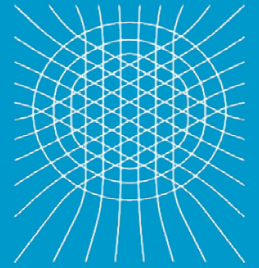


**Are you looking for a new professional challenge? Then this is the place to be!
Become part of our international team!**



ZIB

28.10.2020

The Zuse Institute Berlin (ZIB) is a non-university research institute under public law of the state of Berlin. Within the Mathematics for Life and Material Sciences, the research group Computational Anatomy and Physiology is offering limited from January 1st 2021 to December 31st 2022

**a research position (m/f/d)
reference code: WA 65/20
pay grade E13 TV-L Berlin (100%)**

As part of a project funded by the DFG Cluster of Excellence MATH+ you will develop and investigate model-based and data-driven methods to determine bite forces for dental implantology.

Your tasks

- modeling and simulation of mechanical loading of jawbones,
- modeling of bone remodeling and its impact on mechanics,
- development of machine learning methods for the prediction of bite forces,
- development of methods to integrate simulated and measured training data.

Your profile

- a master degree or PhD in mathematics, physics, computer science, or a comparable discipline,
- strong interest in numerical simulation methods and machine learning,
- knowledge of finite element methods or artificial neural networks,
- programming experience preferably in C++ and Python,
- good communication skills, both within the project group and with the project partners,
- and the ability to work independently and goal-oriented.

We also expect creativity and commitment to the project.

We are offering a friendly working atmosphere with flexible work and meeting times, excellent equipment, and a challenging professional environment

as well as

- a comprehensive training in a competent and cooperative team,
- additional pension scheme (VBL),
- 30 days annual leave, flexible working hours (flexitime),
- payment in accordance with TV-L (Collective Agreement for the Public Service of the federal states), taking into account the relevant professional experience and annual special payment
- as well as the discounted use of canteens and the sports program of Freie Universität Berlin,
- discounted BVG ticket (company ticket).

The candidature of women is encouraged. Since women are underrepresented in applied mathematics, ZIB is trying to increase the proportion of women in this research area.

Persons with disabilities will be given preference when equally qualified.

Please send your application, quoting the reference code **WA 65/20**, including CV in tabular form and all relevant documents, by **November 29th 2020** (date of receipt) to

Zuse Institute Berlin (ZIB)
- Administration -
Takustr. 7
14195 Berlin

or electronically as pdf-form to: jobs@zib.de.

Our private policy statement regarding application data is available at www.zib.de/impressum.

For further information about the position please refer to our website www.zib.de or contact Dr. Martin Weiser (weiser@zib.de) or Dr. Stefan Zachow (zachow@zib.de).

For further job offers please visit our website at www.zib.de.