



Interns – Bioinformatics and Computational Biologist

Company Website: <https://www.excision.bio>

Where to send your cv: careers@excisionbio.com

Excision BioTherapeutics (“Excision”) is a pre-IPO biotechnology company developing novel CRISPR-based therapies to cure viral infectious diseases and improve the lives of chronically ill patients by eliminating viral genomes from infected individuals. The Company recently announced the dosing of our first participant for Phase 1/2 Trial of EBT-101 CRISPR-based therapeutic for treatment of HIV patients. Our research site is located in the Cambridge, Massachusetts area.

Job Summary and Responsibilities:

Our Discovery/R&D Bioinformatics Team is seeking two highly motivated Interns to advance our preclinical programs for infectious diseases.

Intern Opportunity: Bioinformatics

Selected candidate will support our core gene editing NGS pipelines and in-house workflows to quantify and analyze NGS data. He/she will collaborate with scientists across the organization to design studies, on-board new methods, and interpret results.

Key responsibilities include:

- Deploy new bioinformatic workflows and apply knowledge and experience to gene editing, and CRISPR biology
- Support our core next-generation sequencing (NGS) analysis pipelines
- Collaborate with our wet-lab scientists to problem-solve NGS-related issues to ensure data is accurate and reliable
- Analyze and integrate datasets from multiple sources including amplicon sequencing, hybrid capture and GUIDE-seq.
- Assist in the maintenance of data in Excision’s lab information system and external data storage backups in AWS, Sharepoint and Egnyte
- Communicate results clearly and concisely and share results with biology teams
- Use existing datasets to facilitate design and iteration of new CRISPR-related NGS experiments

Qualifications:

- Master’s degree in a quantitative discipline such as computer science, bioinformatics, biostatistics, or biology with strong quantitative background
- Applicants working towards a PhD in quantitative biosciences such as bioinformatics, genomics, computational biology, or molecular biology are preferred
- Strong quantitative background and substantial experience with bioinformatics, programming (bash and python or similar), data analysis, data management, and NGS workflows
- Familiarity with gene editing technology and tools, and DNA repair preferred.
- Fast learner, analytical thinker, creative, collaborative team-player
- Proficiency in Linux, Python and R.
- Strong interpersonal and communication skills with the ability to build collaborative relationships with our team.
- Ability to work in a fast-paced environment.
- Background in statistics is preferred.



- Previous experience in one or more of the following areas is a strong plus: CRISPR guide RNA designs, off-target assessment, next-generation sequencing AAV gene therapy, infectious diseases.

Internship Opportunity: Computational Biologist

Selected candidate will develop models to better understand the biological systems in supporting novel CRISPR gene editing therapies for infectious diseases. He/she will work closely with R&D team. Conduct analysis using computational and mathematical methods and large data sets.

Key responsibilities include:

- Develop data analysis strategies, write algorithms, and document analysis using electronic lab notebook
- Work collaboratively with wet-lab researchers to analyze data and communicate results
- Assist in the analysis of data-rich experiments
- Data visualization
- Present at internal scientific meetings

Qualifications:

- Master's degree in a quantitative discipline such as computer science, bioinformatics, biostatistics or biology with a strong quantitative background.
- Fast learner, analytical thinker, creative, collaborative team-player.
- Strong communication skills.
- Proficiency in Linux, Python and R.
- Strong interpersonal and communication skills with the ability to build open and collaborative relationships with the team.
- Ability to work in a fast-paced environment.
- Background in statistics is preferred.
- Previous experience in one or more of the following areas is a strong plus: SAS programming, AAV gene therapy, infectious diseases, CRISPR guide RNA screening, off-target assessment, next-generation sequencing.

We are an equal opportunity employer. Qualified candidates - please forward your cv, in confidence, to:
careers@excisionbio.com