

KYTOPEN

[Kytopen](#) is an MIT spinout streamlining the engineering of a wide array of human and human-derived cells for use in next-generation cell therapies, with the goal of expanding access to powerful new living medicines. We enable transformative therapies with our patent-pending continuous *Flowfect*TM cell engineering platforms. The non-viral *Flowfect*TM technology is a fast, scalable, and gentle process that yields billions of high-quality engineered cells in minutes while maintaining cell health and function. There is an immediate opening for a full-time Senior Research Scientist to accelerate the translation of this technology into multiple high value applications. The candidate will aid the Kytopen team in the evaluation of various cell types of therapeutic interest including primary immune cells (T cells, NK cells, etc.) and CD34+ Hematopoietic Stem Cells (HSCs), that will benefit from this cell engineering technology. This position requires extensive experience in human HSC biology, *ex vivo* cell culture, and both viral as well as non-viral biomolecule delivery, and primary human cell genetic manipulation. Technical expertise in development of HSCs based cell therapies a plus.

Responsibilities and Duties

The successful candidate is expected to perform and excel in the following areas:

- Development of the proprietary *Flowfect*TM Array and *Flowfect*TM Tx platforms
- Utilize the *Flowfect*TM technology to deliver molecules to HSCs and immune cells
- Perform *ex vivo/in vitro* cellular assays with an emphasis on flow cytometry and ELISA
- Lead scientific efforts in collaboration with partners utilizing the *Flowfect*TM technology
- Excellent laboratory approach, adherence to protocol, and meticulous lab documentation
- Analyze and interpret data and generate high-quality experimental reports

Qualifications and Skills

The ideal candidate will possess a Ph.D. in Biology, Immunology, or a related field with 3+ years of industry experience developing cell therapies or technologies that support cell therapies.

Requirements

- Scientifically motivated with the ability to design, conduct, and analyze experiments
- Expertise in human HSC and immune cell biology, including *ex vivo* culture and genetic manipulation
- Viral and non-viral biomolecule delivery into HSCs
- Gene editing of stem cells via current technologies (e.g. CRISPR, TALENs)
- Ability to perform CRISPR screens with downstream functional assays
- Experience in multi-parameter flow cytometry, immunological assays, and cell culture
- Functional characterization of differentiated stem cells
- Entrepreneurial and comfortable in a fast-paced environment
- Strong organizational skills and record keeping abilities
- Strong written and verbal communication skills
- Self-motivated and collaborative, with excellent time management

Preferred

- Track record of platform development and technological innovation
- Experience managing small research teams

Please send a cover letter and CV to jobs@kytopen.com to apply, use the subject line “Senior Research Scientist – YOURLASTNAME”. Local candidates only please.