## JOB DESCRIPTION

**Vacancy Ref: A2977**

<table>
<thead>
<tr>
<th>Job Title: Senior Research Associate in battery degradation research</th>
<th>Grade:  7</th>
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<tbody>
<tr>
<td><strong>Department/College:</strong></td>
<td>Chemistry / Engineering / Energy Lancaster</td>
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<tr>
<td><strong>Directly responsible to:</strong></td>
<td>Prof Harry Hoster (Director of Energy Lancaster);</td>
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<tr>
<td><strong>Supervisory responsibility for:</strong></td>
<td>none</td>
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**Major Duties:**

1. Conduct experimental studies on the degradation of Lithium Ion Batteries.
2. Liaise with other researchers (insurance experts, battery pack designers, statisticians) and industry partners (led by AGM) to define specifications according to their requirements.
3. Develop data-based and physically informed models to describe battery degradation.
4. Research existing lifetime prediction techniques, including machine learning approaches for quantification of uncertainty.
5. Contribute to the day-to-day running of the Energy Storage group at Energy Lancaster, including the upkeep of data-related documentation and the organization of training for new staff and students.
6. Participation in regular project meetings with industrial and academic partners; preparation and presentation of talks, posters and reports to disseminate the results of these studies.
7. Participation in national and international conferences and workshops to present the results of the project to a wider audience and to learn about current advances in the field.
8. Preparation of journal papers for publication of project findings.
9. Knowledge exchange: with academics (e.g. internal/external), industrial partners and the public regarding this project.
10. Any other duties appropriate to the grade as delegated by Dr Denes Csala and Prof Harry Hoster.