Job Title:	Principal Product Development Engineer (Transcatheter Valves)
Reports To:	Director, Engineering
Location:	New Brighton, MN or Richmond (Vancouver) British Columbia
Date:	2021 Nov 17

Purpose/Role

A brief description of the primary responsibilities for which the employee is accountable

The Principal Product Development Engineer is responsible for Neovasc transcatheter valve design and development, and ensuring the safety and efficacy of Neovasc medical device products, while adhering to the necessary quality and regulatory requirements.

Position Description

A listing of the deliverables to be accomplished, including specific duties/activities that make up the job

- Subject matter expert (SME) for valve design.
- Develop and Design medical devices for treatment of valve insufficiency.
- Develop test strategies, methods and protocols to verify and validate design and design changes.
- Provided data analysis and reports required for regulatory submissions.
- Design and develop test fixturing for design verification.
- Manage various projects from inception to completion.
- Optimize manufacturability of product through design for manufacturability, design layout, design of jigs and fixtures, and manufacturing procedures.
- Provide guidance and mentoring to junior engineers and co-op students.
- Train technicians on manufacturing and testing product.
- Identify issues and provide technical support by troubleshooting various non-conformances through the non-conformance reporting process.
- Assisting Quality Assurance and Quality Control as needed.
- Other related duties as may be required.

Qualifications

Represents the desired qualifications but may not reflect the employee's existing qualifications

Education:

- Minimum 4 years of post-secondary education in the field of Applied Science in a related discipline or equivalent combination of education and experience

Experience:

- 5 years min experience in transcatheter valve design, development, and testing
- Experience in bioprosthetic valve manufacturing processes, including tissue fixation, tissue cutting, suturing and sterilization
- Experience in valve performance testing, including accelerated wear (AWT)/durability testing, hydrodynamic testing, etc.

Skills:

- Knowledge and understanding of ISO 5840 (Part 1 and Part 3) requirements related to valve performance and testing
- Strong analytical and problem-solving skills
- Knowledge of statistical methods
- Ability to prioritize and handle many different tasks
- Strong communication and organizational skills

- General Mechanical Aptitude
- Ability to provide leadership and mentoring to junior staff in a team environment

Please note that only candidates local to the Twin Cities, Minnesota, or the Vancouver, Canada area will be considered for this position.