

## **Job Description: Nitinol Devices Engineer**

### **ROLE AND PERSON**

A Nitinol Devices Engineer is required to support Aran Biomedical's world-class Biomaterial Design & Development team through a phase of rapid expansion and growth due to new business activities. This position will report to the Textiles Program Manager and will be responsible for supporting all aspects of device design and development. The role will require a candidate with the ability to mix a scientific approach to Nitinol device design with a hands-on approach to the process development and prototyping of novel Nitinol based devices for our clients in the vascular implant sector. The range of projects that the role will support will be diverse, and the technical solutions developed will be innovative and present an opportunity to acquire significant skills in the development of Biomaterial based Medical Devices.

### **PRINCIPLE RESPONSIBILITIES/DUTIES**

Primary job responsibilities will include:

- Support the customer engagement process in the delivery of Nitinol based solutions to Aran Biomedical's customers.
- Design and develop innovative design and process solutions to meet customer needs. This will include CAD & FEA modelling of devices, material properties design and process development for prototype builds.
- Develop new and existing manufacturing processes for the production of Nitinol based implants and devices, including braiding, wire forming, laser processing, heat setting and electropolishing.
- Build and enhance Aran Biomedical's intellectual property portfolio in device design and process technology know-how.
- Keep organised records and provide technical reports as needed.
- Document device designs and novel assembly processes in Laboratory notebooks with full traceability.
- Ensure strict adherence to relevant safety procedures.

### **DESIRABLE SKILLS & QUALITIES**

The successful candidate will have a mechanical/industrial design engineering background, a keen eye for detail and a willingness to acquire new skills and learn on a daily basis. Key skills and experience include:

- Honours Degree in Engineering with 5-8 years of relevant industrial experience.
- Proficient in SolidWorks, AutoCad and similar 3D Modelling software. Knowledge of FEA modelling of implants a distinct advantage.
- Experience in the medical device industry or similar highly regulated environment an advantage.
- Knowledge of Nitinol forming technologies essential.
- Understanding of Design Control processes and ISO requirements is preferred.
- Must be able to communicate effectively and keep detailed documentation.