



Research Scientist in Cryo-Electron Microscopy at ALPX

Position description:

ALPX is an EMBL Spin-off Company located in Grenoble, France (<http://alpx-services.com>). We offer innovative research services based on the CrystalDirect technology for structural biology and small-molecule drug discovery to the pharmaceutical and biotech industries. Starting in 2025, we will also offer a rapid and agile Single Particle Analysis cryo-Electron Microscopy (SPA cryo-EM) full service, encompassing everything from cryo-EM sample preparation to structure determination.

We seek a highly motivated single-particle cryo-EM specialist to join the ALPX team.

The successful candidate will contribute to a range of exciting structural biology and drug discovery projects and participate in the development of our sample-to-solution cryo-EM service, with a particular focus on automating on-the-fly and offline data processing. Responsibilities include single-particle data acquisition and analysis, implementation and optimization of cryo-EM data storage, on-the-fly data processing, and high-quality structure elucidation and interpretation. The candidate will also assist in writing project proposals, working with various cryo-EM platforms, traveling for data collection, and preparing presentations on structural data for the project team and clients.

Required knowledge, skills, and abilities:

- Ph.D. in chemistry, biology, physics, or a related field, with an excellent track record
- Multiple cryo-EM map/structure depositions and peer-reviewed publications
- Demonstrated extensive experience in hands-on TEM operation (Tecnai T12, Glacios, Titan Krios), data acquisition, image processing, model building
- Strong expertise in a variety of cryo-EM and structural analysis software (i.e., Relion, CryoSPARC, EMAN, CCPEM, Chimera and COOT)
- Experience in high-resolution structure determination by cryo-EM, including model building from scratch and structure refinement (Ccp4 and Phenix)
- Scripting experience (Shell, Python)
- Team player with the ability to work on several projects in parallel
- Strong oral and written English communication and organisation skills

Preferred knowledge, skills, and abilities:

- Experience in SPA cryo-EM on membrane proteins and epitopes mapping
- Experience in Industry/CRO/CMO
- Familiarity with HPC and Cloud Platforms
- Experience in cryo-electron tomography (Cryo-ET) and sub-tomogram averaging

The position is permanent and immediately available. **Deadline for application: 17.11.2024.**

If you are enthusiastic about this position but find that your previous experience does not precisely match every requirement outlined in the job description, we still encourage you to apply. We are looking forward to hearing from you.

Please send your motivation letter, CV, and names of two referees to recruitment@alpx-services.com