## JOB DESCRIPTION

<table>
<thead>
<tr>
<th>Job Title:</th>
<th>Post-doctoral Research Assistant</th>
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<tbody>
<tr>
<td>Department / Unit:</td>
<td>Earth Sciences</td>
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<tr>
<td>Job type</td>
<td>Fixed-term Part-Time (0.5 FTE)</td>
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<tr>
<td>Grade:</td>
<td>7</td>
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<td>Accountable to:</td>
<td>Reader, Stable Isotope &amp; Greenhouse Gas</td>
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<td>Accountable for:</td>
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### Purpose of the Post

Urgent instrument development, testing and calibration required over summer 2021.

### Key Tasks

1) Set-up, testing and calibration of the Tiger Optics hydrogen analyser.
   - Responsibility for setting up and running experiments. To establish the viability of the instrumentation for analysing atmospheric concentrations of hydrogen.
   - To maintain a permanent record of experimental details, to analyse and archive data generated from experiments, and prepare a manual for using the instrument for the specific set of research purposes.

2) Design modification and coding update for bag autosampler.
   - Periodic checking of the prototype at the field installation.
   - Making software and hardware modifications as required to provide a robust long-term sampling platform.
   - Ordering components for 2 more versions once the prototype is proven in the field.
   - Assisting workshop staff with construction of the new versions.

3) To contribute to the overall activities of the research team and the department as appropriate.
   - Assist with instrument repairs and fault-finding as required.
   - Contribute to scientific discussion in regular laboratory meetings.
• Offer advice and opinion on the analysis and interpretation of results.

**Other Duties**

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 his/her 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:
- Lecturer-Atmospheric Environmental Science
- Postdoctoral Research Associate
- Postgraduate Research Assistant
- Engineering Technician