UNIVERSITÄT GREIFSWALD
Wissen lockt. Seit 1456

Job vacancy

Research Assistant - Institute of Mathematics and Computer Science 26/Sa19

University of Greifswald, 31 May 2026 | deadline: 30 June 2026

At the **Institute of Mathematics and Computer Science**, which belongs to the University of Greifswald's Faculty of Mathematics and Natural Sciences, there is a job vacancy, subject to the allocation of funds, expected to be available for **next possible appointment**, for a part-time position (75 %) as

Research Assistant.

The position on offer is limited to a period of **3 years**. Payment will be made in accordance with pay group 13 *TV-L Wissenschaft*.

Deep learning is currently revolutionising genome annotation. For example, our new deep-learning-based gene finder Tiberius achieves an accuracy comparable to our BRAKER3 annotation pipeline, even without the use of RNA-seq data. Building on these results and codebases, the successful candidate will work on a bioinformatics and machine learning research project on the inference of alternative splice forms using deep learning methods and PacBio long-read transcriptomic data, as well as the evolution of isoforms across insects. The work will be carried out in collaboration with Prof. Gregor Bucher (University of Göttingen) within the project "Alternative Splicing and the Evolution of Holometaboly", which is part of the DFG Priority Programme "Genomic Basis of Evolutionary Innovations (GEvol)".

Tasks:

- Design, training and benchmarking of deep learning sequence-to-sequence architectures
- Implementation of new machine-learning layers and model components
- Application of tools for genome analysis and molecular evolution
- The position offers the opportunity to pursue a doctorate on a topic in the above-mentioned research area

Required:

- Master's degree in bioinformatics, biomathematics, computer science, biology, or a related field
- Solid programming skills in Python
- Command of the mathematical foundations of machine learning (linear algebra, calculus)
- English at level B2 or higher (the working language is English)

Desired:

- Experience with Unix shell, Git, PyTorch, TensorFlow, SLURM
- Experience in handling genomic or transcriptomic data
- Knowledge of sequence-to-sequence models (hidden Markov models, attention mechanisms, recurrent neural networks)
- Motivation to work in an interdisciplinary team with biologists and computer scientists

This vacancy is open to all persons, irrespective of gender. Severely disabled applicants with the same qualifications will be considered with preference.

In accordance with § 68(3) PersVG M-V, the Staff Council will only be involved in staff matters of the academic or artistic staff on request.

Unfortunately, application costs (e.g. travel expenses for interviews) will not be reimbursed by the state of Mecklenburg-Vorpommern.

Please note that by submitting your application, you provide your consent pursuant to data protection law for our processing of your application data. Further information about the legal bases and the use of your data can be found here.

Applications comprising all usual documents (including curriculum vitae, letter of motivation, copies of academic certificates, if applicable list of publications) must be sent with reference to the job advertisement number **26/Sa19** by **30 June 2026**, preferably via email (one PDF file), to:

Universität Greifswald
Institut für Mathematik und Informatik
Prof. Dr. Mario Stanke
Walther-Rathenau-Str. 47
17489 Greifswald

mario.stanke@uni-greifswald.de

FAMILIE IN DER HOCHSCHULE

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HR EXCELLENCE IN RESEARCH