As part of the BMBF-funded research consortium "Clinical Mass Spectrometry Center Munich – CLINSPECT-M", the Young Investigator Group in "Mass Spectrometry in Systems Neurosciences" at the Technical University of Munich invites applications for

PhD student - Clinical Proteomics

with a strong background or interest in mass-spectrometry-based proteomics and its application in biomedical research. The successful candidate will become a key member of a highly dynamic team focusing on the development and application of proteomic approaches to disease mechanism and biomarker discovery in the areas of neurosciences and precision medicine. In particular, this position will work on the development of proteomic technologies to systematically study the hitherto largely unexplored protein modification in the brain tissues of patients with neuro-diseases. The most important aspects of the job description are:

- Development and evaluation of anti-protein citrullination antibodies

- Optimization and automation of robust proteomic workflows for citrullination enrichment in clinical samples

- Data analysis of citrullination landscape in brain tissues

- Research on selected neuro-diseases to identify disease mechanisms

- Operation and maintenance of LC-MS systems

Requirements: Candidates must hold an MSc degree in a life science discipline. Good theoretical knowledge of and practical skills in protein biochemistry and bioanalytical methods are essential. Applicants should also possess a solid understanding of modern aspects of molecular and cellular (neuro)biology. Prior experiences with proteomic technologies and data analysis are a plus. We are looking for a self-motivated and broadly interested individual with high potential and a strong sense of responsibility. Flexibility and the ability to work in a fast-paced environment on multiple scientific and infrastructure projects are essential. Good inter-cultural and interpersonal communication skills as well as presenting complex data to scientists and clinicians in English are also important.

Our offer: You will join a young and highly dynamic team that closely collaborates with the interdisciplinary team of biochemists, cell biologists, bioinformaticians, chemists, and clinicians and uses the latest proteomic approaches and equipment to help fighting diseases. The Technical University of Munich is one of the best academic institutions in Germany and offers a stimulating work environment and excellent future perspectives. The position is initially available for four years and the salary follows the TVL/E13 scale.

Application: Applications should include a motivational statement (max. *one* page), a curriculum vitae summarizing qualifications and experience, copies of degrees/university transcripts, names and the email addresses of at least one referee. Applications should be sent as a single PDF to Dr. Chien-Yun Lee (chienyun.lee@tum.de). The position is available from Oct 2021 and applications will be considered until the position is filled.