

August 29th, 2025

The Zuse Institute Berlin (ZIB) is a non-university research institute under public law of the state of Berlin, dedicated to interdisciplinary research in applied mathematics and data-driven science. Within the research group Interactive Optimization and Learning (IOL), we are offering a position, starting on October 15th, 2025, for a

Researcher (f/m/d)

on a full-time basis (39,4 hours per week), limited until September 30th, 2027. 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.

Your tasks

We are seeking a dedicated researcher to join our team, focusing on algorithmic machine learning. The role involves the development, implementation, and analysis of efficient machine learning methods, as well as continuous optimization. You will be responsible for testing and adapting these methods to cluster systems, ensuring they meet our high standards. This position requires goal-oriented, scientific work, making it ideal for someone passionate about advancing the field of machine learning.

Your profile

- Outstanding University degree (Master's/Diploma) in computer science, visual computing, mathematics or comparable subjects
- Expertise in the field of efficient and robust machine learning, including sparsity, pruning, quantization, fairness, and optimization methods, demonstrated through research and publications at conferences (e.g., ICML, ICLR, etc)
- Programming experience in Python and deep learning libraries such as PyTorch, TensorRT, JAX, HuggingFace, and related optimization toolchains
- Interest in exploring new research questions and driving their solutions toward practical implementation
- Interest in interdisciplinary collaboration, including applications in efficiency, security, and interpretability of machine learning systems
- Very good English language skills

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 a curriculum vitae in tabular form with a description of previous research/thesis, list of scientific publications and references by **September 4th, 2025** (date of receipt), quoting the **Reference Number IWA 20/25** as **one PDF file** to: jobs@zib.de.

For further information about the position, please refer to our website www.zib.de or contact Max Zimmer (zimmer@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.