

Department of Medical Bioinformatics

University Medical Center Göttingen

We are seeking a

PhD Student (f/m/d)

Part-time (65%) · TV-L · 2 years (with option of extension)

About Us

The Department of Medical Bioinformatics at the University Medical Center Göttingen is a leading research group in the bioinformatic analysis of biomedical high-throughput data. Our work focuses on the development of biomarker signatures, statistical methods, and machine learning approaches for personalised and systems medicine.

We are embedded in multiple DFG- and BMBF-funded collaborative research projects, with a strong focus on the analysis of cancer omics data — including genomics, transcriptomics, and spatial transcriptomics — and the development of innovative AI and machine learning methods. We work in close collaboration with clinical and experimental partners in national and international research consortia.

Within these research groups, we offer ambitious young scientists the opportunity to work at the forefront of research in Medical Bioinformatics. Possible topics for doctoral theses are deeply rooted in the analysis of complex datasets and the development of methods essential for progress in the treatment of cancer.

We are looking for PhD candidates interested in statistical data analysis, machine learning methods, gene regulation, bioinformatics, and integrative omics approaches.

Your Tasks

- Analysis of cancer multi-omics data (transcriptomics, epigenomics, metagenomics)
- Development and application of statistical and machine learning approaches for biomarker discovery
- Integration of multi-omics datasets across patient cohorts
- Processing and analysis of NGS-based datasets and bioinformatics pipelines
- Contribution to the interpretation of results in close collaboration with clinical and experimental partners
- Support in data and project management
- Preparation of scientific manuscripts and reports

Your Profile

- M.Sc. or Diploma in Bioinformatics, Computer Science, Data Science, Biology, or a related field
- Solid understanding of biological and biomedical concepts, particularly in the context of cancer or genomics

- Experience and strong interest in machine learning, statistical modelling, and data science
- Proficiency in at least one programming language (Python, R, or similar)
- Familiarity with NGS data analysis and bioinformatics workflows is an advantage
- Enthusiasm for working with large, complex, and heterogeneous datasets
- Interest in interdisciplinary research and collaboration across multiple institutions
- Excellent written and spoken English; knowledge of German is advantageous
- High motivation, initiative, and the ability to work both independently and as part of a team

What We Offer

- An exciting research environment at the interface of bioinformatics, AI, and cancer medicine
- Structured mentoring and a supported onboarding process
- A diverse, interdisciplinary, and multi-professional working environment
- Access to state-of-the-art bioinformatics infrastructure and large-scale biomedical datasets
- Salary according to TV-L (part-time, 65%) for an initial period of 3 years, with the possibility of extension
- Additional occupational pension scheme (VBL)
- Company health management programme and sports facilities
- A position in Göttingen — a vibrant university city with a rich scientific tradition

Diversity & Inclusion

The University Medical Center Göttingen is committed to professional equality for all genders and actively works to achieve gender balance across all areas. We warmly welcome applications from severely disabled persons, who will be given preferential consideration in the case of equal suitability in accordance with applicable regulations. Please indicate any disability or relevant status in your application to ensure your interests are protected.

How to Apply

Please submit your application (CV, cover letter, and relevant certificates) by 12.06.2026 via the following link:

<https://umg.recruiting-portal.com/r/z01r7ubt7k6t97q/PhD+Position+fmd/37077/G%C3%B6ttingen>

Please note that travel and application costs cannot be reimbursed.

We look forward to receiving your application!