15.06.2017

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 division Mathematics for Life and Materials Sciences, department Visual Data Analysis, is offering within the public sponsored research campus Modal MedLab project a

research position (f/m)
reference code IWA 22/17
pay grade E 13 TV-L Berlin

in the research group "Therapy Planning" of the department Visual Data Analysis. The position is offered at the earliest possible date and will be a fixed-term contract for 2 years, with the option to be extended.

Research Topics:

- research in medical image and geometry processing
- development of algorithms for image segmentation
- combination of machine learning approaches with shape and intensity models
- test and validation based on medical image data from various applications

Requirements:

- above average university degree in computer science or mathematics and natural sciences
- excellent knowledge in computer vision, image processing, geometric modeling, or machine learning
- profound knowledge in object oriented software development as well as programming skills in C++
- strong interest in application oriented research & development within the area of medical image processing
- interest in developing efficient algorithms also considering GPGPU programming
- ability to communicative cooperation, both within a project group as well as with industry partners
- ability to work independently and goal-oriented
- very good communication skills in English

We expect creativity and a high degree of commitment in the approach to problem solutions. We offer a friendly working atmosphere, excellent equipment and a challenging professional environment. We offer scientists in all career stages opportunities for further qualification and support and expect research on top level with international visibility. Additionally, Berlin offers a wide mathematical range, e.g. the excellence platform ECMath with the research center Matheon and the Berlin Mathematical School.

Candidates are encouraged to pursue a doctoral degree in conjunction with their work at ZIB. The work within the research campus Modal lies in strong relationship to partners from the industry.

We particularly welcome the application of women, since women are generally underrepresented in information technology, mathematics and physics and ZIB strives to increase their proportion in this research area.

Persons with disabilities will be given preference when equally qualified.

Please send your application, quoting the reference code **IWA 22/17**, including a CV and complete documents to:

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

or electronically to: jobs@zib.de. Closing date for applications is **22nd of June, 2017** as date of receipt.

For further information about the position please see our website www.zib.de or contact Dr. Stefan Zachow (zachow@zib.de).

Please find other job offers at www.zib.de.