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

January 6th, 2022

The Zuse Institute Berlin (ZIB) is an interdisciplinary research institute of the State of Berlin. Together with partners from academia and industry, ZIB contributes to the solution of highly complex problems in science, technology, environment and society through the development of mathematical models and efficient algorithms, as well as the analysis and processing of complex data in conjunction with high-performance computing.

For research and development tasks within the framework of the research campus MODAL, we are offering the following position for the *Mathematics of Complex Systems division*, *Visual & Data-Centric Computing* department, *Computational Diagnosis & Therapy Planning* research group, with immediate effect and limited until March 31, 2025

Scientific Employee / Postdoc (f/m/d)
Computer Science
Reference Code: WA 01/22
Pay Grade: E13 or E14 TV-L Berlin, depending on qualification (100%).

The MODAL research campus is a public-private partnership project of ZIB and Free University (FU) Berlin with more than 30 industrial partners, which is funded by the Federal Ministry of Education and Research (BMBF) as part of the funding initiative "Research Campus - Public-Private Partnership for Innovation". In the MODAL *medlab* (http://forschungscampus-modal.de/ueber-uns/med-lab), algorithms and software solutions for data- and model-based diagnosis and therapy planning are developed at ZIB in cooperation with industry partners. The research tasks associated with the advertised position focus on the processing and analysis of medical image data.

Your Tasks

- independent research and development in the field of medical image analysis
- development of efficient algorithms for processing large amounts of data
- implementation of software prototypes together with MODAL partners
- application of the implemented procedures to data from our clinical partners
- publication of own research results at international conferences and/or in scientific journals

Your Profile

- above-average Master's degree or doctorate in computer science
- knowledge of and strong interest in medical image processing
- knowledge of and strong interest in machine learning techniques
- very good knowledge of object-oriented software design and development
- very good programming skills in C++ and/or Python
- good mathematical knowledge to work on topics of geometry processing and optimization in the context of fitting geometric models to measurement data

- excellent communications skills (writing, speaking) and working proficiency in English

We are looking for strong team players with the affinity for research and a focus on seeing how things work in practice. We expect methodical and conceptual strength and creativity as well as the willingness to travel on business, also outside Germany.

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

- a multifaceted, future-oriented and responsible field of activity,
- comprehensive training in a competent and cooperative team,
- the promotion of an autonomous way of working,
- opportunities and support in professional development,
- the opportunity to write a doctoral thesis,
- 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, as well as an end-of-year bonus,
- discounted BVG (public transport) ticket as part of the capital city allowance,
- and the use of canteens and sports programs of the Free University Berlin (FUB) at reduced rates.

Female applicants are highly encouraged to apply. Since women are underrepresented in the field of scientific computing, ZIB is trying to increase the proportion of women in this area.

Applicants with disabilities will be given preference if equally qualified.

Please send your full application, quoting the reference code **WA 01/22**, including a cover letter, a CV and the standard supporting documents in pdf-format by **February 3th, 2022** (date of receipt) to: jobs@zib.de.

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

For further information about this vacancy, please refer to our website www.zib.de or contact Dr. Stefan Zachow (zachow@zib.de).

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