

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



July 11<sup>th</sup> 2024

The Zuse Institute Berlin (ZIB) is a non-university research institute under public law of the state of Berlin. Within the research group “Mathematical Optimization Methods”, we are offering at the earliest possible date until March 31<sup>st</sup> 2025

**a research position (m/f/d)  
reference code: IWA 28/24  
pay grade E13 TV-L Berlin (100%)**

### **Job description**

The goal of the BMBF-funded research laboratory MODAL SynLab (see <http://www.zib.de/projects/modal-synlab>) is the development and implementation of mathematical optimization algorithms for general problem classes, predominantly mixed-integer linear and nonlinear programs, and complex combinatorial structures that are motivated by real-world applications. To this end, we collaborate with partners from academia and industry, with the other MODAL labs, and with developers of state-of-the-art mixed-integer programming software. In conjunction with our own development of the SCIP Optimization Suite our group holds a high level of expertise in computational mathematical research and you can benefit from our modern software development environment and our team-oriented approach to research.

Within this framework, we are seeking to hire research assistants that are motivated to work towards a PhD degree at one of the Berlin universities. You will collaborate with your supervisors on solving open scientific and algorithmic questions at the frontier of computational optimization.

### **Your profile**

- Excellent Master’s degree (or equivalent) in mathematics, computer science, or related disciplines
- Strong mathematical skills
- Background in one of the following areas is desired: nonlinear optimization, mixed-integer programming, global optimization, linear programming
- Good programming skills in one major programming language
- Good command of written and spoken English
- Creativity and a high degree of commitment to problem solving

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

**as well as**

- comprehensive training in a competent and cooperative team,
- an additional pension scheme (VBL),
- 30 days annual leave, additionally free from work on December 24th and 31st,
- compatibility of work and family through flexible working hours, e.g. (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,
- an allowance of up to €150 per month, alternatively a discounted BVG (public transport) ticket + difference amount,
- an end-of-year bonus
- and the use of canteens and sports programs of the Freie Universität Berlin (FUB) at reduced rates.

Due to our involvement in major regional cooperative projects, such as the Einstein Center for Mathematics (ECMath), the DFG Cluster of Excellence MATH+, the Berlin Mathematical School (BMS) or the Berlin Big Data Center (BBDC), we have close ties to universities and research institutes in the region.

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

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

Applicants with disabilities will be given preference if equally qualified.

Please send your application, quoting the reference code **IWA 28/24**, including a cover letter containing a statement of your research interests, your CV and the standard supporting documents as **one PDF file** by **July 17<sup>th</sup> 2024** (date of receipt) to:

[jobs@zib.de](mailto:jobs@zib.de).

Our private policy statement regarding application data is available at [www.zib.de/impressum](http://www.zib.de/impressum).

For further information on the area of responsibility, please contact Dr. Ksenia Bestuzheva ([Bestuzheva@zib.de](mailto:Bestuzheva@zib.de)).

For further job offers please visit our website at <https://www.zib.de/jobadvertisement>.