

## What are Genetic Medicines?

Genetic medicines are therapies created using human cells or genetic material, such as DNA and RNA, which exist inside cells. Genetic medicines are a new class of medicine designed to address the underlying cause of a disease. Instead of treating the symptoms of a disease, we are targeting the root cause, which could potentially transform – or cure – the disease. Genetic medicines can be used to treat a range of genetic disorders, including more commonly known diseases like cancer or other rare diseases, which affect fewer than 200,000 Americans.

## Bringing Biomanufacturing to Pittsburgh

ElevateBio has partnered with the University of Pittsburgh to develop a new ElevateBio BaseCamp biomanufacturing at Hazelwood Green in Pittsburgh. This will be the area's first-of-its kind facility focused on the creation and manufacturing of cell therapies, gene therapies, and other genetic medicines to address a wide range of diseases.

Learn more about [BaseCamp](#), biomanufacturing, and what it means for the future of Pittsburgh and future of medicine.

## What are Some Types of Genetic Medicines?



### Cell Therapy

A type of medicine that uses cells to treat or prevent disease by repairing, replacing, or enhancing damaged tissues within the body. Using immune cells that are either healthy or intentionally modified for better treatment effects, cell therapy aims to harness the natural healing abilities of cells to be used as a therapy to promote better health.



### Gene Therapy

A type of medicine that introduces or alters genetic material within a person's cells to prevent or treat disease. It aims to fix or replace faulty genes, giving cells and the body new instructions to function properly.



### Gene Editing

A type of gene therapy approach that precisely edits pieces of DNA within the cell. This approach aims to add, delete, or modify specific sections of genetic code, aiming to correct genetic defects or introduce beneficial changes.

## What is Biomanufacturing?

Biomanufacturing is the creation of pharmaceuticals and vaccines using living cells, genetic materials, or biological systems, and enables the production of genetic medicines at a large scale. Biomanufacturing is focused on the creation of cell and gene therapies using a patient's cells or non-disease-causing viruses.

Over the last several decades, the promise of genetic medicines to treat or cure diseases where there are no available therapies has grown and in parallel the importance of **biomanufacturing**.



## Who is ElevateBio?

ElevateBio is a genetic medicines company applying its scientific technologies and biomanufacturing capabilities to develop medicines in partnership with other biotech and pharmaceutical companies from across the country and worldwide.

**BaseCamp Pittsburgh** is ElevateBio's 125,000 square foot biomanufacturing center to manufacture genetic medicines. Our tools, team, and resources will help bring life-transforming therapies to patients faster.

This is ElevateBio's second BaseCamp facility, with our flagship location in Waltham, Massachusetts.

## What Will BaseCamp® Bring to Pittsburgh?

### Workforce Development, including:

- More than 170 full-time jobs at BaseCamp Pittsburgh;
- Community college outreach programs to develop professionals with varying levels of education; and
- Hands-on training activities in multiple disciplines, providing opportunities for individuals changing careers and young professionals entering the job market.

Bringing biomanufacturing to Pittsburgh means a new generation of highly skilled manufacturing workers in America to fuel the future of medicine. Be part of the greater mission to transform patients' lives.