



We are looking to support our rapidly growing team as soon as possible:

## -PhD student (f/m/x) in image analysis in cancer research

Biomedizinische Informatik - AG Bozek



TV-L: 29 h/week (75,32%)



limited for 3,5 years  
according to WissZeitVG  
(Third-party funded project)



Your salary will be based on  
TV-L

### Your tasks

- development of computational methods and processing pipelines for large image datasets
- application of existing and development of new analytical and ML solutions
- data visualization and communication
- work in close collaboration with our medical collaboration partners
- managing the project in terms of data organization and analysis

### Your profile

- MSc degree in computer science, physics, bioinformatics, or a related field
- excellence in programming (python)
- proven experience with deep learning
- experience with computation on cluster architectures is a plus
- great communication skills, capacity of working in a team and in an interdisciplinary environment

### Our offer

- opportunity to apply and develop cutting-edge machine

### Your future with us

We are one of the leading university hospitals in Germany and network research, teaching and health care at the highest level. That's why many things are a lot bigger for us: the spectrum of exciting development opportunities. The limitless openness with which specialists from all over the world work together here. Or our commitment as an employer to support all employees as best we can in reconciling their job with their goals and life situations.

This is the University Hospital of Cologne: Everything but ordinary.

### Your future in detail

Located at the biomedical campus of the University of Cologne the "Data Science of Bioimages lab" is working on data-intensive problems in biomedicine by combining machine learning, statistical and other computational methods. Image data and deep learning solutions represent key focus of our research.

Embedded in the thriving biomedical research hub of Cologne, we are involved in scientific collaborations with partners across medical disciplines and address questions ranging from histopathology of cancer to behavioral changes in neurodegenerative diseases. As a part of

learning and computational technologies to resolve timely medical and scientific problems

- collaborative, and international multi-disciplinary working environment where colloquial and working language is English
- development and networking through participation in workshop and conferences both ML and biology or medicine Please visit <https://www.bozeklab.com/> to learn more about the group's interests and ongoing research.

the Collaborative Research Center 1310 "Predictability of Evolution" we are involved in a large study of cancer evolution of resistance to chemotherapeutic treatment. In a close collaboration with the Pathology Institute of the hospital, we will analyze a large set of patient samples in the search of molecular and morphological factors that drive cancer resistance to neoadjuvant therapy. We are looking for a PhD candidate to perform the data analysis on this project.

Applications from female candidates are expressly welcome and will be given priority in the event of equal suitability, competence and professional performance. People with disabilities are welcome to apply and will be treated preferentially in the event of equal suitability and qualification.

## Contact

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[Uniklinik Köln Karriere](#)

Application deadline: 12.04.2026

Job-ID: hoounhr2

[apply now](#)

We look forward to receiving your application and getting to know you!