

Job Title: Principle Design Engineer

Company Overview – About Avectas

Avectas is a privately-owned cell engineering technology business, based in Dublin, Ireland, focused on improving the cost, manufacture and patient outcomes for the next generation of cellular therapies. Avectas is developing a unique cell engineering platform, SOLUPORE™, to enable the ex-vivo manufacture of gene modified cell therapy products. SOLUPORE™ produces superior results related to the delivery of molecular cargo and related to improved potency over other delivery technologies. In addition, the technology will facilitate multiple gene edits and is cost-effective and scalable. Avectas is currently developing the clinical (cGMP) technology embodiment while enhancing its dataset, implementing its commercialization strategy and building out the team.

This role is a unique opportunity at a development-stage company, with field-leading advisors, and a highly experienced technical/operational team. You will help us to continue to build a transparent and successful organisation focused on delivering our SOLUPORE™ cell engineering platform for the next generation of cell and gene therapies.

Role Overview

We are looking for a talented, experienced Principle Engineer (Design) to join our team as a key contributor to Technical Operations supporting our internal and external Cell Therapy programs. As a Principle Engineer at Avectas, you will have a key program-based role.

Reporting directly to the Snr. Director of Technical Operations the Principle Engineer (Design) will provide high quality engineering and design support to the Technical Operations team. The ideal candidate will be action-oriented and a key team member with a strong understanding of design engineering space.

Location

Maynooth, Co. Kildare (flexible work options available).

Job Title:	Principle Design Engineer	Travel Required: (%)	Up to - 50 %
Department/Group:	Technical Operations	Position Type:	Full Time Contract
Location:	Maynooth, Co. Kildare	Date:	26 th Jun 2020
Level:	5 of 8		
Line Manager:	Snr. Dir. Technical Operations		

Job Description

Role and Responsibilities

Responsibilities will also include, but are not limited to, the following:

- Lead the technical and engineering aspects projects with external development and manufacturing partners ranging from prototyping runs to commercial scale manufacture.
- Design and develop solutions for challenges across the spectrum of Avectas technologies and incorporate existing knowledge from Avectas into appropriate aspects of design.
- Translate Avectas requirements into specifications and ensure appropriate stress testing of design solutions for breadth of application and robustness.
- Build compliance in early to designs. This includes compliance with typical electrical, mechanical, automation and regulatory standards for multiple geographies.
- Represent Avectas in design decisions and ensure all designs and solution consider “design for manufacture”. Providing technical guidance on all areas of design.
- Be the primary liaison on engineering and design projects between Avectas Technical Operations and external partners
- Own project deliverables and work packages and work in tandem with Project and Vendor Management to ensure delivery on time, in full and on budget.
- Develop and/or approve manuals, SOP’s, design briefs, technical reports, test strategies, test protocols, specifications etc, on behalf of Avectas.
- Where appropriate participate in execution of any required testing at Avectas or appropriate external partner site. This may include designing and building, where appropriate, proof of concept equipment and parts.
- Identifying suppliers for materials, components and subassemblies as required.
- Supporting qualification of new suppliers or partners including on-site visits and supplier audits if required.
- Support and enhance the design documentation process at Avectas and ensure appropriate level of documentation is supported by and transferred from external partners.
- Operate in a team environment, assume leadership roles in cross functional teams. The successful candidate will function well with all members of our team. Must act as a coach to existing Avectas teams.
- Provide timely, accurate and concise summaries and project reviews to Snr. Director Technical operations and the Senior Leadership Team.
- Maintain constant watch on progress against milestones and goal in external projects and course correct where appropriate. Present solutions and recommended prioritisation approaches where required.

Experience includes but is not limited to:

- 7- 10 year + experience in industry, 3+ years in Medical Devices, Pharmaceuticals or Biotech alternatively experience in other highly regulated industry.
- Ideally 1-2 years in Senior Engineer roles .

- Demonstrated history of leading projects with internal and external team members
- Excellent communication skills and written and oral.
- Minimum: Degree level qualification in Product/Mechanical/Manufacturing/Biomedical Engineering or other related discipline.
- Lean, Agile or Scum qualifications an advantage
- Experience with Solid Edge design software

Skills/Knowledge/Experience Required:

- A highly talented engineer with a desire to learn about the next generation of medicine.
- Creative individual who can develop product solutions lead implementation of solutions
- Knowledge of 3D printing, Injection molding, prototyping and design for manufacture
- Self-starter capable of identifying opportunities
- Knowledge atomization or spraying
- Familiarity with GMP and regulatory processes

Prepared By:	Alan Pearson	Date:	27 th Jun 2020
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