28.07.2016

The Zuse Institute Berlin (ZIB) is a non-university research institute under public law of the state of Berlin. The division "Mathematics for Life and Materials Sciences" is offering a

Research position (f/m)
Reference code IWA 24 /16
Pay grade E 13 TV-L Berlin

in the research group "Bioinformatics in Medicine" 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 possibility of an extension.

Tasks

We are recruiting an exceptionally qualified researcher in the area of data management and analysis. Of particular interest is a specialization in machine-learning for big data, focusing on scalable, parallel/distributed and on-line algorithms using the Apache Flink framework. The topic of this position is "Analysis of very large biomedical data-sets" with a specialization in network analysis. The application will develop and implement algorithms to enable analysis of data from biomedical collaboration partners, especially from the omics-fields.

The position is embedded into the Berlin Big Data Center (BBDC) and the applicant is expected to collaborate closely with the cooperation partners from BBDC.

Preferred skills

- Knowledge on techniques in machine-learning, which permit to handle "Big/Complex Data", e.g. scalability, on-line algorithms running in the context of parallel and cloud architectures, graph-mining, large-scale programming (e.g. on Apache Flink).

- Experience regarding Big Data applications in science or industry

- Theoretical or practical knowledge regarding optimization algorithms

Requirements

- University degree in computer science, mathematics, bioinformatics or related disciplines
- Good software development skills (Java, C++ or a comparable language)
- Experience in some or all of the following areas is essential: network analysis, statistical learning, signal processing, machine learning, distributed computing using Apache Flink
- Applicants are expected to be highly motivated, self-reliant, and able to collaborate and work with top-level scientists in biology
- Good command of written and spoken English is essential

We expect creativity and a high degree of commitment in solving problems. 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.

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 **IWA 24/16**, including CV in tabular form and all relevant documents to

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

or electronically to: jobs@zib.de. Closing date for applications is **04 August, 2016**.

For further information about the position please contact Prof. Dr. Tim Conrad (conrad@zib.de).