

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.

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

(Senior) Bioinformatician (m/f/d)

Job description:

- Establishment of bioinformatics infrastructure for data processing in the field of molecular genetic diagnostics (panels, WES, WGS, RNAseq, versatile databases)
- Construction and operation of secondary analysis pipeline in tumor genetics (identification of CNVs, Indels, SNVs, fusion genes, TMB/MSI etc.)
- Implementation of web applications/GUIs and supervision of external contract work
- Establishment 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 (e.g. machine learning) of large patient cohorts (e.g. genetic burden models)
- Development of evaluation algorithms (AI) for efficient variant interpretation (scoring systems, metascores)
- Development of polygenic risk scores
- Establishment of an efficient IT environment for recording, processing and storing internal (LIMS) and external data streams (Order Entry)

The successful applicant will have:

- University degree (master/diploma or similar) in the field of informatics/bioinformatics, possibly PhD in a relevant field
- You enjoy working in an interdisciplinary team and are interested in innovative questions and methods
- Several years of professional experience in a relevant field including processing large NGS data volumes (WES, WGS, RNASeq) and their systematic storage in database structures
- Secure handling of common scripting languages (including Python and R) and databases
- Good understanding of biostatistical and epidemiological issues
- Experience in:
 - IT quality management and software validation/versioning
 - Creation of web applications
 - Algorithm development, machine learning, AI, Big Data projects
 - Variant analysis in tumor samples
- You are pragmatic, efficiency-oriented, highly motivated and used to work independently with a strong work ethic

We offer:

- Earliest start: right away (July 2020)
- Contract: permanent
- A secure job with long-term prospects and advancement opportunities
- Challenging tasks in a rapidly developing and innovative field of medical diagnostics
- Scientific projects are explicitly supported and there is the possibility of a career in academia/university in parallel
- 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