



## **Senior Scientist – Antibody Discovery**

LifeArc is a medical research charity with a 25 year legacy of helping scientists and organisations turn their research into treatments and diagnostics for patients.

We are pioneering new ways to turn great science into greater patient impact and do so by bringing together a network of partners to tackle specific diseases and by directly funding academic and early stage research.

### **Job Role and Responsibilities**

The primary job role will be to plan, implement and carry out monoclonal antibody generation campaigns and when necessary develop new technologies to facilitate this (e.g. for tackling multi-transmembrane targets). There will also be opportunities to follow the antibody generation throughout to validated therapeutic candidate depending on ability.

The job would suit an experienced, independent and driven academic post doc wanting to move to a drug discovery environment or a candidate who already has the necessary experience from a drug discovery industrial setting.

Responsibilities include:

- Design, generation and testing of relevant immunization DNA constructs
- Cell culture and stable cell line generation using methods such as lentiviral, Flp-In, BacMam, episomal and CRISPR technologies.
- Flow cytometry characterization of immune sera and antibody panels.
- Biophysical characterization of antibody panels
- Development of new in-house technologies related to antibody generation and screening
- Contribute to project plans and reports
- Analyze, summarize and present high quality data to internal project teams as well as to wide company/external collaborators
- Co-ordinate work within the BioTherapeutics Group as well as with other departments
- Key contributor to collaborative efforts toward the achievement of workgroup/team goals
- Provide clear and accurate record keeping in electronic laboratory notebooks with appropriate analysis of data

### **Qualifications**

- Ph.D. in Biological Science (Molecular Biology, Immunology, Protein Chemistry) or a related field
- At least 2 years of post-graduate experience in either an academic or industrial setting is preferred
- Strong track record of success demonstrated through publications in highly regarded journals and/or intellectual property generation is an advantage

### **Experience – must have**

- Strong experience with multicolour flow cytometry and high throughput including data analysis (e.g. FlowJo/ForeCyt/Attune NxT)
- Antibody handling experience
- Transfection of suspension/adherent cell lines and generation of cell lines – knock in/knock out
- Strong molecular biology skills
- Planning of own work according to direction given
- Great attention to detail; critical independent thinking with the ability to carry out independent troubleshooting
- Clear and accurate record keeping in lab books and project reports
- Strong motivation and team spirit with excellent communication and organisational skills
- Ability to multitask and work to deadlines
- Must have a positive and supportive attitude toward change and innovation

### **Experience – Secondary but advantageous**

- Extraction, solubilisation and stabilization of multi-transmembrane proteins
- Protein expression and purification
- Protein biophysical characterization techniques
- Surface plasmon resonance (e.g. Biacore) and/or biolayer interferometry (Octet)
- Previous insight into antibody discovery and engineering technologies such as hybridoma, B-cell cloning or phage display
- Line management experience

Your salary will be determined by qualifications and experience. In addition, LifeArc offers a defined contribution pension scheme, private health insurance, a flexible benefits scheme and 31 days paid holiday per year.

LifeArc is committed to the principles and practices of equal opportunities in employment and encouraging the establishment of a diverse workforce. This includes creating a culture that fully reflects its commitment to equal opportunities for all.

It is LifeArc's policy to employ individuals on the basis of their suitability for the work to be performed and their potential for development, regardless of age, sex, race, colour, nationality, ethnic or national origin, disability, marital status, pregnancy or maternity, sexual orientation, gender reassignment, religion or belief.

**Closing date: 20<sup>th</sup> January 2019**