

## SUMMER SCHOLARS PROJECTS

**PROJECT CATEGORY:**

Biotech

**STARTUP:**

Syenex

**CONTACT:**

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**PROJECT TITLE:**

Discovery of Novel Delivery Vector Compositions for Gene and Cell Therapies

### PROJECT DESCRIPTION

At Syenex, we aim to make CAR-T and genetically modified cell therapies better and more accessible to patients by designing, engineering, and screening novel enveloped delivery vectors. We work at the intersection of synthetic biology and gene and cell therapy to enable novel therapeutic solutions. We are seeking an intern to help develop and screen delivery vector surface compositions and genetic elements.

### JOB EXPECTATIONS:

Intern will help design and develop methods to screen novel vector compositions to increase therapeutic delivery to specific cell types. Specific tasks and responsibilities include the following:

- Molecular biology and cloning
- Mammalian cell culture
- Virus production, purification, and analysis
- Optimize viral production conditions
- Flow cytometry experimental design and analysis
- Record-keeping of protocols, data, and observations
- Communication and collaboration with the R&D team
- Data presentation at company meetings

### DESIRED EXPERIENCE:

- Current enrollment in an undergraduate program in biological sciences, biochemistry, engineering, or related field
- Molecular biology and cell culture lab experience
- Strong written and oral communication skills

**TIME COMMITMENT:**

Full-time commitment is expected; hours are flexible as needed

**TRAINING MENTORING:**

The intern will be primarily mentored by scientists at the company and will interact with everyone at the company. The intern will work with the mentor(s) to set project goals and receive hands-on training in experimental design, techniques, analysis, and presentation. The intern will have the opportunity to present experimental plans and data for feedback and discussion at R&D and company-wide meetings.