

24.03.2021

## Job advertisement No. 21/2021

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. Our services as a university library secure the local supply for the Leibniz University Hannover.

The [Technische Informationsbibliothek \(TIB\)](#) – Leibniz Information Centre for Science and Technology – Program Area C, Research and Development, is looking to employ a

### Marie Skłodowska-Curie Early Stage Researcher (Ph.D. Research Position) (m/f/d)

to join the [Visual Analytics Research Group](#) (Prof. Dr. Ralph Ewerth) at the earliest possible opportunity (latest start: July 1<sup>st</sup>, 2021) and subject to the final approval of the third-party funding. The PhD candidate will be co-supervised by Prof. Dr. Jens Lehmann from the University of Bonn, Germany.

The position is initially limited to 1,5 years with envisioned extension. The regular weekly working time is 39.8 hours (full-time). The remuneration is based on [pay scale group 13 TV-L](#).

#### Your tasks

The doctoral candidate is working on a PhD within the framework of the Innovative Training Network (ITN) CLEOPATRA: "Cross-lingual Event-centric Open Analytics Research Academy" (<http://cleopatra-project.eu/>) funded by the European Union (EU). A description of the PhD topic can be found below.

The CLEOPATRA ITN offers a unique interdisciplinary and cross-sectoral research and training programme, which will explore how we can analyse and understand major events that influence and shape our lives and our societies. It will facilitate advanced cross-lingual processing of textual and visual information related to key contemporary events at scale, and will develop innovative methods for efficient and intuitive user access to and interaction with multilingual information.

Dependent on the individual research project, successful candidates will have a strong background in Computer Science or Digital Humanities (an outstanding MSc degree in the corresponding discipline). Good proficiency in English is expected; knowledge of further European languages is of advantage. International experience during your studies or afterwards as well as good social and communication skills are helpful.

#### As a successful candidate, you will

- Conduct research on your PhD topic at TIB in the context of the CLEOPATRA project.
- Provide important input to the development of integrated cross-lingual data analytics platforms.
- Actively participate in the training programme offered by the CLEOPATRA ITN.
- Engage with researchers at CLEOPATRA partner organisations across the EU.
- Conduct research visits and secondments according to the individual career development plan.

#### PhD topic: Multimodal fact validation across multilingual corpora

Unimodal systems that process natural language predominate in research on fact validation – but events are rarely described by text alone and often include visual information as well. The co-existence of multiple modalities creates an opportunity to implement machine learning systems that retrieve, combine and model diverse inputs. Fact validation systems that process multiple modalities are able to assess additional evidence, learn rich representations and conduct supplementary analyses on source data.

### Your qualities

- A successfully completed, subject related university degree (Master or comparable), e. g. in Computer Science or related fields of study
- Very good technical knowledge in computer science
- Good command of written and spoken English; knowledge of other European languages is an advantage
- Good social and especially communication skills

### Desired additions to your profile

- Interest in digital humanities topics or interdisciplinary work is helpful
- International experience during your studies or afterwards is an advantage
- Familiarity with one or more of the following areas: (multimodal) data analysis, natural language processing, computer vision, machine learning, semantic technologies or human-machine interaction

### Mobility Requirements

To be eligible the applicant must satisfy the [mobility requirements](#) of Marie Skłodowska-Curie actions, as explained in full detail on pages 6 to 20. According to these guidelines, at the time of recruitment, the potential candidate “must not have resided or carried out their main activity (work, studies, etc.) in the country of the recruiting beneficiary for more than 12 months in the 3 years immediately before the recruitment date. Compulsory national service, short stays such as holidays and time spent as part of a procedure for obtaining refugee status under the Geneva Convention (1951) are not taken into account.” Furthermore, according to the Marie Skłodowska-Curie rules, Early-Stage Researchers shall, at the time of recruitment by the host organisation, “be in the first four years (full-time equivalent research experience) of their research careers and have not been awarded a doctoral degree”. (<http://cleopatra-project.eu/>)

**Applications that do not meet the eligibility criteria will not be considered.**

### What we offer

In [TIB's Research and Development Department](#), you have the opportunity to further your scientific development in a dynamic and excellent research 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 centres being part of the [Leibniz Association](#).

The research department at the TIB is relatively young and offers many opportunities. It is our vision to rethink the representation and provision of data and information and to organize them in an Open Research Knowledge Graph ([ORKG](#)) in the future. There is a close cooperation with the [L3S Research Centre](#) 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 and creative working atmosphere in which it is fun to work.

### Furthermore, we offer

- Financing for necessary equipment, conference and research visit travel
- Work in the context of a national research and innovation project
- A portfolio of technology components to build on, including [ORKG](#), [OpenResearch.org](#), [TIB AV-Portal](#), [DBpedia.org](#) and other
- A modern workplace in a central location of Hanover with a collegial, attractive and versatile working environment
- Flexible working hours (flexitime) as well as [offers for reconciling work and family life](#) such as mobile work

and remote work options

- 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](#))
- Discount for employees in the canteens of the [Studentenwerk Hannover](#) as well as the possibility to use the various offers of the [University Sports Hannover](#)
- A job in the public service with a salary in [pay scale group 13 TV-L](#) according to the provisions of the collective agreement for the public service in Germany (TV-L), including a special annual payment

If you are interested, questions regarding the position can be addressed to Prof. Dr. Ralph Ewerth, head of the Visual Analytics Research Group, by mail at [ralph.ewerth@tib.eu](mailto:ralph.ewerth@tib.eu).

### How to apply

We look forward to receiving your application. To submit your application, please click [here](#).

Paper applications are also possible on an equal basis. In this case, please send your complete application documents with the subject **21/2021** before **April 20, 2021** 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](mailto:bewerbung@tib.eu). For applications in digital form, please send a PDF file with a maximum size of 10 MB.

### Who we are

TIB, being part of the Leibniz Research Association, is with around 550 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.

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.

Severely disabled candidates with comparable qualifications will be given preferential treatment. We welcome applications from all nationalities.

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

Please indicate in the subject line of your application through which job board you became aware of our offer.

For more information about the TIB, please visit: [www.tib.eu/en/](http://www.tib.eu/en/)