Opportunities for Faculty Positions in Biological Physics
Department of Physics, King's College London

Lecturer and Reader in Biological Physics (2 posts), to be advertised.
Crick Early Career Group Leaders in Physical Sciences applied to Biomedicine.

King's College London is investing substantial resources into staff recruitment and infrastructure to enhance its research capability in the **Biological Physics strategic area.** In particular, the **Department of Physics** has recently launched the new Biological Physics and Soft Matter (BPSM) research group, which aims to develop and apply techniques and analytical tools borrowed from the Physical Sciences to answer key questions in Biology. The group is presently composed of 7 academics of various degrees of seniority, encompassing both an experimental and computational focus.

Environment and Partners
Intrinsically linked to the interdisciplinary research conducted in the group, BPSM has established a network of collaborations working at the Physics of Life interface, both within King's College London and also outside, to make sure strong links with biologically-focused partners are fostered. Within King's, collaborations have been successfully set up with the Randall Centre for Cell and Molecular Biophysics, the Department of Chemistry, the Dental Institute, the MRC Centre for Neurobiology, Cardiovascular Medicine and the Centre for Stem Cells and Regenerative Medicine. Outside King's, BPSM has established partnerships with the London Centre for Nanotechnology (LCN), the Thomas Young Centre (TYC) and most especially, with the Francis Crick Institute, to create one of the world's largest hubs in Europe for physical scientists studying the mechanisms of life.

Education and Training
Reflecting such an interdisciplinary ethos, our training (both at the Master's, PhD and postdoctoral level) is diverse, often emerging from the partnerships created with the above mentioned research units. For example, BPSM has been recently awarded an internally-funded Centre for Doctoral Training in 'Biological Physics across scales', which provides natural continuation to our 'Physics with Biophysics' undergraduate programme, the first of its kind in the country. Moreover, BPSM hosts a number of co-funded PhD students from the BBSRC London Interdisciplinary Doctoral DTP Programme (LIDo) and from the King's/Crick joint PhD programme.

Research Funding
The BPSM group obtains regular funding from the major UK and EU funding agencies, as well as charities. The group has obtained funding from EPSRC, BBSRC, MRC and the Wellcome Trust and from the European Research Council. Charity funding comes at the moment from the British Heart Foundation, Fight for Sight, the Leverhulme Trust and the Wellcome Trust. Major grants in the last five years include an ERC starting grant, the participation in a FET-Proactive EU Consortium, an EPSRC Early Career Fellowship, a Leverhulme Trust Research Leadership Award, a Wellcome Trust Investigator Award and a Royal Society Wolfson Fellowship.

New Opportunities for Faculty Positions

The Department of Physics at King's has recently created, through a strategic plan of laboratory refurbishment and staff recruitment, a young, modern and vibrant environment to give response to the pressing and exciting challenges in the burgeoning area of Biological Physics. To build on this, we are welcoming applications from excellent candidates to undertake internationally leading research in the area of Biological Physics wishing to take a leading role in the delivery of high-quality undergraduate and postgraduate programmes. The appointee(s) will have research interests in experimental and/or theoretical biophysics with the aim of consolidating and diversifying existing research within the Department, which currently includes experimental work in super-resolution imaging; fluorescence microscopy; Atomic Force Microscopy, Raman spectroscopy; single molecule and cell mechanics and the physical principles of immunology, combined with coarse-grained and all-atom simulations. To this end, the areas of particular interest include, but are not limited to, mechanobiology and cell mechanics, molecular motors, natural and naturally-inspired molecular machines, biomechanics and bio-inspired active matter.

Specifically, we are seeking to recruit:

- **A Lecturer in Biophysics** (experimental or theoretical/computational), who will demonstrate an outstanding training in Biophysics research and are willing to set-up their independent research agenda. The appointee will also play a key role in developing and delivering the 'Physics with Biophysics' undergraduate programme (Applications will be open by the end of 2019).
- **A Reader in Biophysics** (experimental or theoretical/computational), with a proven experience as a research leader in biophysics. [A UK Readership can be considered as equivalent to a tenured Associate Professor]. The candidate should play a key leading role in the department, both from the research and teaching viewpoint. (Applications are expected to open by mid 2020).
- **A joint appointment with the Francis Crick Institute**, through the call for early career Crick group leaders in the physical sciences applied to biomedicine. Successful candidates will be appointed to the university department, but establish their main research base at the Crick for six years, during which time the Crick will provide core-funded research support positions, PhD studentships, consumables, laboratory space and access to state-of-the-art technology facilities. At the end of the six years appointees will transfer their main research base to the university department with the opportunity of an ongoing Crick affiliation (Applications will be open by the end of November 2019).

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