

Technische Informationsbibliothek (TIB) - Leibniz Information Centre for Science and Technology



TIB, being part of the Leibniz Research Association, is with around 600 employees one of the largest technical information centres in Germany, having three main functions: 1. Acting in the capacity of the Leibniz Information Centre for Science and Technology, our forward-looking services secure the infrastructural requirements for providing researchers in science and industry with high-quality information and literature. 2. Carrying out cutting edge research to further expand TIB's role as a German information centre for the digitisation of science and technology. 3. Offer library services for the Leibniz University Hannover. As the German National Library of Science and Technology, our future-oriented services ensure the infrastructural requirements for a high-quality supply of information and literature for research in science and industry. With the Open Research Knowledge Graph (ORKG), we are working to revolutionise the exchange and use of scientific knowledge in the digital age.

Postdoctoral Researcher - AI for Scientific Communication and Knowledge Graphs (m/f/d)

City: Hanover; Starting date (earliest): At the earliest possible; Duration: fixed-term for two years; Remuneration: pay scale group 13 TV-L; Reference number: 15/2026; Closing date: 12/06/26

Tasks

Your role

The Data Science & Digital Libraries Research Group conducts research at the intersection of knowledge representation, knowledge graphs, neurosymbolic AI and large language models. Our work focuses in particular on the scholarly and scientific domain, where we develop AI-based methods and tools for representing, analysing and using complex scientific information.

A key objective of our research is to improve the reasoning capabilities, robustness and interpretability of AI systems by combining symbolic and neural AI approaches. In this context, we investigate how knowledge graphs and large language models can be integrated to support reliable AI applications for scholarly research and scientific communication.

The position is partly funded through the EU-funded project FFplus - Fortissimo Plus and is embedded in TIB's broader research activities on AI for scientific communication, knowledge graphs and large language models. In this context, the position contributes to the development, specialization and validation of HPC-supported AI/language models.

Your responsibilities will include

- Designing, developing and evaluating neurosymbolic AI methods and

architectures

- Developing and integrating large language models (LLMs) into workflows for scholarly research and scientific communication
- Working with knowledge graphs and knowledge representation methods in the context of the Open Research Knowledge Graph (ORKG)
- Developing data-driven and AI-based models to support the analysis, representation and use of scientific information
- Conducting experimental evaluations and documenting research results
- Publishing research results in international scientific journals and presenting them at conferences
- Contributing to research collaborations and, where appropriate, to third-party funding applications

Requirements

Your profile

- Completed academic university degree (Master's degree or equivalent) in computer science, artificial intelligence, data science, computational linguistics or a related field
- Completed doctoral degree / PhD in one of the above or a closely related field
- Research experience in neurosymbolic AI, large language models, knowledge graphs or related areas
- Strong programming skills, particularly in Python
- Experience with experimental evaluation and scientific methodology
- Very good written and spoken English skills

Desirable additions to your profile

- Experience with agent-based systems, distributed architectures or AI systems for scientific workflows
- Familiarity with AI-based tools in the scientific domain, reproducible research and scientific software development
- Experience in scholarly communication, scientific information infrastructures or related domains
- Experience in interdisciplinary research collaboration
- German language skills are a plus, but not necessary

What we offer

The Technische Informationsbibliothek (TIB) – Leibniz Information Centre for Science and Technology – Program Area D, Open Research Knowledge Graph, is seeking a

Postdoctoral Researcher - AI for Scientific Communication and Knowledge Graphs (m/f/d)

to join the Data Science and Digital Libraries Research Group (Prof. Dr. Sören Auer) at the earliest possible date.

The position is initially limited to 2 years in accordance with the German Academic Fixed-Term Contract Act (WissZeitVG) and is intended to support the successful candidate's

further scientific qualification. An extension is possible. The regular weekly working hours are 39.8 hours (full-time). The position is generally suitable for part-time work. The remuneration is based on pay scale group 13 of the collective agreement for the public service of the German states (TV-L).

