



Scientist Spatial Omics (m/f/d)

Fulltime - Mainz

We are looking for a scientist to support our **Spatial Biology Unit** within Technology Research Center to start as soon as possible. We are an interdisciplinary team of scientists, PhD students, and research assistants with diverse background, including cancer biology, neuroscience, and immunology. Our Unit supports projects of TRON, as well as collaborations with industrial and academic partners by providing expertise in histological assays, spatial proteomics, and spatial transcriptomics. We analyze and validate novel biomarkers in spatial context, deepen our understanding of the tumor microenvironment, and investigate the biodistribution and expression of mRNA-based vaccines and other immunotherapeutic modalities.

The successful candidate will develop novel methods and analysis pipelines for spatial proteomics and transcriptomics, support projects involving data analysis of multiplex and high-plex immunohistochemistry (IHC) and spatial transcriptomics, contribute to exciting ongoing and novel projects in high-dimensional tumour profiling to translate those findings to clinical settings. The candidate will collaborate with experts across multiple disciplines to advance the projects.

Your tasks and responsibilities:

- Implement, optimize, and apply robust and reproducible analysis pipelines for spatial omics data
- Develop novel multi-modal data integration methods for spatial multi-omics assays
- Integrate in-house generated data with publicly available spatial and single-cell atlases
- Support and train scientists and PhD students in spatial omics data analysis
- Collaborate in multidisciplinary project teams with academic and industrial partners to identify novel biomarkers and therapeutic targets
- Review literature for emerging methods, datasets, and discoveries in the field of spatial omics
- Present and discuss in internal meetings and international conferences, write R&D reports and scientific publications

What you bring:

- Ph.D. degree in a relevant scientific discipline (e.g. Biology, Bioinformatics, Computer Science)
- Demonstrated scientific expertise in the analysis of spatial omics data
- Good knowledge of cancer biology and immunology
- Experience in leading research projects in a multidisciplinary environment Strong programming skills, particularly in Python and R, with experience in spatial data analysis and machine learning with an emphasize on spatial proteomics
- Experience in microscopy image analysis is essential
- Flexibility and adaptability to changing projects and organizational priorities
- Strong communication skills in English

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
- Access to GPU-accelerated HPC cluster and labs with cutting-edge sequencing and imaging technologies
- Performance-related remuneration and other benefits
- The opportunity for personalised further training
- Job ticket (Deutschlandticket) incl. employer allowance
- Bike leasing (Businessbike)
- 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 medical need.

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 cutting edge 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: **42101-26-01-SCI**

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