

JOB DESCRIPTION

Job Title:	Post doctoral research associate in Laser trapping aerosol particles
Department / Unit:	Department of Earth Sciences / UKRI-STFC Central Laser Facility (Rutherford-Appleton Laboratory)
Job type	Full Time, Fixed Term (20 months)
Grade:	7
Accountable to:	Professor, Earth Sciences
Accountable for:	
Purpose of the Post	
To undertake research activities related to the NERC project 'Quantifying the light scattering and atmospheric oxidation rate of real organic films on atmospheric aerosol.' The postholder will be employed by Royal Holloway University of London, but work day-to-day at the Laser Science Facility at Rutherford-Appleton Laboratory, Oxfordshire.	
Key Tasks	
<ul style="list-style-type: none"> • Perform laser trapping experiments • Undertake Mie scattering calculations by adapting popular available codes • Prepare atmospheric filter samples for laser trapping experiments. • Write research manuscripts for peer-reviewed publication • Prepare and present findings of research activity to colleagues and at scientific meetings • Co-supervise student research activities where required. • Provide some support including maintenance of lab equipment, lab supplies, and technique development, ensuring that all work is carried out in accordance with statutory, Rutherford-Appleton and Royal Holloway regulations as appropriate. • Where needed assist in related experiments on neutron reflection experiments. • 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>