

Job Opening

Title: Test Engineer

Reports to: Manager, R&D – Device Characterization

About CardiacBooster:

CardiacBooster is a young medical device company developing a new and innovative device to support the heart. Heart support devices are used by interventional cardiologists to stabilize patients in times of acute heart failure. We are an enthusiastic team with diverse backgrounds and expertise, and are located on the NovioTech Campus in Nijmegen, Netherlands. CardiacBooster is an equal opportunity employer.

Job Description:

The Test Engineer plays a key role in developing a safe and effective device. Working from the requirements, you will have a critical eye on the physical behavior of CardiacBooster's medical device. Your key responsibility is to measure and quantify the physical characteristics of the device by experimental design. Your knowledge of solid and fluid mechanics, optics, and other areas of physics should translate in hardware and software implementations of test platforms and their validation, including test protocols and data analysis tools. Furthermore, device biocompatibility investigations will be part of the Test Engineer's tasks. You will work closely with your counterparts responsible for designing and manufacturing the pVAD device. Your output will be used as design input. Together, you will share the responsibility of realizing the full potential of CardiacBooster's technology.

The successful candidate will have entrepreneurial spirit, the required persistence to succeed in a start-up environment, and the ability to work in a self-directed manner with minimal direction and supervision. You should have hands-on knowledge and experience in the development and maintenance of test platforms for validation and verification. As a candidate, you will look back on at least 4 years of R&D experience.

You need to have a Master's Degree in a relevant engineering discipline such as applied physics, mechanical engineering, biomedical engineering, or equivalent experience. The Test Engineer will work from the company's office in the Netherlands and be able to travel occasionally.

Essential Job Responsibilities:

- Understand the physical and physiological drivers and boundary conditions of pVAD design and translate them into concrete research proposals.
- Develop processes and protocols for the characterization of the company's catheter device.
- Develop and maintain the company's bench testing technology.
- Good communication with peers and management in the continuous feedback loop between device design and validation testing.

Required Qualifications & Characteristics:

- Experience in qualification of medical / cardiovascular devices
- Experience with physical measurement equipment and sensors.
- Programming skills in Matlab + Matlab Simulink.
- Basic knowledge of the V-model is preferred.
- Experience with 3D CAD design (Solidworks) is preferred.
- Excellent communication skills in English and preferably one other European language.
- Master's Degree in a relevant engineering discipline, or equivalent experience.

Applications:

- Please submit your application, including resume, to hr@cardiacbooster.com