Job Title: **Cryo-EM Computational Scientist (Ref: CS/1121)**

Job Type: **Permanent, Full Time**

Location: **Cambridge, UK**

Astex Pharmaceuticals is a world leader in innovative drug discovery and development. The company has successfully applied its proprietary fragment-based drug discovery (FBDD) platform to generate multiple new drug candidates that are progressing in clinical development. Successful collaborations have led to two launched oncology drugs (Kisqali® partnered with Novartis and Balversa™ partnered with Janssen). Astex continues to grow and focuses on Oncology and Neurological Disorders.

Historically Astex's fragment screening platform has relied upon X-ray crystallography to support structure-based drug discovery (SBDD), however the increased ability of cryo-EM to deliver atomic resolution structures has led to Astex establishing a state of the art, in-house, cryo-EM facility. This facility includes two Glacios and one Krios transmission electron microscopes, a cryo-EM sample preparation laboratory and extensive computing infrastructure. Astex has a strong track record of developing bespoke software to support our drug discovery platforms and we have developed custom data collection and processing workflows to facilitate the rapid generation and interpretation of cryo-EM structures for SBDD and FBDD.

As part of our ongoing expansion, Astex now has an exciting opportunity for a cryo-EM computational scientist to help develop novel, cutting edge, methods for single particle analysis (SPA) and to contribute to the continued evolution of Astex's existing cryo-EM SPA platform. There will be a particular focus on developing novel methods and algorithms for liganded structure determination that will help to maximise the impact of cryo-EM on FBDD and SBDD.

We are looking for candidates with a strong mathematical background and proven software development expertise. Ideally a candidate should have a deep understanding of the theory and software associated with cryo-EM SPA.

The candidate will have a PhD in cryo-EM, or a directly relevant discipline, and demonstrable software skills associated with Python and using C/C++ for algorithm development. Experience with HTML, CSS, JQuery and SQL is desirable. Familiarity with a wide range of cryo-EM software packages would be advantageous, as would experience in deploying software applications into the cloud. The position will require a highly creative and innovative person with an acumen for solving challenging problems. It is essential that the candidate be able to work independently, or in conjunction with members of Astex's cryo-EM and/or software development teams.

We offer excellent training and career development opportunities as well as a competitive salary and benefits package.

To apply, please send your CV and a cover letter quoting the appropriate job reference: **CS/1121** to recruitment.uk@astx.com

At Astex we embrace diversity and equality of opportunity. We are committed to building an inclusive and diverse Company representing all backgrounds, harnessing industry-leading scientific innovation and behaviours

For information on Astex Pharmaceuticals please visit: www.astx.com
and for information on Otsuka Pharmaceuticals please visit: www.otsuka.co.jp