

**CSA MEDICAL, INC.**  
**Principal Research & Development Engineer**

**Position Description**

Responsible for the design and development of catheters and disposable accessories including materials, components and assemblies for state-of-the-art cryogenic therapy medical device products for the treatment of lesions and disease in the body.

**Areas of Primary Responsibility**

- Function as the technical lead on projects of considerable complexity that encompass multiple engineering disciplines
- Initiate technical investigations and prepare technical reports with findings and recommendations, including definition of project requirements and strategy for catheter development
- Prepare design specifications, analyses, and recommendations for presentation and approval; research, design, develop, document, test and evaluate complex technical and process issues
- Design products with particular attention to customer needs, material selection and specification, usability, cost of goods and design for manufacturability
- Provide technical leadership and expertise to the engineering group, acting as a mentor to lower level engineers
- Provide significant contributions to new product development, including patents, technical papers and presentations
- Stay abreast of new technical developments in the field of materials, catheter technology and medical device design
- Research and development of extrusions, bonding, balloon and other catheter technologies
- Apply advanced engineering theories, methods and research techniques including both computational and practical approaches to design and solutions of complex and advanced technical problems
- Work with R&D Managers and Project Managers to develop detailed project schedules and project budget

**Functional Expertise:**

- Product Development engineering with strong specification, design, development and production expertise required
- Expertise developing characterization and test methods for selection, verification and validation of new materials
- Experience with DFM (Design for Manufacturability) techniques to achieve high yield, low cost and high reliability products
- Experience with 3D design (SolidWorks), GD&T techniques, statistical methods, LEAN/6-sigma techniques
- Writing reports and is able to present to a range of technical and non-technical audiences
- Strong computational and analytical thinking with a desire to learn and utilize modeling simulations
- Experience in a variety of manufacturing methods including extrusions, injection molding, machining, plating, stamping, staking, and welding

## Qualifications & Competencies

- Bachelor's plus a minimum of 10 years relevant experience; or Master's plus a minimum of 8 years relevant experience; or PhD plus a minimum of 5 years of relevant experience;
- Education in engineering, scientific or technical discipline required; medical device experience is required
- Engineering and leadership competencies demonstrated through individual performance and by contributing through others
- Willingness to utilize a hands-on approach that includes prototyping, building, modeling, testing etc.
- Must be a self-starter with the ability to work alone or within a group
- Use independent judgment to assess project technical status and determine the means to overcome technical problems and team conflicts
- Must be able to multi-task, meet tight deadlines and prioritize changing demands in a fast-paced, entrepreneurial environment
- Energetic, enthusiastic, enjoys the challenge of creative design problem
- Ability to lead small project teams toward a common goal
- Experienced with FDA QSR and ISO MDD and IEC/UL Safety Standards

CSA Medical® is a privately-held, venture-funded company based in Lexington, Massachusetts. Our team consists of highly-skilled professionals who work together to enable customers to advance patient care through innovative spray cryotherapy devices. Our work environment is highly collaborative and our employees drive CSA Medical's friendly, fast-paced and energetic environment. We offer an excellent benefits package and an engaging, small, entrepreneurial environment, which allows individuals to contribute, learn, grow and develop. We are always looking for motivated individuals who are interested in growth opportunities to join our vibrant team.

*CSA Medical, Inc. is an equal opportunity employer*

### ***How to Apply:***

Submit your resume and cover letter to [careers@csamedical.com](mailto:careers@csamedical.com)