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

- Postdoctoral Fellow in Cancer Genomics (f/m/x)

CIO - Centrum für Integrierte Onkologie - Institute for Computational Cancer Biology (ICCB)

TV-L: 38,5 h/week (100%)

limited until August 31 2027, according to WissZeitVG within the framework of a third-party funded project

Your salary will be based on TV-L

Your tasks

As a successful candidate you will lead national and international projects on AI and machine learning in cancer research. You will develop algorithms and models to investigate cancer evolution and chromosomal instability. A focus lies on the development of AI methods for improved phylogenetic reconstructions and feature space embeddings from complex genomics data. You will be embedded in a thriving interdisciplinary and collaborative team of bioinformaticians and clinicians at the University Hospital of Cologne.

Your profile

Ideal candidates will have a PhD and Masters degree in Physics, Mathematics, Computer Science, Bioinformatics or a related field. A strong background in theoretical and/or applied machine learning and AI, and a strong interest in medical research is expected. Prior experience in cancer genomics is a plus. Successful candidates will show a strong work ethic and should be enthusiastic about working in a highly interdisciplinary environment. Excellent communication skills and the ability to work in a team are required.

For further reading and our recent works see:

Kaufmann et al. 2022, Genome Biology

Watkins et al. 2020, Nature

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

Our computational group is interested in understanding the role of chromosomal instability, somatic copy number alterations (SCNA) and chromatin structure in cancer evolution. We develop and apply algorithms for inferring and simulating cancer evolution and for haplotype reconstruction and phasing in close collaboration with our clinical and experimental partners. We are part of several national and international consortia, such as the ICGC-ARGO, TRACERx, and SATURN3 consortia. Our group is also part of the Berlin Institute for the Foundations of Learning and Data (BIFOLD) at the TU Berlin, with potential for exchanges and group visits.

Watkins et al. 2022, PLOS Computational Biology

Streck et al. 2023, Bioinformatics

Our offer

- **Everything but ordinary:** You can expect a secure job in a challenging, innovative environment – including company pension schemes and regular working hours without business trips.
- **Work-life balance:** Whether full-time or part-time, with or without children – with numerous support options, we will find the right path together.
- **Team spirit in R(h)ine culture:** You will be warmly welcomed by an interdisciplinary team that values mutual respect and helpfulness.
- **Strong perspectives:** We offer extensive training opportunities – so you can continuously grow and set new goals.

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. The position is suitable for staffing with part-time employees.

Contact

Prof. Dr. Roland Schwarz
Tel: +49 221 478-51455

Universitätsklinikum Köln AöR
Geschäftsbereich Personal
Kerpener Str. 62
50937 Köln

Uniklinik Köln Karriere

Application deadline: 27.07.2025

Job-ID: jank96gh

apply now

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