**JOB DESCRIPTION**  
**Vacancy Ref: N1431**

<table>
<thead>
<tr>
<th><strong>Job Title:</strong></th>
<th>Research Technician in Palaeomagnetic dating/Tropical palaeoclimatology</th>
<th><strong>Present Grade:</strong></th>
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<tr>
<td><strong>Department/College:</strong></td>
<td>Lancaster Environment Centre</td>
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<td><strong>Directly responsible to:</strong></td>
<td>Professor Barbara Maher</td>
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<td><strong>Supervisory responsibility for:</strong></td>
<td>Some supervision of undergraduate and PhD students</td>
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**Other contacts**

**Internal:**  
Academic, research and technical staff. Professional services staff.

**External:**  
Liaison with Ghent University, DeepCHALLA International Continental Scientific Drilling Programme partners, British Geological Survey, University partners in DeepCHALLA UK NERC project.

**Major Duties:**

- Palaeomagnetic and environmental magnetic analysis of the Lake Challa sediment core, developing measurement protocols using the new 2G RAPID magnetometry system, in collaboration with staff and research student users, and ensuring a safe working environment

- High-level statistical analysis and interpretation of data

- Develop magnetic extraction protocols, and analysis of magnetic extracts by high resolution transmission electron microscopy (size, size distribution, composition, oxidation state)

- Presentation of results at project meetings.

- Collaborative writing up and publishing of results from project in high-impact journals.

- Completion of project milestones in an organized and timely fashion, and writing of project reports for the funder.

- Appropriate collaboration with co-investigators on the DeepCHALLA project; join sampling parties of international scientists in Ghent to collect material for analysis; to keep up-to-date with advances in this scientific area, including methodologies/SOPs, for example through working with partners and by attending relevant conferences.

- Train internal users (PhDs) in the standard operating procedures and the use of equipment in the laboratory.

- Any other duties as may be reasonably required by the line manager.