Postdoctoral Scientist - Advanced Microscopy - 1 year fixed term

This role is for a 1 year fixed term period.

Based at Alderley Park, the Medicines Discovery Catapult collaborates with academia and industry to develop new approaches for discovering the medicines of the future. It is one of eleven Catapult centres, established by Innovate UK to encourage innovation and growth in the UK's high-potential industrial sectors. The aim of the Catapults is to bring expertise, innovation and investment together to improve the pathway towards national and international commercial success for new discoveries and businesses.

The Catapult and its partners work together to identify approaches which are more predictive, efficient and of higher scientific and economic value than is currently available, enabling them to become world-leaders in the industry.

The opportunity to join a world class laboratory team in this high-profile national organisation and contribute your ideas, insights and creative science to collaborative projects across the UK, should provide a fantastic platform for career development.

Job purpose:

The role of Postdoctoral Scientist – Advanced Microscopy would suit a highly motivated self-starter who is passionate about the application of advanced light microscopy methods to medicines discovery. The successful candidate will bring a depth of expertise in advanced light microscopy and image analysis and will provide scientific input in this discipline to deliver collaborative projects and build new capabilities.

Through the application of a variety of advanced light microscopy methods, the candidate will characterise complex cell models and prosecute target validation and efficacy studies in support of externally partnered drug discovery projects. The individual will be an integral part of the microscopy team and will work closely with colleagues in interdisciplinary projects. The role will also involve collaboration with external partners, including medicine discovery companies, technology providers and academic institutes.

Main duties and responsibilities:

- Apply advanced light microscopy expertise to support the delivery of collaborative projects focussed on disease-relevant cell model development, cellular target engagement and characterisation of complex medicines.

- Develop imaging methods for drug discovery including characterisation of 3D complex cell models, protein and compound cellular localisation and analysis of drug delivery systems.
- Develop and apply image analysis pipelines for the successful delivery of microscopy projects.
- Work in partnership with Medicines Discovery Catapult scientists to deliver end-to-end imaging workflows that can be applied to collaborative projects.
- Contribute to the maintenance of the light microscopy facility and the image analysis platform.
- Contribute to the training and support of Medicines Discovery Catapult colleagues.
- Networking and participation in initiatives in the bioimaging field including to ensure that Medicines Discovery Catapult is at the forefront of advanced microscopy.
- Deliver high quality data in a complex and time pressured research team environment.
- Implement effective lab processes, experimental records, and safety.

- Contribute scientific insight and innovative technical approaches for more successful drug discovery programmes.
- Demonstrate effective communication and research collaboration skills, working with a wide range of colleagues, internally and in academic and commercial organisations.

Qualifications and Experience:

- The successful candidate will possess a PhD (or have equivalent experience) in the field of advanced light microscopy, applied to life science research.
- In depth knowledge and practical experience of confocal microscopy and multiphoton microscopy, including live imaging. Experience in STORM imaging or Lightsheet microscopy would be an advantage.
- Proven, practical expertise in advanced light microscopy for biological applications, such as analysis of cell monolayers, 3D cellular models and ex-vivo tissue sections, demonstrated by a track record of delivery and publication record.
- Experience in image processing and image and data analysis with commercial and open source software, and through writing new scripts.
- Experience of working in collaborative project teams, with both internal and external colleagues; experience of working in a medicine discovery setting, with academic groups and with SMEs would be an advantage.
- Ability to work on multiple projects simultaneously in a highly collaborative and inter-disciplinary environment.

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Location

Alderley Park

Department

Discovery Science and Technology

Job Title

Postdoctoral Scientist - Advanced Microscopy - 1 year fixed term

City

Cheshire

Country

United Kingdom