

RESEARCH INTERN

MediSix Therapeutics is a preclinical immune cell engineering company dedicated to developing novel T cell therapies for T cell malignancies and autoimmune diseases. At MediSix, our Mission is to develop effective T cell therapies by leveraging an array of proprietary technologies that improve and expand T cell function. Our technology platforms originate from world expert in translational immunology, Professor Dario Campana, MD, PhD, a physician scientist who pioneered chimeric antigen receptor T cell (CAR-T) biology. MediSix is using these ground-breaking technologies to develop T cell therapies against challenging indications with great unmet clinical need. For more information, please visit <https://medisixtx.com/>.

INTERNSHIP DESCRIPTION

We are seeking highly motivated individuals to participate in exciting internship opportunities with our Discovery team, for a 5 to 6-month period beginning in July 2023. The ideal candidate is organized and detail-oriented, able to proactively source and assimilate information quickly, and works well in a team.

Throughout the internship, you will be guided by our experienced research scientists/associates in designing and conducting experiments. You will have the opportunity to contribute directly to project outcomes and drug discovery pipelines, as well as experience a team-oriented, fast-paced, and dynamic working environment in an industry research setting.

Project title: Next generation CAR-T cell therapies

Available projects:

Project 1

This project aims to develop a novel technology platform for engineering T cells to create groundbreaking cell therapies against cancer. Using a high throughput screen, you will identify and experimentally validate new candidates for desired therapeutic characteristics.

Project 2

This project aims to develop “off-the-shelf” allogeneic T cell therapies to treat cancer. Using our proprietary T cell engineering platform, you will acquire hands-on experience from bench-scale manufacturing to the preclinical validation of allogeneic CAR-T cell products.

Project 3

This project aims to develop T cell therapies against autoimmune diseases. Using our proprietary T cell engineering platforms, you will acquire hands-on experience in generating and characterizing therapeutic T cell candidates against various targets.

Responsibilities

- Gain background knowledge of the assigned project by reading scientific literature.
- Work closely with research scientists and research associates to understand experimental design, planning, execution and analysis.
- Learn and perform laboratory techniques required for successful execution of wet-lab experiments.
- Maintain detailed and accurate documentation of experiments in an electronic lab notebook.
- Analyze experimental data and present findings at internal meetings.
- Perform laboratory housekeeping and other duties as assigned.

Qualifications and Experience

- Pursuing a bachelor's degree in Biological Sciences or related field.
- Basic working knowledge of laboratory-based methods (for example: aseptic cell culture, molecular cloning, PCR and flow cytometry). Hands-on experience is preferred.
- Excellent written and oral communication skills.
- Strong interest in biomedical research and the biotech industry.
- Keen to learn, with a positive and proactive attitude.

Learning outcomes

At the end of the internship, you are expected to gain a basic understanding of the operation of a research laboratory in a biotechnology start-up and the process of developing a viable product for a drug discovery pipeline.

In addition, you will gain theoretical understanding and hands-on experience in various molecular and cell biology laboratory techniques, as well as develop skills in technical documentation and presentation.

MediSix Therapeutics is headquartered in Singapore with discovery research laboratories located in Biopolis. MediSix Therapeutics is committed to providing equal employment opportunities and a safe work environment free of harassment.

Please submit resume, statement of interest, academic transcript and writing sample to: yingxim@medi6tx.com. We regret to inform that only shortlisted candidates will be contacted.