



Scientist/Senior Scientist – Protein Biochemistry

OMass Therapeutics is a drug discovery company, applying its unique OdysSION™ technology platform, which comprises novel biochemistry techniques, next-generation native mass spectrometry, and custom chemistry, to discover small molecule therapeutics for rare diseases and immunological conditions.

With state-of-the-art laboratories OMass is able to perform high resolution native mass spectrometry measurements, pharmacological studies, chemical computational analysis and more recently high-resolution structure determination, including crystallography and cryo-EM.

Our fully flagged protein production suite has expression capabilities in mammalian, insect and bacterial cell lines and supports our internal drug development program.

The company was founded by Professor Dame Carol Robinson to leverage her pioneering work in native mass spectrometry, in studies of dynamic protein assemblies, to characterise challenging drug targets including membrane proteins. The high resolution of our biophysical platform offers an unprecedented advantage in the detection of drug leads. The company vision is to build an integrated drug discovery company, with the ambition to develop and ultimately commercialise our products.

Headquartered in Oxford, UK, OMass has raised over \$150M (£119M) from a top-tier international investor syndicate, including Syncona, Oxford Science Enterprises, GV, Northpond Ventures, and Sanofi Ventures. This is an excellent time to join our dynamic growing company.

OMass Therapeutics is inviting applications for the position of Scientist / Senior Scientist to work within the Protein Biochemistry and Structural Biology team based at our Oxford site. The company offers a collaborative and innovative environment for a well-suited candidate to become an integral part of our future vision.

The successful candidate will possess extensive experience in large-scale protein expression and purification, preferably also with membrane proteins. Experience in handling protein samples and characterising expression levels and activity is key. The role is exclusively research based and as such, the ability to problem solve and develop innovative solutions within projects is a key attribute required for the role.

Applications to be received by 15th May 2023



Essential Experience, Skills and Qualities

- A degree or equivalent in a relevant area (B.Sc./M.Sc. or higher in Biochemistry, Biophysics, Molecular Biology or Structural Biology)
- Experience in a variety of molecular biology and cell culture techniques
- Experience with recombinant protein expression in bacteria, mammalian or insect cells (Baculo- and BacMam expression Systems)
- Experience in protein purification using affinity, size-exclusion- or ion exchange chromatography.
- Familiarity with FPLC and HPLC instruments (AKTA etc)
- Analytical thinking and good problem-solving skills to overcome technical challenges
- Excellent organizational and time management skills
- Responsible and focused approach to independent and collaborative work, with the ability to prioritise and deliver high quality work to deadlines.
- Innovative and ambitious mindset, with an inquisitive and agile approach to problem-solving and overcoming technical challenges; motivated to continuously learn and take on challenges in the pursuit of delivering novel therapeutics.
- Caring and inclusive; respectful and receptive to others' diverse ideas, experience and perspectives, and enjoys working collaboratively with others as a team.
- Excellent communication skills, both written and verbal.

Preferred Experience and Skills

- Familiarity with the biology of GPCRs or solute carriers and immune-related biology
- Experience with lipid handling, reconstitution into nanodiscs or liposome preparation for assays/animal immunization is desirable
- Hands-on experience with the expression and purification of membrane proteins, nanobodies or G protein complexes
- Experience with protein characterization via FSEC, nanoDSF, MST

Role Responsibilities

- Purification of proteins and biochemical/biophysical characterisation using a range of analytical techniques to provide high quality protein for different downstream applications including MS analysis and structure determination.
- Design of protein plasmid constructs and optimization of expression conditions in insect and mammalian cells
- Construct engineering to increase protein stability.
- Optimisation of buffer/detergent conditions and purification workflows to maximise protein stability.
- Maintain detailed laboratory records and keep up to date with relevant literature.
- Work closely with mass spec scientists, structural biologists, medicinal chemists and pharmacologists to help advance different projects.



- Share information openly and work collaboratively with other departments to help advance different projects and achieve company goals.
- Promote and adhere to OMass' values of being Ambitious, Responsible, Innovative, Focused, Caring and Collaborative.

Applicants should provide a full CV and a brief cover letter describing their interest for, and compatibility with, the position.

All applications should be submitted online via our website www.omass.com/working-here/

Any queries relating to the role can be sent to jobs@omass.com.

Job Type: Full-time, Permanent

Location: Oxford

Salary: Competitive salary and comprehensive employee benefits

OMass Therapeutics values diversity and is committed to equality of opportunity, we also have full responsibility to ensure that all employees are eligible to work and live in the UK.

