



Electrical Engineer II - Symple Surgical

Category Engineering

Business Funded Mid-stage start-up

Division Symple Surgical

Location USA-CA- Bay Area, Sacramento

Relocation Local Talent

Job Type Full Time – Regular, Equity Eligible

Exempt/Non-Exempt Exempt

Shift First

Travel Percentage 10%

Experience Required 4-7 years

Education Required Bachelor of Science, Electrical Engineering

Symple Surgical is an Equal Opportunity/Affirmative Action Employer

Position Description:

Design & development of innovative Microwave based medical devices operating in a startup organization and interfacing with cross functional departments to meet program objectives and milestones.

Position Responsibilities:

- Contribute for Microwave system development (Generator, control system, disposable) in collaboration with colleagues and OEM vendors.
- Complete projects in an aggressive manner consistent with corporate objectives. Actively participate in determining day-to-day tasks and work toward multidisciplinary timeline toward completion of First-in-Man study.
- Work closely with other engineering team members to design and develop next-generation prototypes, including providing support for bench modeling and preclinical evaluations of new designs.
- Ensure designs meet and exceed product specifications, regulatory requirements, and international safety standards such as IEC 60601-1 and IEC 62304
- Support preclinical animal studies and clinical data management
- Conduct testing utilizing appropriate methodology and other experimental design tools
- Generate accurate and thorough test protocols and reports
- Write technical protocols/reports and other design control documentation in support of regulatory submissions and international safety standards compliance
- Contribute to the intellectual property position of the company via invention and patent disclosures
- Maintain a comprehensive and accurate laboratory notebook, documenting of concepts, designs, drawings, and processes
- Maintain current knowledge of competitive technologies in addition to medical, technical, and biomedical developments related to companies products
- Maintain current knowledge of process and design safety standards applicable to companies products



- Provide sustaining engineering and technical support of products introduced into both the domestic and international markets
- Provide support in the resolution of product complaints and/or safety issues
- Fully embody and actively promote Symple Surgical's Core Principles & Quality Policy

Basic Qualifications:

MINIMUM EDUCATION AND YEARS OF EXPERIENCE:

- 4-7 years with Bachelors
- 2-4 years with Masters

EDUCATION REQUIREMENTS:

- BS/MS/ Engineering; Electrical, Computer/Software, or Biomedical Engineering with electrical engineering focus preferred; Mechanical Engineer or Biomedical with mechanical engineering focus, if experience demonstrates proficiency in hardware/software development

OTHER QUALIFICATIONS:

- Values consistent with Symple Surgical's startup environment and Core Principles
- Highly motivated hands-on engineer with a proven record of meeting timelines and goals
- Must have a fundamental understanding of Radio Frequency and Microwave Energy Spectrum with knowledge of application to thermal therapies
- Must possess strong analytical and problem solving skills
- Hardware and/or software development knowledge, including V&V activities and direct V&V protocol development
- Experience in electrical and/or computer engineering demonstrating the ability to apply general principles of physics and engineering to solve complex medical and engineering problems
- Working knowledge of C and object-oriented programming (Java, C++, etc.) preferred
- Working knowledge of LABView, Matlab, and/or other scripting languages (e.g., Python, PERL, etc.) preferred
- Working knowledge of Quality System standards & regulations, Quality Assurance, Regulatory Affairs & Clinical Affairs
- Familiarity with IEC 60601, IEC 62304 and other relevant medical device standards
- Proficient with Microsoft Excel, Word, PowerPoint, & Project
- Project management experience preferred demonstrating ability to work in a diverse team environment
- Familiarity with HFSS, ANSYS, COMSOL Electrical/Thermal Analysis software preferred
- Familiarity with analog and digital design and development preferred
- Familiarity with embedded microprocessor controlled equipment design and development preferred