



## **Job Title: Cell & Gene Therapy Research Associate**

### **Company Overview – About Avectas**

Avectas is an Irish, privately-owned cell engineering technology business currently building out its North American footprint. We are 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, who are focused on building out their footprint in North America. Avectas is supported 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 seeking for a motivated Research Associate to join an exciting, fast growing company to develop and optimize a non-viral, cell engineering technology. The successful candidate will be a key member of the Scientific team while under the broader umbrella of the Technical Operations team, they will be in close collaboration with both the Process Development and the Engineering team, supporting the development of the SOLUPORE technology. This role reports to the Senior Scientist of Cell and Gene Therapy.

### **Location**

MaRS Discovery District, 13<sup>th</sup> Floor West Tower

<b>Job Title:</b>	Research Associate	<b>Travel Required (%):</b>	Up to 10 travel*
<b>Department/Group:</b>	Technical Operations	<b>Position Type:</b>	Permanent
<b>Location:</b>	MaRS Discovery District, 13 <sup>th</sup> floor West Tower	<b>Date:</b>	April 5 <sup>th</sup> , 2021
<b>Level:</b>	3	*Travel will be required up to 10% of the time to conduct work at the Ireland-Avectas site once COVID-restrictions lift.	
<b>Line Manager:</b>	Senior Scientist, Cell & Gene Therapy		

## Job Description

### Role and Responsibilities

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

- Support research activities including design, execution, statistical data analysis and interpretation of scientific experiments
- Analyze and translate research results into key conclusions linked to experiment deliverables
- Author and review SOPs, study protocols, reports and other scientific and quality documents
- Collect and analyze data from various assays, track and trend data to support specifications for critical process controls
- Support technology transfer activities between Avectas sites and partner sites
- Engage in all required Departmental meetings and working closely with cross-functional teams
- Support site development and expansion with lab operations, biosafety, procurement, and lab organization
- The role will require flexibility to travel to sites in Canada/US/Europe

### Skills/Knowledge/Experience Required

#### Qualifications & Experience

The successful candidate must be self-motivated and a team player. Must be highly motivated and able to deliver on defined timelines, in collaboration with colleagues. The role requires excellent troubleshooting skills, creative thinking and deep understanding of the principles of experiment design and statistical analysis.

- At a minimum, a M.Sc in Biotechnology, Bioengineering, Biomedical Engineering, Biology or related fields
- Minimum of two years of relevant experience - Industry experience is an advantage
- A proven ability to be highly productive and successful in a high pace work environment
- Excellent attention to detail and meticulous bench work with a solid understanding of aseptic techniques and technologies in cell culture
- Experienced with plate and cell-based assays including techniques such as molecular biology, digital and quantitative PCR, NGS, western blotting, and ELISA
- Demonstrated competency in flow cytometry panel development, execution and data analysis software (e.g. FlowJo)
- Understanding of basic statistical analyses and commonly used statistical software

- Excellent organization skills: planning and task management including prioritization, creating and keeping deadlines
- Experience in reporting experiment results in concise and clear presentations and reports

**Desirable Skills**

- Experience with viral and non-viral genome engineering methods
- Experience with DoE and Multivariate statistical analysis
- Prior experience culturing and editing primary immune cells and iPSCs
- Experience in process analytical development and familiarity with QC release assays
- Experience of upstream and downstream bioprocessing, ATMP manufacturing and/or process development environment
- Experience/understanding of operating within a Good Manufacturing Practice (GMP) environment
- Practical understanding of qualification and/or validation of analytical assays (e.g. to GLP or GMP regulations) and familiarity with Good Documentation Practices

**Skill and Competencies**

- Good problem-solving skills and logical approach to solving scientific problems
- Excellent interpersonal skills and communication skills, both verbal and written
- Work as part of a multi-disciplinary team with other scientists, engineers and manufacturing personnel

Prepared By:	Jessica Schwaber	Date:	April 5 <sup>th</sup> , 2021
--------------	------------------	-------	------------------------------

**How to Apply:**

Application should include:

- A letter of interest
- Complete curriculum vitae

All materials should be addressed to Jessica Schwaber, [jschwaber@avectas.com](mailto:jschwaber@avectas.com). This post will stay active until the position is filled. We would like to thank all applicants, but only those selected for an interview will be contacted.