

08.11.2017

Job advertisement No. 51/2017

Acting in the capacity of the German National Library of Science and Technology, our forward-looking services secure the infrastructural requirements for providing researchers in science and industry with high-quality information and literature. The services we offer in our capacity as a University Library ensure that Leibniz Universität Hannover is provided with items locally.

The Technische Informationsbibliothek (TIB) – German National Library of Science and Technology – Program Area C, Research and Development, is offering a position – subject to final approval by the third-party funding agency – in a research project in the context of the Open Course Ware platform SlideWiki (<https://slidewiki.org>) for a

Research Associate (E 13 TV-L)

The Research Associate will be a member of the Visual Analytics Research Group (Prof. Dr. Ewerth) in the **TIB Research and Development Department**. A PhD thesis can be supported. Initial appointment will be for 3 years, starting as soon as possible. The working time is 75 % of the regular weekly working time (part-time, 29,85 weekly hours).

The candidate's competence area should be squarely rooted in computer science or a related field, they should be able to think creatively, grasp new knowledge quickly, be able to combine abstract reasoning with concrete problem solving skills and be interested in mastering complex challenges.

Tasks:

Your task is to further develop the SlideWiki platform in terms of accessibility for users with visual impairments. The focus is on the following sub-tasks:

- Researching and implementing methods for information extraction from multimodal slides:
 - Development of image captioning algorithms
 - Development of methods for the automatic evaluation the usefulness of generated image captions for the visually impaired
 - Development of further algorithms for information extraction from visual data
- Test and documentation of the developed software components
- Provision of the project results as Open Source
- Participation in the development of a didactic concept
- Contact person for project partners in technical matters

Requirements:

- A Master degree in a relevant field (Computer Science, Mathematics, Information Science)
- Good to very good knowledge in at least one of the following areas: computer vision (image captioning, document analysis, machine learning/deep learning) and/or: multimedia retrieval or visual analytics
- Excellent proficiency in modern programming languages and modern software engineering methodologies, proven team software development skills
- Above-average commitment, solution-oriented approach, initiative and team spirit

- Independent and structured way of working
- Excellent communication skills
- Proficiency in spoken and written English and German
- Knowledge in the field of didactics or willingness to acquire the corresponding skills and knowledge
- Willingness to travel on business

What we offer: We provide an 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 [Leibniz Research Association](#). Our aim is to provide the environment and resources to make the Research Associate successful in their field. There is funding available for equipment, conference and research visit travel.

How to apply: Please send your complete application with the **subject 51/2017** before **6 December 2017** to

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

or send your complete application by email to bewerbung@tib.eu.

Please do not send emails larger than 10 MB. Questions regarding the positions can be addressed to Prof. Dr. Ralph Ewerth (ralph.ewerth@tib.eu).

For more information about the TIB, please visit: www.tib.eu/en/

TIB provides ideal working conditions, and continuously takes action to enable its employees to combine career interests with family life.

Severely disabled candidates with comparable qualifications will be given preferential treatment.

We look forward to receiving your application.

Please note that your application documents will not be returned.

Application and travel costs cannot be reimbursed.