

JOB DESCRIPTION

Job Title:	Post-Doctoral Research Associate Experimental Condensed Matter Physics
Department / Unit:	Physics
Job type	Research
Grade:	RHUL 7
Accountable to:	Professor Jon Goff
Purpose of the Post	
The Research Associate will work on the EPSRC funded project on harnessing disorder to tune, tailor and design classical and quantum spin liquids. In this project single crystals will be characterised using x-rays and physical properties measurement at Royal Holloway and experiments will be performed using neutron scattering at international facilities. The work will be carried out in collaboration with project partners and staff at central facilities.	
Key Tasks	
<ul style="list-style-type: none"> • Planning and performing neutron scattering experiments at central facilities. • Ensuring that all neutron beam time is used efficiently. • Looking after postgraduate students during experiments and liaising with local contacts at the central facilities. • The analysis of results from neutron experiments. • Pilot, refine and optimise computational techniques with limited supervision from the PI. • Running the x-ray diffraction equipment at Royal Holloway. • Providing technical support for designated research area including maintenance of equipment, lab supplies, databases and webpages, ensuring that all work is carried out in accordance with statutory and Royal Holloway regulations as appropriate. • Identify any practical and technical issues that require to be resolved and suggest solutions. • Maintain a permanent record of methodologies and experiments. • The preparation of reports on the facilities experiments for the research collaboration. • Presentation of results to scientific forums. • Undergo continued personal professional development. 	

Other Duties
<p>The duties listed are not exhaustive and may be varied from time to time as dictated by the changing needs of the College. The post holder will be expected to undertake other duties as appropriate and as requested by their manager.</p> <p>The post holder may be required to work at any of the locations at which the business of Royal Holloway is conducted.</p>
Internal and external relationships
<p>The following list is not exhaustive but the post holder will be required to liaise with: Students, other members of staff within the school/department and College, academics in other institutions and, where relevant, industrial or professional contacts.</p>