



# Postdoc Data Scientist

## Bioinformatics & Computational Metabolomics

The Core Facility Metabolomics of the **Medical Faculty of the University of Tübingen**, Southern Germany, is looking for a highly-motivated and experienced postdoc data scientist for **Multimodal Metabolomics & Lipidomics** (LC-MS, NMR, MALDI) including **Mass Spectrometry Imaging**.

The open position shall be filled at the earliest possible date with a **graduated scientist f/m/d** (PhD in **computational metabolomics**, bioinformatics, chemometrics, biology or similar) in **full time** with an initial duration of 1.5 years and potential option of extension. Located at the new **M3 Research Center** (<https://www.medizin.uni-tuebingen.de/de/das-klinikum/einrichtungen/zentren/m3>), the Core Facility is embedded in an **excellent scientific environment** and stands out through strong interdisciplinarity.

The Core Facility is equipped with cutting-edge analytical systems for the **preparation and analysis of biological samples** such as **tissue, organoids** and biofluids from a variety of different human diseases (cancer, neurodegeneration, metabolic disorders) or animal models. We have furthermore a **strong computational cluster** at the M3 Center, aiming to explore large untargeted and spatial metabolomics data also by **AI and computational approaches**.

### Your tasks:

- **Head data scientist** for data analysis at a cutting-edge Core Facility
- Implementation and **development of data analysis SOPs** for Metabolomics & Lipidomics
- Development of data analysis pipelines for **multiparametric MALDI imaging**
- Annotation and quality control of spectral datasets (MALDI-MS and LC-MS/MS, including ion mobility) and their analysis by modern **computational approaches**
- **Creation and maintenance of databases** for reference spectra and measurement data archiving according DFG and FAIR guidelines
- **Client communication, project management**, and preparation of reports and invoices
- Support with teaching, **publications, and third-party funding applications**

### Your profile:

- Completed PhD in the field of **Systems Biology** or **Computational Sciences** with a focus on Chemometrics (Biology, Bioinformatics, Biochemistry, etc.) and Metabolomics/Lipidomics
- Proven practical knowledge of programming languages (R, Python, etc.) and **new AI methods** and confident application of those to develop new pipelines
- Strong expertise in Metabolomics, Lipidomics, and MALDI Imaging with publication track
- **Passion for bioinformatic data analysis** in a clinical environment and new Core Facility
- Structured and organized work style with a high degree of self-responsibility
- Strong ability to work in a team and manage multiple parallel projects simultaneously

### Your benefits:

- Ability to work with **latest multimodal metabolomics data** in a **top German university**
- Writing, contribution and participation in **peer-reviewed publications and grants**
- Participation in international conferences, research programs and training courses
- Engagement in **scientific and industrial collaborations** and international research networks

### Further information please contact:

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