

July 4th, 2025

The Zuse Institute Berlin (ZIB) is a non-university research institute under public law of the state of Berlin. Within the research group Interactive Optimization and Learning (IOL) we are offering at the earliest possible date a position for a

Researcher (f/m/d)

on a full-time basis (39,4 hours per week), limited until March 31, 2029. If the applicant meets the relevant wage requirements and personal qualifications, the salary will be based on remuneration group 13 TV-L of the pay scale for the German public sector.

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 nonlinear programming software. In conjunction with our own development of the SCIP Optimization Suite, FrankWolfe.jl and Boscia.jl, 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 offer a friendly work environment with flexible work and meeting times, excellent equipment and a challenging professional environment

as well as

- an active onboarding process to provide new employees with the skills and knowledge that are important to their success in our institute and their careers,
- a varied, future-oriented and responsible field of activity,
- professional training opportunities and support in professional development,
- an additional pension scheme (VBL),
- 30 days annual leave, flexible working hours (flexitime),
- a salary based on TV-L (collective agreement for the public service of the federal states) in accordance with qualifications and professional experience with annual bonus payment,
- capital allowance of up to €150 per month, or alternatively a BVG job ticket plus the remaining balance,
- the use of canteens and sports programs of the Freie Universität Berlin (FUB) at reduced rates.

Applicants with disabilities will be given preference if equally qualified. Female applicants are highly encouraged to apply, since women are under-represented in natural sciences and ZIB seeks to increase the proportion of women in this field.

Please send your complete application including curriculum vitae in tabular form and all relevant documents and contact details of two references by **July 10, 2025** (date of receipt), quoting the **Reference Number IWA 10/25** as **one PDF file** to: jobs@zib.de.

For further information about the position, please refer to our website www.zib.de or contact Deborah Hendrych (hendrych@zib.de).

Our private policy statement regarding application data is available at www.zib.de/impressum.

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