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Become part of our international team!**



22.08.2019

**ZIB**

The Zuse Institute Berlin (ZIB) is a non-university research institute under public law of the state of Berlin. Together with its partners from academia and industry, ZIB contributes to the solution of highly complex problems in science, technology, environment and society by developing mathematical models and efficient algorithms.

The department of “Numerical Mathematics” is offering a PostDoc-position within the research group „Computational Molecular Design”:

**research position (PostDoc) (m/f/d)**  
**reference Code: WA 28/19**  
**pay grade E13 TV-L Berlin (100%)**

The position is offered at the earliest possible date until December 31st, 2020 (end of project).

#### **Job description:**

The project „The spatio-temporal modelling of mechanisms underlying pain relief via the  $\mu$ -opioid receptor“ is part of the excellence cluster MATH+. The area of responsibility includes:

- development and application of extremely efficient numerical methods for the simulation of large biomolecular systems,
- collaboration with experimentalists and clinical research groups on the receptor signaling mechanisms (in particular of the  $\mu$ -opioid receptor) regarding changes in its chemical environment,
- application of new mathematical methods for the efficient derivation of kinetic parameters from the simulation
- modeling of G-protein coupled receptors.

#### **Requirements:**

- Doctoral degree in mathematics or a natural science, such as structural biochemistry, molecular physics

#### **Do you ideally also possess the following qualification?**

- experience with modeling and simulation for molecular systems (e.g. with GROMACS)
- ability to interdisciplinary communication
- very good knowledge of English
- expertise in using supercomputers

**Then we should get to know each other.**

We also expect creativity and commitment to the project. For the successful candidate we offer good scientific support, current research topics and involvement in national and international cooperation projects. The candidature of women is encouraged; the ZIB is trying to increase the proportion of women in these research areas.

**We are offering** a modern workplace in an interesting environment with flat hierarchies and short decision-making paths, as well as a family-friendly workplace with flexible working hours and meeting times,

**as well as**

- a diversified, future-oriented and responsible work environment,
- a comprehensive training in a competent and cooperative team,
- professional development opportunities,
- 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.

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 28/19**, including CV in tabular form and all relevant documents, by **September 22<sup>nd</sup>, 2019** (date of receipt) to

**Zuse Institute Berlin (ZIB)**

- Administration -  
Takustr. 7  
14195 Berlin

or electronically as pdf-form to: [jobs@zib.de](mailto:jobs@zib.de).

Our private policy statement regarding application data can be found at [www.zib.de/impressum](http://www.zib.de/impressum).

Further information about the position can be obtained on our website [www.zib.de](http://www.zib.de) or from PD Dr. Marcus Weber ([weber@zib.de](mailto:weber@zib.de)).

For further job offers please visit our website at [www.zib.de](http://www.zib.de).