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Job Title:	Principal Clinical R&D Engineer
Reports To:	Director, Engineering
Location:	900 Long Lake Road, Suite 300, New Brighton, MN 55112
Date:	2021 Nov 17

Purpose/Role

The Principal Clinical R&D Engineer is responsible for understanding the clinical disease states and conditions treated by Neovasc products, translating clinical and user needs into product/engineering requirements, and evaluating the safety and performance of products to ensure clinical and user needs are met.

Position Description

- Investigating and understanding the clinical conditions and disease state treated by Neovasc product offerings.
- Interact with clinical users (physicians, clinical staff, etc.) to understand user needs, and receive feedback in the development of medical devices. Translate "voice of customer" requirements to product requirements.
- Staying up to date with the competitive landscape, technology/market changes, and communicating as appropriate.
- Participate in cross functional teams to communicate project deliverables across multiple project phases.
- Participate in clinical investigations as related to product evaluations (i.e, device validation, device explants)
- Evaluate clinical data as an input to developing test methods and boundary conditions
- Interpret pre-procedural and post-procedural patient imaging to optimize screening criteria and implant practices as related to Tiara and Reducer
- Develop database for R&D's use of anonymized patient data (i.e., CT, Echo data)
- Collaborate with Clinical team on an ongoing basis (i.e. patient screening, pre-procedural planning)
- Evaluate and provide training tools, resources for physicians and implant sites as needed
- Participate in usability studies, write internal protocols/reports and coordinate external evaluations of product used in the field
- Statistical analysis of patient data for incorporation into existing product validation and/or new product development
- Lead preclinical animal evaluations, cadaveric studies to evaluate product safety and performance.
- Maintain status of intellectual property filings and be the "point of contact" for the external legal counsel.
- Some travel would be required for this role

Qualifications

Education:

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

Experience:

- Working experience (≥ 8 years) in the medical device industry (cardiovascular a strong plus)

Skills:

- Extensive understanding of the heart and cardiovascular system anatomy
- Experience working directly with physicians in a clinical setting
- Strong understanding of & experience interpreting various medical imaging modalities (fluoroscopy, ECHO, and CT). Experience using software to evaluate patient data considered an asset (i.e. 3Mensio, Sante Soft)
- Strong understanding of Design Validation
- Ability to handle ambiguity
- Strong computer skills (e.g., Microsoft Software, Adobe, etc.)
- Ability to prioritize and handle numerous tasks on multiple projects
- Strong communication and organizational skills (upward/downward through the organization and cross functionally)
- Strong technical writing skill set
- Knowledge of CAD software programs such as Solidworks a plus
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PLEASE NOTE THAT ONLY CANDIDATES LOCAL TO THE **TWIN CITIES / NEW BRIGHTON, MN** AREA WILL BE CONSIDERED.