# JOB DESCRIPTION

<table>
<thead>
<tr>
<th><strong>Job Title:</strong></th>
<th>Postdoctoral Research Assistant in Nanofabrication / Low Temperature Physics</th>
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</thead>
<tbody>
<tr>
<td><strong>Department / Unit:</strong></td>
<td>Physics</td>
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<tr>
<td><strong>Grade:</strong></td>
<td>RHUL 7</td>
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<td><strong>Accountable to:</strong></td>
<td>Professor of Low Temperature Physics</td>
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</tbody>
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## Key Tasks

The main responsibilities of the post are:

- **To undertake research in the London Low Temperature Laboratory at RHUL to fulfil milestones and deliverables EPSRC research grant, Topological mesoscopic superfluidity of $^3$He.** This research may be in liaison with another member of staff, but the post holder should be able to take full responsibility for the design and execution of studies.
- **Design and build of nanofabricated nanofluidic cells.** This activity will require the capacity to spend time away at other (national and international) nanofabrication and test facilities to meet specific project aims.
- **The design/build/test of new experiments on the cryogen-free system ND4.**
- **Provide support for the experiments running on the nuclear demagnetisation system ND2.**
- **Operation of low temperature equipment as necessary.**
- **To analyse data and interpret any results obtained**
- **To ensure the validity and reliability of data at all times**
- **To maintain accurate and complete records of all findings**
- **To produce and document the results of such studies**
- **To write reports for submission to research sponsors**
- **To present findings to colleagues and at conferences**
- **To draft and contribute to publications for submission to refereed journals**
- **To provide guidance to staff and students**
- **To attend relevant workshops and conferences as necessary**
- **To take part in the supervision of postgraduate students**
- **To take initiatives in the planning of research**
- **To promote the reputation of the Group, the Department and the College**

Other duties for this post include:

- **To undertake appropriate administration tasks**
- **To attend relevant meetings**
- **To undertake any necessary training and/or development**
- **To undertake specific safety responsibilities relevant to individual roles, as set out in the College procedures**
- Maintain safe workplace practice and procedures in accordance with the requirements of Health and Safety legislation;
- Maintain an up to date knowledge of relevant statutory Health and Safety legislation and recommendations and attend safety training as required.
- To observe and comply with all College policies and regulations

### Other Duties

Any other duties as required by the line manager or Head of Department that are commensurate with the grade.

As the needs of the College change so the above job profile, duties and location of the role within the Faculty of the College will be adjusted accordingly.