EMPLOYEE POSITION DESCRIPTION

Job Title: Principal Mechanical Engineer	Department: Research & Development
☒ Exempt	☐ Nonexempt

Position Description:

The Principal Mechanical Engineer will play a critical role in the design & development of new medical devices. Compiles and analyzes operational, test, and research data to establish technical specifications for designing or modifying products, processes, and materials. Develops new products while interfacing with customers, vendors, and internal departments to achieve the desired product specifications. The goal is to develop products that meet the end users' expectations. Success in this position relies heavily on effective documentation, meeting dates and maintaining accountability while using experience and judgment to develop products and meet goals with minimal supervision.

Principal Responsibilities:

The Principal Mechanical Engineer is a key position in the R&D organization. Primary responsibilities include:

- Successfully completes complex engineering work in one or more of the following: technology development, product design and development, test of materials or products, preparation of specifications, process study, research investigation (animal and clinical studies), and report preparation.
- Consistently generates innovative and unique solutions to market needs and submits idea disclosures. Work is expected to result in the development of new products or processes.
- Selects techniques to solve complex problems and make sound design recommendations.
- Summarizes, analyzes, and draws conclusions from complex test results.
- Designs and prepares complex reports to communicate results to technical community.
- Designs and coordinates complex engineering tests and experiments.
- Coordinates, manages, and documents project goals and progress and recommends appropriate revisions.
- Assesses the feasibility and soundness of proposed engineering evaluation tests, products, or equipment.
- Interfaces with Physicians & Medical personnel to obtain feedback on concepts and performance of new devices.
- Translates customer needs into product requirements and design specifications.
- Responsible for engineering documentation.
- Works cooperatively with process development, quality, manufacturing, regulatory, clinical, and marketing on complex projects to ensure project success.
- May train, mentor and/or provide work direction to technicians and entry-level engineers.

The above statements are intended to describe the general nature and level of work being performed. They are not intended to be construed as an exhaustive list of all job responsibilities and duties.

Qualifications, Education & Experience:

- BS in Electromechanical, Mechanical Engineering or related field.
- Experience using CAD software - SolidWorks preferred.
- 10+ years of product development experience in the medical device industry.
- Solid understanding of Design and PDP process and experience working under ISO 13485:2016 and 9001:2015 requirements.

Must Have:

- Outstanding integrity, character, and trustworthiness; demonstrated evidence of leadership, creativity, adaptability, determination, perseverance, and excellent communication.
- Ability to work in a collaborative team environment.
- 10 years related experience, preferably in a medical device development company.

Nice to Have:

- Experience in packaging design, sterilization, and biocompatibility.
- Experience conducting finite element analysis.
- Experience using statistical software such as SAS, JMP or Minitab to conduct sample size calculations and data analysis.
- Experience working on a cross-functional team.
- Electromechanical design experience.

Also, Desirable:

- Strong physician contacts in Urology or related fields.
- Strong medical/scientific experience in Urology or Cancer-related fields and background in physiology or life sciences.

Working Conditions:

- Light work, exerting up to 20 lbs. of force or less.
- Stand and/or sit for 8 hours per day.

Competitive salary and benefits package.

To apply: Submit your resume to hr@francismedical.com

Company Overview:

Francis Medical is committed to developing urological cancer treatments that are tough on cancer and gentle on patients, with a compassionate belief that minimally invasive therapies can effectively treat cancerous tissue. The company's foundation is a tribute to and legacy of the inventor's father, Francis Hoey, who endured prostate cancer treatments that had harsh implications on his everyday life before he died from the disease in 1991. Unfortunately, current prostate cancer treatments which come with side effects like urinary incontinence and erectile dysfunction, are not much different than what Francis Hoey encountered. In contrast, water vapor technology applies the thermal energy stored in sterile water vapor to cancerous tissue via a simple transurethral procedure, potentially minimizing life-altering side effects.

Headquartered in Maple Grove, Minnesota, Francis Medical is a spin-off of NxThera, a BPH company purchased by Boston Scientific in 2018. Francis Medical closed on a $55-million Series B round of funding in September 2021, bringing the total equity investment raised to date to $80 million. The company currently employs 24 people. The work environment is casual, high-energy, and collaborative, with the shared vision of making a difference in the lives of millions of men. More information on Francis Medical can be found at www.francismedical.com.