

Job Specification

Job Opening Title: (Senior) R&D Engineer, Catheter Development

Reports to: VP of R&D

About CardiacBooster: CardiacBooster is a 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 cardiogenic shock and acute heart failure. We are an enthusiastic team with diverse backgrounds and expertise, located in Galway, Ireland, and Nijmegen, Netherlands. CardiacBooster is an equal opportunity employer.

Job Description: The Senior R&D Engineer, Catheter Development, will be an experienced medical device engineer with intimate knowledge of medical device development for interventional cardiology. The key responsibility will be the development of the company's pVAD catheter, including the development of the design, the associated manufacturing and assembly processes, as well as the selection and management of suppliers of catheter components. The Senior R&D Engineer, Catheter Development, will work closely with his/her counterparts responsible for device characterization, other development functions, as well as quality affairs and marketing functions. He/She will share the responsibility of realizing the CardiacBooster's full potential. 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. He/She will have hands-on knowledge and experience in the development of cardiovascular devices. The Senior Engineer, Catheter Development, will be a team player and have excellent communication skills as well as in-depth industry knowledge. The successful candidate will look back on a minimum of five years of medical device development experience, and have a either a primary or Master's Degree in a relevant engineering discipline such as polymer, mechanical or biomedical engineering, or equivalent experience. The Senior Engineer, Catheter Development will work from the company's office in Ireland, and be able to travel occasionally.

Essential Job Responsibilities:

- Develop design options for company's pVAD catheter
- Develop assembly and manufacturing processes for the company's pVAD catheter
- Anticipate risks and challenges; proactively ensure availability of adequate mitigation plans.
- Development of DFMEA and PFMEA or similar risk management tools
- Work with management and marketing function to ensure adequate input from physician advisors
- Ensure adequate IP generation to protect novel developments and findings
- Manage relationships with third party development and manufacturing vendors

Characteristics:

- Self-directed engineer with entrepreneurial drive
- Have an established vendor network relevant to the device type
- Experience in:
 - Development of cardiovascular or equivalent devices, preferably catheter delivery systems
 - Functional and mechanical test method development.
 - Shaft joint design and process development www.cardiacbooster.com
 - Intimate understanding of interventional cardiology device requirements, preferably structural heart applications .

- Excellent communication skills in English and preferably one other European language
- Master's or primary Degree in a relevant engineering discipline, or equivalent experience

Additional Desirable Experience or Qualifications in:

- Polymer and reinforced composite Polymer Shaft design
- Design for Manufacture methodologies
- Competency in Solidworks or equivalent 3D CAD system
- Use of insert or overmoulding techniques in catheter construction.
- Use of statistical analysis techniques & DOE

The above statements are intended to describe the general nature and level of work being performed by people assigned to this classification. They are not intended to be construed as an exhaustive list of all responsibilities, duties, and skills required of personnel as classified.