

The Institute of Applied Mechanics of the Faculty of Mathematics/Computer Science and Mechanical Engineering invites applications for a

University Professorship (Salary Level W1 BBesO) in Computational Dynamics

at the earliest possible date.

The holder of the position will be entrusted with research work in the field of computational methods in multi-body dynamics. It is expected that the future job holder is an expert in the field of

method development of numerical algorithms of multi-body dynamics and/or the dynamics of continuous systems.

The main focus of the professorship may lie, for example, in the following areas:

- a. Coupling of multi-body systems and the finite element method, especially taking into account material non-linearities;
- b. Treatment of vibration damping or actuators with regard to functionalized material properties;
- c. Development of algorithms for discrete dynamic systems.

As part of the position holder's teaching, he/she will be responsible for the compulsory course "Technische Schwingungslehre" held in German (graduate course). Applicants are expected to be able to teach in German and English. Pleasure and commitment in teaching are expected as well.

Applicants are expected to be willing to participate in coordinated interdisciplinary programs.

The prerequisites for employment (§ 30 of the NHG) are a completed university degree, pedagogical and didactic aptitude, and a special ability to manage in-depth independent scientific work, which is usually proved by the outstanding quality of a doctorate.

Junior professors are employed for a period of three years in accordance with § 30 (4) NHG. After a positive interim evaluation, the employment can be extended by up to three years. The position is generally suitable for part-time employment.

As an equal opportunities employer, Clausthal University of Technology has set itself the strategic aim of significantly increasing the proportion of women. Female scientists are therefore particularly encouraged to apply. Equally qualified candidates with disabilities will be given preference. Applications of scientists from abroad are explicitly welcome.

For further information, please contact the Chairman of the Search Committee. Prof. Dr.-Ing. Stefan Hartmann, Tel. +49 (0) 5323 72-2774, FAX +49 (0) 5323 72-2203, email: stefan.hartmann@tu-clausthal.de

Please send written applications to the Dean of the Faculty of Mathematics/Computer Science and Mechanical Engineering, Prof. Dr.-Ing. Volker Wesling, Fakultät III, Leibnizstr. 6, 38678 Clausthal-Zellerfeld, by **September 30, 2018**. Please send your documents in electronic form (PDF file) to fakultaet3@tu-clausthal.de.

Please note our information on data protection in the application process at <http://www.tu-clausthal.de/stellenangebote/>

Application costs are non-refundable. We ask you to submit only copies of your application documents, as we are unable to return them for cost reasons. They will be destroyed at the end of the selection process in compliance with legal provisions.