

Implant Development Scientist



THE COMPANY

Orthoson span out from the University of Oxford in mid 2016, to develop a novel surgical spine procedure using injected, then ultrasound cavitated particles to perform minimally invasive surgery down a needle. The company's method for intervertebral disc repair will meet a major unmet need by creating a minimally-invasive alternative to highly-invasive spinal fusion and disc replacement procedures.

The product is a complex class III medical device including a high intensity therapeutic ultrasound

THE ROLE

The position of Implant Development Scientist involves performing practical laboratory work required for the design and development of the OrthoSon nucleus pulposus replacement hydrogel. This is a varied role and examples of duties are;

- Synthesis and mechanical testing of hydrogel samples
- Synthesis and characterisation of SonoSensitive particles
- Development of laboratory test procedures
- Documentation of results
- Laboratory maintenance

Listed below are the major responsibilities of the role and a brief description of some of the key tasks to be performed. This list is not exhaustive, and the person will be expected to be flexible toward working in a hands-on, small-team environment.

MAIN RESPONSIBILITIES & KEY TASKS

This list is not exhaustive and the successful candidate will be expected to be flexible in working in a hands-on, small-team environment.

Hydrogel formulation and testing

- Mixing of hazardous chemical reagents under inert atmosphere, casting and curing to produce test samples
- Mechanical testing of samples to determine physical properties
- Development and testing of delivery device combinations

SonoSensitive particle synthesis

- Carry out batch synthesis of polymeric SonoSensitive particles with synthesis optimisation if required
- Characterisation of particles to ensure batches meet specification
- Assist with GMP technical transfer and scale-up if required

Laboratory duties



- Perform routine equipment testing and calibration, update maintenance records, ensure lab cleanliness
- Be responsible for implementation and maintenance of laboratory 5S standards
- Creation of standard operating procedures, analytical methods, installation/ operational qualifications for equipment and preventative maintenance procedures
- Preparation of biological specimens for testing and analysis

SKILLS & EXPERIENCE

The Implant development scientist must be able to;

- Strong technical skills with a hands-on approach
- Good interpersonal and teamwork skills
- A methodical, logical approach to problem solving
- Good written and oral communication skills
- An enthusiasm to learn and develop new skills outside of their academic education

The Implant Development Scientist will have experience in:

- B.Sc. Chemistry (or similar) – (essential)
- Laboratory experience – (essential)
- Experience working in medical device development – (desirable)
- Experience working in an ISO 13485 or ISO 9001 environment – (desirable)

QUALIFICATIONS

- The Implant development scientist will have;
- A degree in Chemistry, Materials science or similar

WHAT WE OFFER IN RETURN

- A competitive salary, commensurate with qualifications and experience.
- Private Medical Insurance, death in service insurance and income protection in addition to enhanced annual leave of 25 days plus statutory
- The opportunity to work in a dynamic and rapidly growing team.

To apply please send your CV, together with a covering letter noting salary expectation to: martin.gardener@orthoson.com. You will be contacted if we would like to consider you for this role. All applications are considered on their own merit.

For more information on OrthoSon Ltd please see our [web site](#).

NO AGENCIES PLEASE

Applicants should be aware that this role will involve surgical device and biological tissue experiments.