

**JULIUS-MAXIMILIANS-UNIVERSITÄT WÜRZBURG, GERMANY**

**Core Unit Systems Medicine**

## **Research Associate / Post-Doc in Functional Genomics and High-Throughput Sequencing [m/f/d]**

Applications are invited for a **research associate / postdoctoral position** at the Core Unit Systems Medicine (SysMed) – a joint central facility of the Julius-Maximilians-University of Würzburg and the University Hospital of Würzburg, Germany. SysMed is a collaborative partner in research projects and a valued provider of high-throughput and deep sequencing services. Our analyses address fundamental and applied research questions in systems biology and system medicine with an emphasis on deciphering key genetic or regulatory mechanisms important to the development of cancer, diabetes or infectious diseases.

### **Role and responsibilities:**

As member of our highly skilled team, you will support research groups of University departments, the University Hospital as well as larger research networks by developing and implementing novel and fit-for-purpose next generation sequencing approaches. The Core Unit SysMed offers an extensive portfolio of manual and automated library preparation and sequencing protocols used to study gene regulation of pro- or eukaryotes. More specifically, the incumbent will be involved in:

- Developing / improving an innovative and versatile platform for preparing / processing of bacterial and mammalian cDNA libraries
- Optimizing semi-automated workflows for established lab protocols for diverse transcriptome and translome analysis methods, including (bulk, dual, differential) RNA-seq, Cappable-seq, CLIP-seq, RIL-seq, RIP-seq, Ribo-seq, Term-seq etc.
- Analysis of eukaryotic and prokaryotic data
- Maintaining end-to-end quality management during the entire preparation process of ready-to-load libraries
- Reporting and documentation of project results and milestones, consultations with users on experimental design and workplan

**Expert profile and qualifications required:**

Applicants should have a **doctoral / PhD degree** and a **strong background in molecular (micro)biology / biochemistry** with specialization in deep sequencing approaches and transcriptomics technologies. We give preference to candidates with:

- Interest in analytical methods and laboratory techniques used in functional genomics
- Hands-on experience with operating a liquid handling robot and/or Illumina sequencer
- Additional knowledge in project management / consultation services and the willingness to become proficient in German would be beneficial

**Our offer – working conditions:**

- An interdisciplinary and international scientific environment with a strong focus on RNA and infection research ([www.helmholtz-hiri.de/en/research/wuerzburg-rna-ecosystem/](http://www.helmholtz-hiri.de/en/research/wuerzburg-rna-ecosystem/), [www.imib-wuerzburg.de/research/](http://www.imib-wuerzburg.de/research/) and [www.uni-wuerzburg.de/zinf/startseite/](http://www.uni-wuerzburg.de/zinf/startseite/))
- A collaborative research environment and involvement in high-profile research projects ([www.med.uni-wuerzburg.de/en/cu/sysmed/publications/](http://www.med.uni-wuerzburg.de/en/cu/sysmed/publications/))
- Modern laboratories in a state-of-the-art research building with bio-containment, molecular imaging, high-throughput genomics, and animal facilities
- An initial appointment for 2 years (with the option of extension)
- Additional support structures, including mentoring for young scientists, JMU career development programs, family-friendly certified University

Salary will be based on the pay scale for the public sector in Germany (TV-L) and depends on training and experience. The University aims to increase the proportion of female employees, therefore applications from qualified women are particularly welcome. Preference will be given to handicapped persons in case of otherwise equal aptitude.

Applicants are welcome to make **informal inquiries about the post** to the IMIB director, Prof. **Jörg Vogel** ([joerg.vogel@uni-wuerzburg.de](mailto:joerg.vogel@uni-wuerzburg.de)), or the ZINF spokesperson, Prof. **Cynthia Sharma** ([cynthia.sharma@uni-wuerzburg.de](mailto:cynthia.sharma@uni-wuerzburg.de)).

Please send your application as a **single PDF file** including a short letter of motivation, CV, list of publications, copies of relevant documents and contact information of at least two academic references **by May 31<sup>st</sup>, 2023** to Dr. Tom Gräfenhan ([tom.graefenhan@uni-wuerzburg.de](mailto:tom.graefenhan@uni-wuerzburg.de)).

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