

Research System Engineer (f/m/x)

The here advertised position serves a collaboration between Helmholtz Munich and the National Center of Tumor Diseases (NCT) Dresden. NCT is a joint institution of the German Cancer Research Center, the University Hospital Carl Gustav Carus Dresden, the Faculty of Medicine at TU Dresden, and the Helmholtz-Zentrum Dresden-Rossendorf (HZDR). The NCT with sites in Heidelberg and Dresden is being further expanded to an international center of excellence regarding point-of-care and individualized Cancer Medicine. Research in the Department of Functional Imaging in Surgical Oncology (FBOO), is focused on the development and application of novel imaging probes and imaging methods in the short-wave infrared spectral range (SWIR imaging) for biological and medical in-vivo applications (Prof. Oliver Bruns). Recent progress in SWIR concerns detection technologies and the development of new probes that will enable new capabilities in preclinical and clinical imaging.

Candidates interested in pursuing a PhD and/or a complementary Master's degree in this position can be enrolled at TU Dresden.

The application will be handled through The Helmholtz Pioneer Campus (HPC) which was founded and is funded by Helmholtz Munich. The HPC stands for the intelligent fusion of biomedical sciences, engineering and digitization. At HPC, top scientific talents from across the globe work together on the development of novel solutions that make a difference in the prevention, diagnosis and treatment of diseases.

Your responsibilities

This is a generalist role where we do not expect you to know everything and will provide you with the time and resources to learn new skills as needed. We are looking for candidates who have a general technical background and can take ownership of one or more of the following roles: biomedical engineering, optical engineering, software engineering, electrical engineering, or mechanical engineering.

We are looking for a Systems Engineer who is interested in bringing prototype imaging systems from the lab to the clinic. As a first project, you will help us implement a portable imaging system to help guide pathologists during examination of tissue. Once this system is in the clinic, you will work with our users to learn more about their processes, and how we might improve our current imaging systems or develop new ones.

Your qualifications

- Bachelor's or master's degree in a technical field, or equivalent experience
- able to work in a hospital setting, on the premises of the Universitaetsklinikum Carl Gustav Carus

- located in Dresden, with significant time on site (>50%)
- able to travel (20%) to attend surgeries, troubleshoot issues, or train users
- experience with medical devices is a plus
- experience with 3D printing, photography, or industrial design a plus
- experience with Linux, Python, C++, Rust, OpenCV, or related tools is a plus
- our working language is English, German is a plus

What we offer

- work-life balance
- home office options
- flexible working hours & working-time models
- elder care
- continuous education and training
- company pension scheme
- 30 days annual leave
- discounted public transport ticket

Provided that the prerequisites are fulfilled, a salary level up to E 13 is possible. Social benefits are based on the collective agreement for the federal public service (TVöD). The position can be filled immediately and will be initially limited until December 31, 2024. We will review applications as we receive them.

To promote diversity, we welcome applications from talented people regardless of gender, cultural background, nationality, ethnicity, sexual identity, physical abilities, religion and age. Qualified applicants with physical disabilities will be given preference. If you have obtained a university degree abroad, we require further documents from you regarding the recognition of the degree. Please request the recognition as early as possible.

Curious? If you have further questions, simply contact Dr. Thomas Stanley Bischof (Thomas.Bischof@nct-dresden.de) or Maria Voigt (Maria.Voigt@nct-dresden.de), who will be happy to be of assistance. **Applications** should be made via the online application form that can be found by scanning the QR code (link leads to the job portal at Helmholtz Munich):

