

**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 (subject to funding decision by BMBF) from the first quarter of 2021 limited to 42 months

**a research position (m/f/d)
reference code: WA 66/20
pay grade E13/14 depending on qualification, TV-L Berlin (100%)**

Within a project funded by the EU JU-HPC and BMBF you will develop efficient discretization and solution methods for the simulation of cardiac electrophysiology with cellular resolution in cooperation with international research partners. Due to the enormous problem sizes, the focus is on the applicability on massively parallel high-performance computers. For development and simulation tasks, the high performance computer HLRN-IV operated by ZIB is used.

Your tasks

- Development of efficient time discretization methods for heterogeneous partial differential equation models,
- Development of scalable, heterogeneous multilevel and area decomposition preconditioners,
- Implementation of the developed procedures and integration into a joint HPC code.

Your profile

- a master degree or PhD in mathematics, computer science or a comparable discipline,
- strong interest in numerical simulation methods,
- knowledge of finite element methods and time stepping schemes,
- experience in parallel programming, preferably in C++,
- good communication skills in German and English, 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. Pursuing a project related PhD is possible and desirable.

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 information technology, 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 66/20**, 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. Thomas Steinke (steinke@zib.de).

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