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

ZIB
ZUSE INSTITUTE BERLIN

10.12.2020

The Zuse Institute Berlin (ZIB) is a non-university research institute under public law of the state of Berlin. Within the department “Visual and Data-Centric Computing”, we are offering at the earliest possible date for the period until Dec 31st 2022

a research position (m/f/d)
reference code: WA 71/20
pay grade E 13 TV-L Berlin (100%).

Job Description

For the BMBF funded project "MODAL MedLab" we are looking for a candidate for the development and implementation of a "Research and Analysis" platform and the necessary algorithms and for the analysis of related scientific data. This includes in particular the development of artificial intelligence methods for the interpretable analysis of static and time-dependent bio-medical mass data and their combination with methods of mathematical process modeling and simulation.

Pursuing a project related PhD is possible and desirable.

Your Tasks

- Participation in the project and intensive cooperation with project and industry partners,
- development of a research and analysis platform for the automated interpretation of bio-medical data from internal and external data sources (e.g. from wearables or implanted pacemakers),
- implementation of necessary algorithms from the field of sequential data processing or time series analysis and their application for the analysis of existing data including visualization and validation of the results,
- research in the field of interpretability and explainability of relevant Machine Learning algorithms.

Your Profile

- Above average Master's degree in Bioinformatics (or related subjects) with a focus on the analysis of medical data and the creation of workflows,
- very good programming skills in C/C++, Java, Python or R,
- very good knowledge of English,
- experience in theory and practice in one or more of the following areas:
    - Sequential data analysis (e.g. in NLP or time series analysis),
    - Medical data analysis and interpretation (e.g. of ECGs),
    - Machine Learning algorithms (e.g. Deep Learning, HMM, Pattern Recognition, Clustering, etc.),
    - Technical IT (e.g. web services, databases).

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

as well as

- an additional pension scheme (VBL),
- 30 days annual leave, flexible working hours (flextime),
- 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,
- the discounted use of canteens and the sports program of Freie Universität Berlin,
- discounted BVG ticket (company ticket).

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Due to our involvement in major regional cooperative projects, such as the DFG Cluster of Excellence MATH+, the Berlin Mathematical School (BMS) or the Berlin Institute for the Foundations of Learning and Data (BIFOLD), we have close ties to universities and research institutes in the region.

Although the position is released full-time, a part-time agreement is also possible.

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 71/20**, including CV in tabular form and all relevant documents and contact details of two references, by January 17th 2021 (date of receipt) to

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

or electronically as pdf-form to: jobs@zib.de.

Our privacy 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 PD Dr. Tim Conrad (conrad@zib.de).

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