



Job Description: Manufacturing Design Engineer (Contract)

Company: Vitalis Ortho

Location: Paddington, London (with travel requirements)

Role Type: 12–18 Month Fixed-Term Contract (As-needed basis)

The Vision

At **Vitalis Ortho**, we are on a mission to reverse osteoarthritis by activating the body's natural healing potential. We are developing a proprietary, temporary mechanical implant designed to induce cartilage regeneration, addressing a significant global market.

We are looking for a precision-oriented **Manufacturing Design Engineer** to join us for a critical 12-18 month period on a part-time basis. You will support the transition of our technology through three major design iterations, leading DFM reviews, producing engineering drawings, and ensuring each iteration is production-ready. You'll work closely with our core team, translating concepts into manufacturable designs that meet our quality and cost targets.

The Role

This is a temporary, "as-needed" contract role focused on the intersection of design refinement and production excellence. You will be responsible for taking R&D concepts and turning them into robust manufacturing packages. You will work through three iterative cycles: taking testing feedback, refining technical drawings, and managing the relationship with our production partners to ensure quality is never compromised.

Key Responsibilities

- **Technical Documentation:** Develop comprehensive manufacturing drawings, including GD&T (Geometric Dimensioning and Tolerancing), ensuring all requirements are clearly defined for the manufacturer.
- **Iterative Design Support:** Support the core engineering team through three distinct product iterations, updating manufacturing specifications based on lab and clinical testing results.
- **Manufacturer Liaison:** Act as the primary technical point of contact for suppliers and manufacturers; communicate complex requirements and resolve production issues to maintain strict quality standards.



- **Quality Assurance:** Define inspection criteria and critical tolerances to ensure every batch meets medical-grade specifications.
- **Process Optimisation:** Advise on material selection and machining/manufacturing processes to improve yield and reduce lead times.

About You

You are a seasoned designer with a "quality-first" mindset and a track record of delivering flawless technical packages to high-precision manufacturers.

Required Qualifications & Skills

- **Manufacturing Expertise:** Extensive experience in developing production-ready drawings for high-precision components (preferably in medical devices or regulated industries).
- **Communication:** Exceptional ability to communicate technical requirements to manufacturers, ensuring zero ambiguity in production.
- **CAD/PLM Proficiency:** Expert-level skills in Autodesk Fusion, with a focus on drafting standards and version control.
- **Resourcefulness:** Ability to work efficiently on a flexible, as-needed basis while maintaining a deep understanding of the project's evolution.

Desirable Attributes

- **Medical Device Background:** Familiarity with ISO 13485 standards and the requirements for surgical-grade instruments or implants.
- **Academic Background:** Degree in Mechanical Engineering or a related technical field. A background in advanced manufacturing techniques or materials science.

Why Vitalis Ortho?

- **Direct Impact:** Play a pivotal role in the physical realisation of a device that will prevent unnecessary major surgeries for thousands of patients.
- **Dynamic Environment:** Work alongside a highly experienced founding team with a track record of successful exits in a high-growth startup culture.
- **Expert Collaboration:** Join a world-class group of clinical and scientific advisors at the forefront of regenerative medicine.

Contract Details

- **Duration:** 12-18 months.
- **Scope:** Supporting 3 major product iterations following testing phases.
- **Availability:** Flexible, as-needed basis (to be agreed upon at the start of each iteration).
- **Compensation:** Competitive contract rates, reflecting top-tier expertise.



How to Apply

Please submit your CV and a portfolio of work (redacted where necessary for IP), to management@vitalisortho.com, that demonstrates:

1. **Production-Ready Engineering:** Examples of complex manufacturing drawings featuring strict GD&T controls and tight tolerances.
2. **Scalability & Repeatability:** A brief description of how you have designed for scalable production and ensured repeatable quality across multiple manufacturing batches.
3. **Manufacturer Management:** A summary of your experience in communicating and enforcing these requirements with external production partners.