2019** (stamped arrival date of TU Dresden applies) by mail to: **TU Dresden, B CUBE, Herrn Dr. Igor Zlotnikov, Tatzberg 41, 01307 Dresden**. Please submit copies only, as your application will not be returned to you. Expenses incurred in attending interviews cannot be reimbursed.

**Reference to data protection:** Your data protection rights, the purpose for which your data will be processed, as well as further information about data protection is available to you on the website: [https://tu-dresden.de/karriere/datenschutzhinweis](https://tu-dresden.de/karriere/datenschutzhinweis)