

HiWi Opportunity – Camera System for mobile C-arm

Are you interested in interdisciplinary research and image processing in the medical technology field directly at TUM University Hospital? Would you like to make clinically approved medical devices more intelligent through targeted sensor integration and smart algorithms? Then apply for the position as a student assistant at the interface between technology and medicine and work on further developing mobile C-arms. The MITI research group offers you insights into everyday work in surgery and medical technology or robotics, which will guide the requirements of your work.

Your work will involve interdisciplinary research and combine various tasks, including research, the construction of devices, the integration and programming of various camera systems, the processing of sensor data, and the user-friendly presentation of results in a GUI. For this position as a student assistant, you should have a sound understanding of sensor technology and programming, as well as a strong interest in applied research in the hospital. Your weekly working hours are 19 hours, with flexible scheduling and the option to work from home.

Be part of our collaborative research project between the MITI research group at the TUM University Hospital and the Siemens Healthineers AG.

Prerequisites:

- You are enrolled in a technical bachelor's or master's program at TUM
- Interest in medical technology and sensor integration
- You have good knowledge and practical experience in working with sensor technology, CAD, Python, C++, GUI, and image processing
- You have good knowledge of English and/or German
- You work in a structured, independent and careful manner

Start of work: as soon as possible

If you have become curious and would like to be part of our team as a HiWi, please apply to us with your CV and proof of grades. We would be pleased to receive a brief description of your interests and previous experience.

Please send your application to: nin.mueller@tum.de