



The Institute of Information Processing (tnt) invites applications for the position of a

## **Research Assistant (m/f/d) in the field "Scalable and sustainable DNA-based data storage" (Salary Scale 13 TV-L, 100 %)**

starting as soon as possible. The position is initially limited to a duration of 3 years. Within the scope of the position, there is the possibility of pursuing a doctorate.

Our digital age is defined by technologies that expand and accelerate the exchange of knowledge in the global economy and society. In fields as diverse as artificial intelligence, astronomy, healthcare, and climate science, vast data sets are being generated to be stored for future analysis—think "data mining". Traditional data storage technologies lack the longevity, data density, and cost-effectiveness to meet global demand for long-term yet economical storage. DNA-based data storage offers the opportunity to meet this demand. A European consortium, of which the tnt is a member, is hence paving the way towards a system for scalable and sustainable storage of data in DNA. The main responsibility of tnt is the data processing at the interface between the digital and DNA domains, and in particular the development of forward error correction methods.

Our research group focuses on bioinformatics, machine learning, information theory, and data compression. We are seeking a highly motivated individual to join our team. In addition to conducting innovative research, you will also engage in scientific exchange and active collaboration with related research groups, including presenting research results at workshops, conferences, and in journals. If you are a dedicated and creative individual seeking to make a positive impact through your research, we encourage you to apply for our position. We will enable you to develop yourself professionally and personally through responsibility for scientific and industrial projects.

### **Your profile**

- Completed academic degree (Master's) in computer science, bioinformatics, statistics, physics, or related disciplines
- Sound understanding of and hands-on experience in one or more of the areas: bioinformatics, machine learning, information theory, data compression
- Advanced programming skills, preferably in Python
- Solid scientific writing skills (e.g., shown by a very good master thesis) are expected
- Very good communication skills in English, both oral and written, including the ability to write scientific texts (German a plus)
- Motivation to work independently and in an international team

### **We offer**

- Varying, creative and innovative work in a young team
- An inspiring environment with interdisciplinary, internationally visible research groups that have already achieved extensive scientific successes
- Collaboration with top international researchers
- Participation in scientific workshops and conferences
- Possibility to pursue a doctorate
- Remuneration at the level of 100% of salary scale 13 according to the collective agreement for the public service of the federal states (TV-L)



**Leibniz  
Universität  
Hannover**

Leibniz University Hannover considers itself a family-friendly university and therefore promotes a balance between work and family responsibilities. Part-time employment can be arranged upon request.

The university aims to promote equality between women and men. For this purpose, the university strives to reduce under-representation in areas where a certain gender is under-represented. Women are under-represented in the salary scale of the advertised position. Therefore, qualified women are encouraged to apply. Moreover, we welcome applications from qualified men. Preference will be given to equally qualified applicants with disabilities.

Please submit your application with supporting documents (CV, transcripts, short motivation letter (max. 1 page) in which you explain what drives you to do research and what goals you are pursuing with your application) until June 16, 2023 in a single PDF file to

Email: [bewerbung@tnt.uni-hannover.de](mailto:bewerbung@tnt.uni-hannover.de)

or alternatively by mail to:

**Gottfried Wilhelm Leibniz Universität Hannover**

Institut für Informationsverarbeitung

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Information on the collection of personal data according to article 13 GDPR can be found at <https://www.uni-hannover.de/en/datenschutzhinweis-bewerbungen/>.