



Ensem Therapeutics, Inc.
200 Boston Ave, Suite 1875
Medford, MA 02155
www.ensemtx.com

Requisition Number: ENSEM-2022-SB03

Scientist/Senior Scientist, Protein X-ray Crystallography
Shanghai Pudong, China

ABOUT ENSEM THERAPEUTICS:

The name ENSEM connotes innovations in integrating groundbreaking technologies to decipher structural ENSEMBles and kinetics for drug design. A preclinical stage startup incubated and funded by the CBC group (<http://www.cbridgecap.com>), ENSEM focuses on high value and difficult-to-drug oncology targets with significant unmet medical needs. Its mission is to discover, develop, and commercialize transformative oncology therapies while leading the advancement of AI-driven structural ensemble and computational drug design.

POSITION:

ENSEM Therapeutics is seeking an experienced and motivated PhD-level scientist specialized in protein X-ray crystallography to join our Shanghai-site Structure Biology team. In this role, you will manage as well as perform crystallographic experiments to help push forward our various structure-based drug design programs. Opportunities exist for additional contributions to other structural biology applications including NMR and CryoEM as well as various biophysical characterizations.

POSITION DESCRIPTION:

- Report to the Director of Structure Biology based in Boston and have the opportunities to manage research associates in Shanghai.
- Manage our CRO collaborations on recombinant protein design, expression and purification, and protein X-ray crystallography. This includes reviewing the weekly data, troubleshooting, and planning for weekly and longer-term action items.
- To participate in the downstream work of protein crystallography that includes refining small-molecule ligand-bound target complex structures and reporting/communicating the key structural findings to the team in writing and orally to aid in SBDD.
- To engage assay development colleagues and medicinal and computational chemists to design assays, analyze compound SARs, and triage compounds for crystallographic studies.

- To teamwork with internal colleagues to perform in-house crystallographic experiments ranging from protein production, crystallization, crystal manipulations, synchrotron data collection (at SSRF) and subsequent structure determination and interpretations.
- To establish and manage crystal mail-in data collection services with foreign beamline scientists and/or CROs whenever additional/alternative beamtime is needed.
- To provide project supports, serving as a structure biology champion to efficiently accomplish project goals on time and budget; to conceive effective drugging strategies for established targets and provide critical assessments for new targets.
- To contribute to platform development by monitoring and incorporating new technologies to enhance our protein sciences capabilities and SBDD supports; To help evaluate and elect platform tools to address specific program needs at a particular stage.
- To contribute to the design and execution of relevant biophysical characterizations including but not limited to TSA, nanoDSF, ITC, SPR, and UVPD-MS.

QUALIFICATIONS:

- A PhD in Chemistry, Biochemistry, or Biophysics specialized in protein X-ray crystallography with 4+ years of relevant training and strong publications as well as solid understanding of protein chemistry and small-molecule drug discovery principles. Familiarity with NMR or CryoEM is a plus but not required.
- Proficient in structural refinement and analysis to derive SBDD insights for med-chem designs as well as structure-mechanism hypotheses to help advance discovery projects; in protein design, expressions, purifications, and QCs; in protein/ligand co-crystallization, compound soaking, and cryoprotection. Experienced with in-person and mail-in synchrotron data collections.
- Flexibility, adaptability, and multi-tasking in an interdisciplinary, hybrid (internal/outourcing) and multi-site environment.
- Exceptional interpersonal and communication skills to articulate deliverables, progresses, and issues to the drug discovery team and solicit feedbacks from team members and industrial and academic partners.
- Personal attributes: attention to details while focused on the big picture; ability to scientifically influence and motivate others; a team player who listens effectively and values feedbacks; collaborative, open-minded, data-driven, and creative; persistent, optimistic with can-do spirit.
- Exceptional Pharma/Biotech/CRO industrial veterans holding a MS degree and strong credentials are also encouraged to apply.

When submitting your application, please use Requisition Number **ENSEM-2022-SB03** in your subject line. Submit your resume and a cover letter to hr@ensem.tx.com