



**Job title:** Research Scientist, Assay Chemistry  
**Reporting to:** Principal Scientist  
**Location:** Unit DX, St Phillips, Bristol, UK  
**Hours of work:** Full time, permanent  
**Closing date:** Monday 3<sup>rd</sup> February 2020  
**Benefits package:** £30,000 - £37,000, dependent on experience  
**Expected start date:** Flexible, from April 2020

## Company profile

[Rosa Biotech](#) is redefining biosensing through its AI-driven outcome-focused approach. Our patent-pending biosensing platform has the capacity to address previously intractable challenges in early disease diagnosis and industrial biotechnology.

Our technology combines state-of-the-art peptide design with machine learning methods, building and expanding upon the pioneering work of [Professor Dek Woolfson and his team](#) within University of Bristol's Centre for Synthetic Biology – see [Woolfson \*et al.\*, Science 2014, 346, 485-488](#).

Rosa Biotech was incorporated in March 2019 and is backed by a team of experienced, high-profile business angels. These include the founders of Ziylo, the biosensing company recently [acquired by Novo Nordisk](#) for up to \$800 million, and Cramer, the systems technology company acquired by Amdocs for \$450M.

Our state-of-the-art laboratory is based at the [Unit DX](#) biosciences hub in the heart of Bristol and we maintain infrastructure access and support from the University of Bristol. Unit DX is conveniently located near Bristol Temple Meads station and is home to over 20 science-driven companies, providing a melting pot of academic researchers, startup and spinout companies, investors and support services.

## Job description

In this position you will join a team in developing Rosa Biotech's core biosensing platform for use in early commercial applications and long-term development opportunities including the analysis of human biological fluids for disease detection. We are seeking candidates with a postgraduate research experience (either through PhD or other hands-on training), and ideally with some experience of research translation or industrial R&D.

Expertise in peptide design or biosensing would be a distinct advantage for this post, and applicants from these areas are particularly encouraged to apply. However, we are keen to receive applications from ambitious and energetic individuals across the chemical, biophysical, pharmacological and biochemical sciences or bioengineering with an interest in commercialising world-leading research.

The successful applicant will join a vibrant research team that combines expertise in bioinformatics and computational design, peptide and protein chemistry, and biophysics.

## **Roles and responsibilities**

### Research responsibilities

- Carry out research in peptide chemistry and its application to biosensing.
- Develop assays and protocols for the analysis of the human biological fluids including urine and plasma.
- Write reports and collate supporting information, presenting work at company meetings, and potentially more widely.
- Execute experimental work plans, drawing on input from the rest of the team.
- Document and report all experimental work in a timely fashion.
- Assist the team to ensure procedures are developed and kept up to date.
- Build strong, positive working relationships with team members.

## **Person specifications**

### **Relevant skills & experience**

#### Essential

- Ability to execute an experimental work plan; drawing on input/advice and feedback from the team leader and wider team.
- Ability to work independently with good problem-solving skills.
- Ability to analyse, interpret and optimise experimental data, and draw conclusions.
- Ability to take accurate and reliable records of work carried out.
- Ability to liaise and communicate effectively with external collaborators.

#### Desirable

- Experience with peptide and/or protein design, synthesis, purification and characterisation using chemical synthesis or recombinant expression.
- Experience with high-throughput assays and functional assays of peptides/proteins.
- Experience with the collection, handling and analysis of biological fluids
- Experience with peptide/protein *de novo* design, engineering small-molecule binding.
- Experience with computer programming, scripting and/or machine learning.
- Experience in structural biology including visualisation and modelling.
- Experience in using electronic notebooks.
- Experience of working in a multidisciplinary team in an early stage company.
- Excellent numeracy and literacy, and computer literacy.

### **Relevant qualifications**

#### Essential

- A good honours degree (or equivalent) with subject knowledge and research experience in the relevant area.
- A postgraduate research degree (or working towards one) in the fields of chemistry, biochemistry, pharmacology, biomaterials, or bioengineering.

#### Desirable

- A first degree in the chemical or biochemical sciences or in engineering.

- A PhD in in the chemical or biochemical sciences or in engineering, involving experience of modern peptide/protein chemistry/biochemistry and biophysics/ structural biology.

### **Eligibility and expectations**

The majority of work will take place at Unit DX, Albert Road, Bristol, BS2 0XJ and the Synthetic Chemistry Building of the School of Chemistry, University of Bristol, Cantock's Close, Bristol BS8 1TS. The work may also involve short visits to other organisations in the UK and overseas, with the potential for occasional overnight stays. Non-EU residents **must** provide proof of authorisation to live and work in the UK.

At Rosa Biotech we value diversity. We are an equal opportunities employer and welcome employees who meet the requirements of the job, regardless of gender, ethnic origin, disability, age, religion or sexual orientation. You must have respect for others and a commitment and enthusiasm for high standards and continuous improvement.

### **Important information regarding your application:**

By making this application you are confirming your consent for Rosa Biotech to hold details of your application and associated personal information strictly for recruitment purposes. Rosa Biotech will keep all recruitment documentation for 12 months following the job position being filled. The successful candidates' recruitment documentation will be kept in accordance with Rosa Biotech's Internal Personal Data Policy.

If you wish for your information to be removed from our records before that date, please contact [hr@rosabio.tech](mailto:hr@rosabio.tech) stating "Personal information removal request" in the title of your email, or by writing to us at Rosa Biotech Limited, Unit DX, Albert Road, Bristol, BS2 0XJ.

### **How to apply**

To apply for this role, please send a CV and cover letter to: [hr@rosabio.tech](mailto:hr@rosabio.tech) including "Job application – Research Scientist, Assay Chemistry" in the subject line.

The deadline for application is **5pm UK time, Monday 3<sup>rd</sup> February 2020**.