



## JOB DESCRIPTION

<b>Job Title:</b>	Post-doctoral Research Assistant in Rhenium and Osmium Geochemistry
<b>Department / Unit:</b>	Earth Sciences
<b>Job type</b>	Professional Services
<b>Grade:</b>	RHUL 7
<b>Accountable to:</b>	Dr Alexander Dickson
<b>Accountable for:</b>	N/A
<b>Purpose of the Post</b>	
To work within the DISTILL project team to characterise the isotopic composition and behaviour of rhenium and osmium in modern aquatic environments.	
<b>Key Tasks</b>	
<p>To lead on geochemical investigations of trace metal burial and isotope fractionation in modern marine environments.</p> <p>To work closely with other members of the DISTILL team, including at partner institutions, to design and test approaches for quantifying marine organic carbon burial fluxes and oxidative carbon emissions using geochemical data.</p> <p>To disseminate findings of the research by presenting at scientific meetings and by writing and submitting papers to peer-reviewed scientific journals.</p> <p>To contribute to the overall activities of the DISTILL research team and the department as appropriate, including the induction, direction and co-supervision of other research staff and students if so requested by the Principal Investigator.</p> <p>To carry out any other duties as are within the scope, spirit and purpose of the job as requested by the Principal Investigator.</p> <p>Duties and responsibilities may be amended by the Principal Investigator as necessary, in consultation with the post-holder.</p> <p>To undergo continued personal professional development.</p>	

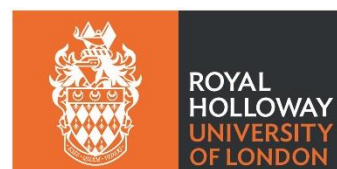
**Other Duties**

The duties listed are not exhaustive and may be varied from time to time as dictated by the changing needs of the University. The post holder will be expected to undertake other duties as appropriate and as requested by their manager.

The post holder may be required to work at any of the locations at which the business of Royal Holloway is conducted.

**Internal and external relationships**

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 University, academics in other institutions and, where relevant, industrial or professional contacts.



**ROYAL HOLLOWAY**  
University of London

**PERSON SPECIFICATION FORM**

**Job Title:** Post-doctoral Research Assistant Grade 7

	Essential	Desirable
<p><b>Knowledge, Education, Qualifications and Training</b></p> <p>PhD in Geochemistry/Earth Sciences or a related subject</p> <p>An understanding of sedimentary and diagenetic processes in aquatic systems.</p> <p>An understanding of biogeochemical cycles and the processes that control environmental change over geological timescales.</p>	<p>X</p> <p>X</p> <p>X</p>	
<p><b>Skills and/or Abilities</b></p> <p>Have experience preparing sediment or mineral samples for isotopic analysis in a clean laboratory.</p> <p>Experience measuring and interpreting non-traditional <i>stable</i> isotopes using MC-ICP-MS and/or TIMS</p> <p>Experience working with and interpreting Earth System model outputs.</p>	<p>X</p> <p>X</p>	<p>X</p>
<p><b>Experience</b></p> <p>Experience of working in a research environment.</p> <p>Be able to work in a diverse research team with respect for other team members.</p> <p>Experience presenting and communicating scientific results to a scientific audience.</p>	<p>X</p> <p>X</p>	<p>X</p>

Publications in journals commensurate with career stage.		X
Experience developing independent research activities		X