# COMPUTATIONAL GENOMICS SCIENTIST (m/f/d)

## Full time - Mainz

We are looking for a new team member in our **Computational Medicine** unit to start as soon as possible. The Computational Medicine unit is an interdisciplinary team of scientists, software developers, and PhD students, with diverse backgrounds, including computer science, molecular biotechnology, bioinformatics, and mathematics. We strongly collaborate with other units in TRON and with external partners to develop software, predictive models, and data analysis to identify biomarkers and targets for innovative immunotherapies against cancer and other diseases. The successful candidate will support the analysis of sequencing data with established workflows or by implementing novel pipelines to address diverse research questions.

### Your tasks and responsibilities:

- Providing reproducible analyses with bioinformatics workflows of sequencing data (Illumina, ONT, PacBio) for diverse translational research projects
- Maintainance and further develop our internal and open source bioinformatics workflows
- Testing, comparing and systematically benchmarking novel bioinformatic tools and predicitve models using (internal) experimental confirmation data for highly accurate results in translational research questions
- Designe and supervise the implementation of novel pipelines and analysis workflows
- Support the planing of sequencing and wet-lab validation experiments for genomics projects in collaboration with other units and external partners
- Presenting and discussing your work in meetings and at conferences, write reports and publish manuscripts

### What you bring:

- A PhD in bioinformatics, computational biology or equivalent and a track record in computational genomics
- Proven proficiency in analyzing NGS data (e.g. WGS, WES, RNA-seq, ATAC-seq, short/long-read sequencing data)
- Proficiency working in a Linux HPC environment, including the use of job schedulers, virtual environments, and containerization
- Strong programming experience, preferably in Python and R
- Hands-on experience with collaborative software development tools (e.g. git, GitLab, GitHub), dependency management (conda, docker, singularity), and computational workflow managers (e.g. NextFlow, snakemake)
- An excellent data visualization and communication skills

Enthusiasm and curiosity for the diverse activities of our research institute as well as the ability to work in a team completes your profile.

**We offer:**

- A dynamic, innovative and creative research environment
- An open, collegial and cordial working atmosphere in a respectful corporate culture
- A high degree of diversity in the workforce
- Flat hierarchies
- Performance-related remuneration and other benefits
- The opportunity for personalised further training
- Good transport connections by public transport and car as well as bicycle parking spaces
- The opportunity for hybrid working

TRON is an internationally recognised institute for application-oriented research. We combine the strengths of academic research with the requirements of quality-controlled industrial developments. At TRON, we share a common mission to develop innovative solutions for the immunotherapeutic treatment of cancer, infectious diseases and other serious diseases with high medicinal need for development.

TRON was founded in Mainz in 2010 and works in close cooperation with universities and hospitals as well as with regional, national and international research institutions and pharmaceutical companies.

As part of our team, you have the opportunity to be at the forefront of translational science with us.

If all this appeals to you, we look forward to getting to know you.

Please send us your complete and informative application documents (cover letter, CV, references) in a single document of max. 5 MB by e-mail to Human Resources at **jobs (at) tron-mainz.de**, Job-ID: *51004-24-05-WAPRO*.

For more information, visit our homepage at www.tron-mainz.de