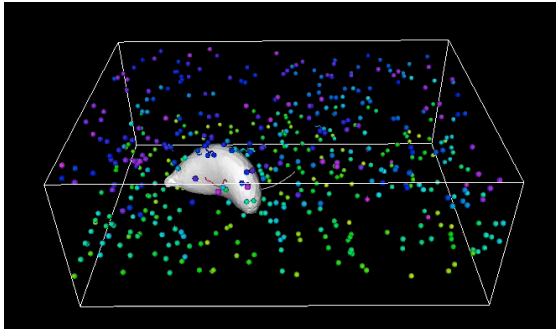




Department of Life Sciences
Malaria Parasite Actomyosin Systems - Postdoc Position(s)
Salary £36,070 - £43,350 per annum

We are seeking to recruit a Research Associate to work with Dr Jake Baum within the Department of Life Sciences at the South Kensington Campus of Imperial College, London. The position is to lead a new program of work towards dissecting the mechanics of actomyosin-systems in the malaria parasite from cell biology down to single molecule work.

Malaria disease, caused by parasites from the genus *Plasmodium*, continues to inflict an enormous health burden worldwide and new drug targets are needed to stem the rise in drug resistance to frontline therapeutics. An emerging conceptual target is to stop parasite cell movement or other actomyosin-based processes – all essential for parasite lifecycle progression – by hitting either actin itself or the myosin motors. Research in the Baum lab is aimed at directly exploring how the different actomyosin systems work, using methods from single molecule to structural and biochemical dissection, right through to live cell imaging of parasites on the move.

Working directly with Dr Baum and members of his laboratory, you will lead the project and provide day to day co-ordination of experiments, working with students involved in the project and liaise with international program partners.

You must hold a PhD (or equivalent) in Biochemistry or Cellular Biology or a related subject. You must have practical knowledge of the biochemistry and cell biology of cell systems, such as in cell motility or other dynamic cytoskeletal processes. Experience in recombinant DNA cloning, protein expression (such as with protein complexes) and their biochemical analysis are essential OR a comparable level of experience in advanced imaging platforms (such as using single molecule techniques including total internal reflection fluorescence (TIRF) microscopy or other advanced setups). Experience of super-res microscopy, advanced structural biology (including crystal structures or cryo-EM) or biophysics and its application to cell biology would be desirable. No prior experience of malaria needed.

You must have excellent verbal and written communication skills, a creative approach to problem-solving, and be committed to meeting deadlines. You must have the ability to work independently, show initiative, demonstrate strong leadership skills (supervising students for example), form positive relationships with a wide range of people and to work as part of a team.

This is a fixed term, full time position from 1 December 2016, for a period of up to three years.

For informal enquiries please contact Dr Jake Baum: jake.baum@imperial.ac.uk

Applications and full job description via: <https://www.imperial.ac.uk/job-applicants/> search for **NS 2016 197 PB**

EU Citizens Welcome!

Closing date: November 11th 2016

Committed to equality and valuing diversity. We are also an Athena SWAN Silver Award winner, a Stonewall Diversity Champion, a Two Ticks Employer and are working in partnership with GIREs to promote respect for trans people.