

R&D ENGINEER – CATHETER SENSING (m/f/d)
(with possibility to apply for PhD program)

About FBGS

FBGS is a Germany / Belgium based developer and manufacturer of high strength Fiber Bragg Gratings (FBGs), Interrogators, Sensors and custom-made fiber optic sensing solutions. Therefore, FBGS has developed two unique and fully automated production processes for FBGs which result in very high quality and cost-effective sensing components with unique optical and mechanical characteristics. FBGS's products are suitable for both standard and bespoke applications in industries such as: medical, composite, transport, process, civil & geo, telecom and R&D. FBGS supplies 'Draw Tower Gratings' – DTG® and 'FemtoSecond Gratings' – FSG® as an OEM component and our products can today be found in many applications and products developed by our customers worldwide.

As an R&D Engineer – Catheter sensing, you will take care of designing, developing and testing next-generation sensing concepts for catheter systems from concept to pre-clinical prototyping. You play a key role in the R&D/innovation activities and report to the Chief Technology Officer. Depending on the candidates' interest, the job function might also become lined-up with a PhD program.

Responsibilities

- Conceptualize, design and develop innovative fiber sensing concepts for interventional catheters, including design requirements, prototype developments, pre-clinical assessments, and industrialization.
- Support the design of the next generation catheter sensing systems, in collaboration with industrial customers and partners in an international context.
- Support the development of new test methods, tooling and equipment procurement, and executing testing for catheter sensing systems.
- Collaborate with colleagues and physicians in both pre-clinical and clinical developments in order to evaluate the catheter sensing technologies.
- Work with team members and external partners to deliver project's technical objectives.
- Report results and work evolution on a regular basis.
- Establish timelines and ensure adherence to timely execution and quality procedures.
- Develop appropriate test methods for product evaluations, write and execute test protocols and test reports.

Profile

- Mechanical or Biomedical Engineering Master's degree.
- 3 to 5 years' experience in design, development and industrialization within medical devices.
- Experience in materials (plastics, adhesives and associated processes), and mechanical (small part) design.
- Experience with mechanical design software (e.g. Solidworks) is a strong asset
- Experience with simulation of mechanical properties (FEM) with software is a strong asset (e.g. COMSOL)
- Experience with catheters is a strong asset.
- Technical knowledge or expertise on fiber sensing technologies and medical imaging technologies is an asset.
- Experience with SW for data analysis (e.g. Excel, Origin, Python) and lab setup automation (Lab view) is an asset
- Experience in medical device regulatory requirements, Quality Management Systems and design control processes is a plus.
- Proven record of working with and managing suppliers for product and process specification and testing.
- Strong innovation and communication skills together with hands-on and pragmatic mind-set.
- Very good organizational, analytical and problem-solving skills.
- Highly collaborative, self-motivated and team-oriented individual in a company setting.
- Excellent oral and written communication skills in English. Any other language is a plus.
- Up to 20% travel may be required.

What we offer

- A challenging position with a high-potential innovative sensing company.
- To work in a human-sized, collaborative and respectful environment.
- A variety of interesting contacts with international exposure.
- An attractive compensation package in line with your responsibilities and experience.
- Flat hierarchy
- Job Type: Permanent / full time

At FBGS we encourage creative thinking and innovation. We work in dynamic and interdisciplinary teams and offer you individual development perspectives as well as flexibility in the design of your work. We are a modern, internationally oriented company. The compatibility of work and family is one of our central concerns. We strive to a gender balance in our team. Female candidates are therefore expressly encouraged to apply.

Location

- Geel (Belgium)

Interested?

Please send your CV together with a cover letter to info@fbgs.com.
Your application and related information will remain strictly confidential.