



Startup: Mesh Suture Inc., dba MSi

Startup Website: <https://meshsuture.com/>

Startup Description:

Mesh Suture Inc. is a surgeon-founded commercial-stage medical device company whose singular focus is to eliminate one of surgery's most common, yet avoidable, problems – failed tissue repairs consequent to suture pull-through. Our proprietary suture technology was invented and developed by our surgeon-founder, a double-board certified surgeon and Professor of Surgery at Northwestern University Feinberg School of Medicine. This innovation in the world of surgical sutures is the creative outgrowth of more than 25 years of treating abdominal wall and tendon surgical complications caused by standard sutures in the fields of Reconstructive Surgery, General Surgery and Orthopedics.

Project Title:

Sustaining Engineering and Product Development Engineering Internship

Project Description:

An engineering student's dream hands-on internship!

Join us at our new Research & Development facility in Chicago's West Loop neighborhood and assist MSi's Engineering team in conducting sustaining engineering projects for our existing medical device product line and performing feasibility studies for a new medical device product line.

Project Expectations:

- Assuming a supporting role in product development efforts under the Engineering Team's guidance and in accordance with local design control procedures to assure successful completion of early new product lifecycle phases, including:
 - Drafting key product requirements for new products with input from leadership team and experienced stakeholders.
 - Drafting product specifications including design, performance, and quality requirements.
- Assuming a supporting role in sustaining engineering activities including Design Of Experiments (DOE's) - Execute experiment protocols, generate data, draft reports and collaborate with engineering team to incorporate redlines and deliver final DOE reports.



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Desired Candidate Experience:

Qualifications

- Current Junior or Senior in biomedical or mechanical engineering preferred
- Ability to work on multiple complex tasks, set priorities and manage tasks to completion.
- Proficiency in Microsoft Office, Word, and Excel. SolidWorks experience preferred.
- Knowledge of statistical methods and tools.
- Strong problem solver and collaborator.

Working Conditions

- Work conditions are normal for a laboratory environment.

Physical requirements

- Ability to stand for extended periods of time when working in a manufacturing environment

Training & Mentoring Opportunities:

This summer internship offers a hands-on training and mentoring experience at a fast-paced medical device startup, combining sustaining engineering and product development engineering exposure. The intern will work one-on-one with our Product Development Engineer in a research and development laboratory environment, receiving direct mentorship and real-world insight into the medical device development lifecycle.

The MSi intern will play a supporting role in new product development efforts, assisting with the drafting of key product requirements and detailed product specifications, including design, performance, and quality requirements. This role provides practical experience translating user needs and engineering concepts into structured technical documentation aligned with regulatory and quality expectations.

In addition, the MSi intern will support sustaining engineering activities, contributing to the design of experiments (DOE), execution of experimental protocols, data generation, data analysis, drafting technical reports and collaborating closely with the engineering team to incorporate feedback, redlines, and revisions into finalized DOE deliverables. Through this experience, the intern will gain exposure to cross-functional collaboration, data-driven decision-making, and the iterative nature of engineering in a regulated medical device late-stage startup environment.