



Internship or Working Student: Four-Dimensional Microscope-Integrated Optical Coherence Tomography (m/w/x)

Eggenstein-Leopoldshafen

Step out of your comfort zone, excel and redefine the limits of what is possible. That's just what our employees are doing every single day – in order to set the pace through our innovations and enable outstanding achievements. After all, behind every successful company are many great fascinating people.

Motivation of the work

Turning today's research into tomorrow's applications – together With a clear focus on user needs, the ZEISS Innovation Hub @ KIT explores new technology and application fields, enabling the transformation of ideas into innovations. Here, students, researchers, entrepreneurs, and ZEISS employees meet at eye level and practice an open-innovation culture. For our team of researchers and engineers, we seek a student to support our research and experiments in the domain of four-dimensional microscope-integrated OCT for medical applications.

We offer

- Young, motivated team with a large and active student community
- Agile work environment with the possibility to work on various tasks for innovative medical applications
- Option for subsequent master thesis
- Modern office culture with flexible working hours

Your role

- Gain insights into the development of cutting-edge microscope-integrated optical coherence tomography devices for medical applications
- Test concepts, core functionalities, and visualization conceptions for OCT hardware and software
- Help with the development of a state-of-the-art research-grade OCT prototype
- Research existing solutions in the scientific and patent literature and tailor solutions to our needs
- Conduct and evaluate experiments based on microscope-integrated OCT imaging

Your profile

- A bachelor's degree and are enrolled in a master's program in mechanical, electrical or (bio)medical engineering, optics & photonics, computer science, physics, or similar
- Good understanding of the fundamentals of optics and ideally OCT
- Programming knowledge in at least one of the following: Python, C/C++, Matlab, or CUDA
- First hands-on experience with OCT devices and signal processing algorithms is a plus
- Ideally experience in the development and integration of data acquisition electronics and scanners
- Excellent organization, problem-solving & communication skills (English and/or German)
- Passion for innovation and enthusiasm for new technologies as well as motivation to work in agile, interdisciplinary teams

In a spacious modern setting full of opportunities for further development, ZEISS employees work in a place where expert knowledge and team spirit reign supreme. All of this is supported by a special ownership structure and the long-term goal of the Carl Zeiss Foundation: to bring science and society into the future together.

Join us today. Inspire people tomorrow.

Diversity is a part of ZEISS. We look forward to receiving your application regardless of gender, nationality, ethnic and social origin, religion, philosophy of life, disability, age, sexual orientation or identity.

Apply now! It takes less than 10 minutes.

Your ZEISS Recruiting Team:

Franziska Gansloser, Selina Safradin