

July 24, 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 BMBF-funded research group MODAL SynLab, we are offering a position, starting on September 1st, 2025, 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.

Your tasks

We are seeking a dedicated researcher to join our team and focus on the intersection of artificial intelligence and mathematics, specifically in the areas of algorithms with predictions and the application of machine learning to algebra.

The role involves the development, implementation, and analysis of machine learning methods and transformers within algorithms. You will be responsible for the development, practical testing and adaptation of these methods to cluster systems and for advancing the theoretical foundations of the field. A key part of this position is ensuring our methodologies meet high standards of scientific rigor.

This goal-oriented, scientific role is ideal for an individual who is passionate about advancing the field of machine learning.

Your profile

- Outstanding University degree (Master's/Diploma) in computer science, mathematics or comparable subjects
- Expertise in the intersection of algebra and machine learning, preferably demonstrated by first author publications in the area at top-tier conferences (ICLR, NeurIPS, ICML)
- Programming experience preferably in Python and relevant deep learning libraries such as TensorFlow, Keras, and PyTorch
- Interest in exploring new research questions and driving their solutions toward practical implementation
- Interest in interdisciplinary collaboration
- 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 all relevant documents and contact details of two references by **July 31, 2025** (date of receipt), quoting the **Reference Number IWA 15/25** 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.