



# PhD student Systems Medicine or (Bio-) Chemistry (f/m/d)



The Werner Siemens Imaging Center is a world-leading research facility focusing on new imaging techniques, tracer development and clinical translation as well as fundamental biomedical research. Within the framework of a collaboration with internal partners from the University Hospital of Tübingen and the magnetic resonance company Bruker BioSpin GmbH, we are seeking for a highly motivated

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with profound knowledge in biology and chemistry especially for the analysis of small molecules (metabolites) by high-field NMR spectroscopy and chemometrics. The position (65 %) is initially limited to 1 year with the plan for further extension. The candidate will perform standardized metabolomics SOPs for human urine, blood, cerebrospinal fluid and feces as well as translate part of these SOPs to murine samples and expand the method portfolio to other sample types such as tissue and human fibroblasts. The generated data sets will be analyzed with established chemometric methods and shall be used to develop new biomarkers and imaging tracers for diseases like liver carcinoma, brain tumors or metabolic inborn errors.

The candidate should have skills to integrate and implement comprehensive experimental protocols and should be flexible and creative when it comes to problem-solving issues. Experience in working with cell cultures and samples from humans and small animals is desirable. Skills in computational techniques like Matlab and R(Studio) are welcome. Profound knowledge in English or German is required.

Applicants should hold a master or diploma degree in Biology, Chemistry, Physics, Molecular Medicine or related fields. Lab-routine skills are mandatory. The candidate should have a keen interest in metabolite-driven diseases and to address clinical questions in the fields of neurology, oncology and cardiovascular diseases.

Interested candidates should apply with a complete CV, all certificates and grades of University educations and potential jobs/interns as well as the names and contact details of at least one referee (former professor/advisor/mentor).

We offer remuneration in accordance with TV-L (collective wage agreement for the Public Service of the German Federal States) in addition to all the customary benefits granted to employees working in Public Services. Severely handicapped persons with equal qualifications are given preferential consideration. The University of Tübingen is anxious to increase its quota of female scientific staff, and therefore emphatically requests women to apply for this position. The Administration of the University Hospital is responsible for all employment matters. Personnel appointments will be made pursuant to the fundamental stipulations of the legal statutes for universities in Germany. Interview expenses are not covered.

For questions, please contact Dr. Christoph Trautwein, Tel.: +49 7071 29-83426.

Application deadline: **31.07.2019**.

Please send your application documents exclusively as PDF attachments by e-mail **quoting the reference number 9629**:

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**Radiologische Klinik**  
**Präklinische Bildgebung und Radiopharmazie**  
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