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| **Job title:** | Senior Scientist – Surface Chemist |
| **Reporting to:** | Principal Scientist |
| **Location:** | Science Creates, St Philips Central, Bristol, UK |
| **Hours of work:** | Full time, permanent |
| **Closing date:** | 29/11/2021 |
| **Benefits package:** | £30,000 - £37,000, dependent on experience |
| **Expected start date:** | Flexible, from December 2021 |

## Company profile

Rosa Biotech is re-defining *in vitro* diagnostics with its innovative biosensing platform, Pandra.

We are a UK SME spun out from the University of Bristol in 2019 by world-leading expert in protein design, Prof Dek Woolfson, and Rosa's CEO, Dr Andy Boyce. We are backed by a team of experienced, high-profile business angels. These include the founders of Ziylo, the biosensing company acquired by Novo Nordisk for up to $800 million, and Cramer, the systems technology company acquired by Amdocs for $450M.

We are based in the vibrant Science Creates deep-tech ecosystem in the heart of Bristol and operate a dedicated laboratory at the St Philips incubator. Our technology combines arrays of designed barrel-forming peptides with a back-end cloud database and machine learning algorithms to create a powerful biosensor for detecting life-threatening diseases in patient samples, such as blood.

We are growing our diverse team to accelerate the development of our platform and its application in the clinic. We are looking for enthusiastic and driven team players to join us on this journey.

## Job description

This is an exciting opportunity to join a growing and vibrant research team that combines expertise in bioinformatics and computational design, peptide and protein chemistry, biotechnology, and machine learning. In this post you will work towards developing the technology that underpins our laboratory-based, liquid-phase, plate-reader assay towards a device for use in the clinic and at the bedside. This is an ambitious objective that will be cross-disciplinary and will require innovation, inventiveness, and lateral thinking. In addition, we are a small and nimble company with flexibility being highly valuable to us. As such, from time-to-time, you may be required to briefly switch to working on other projects to meet broader deadlines.

We are currently advertising to fill two Senior Scientist (Chemist) posts: Both the position advertised here; and for an Analytical Chemist. We encourage any candidates to read the description for both posts and apply as appropriate. Depending on how the recruitments process unfolds, you may be considered for either position depending on skillset and once the make-up of our entire team becomes more evident.

We are seeking exceptional candidates with a PhD in Chemistry, Physical Chemistry or a related discipline. Expertise in one or more of surface chemistry, immobilisation of biological molecules, fluorescence spectroscopy, organic chemistry, biophysics, and peptide/protein handling would be a distinct advantage, and applicants with multiple of these skillsets are encouraged to apply. We are keen to receive applications from ambitious, and energetic individuals with an interest in translating laboratory-based research into real-world applications.

## Roles and responsibilities

Research responsibilities

- Assisting with all aspects of research conducted in the laboratory as and when required.
- Keeping accurate records of experimental procedures, workflow, and data.
- Analysing and interpreting data and presenting work in a clear and concise fashion at regular company meetings and to external collaborators.
- Develop methods for the immobilisation of barrel-forming peptides onto surfaces.
- Characterise interactions between dyes (and other small molecules) and surface-immobilised barrel-forming peptides.
- Work towards a miniaturised iteration of the technology in the form of a device for use in the clinic and at the bedside.

## Person specifications

### Relevant skills & experience

Essential

- An ambitious team player who can conduct themselves in a polite, respectable, and professional manner when dealing with others
- Extensive practical laboratory experience
- Ability to formulate and execute an experimental work plan
- A demonstrable ability to innovate and think laterally
- An ability to work independently and as part of a team
- An ability to forge new collaborative partnerships and to work alongside third parties.
- Ability to take accurate records of work carried out
- Ability to liaise and communicate effectively with a wide variety of internal and external contacts.
- Excellent numeracy and literacy, and computer literacy

Desirable

- Experience in surface chemistry and/or the immobilisation of biomolecules on to surfaces
- Expertise in the synthesis or handling/analysis of fluorescent molecules
- Experience in the preparation and/or use of microfluidic devices
- Micro/Nano-scale fabrication of devices
- Biophysical analysis of peptides/proteins
- Peptide Synthesis
- A knowledge of organic chemistry and synthesis
- Microscopy
- Experience working with peptide/protein array technologies
- Experience in the development and implementation of in vitro diagnostic devices

- Experience in using electronic notebooks
- Experience of working in a multidisciplinary team in an early-stage company
- Experience of GLP, GMP and/or GCLP

## Relevant qualifications

Essential

- A PhD in chemistry or a related field.

## Eligibility and expectations

In order to qualify for this position, you **must be** authorised to live and work in the UK. If you are applying from outside of the UK, you **must** state in your cover letter your right to work status e.g., UK citizen, EU Settlement Scheme, other

Rosa has a COVID-19 risk assessment that is continuously updated to follow the latest Government and PHE advice and follow the safety restrictions of Science Creates and The University of Bristol. Most of the work is expected to take place in Rosa's dedicated laboratory space at Science Creates, St Philips Central, Albert Road, Bristol, BS2 0XJ and occasionally within Professor Dek Woolfson's laboratory located in the School of Chemistry, University of Bristol, Cantock's Close, Bristol BS8 1TS.

In line with current guidelines surrounding social distancing and working from home, the overall work pattern will be fluid and we encourage blended working for the foreseeable future. The role may also involve short visits to other organisations in the UK and abroad, with the potential for occasional overnight stays.

At Rosa Biotech, we value diversity. We are an equal opportunities employer and welcome employees who meet the job requirements, 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 confirm 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 stating "Personal information removal request" in the title of your email or by writing to us at Rosa Biotech Limited, Albert Road, Bristol, BS2 0XJ.

## How to apply

Please send your CV with a cover letter to: hr@rosabio.tech, including "Job application – Senior Scientist – Surface Chemist " in the subject line to apply for this role.

The deadline for application is 5 pm UK time, Monday 29th November 2021.