What we offer

Our mission is to keep rethinking and innovating the provision and use of research data and information. In TIB's Research and Development Department you have the opportunity to advance your career in a sizable, dynamic and excellent environment. We provide a scientifically and intellectually inspiring environment with an entrepreneurial mindset, embedded in a leading technical university and one of the largest technical information centers being part of the Leibniz Association. TIB collaborates closely with the L3S Research Center at Leibniz University Hannover, one of the world's leading research institutes in the field of Web & Data Science, within the Leibniz Joint Lab Data Science & Open Knowledge. Last but not least, we attach great importance to an open, creative and fun work atmosphere.

Furthermore, we offer

- A job in the public service oriented towards the common good on the basis of the collective agreement for the public service of the German states (TV-L) with a salary in pay scale group 13 TV-L
- A flexible workplace in terms of time and space with offers to reconcile work and family life, such as mobile and remote work options as well as flexible working time models (flexitime)
- A special annual payment at the end of the year and 30 days of vacation per year with a five-day working week as well as additional days off on Christmas Eve (December 24th) and New Year's Eve (December 31st)
- A modern workplace in a central location of Hannover with a collegial, attractive and versatile working environment
- An employer with a wide range of internal and external further education and training measures, workplace health promotion and a supplementary pension scheme for the public sector (VBL)
- Employee discount in the canteens of the Studentenwerk Hannover as well as the possibility to use the various offers of the University Sports Hannover at a discount
- Independent and future-oriented activities that offer variety and room for personal development
- Funding for necessary equipment, conference and research visit travel
- Work in the context of a national, European or international research and innovation project
- A portfolio of technology components to build on, including ORKG, OpenResearch.org, TIB AV-Portal, DBpedia.org and other

If you are interested, questions regarding the position can be addressed to Dr. Gollam Rabby from the Data Science & Digital Libraries Research Group by mail at Gollam.Rabby@tib.eu.

Application

We look forward to receiving your application. To submit your application, please use the application form on our website <https://tib.eu/bewerbungsformular-15-2026eng>.

Paper applications are also possible on an equal basis. In this case, please send your complete application documents with the subject 15/2026 before June 12, 2026 addressed to

Technische Informationsbibliothek (TIB)
Personalservice
Herrn Daniel Eilers
Welfengarten 1 B
30167 Hannover
Germany

or alternatively as a single PDF document file to bewerbung@tib.eu. For applications in digital form, please send a PDF file with a maximum size of 10 MB.

We invite you to include an indication of your annual salary expectations with your application.

In the case of foreign university degrees, it is mandatory to submit a Statement of Comparability from the Central Office for Foreign Education (ZAB) for the final assessment of the hiring requirements during the hiring process (link for more information). A fee will be charged for this. This obligation does not apply if the foreign university degree has already been assessed by an expert and is listed in the ANABIN database of the ZAB as an equivalent university degree (link to ANABIN database).

TIB is an equal opportunity employer, providing ideal working conditions, and continuously taking action to enable its employees to combine career interests with family life. It wants to promote equal career opportunities for women and men in particular and therefore urges qualified women to apply.

Severely disabled candidates and those with equivalent status will be given preferential consideration in the event of equal suitability. If you wish your rights as a person with a severe disability or as a person deemed equivalent to a person with a severe disability to be taken into account during the selection process, please inform us of this voluntarily at an appropriate place in your application (e.g. in the cover letter or CV, or at another clearly highlighted point) and enclose appropriate proof (e.g. a copy of the disability certificate).

Equal opportunity is one of our core organizational values. We therefore welcome applications regardless of nationality, ethnic and social origin, gender identity, gender expression and/or gender characteristics, religion and worldview, age, sexual orientation, and identity.

Please indicate in the subject of your application which job exchange brought our offer to your attention.

Please note that your application documents will not be returned, and application and travel costs cannot be reimbursed.

More information at <https://stellenticket.de/204156/TUB/>
Offer visible until 12/06/26

