▶JOBOFFER

The Limbach Group is among the largest laboratory groups in Germany and Europe covering practically all medical disciplines.

Limbach Genetics, led by Prof. Carsten Bergmann, delivers premium quality in the challenging field of genetic diagnostics across its entire breadth. Using state-of-the-art diagnostic methods (incl. WGS, RNAseq etc.) our on-site team of physicians, scientists and technical staff members is happy to cope with challenges in the field of medical and human genetics. At our genetics headquarter in Mainz we will establish a bioinformatics core facility to serve all general but also strategic needs within the whole Limbach group.

Therefore we are looking for colleagues with a solid background in full or part time for the position of a

Scientific Head/Director of Bioinformatics (m/f/d)

Your input is required for:
- Establishment of an efficient bioinformatics infrastructure for huge data processing in the field of molecular genetic diagnostics (e.g. WGS, RNAseq)
- Optimization of database structures for the exploitation of NGS data and integration of data and biomarkers from related disciplines (big data architecture)
- Statistical analysis of data of large patient cohorts using state-of-the art machine/deep learning approaches or equivalent (e.g. for genetic burden models) with the aim of publication and establish next-level diagnostics
- Development of evaluation algorithms using AI approaches for efficient variant interpretation (scoring systems, metascores)
- Development of polygenic risk scores
- Optimization of secondary analysis pipeline in tumor genetics (identification of CNVs, Indels, SNVs, fusion genes, TMB/MSI etc.), also at the next-level (single-cell analyses)
- Coordination of scientific projects (e.g. BMBF-NEOCYST)
- Project management and consulting in externally executed projects

Your profile:
- Long standing professional experience in processing large NGS data volumes (WES, WGS, RNASeq) and their systematic and efficient storage in database structures
- A broad overview of state-of the art-bioinformatics/informatics approaches
- Vision of how to use artificial intelligence in automated variant interpretation and decision taking.
- Deep understanding of biostatistical and epidemiological issues
- Strong leadership and project management skills in complicated bioinformatics and IT projects
- Good scientific network to gather all necessary cooperation partners
- You enjoy working in an interdisciplinary team and driving innovative projects with colleagues and external partners

Your freedom:
- You may continue your scientific career and work in part-time on-site in Mainz
- Freedom to setup scientific projects with external groups and partners to serve the needs of any project
- Drive publication of finalized projects
- Challenging tasks in a rapidly developing and innovative field of medical diagnostics
- Evolve as a visible and valuable consulting partner within the whole Limbach network
- New laboratory building with state-of-the-art equipment
- A modern contemporary working model and a nice team ☺

Applications including a cover letter, a detailed CV including a publication list and contacts of up to three referees should be send to tobias.eisenberger@medgen-mainz.de or carsten.bergmann@limbachgruppe.com