



## RNA Biochemist? Join our award-winning startup!

### *Opportunity*

See your ideas and science create impact at an award-winning and rapidly growing startup.

### *Job overview*

Engineer RNA in innovative ways to cure disease.

At Sixfold we're building a better way to deliver cures. We see the huge potential of CRISPR and CAR-T therapies being limited to how effectively they can be delivered in people. Our scientists are creative and iterate fast because they want to see what they do in the lab make a difference in the clinic.

We're seeking a highly motivated and independent RNA expert to join our team. Specifically, we are looking for skilled scientists that are passionate about engineering nucleic acids in innovative and transformative ways to cure disease. As a rapidly growing start-up, your work will make valuable contributions to the scientific and strategic direction of the company.

### **Perks**

- Highly competitive salary based on experience.
- Equity and bonus-based remuneration.
- Working on world-changing technology with leaders in the field.
- Dynamic, innovative, passionate, entrepreneurial team.
- Inclusive company culture.
- Flexible hours (outside of core hours).
- The chance to see your ideas and research make an impact in a fast-growing start-up.
- Opportunities for personal, professional and scientific development.
- Team-wide social events.

### **Requirements**

- PhD with specialisation in RNA Biochemistry/Biophysics, Molecular Biology, Chemical Engineering, Nanotechnology or equivalent scientific discipline.
- Hands-on experience in (m)RNA synthesis (at small and large scale), purification, characterisation formulation, and stability testing.
- Strong background in nucleic acid chemistry, enzymatic and chemical reactions, PCR, plasmid processing, and standard macromolecules analytical techniques.



### Extra credit

- mRNA/RNA in vivo delivery methodologies.
- mRNA translational control and RNA processing.
- Computational modelling of mRNA/RNA characteristics such as folding, stability, turnover and immunogenicity.
- Kinetic analysis of RNA degradation and experience in multiple methods to increase RNA stability.
- Expertise in analytical techniques including HPLC, LC-MS GC-MS.
- RNA aptamers and cell-based SELEX aptamer screening.

### Who you are

- Use creativity and scientific intuition for designing and undertaking experiments.
- Can work in a highly collaborative research environment.
- Drive innovative research through the internalisation of new techniques and technology, as well as forming internal and external collaborations.
- Have a desire to work in a dynamic and fast-paced environment.

### What you'll do

- Lead the development and optimisation of mRNA for therapeutic use and/or current and future RNA scaffolds for the delivery of therapeutics.
- Establish a program to enhance mRNA/RNA stability in blood and intracellularly.
- Work on the optimisation of RNA nanoparticle production.
- Design and execute robust laboratory experiments, interpret data, communicate findings, and maintain high-quality records.
- Support and contribute to publishing and grant writing efforts.

### Who we are

Located in London, Sixfold is a YCombinator and venture-backed startup. Founded by researchers from the University of Cambridge and the Francis Crick Institute, we're dedicated to expanding the potential of CRISPR and CAR-T therapies through hyper-precise delivery, so that ultimately we can cure more diseases in more people. It's why we started Sixfold – to make a difference. We work at the cutting edge of science by fostering collaborations with the world's best institutions and the sharpest minds. If you want to help cure the incurable, you belong with us.

It's important to mention that although disease affects us all, our industry still displays a huge lack of diversity – this needs to change. Our founding team is comprised of different nationalities and is 2/3rds female founders. Our goal is to create a company culture that promotes ideas and the inclusion of scientist and engineers from all backgrounds.

For more info see: <https://www.sixfold.bio/careers>

Informal enquiries email: [careers@sixfold.bio](mailto:careers@sixfold.bio)

Sixfold Bioscience

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