Clinical Application & Validation Engineer Ophthalmic Robotics (f/m/d - 32/40 hrs/wk)

Location: High Tech Campus, Eindhoven, The Netherlands

Shape the future of robotic eye surgery

Are you excited by advanced technology and eager to learn? Would you like to contribute to groundbreaking innovations that may enable new treatments for retinal diseases and help improve patients' vision?

Preceyes – a ZEISS company – is a pioneer in precision robotics for eye surgery. Since becoming part of ZEISS in 2022, we combine the agility and innovation of a high-tech scale-up with the expertise and global reach of a world-leading medical technology company.

We are looking for an enthusiastic engineer early in their career who is excited to grow in a unique role at the intersection of robotics, engineering, and international clinical practice.

The opportunity

This role offers a unique learning and development journey. You will gradually and proactively build expertise in our robotic surgical platform while working alongside experienced engineers, clinicians, and leading ophthalmic surgeons and become one of the experts on our surgical robot platform.

From day one, you will be involved in both technical and clinical activities. You will gain hands-on experience in bench and laboratory testing, support validation and integration activities, and learn how advanced robotic systems are used in real surgical procedures.

As your experience grows, you will increasingly support clinical studies and travel to international hospitals, where you will work directly with surgeons and clinical teams. Through these experiences, you will develop into an important link between our R&D organization and the clinicians who use our technology.

Your Responsibilities

- Develop a thorough understanding of the Preceyes robotic platform, its technology, and its clinical applications.
- Collaborate with multidisciplinary R&D teams to develop, integrate, test, and evaluate new hardware, software, and system functionalities.
- Work across bench, laboratory, and clinical environments to support, verification, validation, and continuous improvement our robotic surgical systems.

- (Learn to) maintain and troubleshoot robotic system HW and SW and supporting equipment used in bench, laboratory, and clinical environments.
- Organize and carry out laboratory activities and support the maintenance of devices, tools, and test equipment.
- Support international clinical studies, including on-site preparation, protocol execution, user training, and technical assistance.
- Collect user feedback and clinical observations and translate them into actionable product improvements.
- Contribute to development, validation, and regulatory documentation.

Why you'd be a great match

We are primarily looking for curiosity, proactiveness, a hands-on mindset and the motivation to learn quickly.

You:

- hold a Bachelor's or Master's degree in Biomedical Engineering, Mechanical Engineering, Mechatronics, Robotics, or a related field.
- have 1–4 years of relevant professional experience, or have built equivalent hands-on skills through extracurricular leadership roles or responsibilities during study, entrepreneurial activities, practical technical projects (e.g. mechanical or electronics work), technical hobby projects or other experiences that demonstrate initiative and responsibility.
- are excited to travel regularly to our customer hospitals to support robotic surgery in the Operation Room (approximately 2 travels/month).
- are interested in medical technology and clinical applications.
- enjoy working with advanced technology and translating ideas into practical, real-world solutions.
- have a natural interest in understanding, building, fixing or improving technical systems.
- are eager to learn, and comfortable stepping into new situations, and feel supported while doing so.
- have strong communication and teamwork skills to collaborate effectively with our customers (surgeons in the hospital) and with our agile, cross-functional teams in Germany and The Netherlands.
- are fluent in English; Dutch is nice to have.

Experience in a regulated industry such as medical devices, aerospace, automotive, or high-tech systems is beneficial.

What's in it for you?

Our work environment offers the best of both worlds: the innovative energy of a scale-up combined with the strength and expertise of ZEISS.

We offer:

- A unique opportunity to grow within the rapidly evolving field of surgical robotics.
- Direct exposure to both cutting-edge technology and real-world clinical practice.
- Extensive opportunities for learning, development, and career growth.
- Collaboration with leading engineers, researchers, and ophthalmic surgeons in an international setting.
- An ambitious and diverse team based at the High Tech Campus Eindhoven with excellent facilities such as a gym, many food opportunities and green walking areas.
- Flexible working hours and the possibility to work from home 1–2 days per week.

Ready to join us?

If you're looking for a role where you can learn and take responsibility quickly, work with both ambitious colleagues and world-leading surgeons and make a meaningful contribution to technology that impacts patients' lives, we would love to hear from you.

Apply before 9 October 2026 by sending your resume and a short motivation to careers@preceyes.nl.
Interviews will be scheduled on 22 October 2026.