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ZIB

October 15, 2020

The Zuse Institute Berlin (ZIB) is a non-university research institute under public law of the state of Berlin. Within the department "Modeling and Simulation of Complex Processes", we offer a

**Research Position (m/f/d)
(Postdoc) Reference Code: WA 63/20
Pay Grade: E13 TV-L Berlin (100%)**

for the excellence cluster MATH+ project "The Evolution of Ancient Egyptian - Quantitative and Non-Quantitative Mathematical Linguistics" from January 1st, 2021 until December 31st, 2022 (project end).

Background

Evidence of changes in historical processes in ancient cultures can be found in textual sources. It can be found not only in the content of these texts, but also in their linguistic change. Mathematics can reveal these changes. Research questions from linguistics and cultural history can be transformed into algebraic questions.

Job description

The MATH+ funded project "The Evolution of Ancient Egyptian - Quantitative and Non-Quantitative Mathematical Linguistics" includes the following topics:

- Supporting the clustering of ancient Egyptian texts
- Developing a mathematical theory for the (algebraic) formalization of comparative text analysis or of clustering of general texts
- Delimitation of the theory from existing approaches and concepts of computer-based linguistics

Requirement

A doctoral degree / PhD in Mathematics (or in a similar suitable research field)

Your profile

- Good knowledge of algebra (especially commutative algebra, or knowledge of Boolean rings)
- Programming skills (e.g. in Python, Matlab, or similar)
- Possible knowledge in the field of spectral clustering,
- Interests in close cooperation with researchers of the Berlin-Brandenburg Academy of Sciences and Humanities in the study of linguistic and philological questions related to ancient Egyptian texts
- Very good English language skills

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

As well as

- a varied, future-oriented and responsible field of activity
- comprehensive training in a competent and cooperative team
- 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

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

Female applicants are highly encouraged to apply. Since women are underrepresented in information technology, ZIB is trying to increase the proportion of women in this research area.

Applicants with disabilities are given preference, provided they are equally qualified.

Please send your application, quoting the reference code **WA 63/20**, including a cover letter containing a statement of your research interests, a CV with list of publications, academic transcripts, and contact details of two references, by **December 1st, 2020** (date of receipt) to

Zuse Institute Berlin (ZIB)

- Administration -

Takustr. 7

14195 Berlin

or by email in pdf format to: jobs@zib.de.

Our private 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. Marcus Weber (weber@zib.de).

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