Are you looking for a new professional challenge? Then this is the place to be! Become part of our international team!
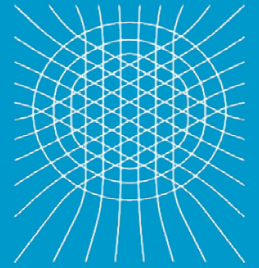
January 5, 2021

The Zuse Institute Berlin (ZIB) is a non-university research institute under public law of the State of Berlin. Within the division Mathematics for Life and Materials Sciences, the research group Computational Anatomy and Physiology is offering a

Research Position (m/f/d)
Reference code: IWA 74/20
Pay Grade E13 TV-L Berlin (100%)

as a fixed-term contract from March 1, 2021 until December 31, 2022.

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
- developing machine learning methods for the prediction of bite forces
- developing methods to integrate simulated and measured training data

Your profile

- a master degree or PhD in Mathematics, Physics, Computer Science, or a comparable discipline
- a 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
- the ability to work independently and goal-oriented

We also expect creativity and commitment to the project.

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

as well as

- comprehensive training in a competent and cooperative team
- an additional pension scheme (VBL)
- 30 days annual leave, flexible working hours (flexitime)
- a salary in accordance with TV-L (Collective Agreement for the Public Service of the Federal States), taking into account the relevant professional experience

- an end-of-year bonus
- discounted BVG (public transport) company ticket
- and the use of canteens and sports programs of the Freie Universität Berlin at reduced rates.

Female applicants are highly encouraged to apply. Since women are underrepresented in information technology, the ZIB is trying to increase the proportion of women in this research area.

Applicants with disabilities will be given preference if equally qualified.

Please send your application, quoting the reference code *IWA 74/20*, including cover letter containing a statement of your research interests, CV with a list of publications, academic transcripts and contact details of two references by *January 15, 2021* (date of receipt) to

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

or by email in pdf format 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/jobads.