## JOB DESCRIPTION

**Vacancy Ref:** A3611

<table>
<thead>
<tr>
<th><strong>Job Title:</strong> Research Associate in Superconducting RF Engineering (Cockcroft Institute)</th>
<th><strong>Present Grade:</strong> 6</th>
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<tr>
<td><strong>Department/College:</strong> Engineering</td>
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<td><strong>Directly responsible to:</strong> Prof Graeme Burt</td>
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<td><strong>Supervisory responsibility for:</strong> n/a</td>
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### Other contacts
- **n/a**
- **Internal:** All Lancaster Cockcroft staff and students
- **External:** All Cockcroft staff, Engineers at CERN, and industrial partners.

### Major Duties:

1) To assist in the quality assurance and control of the SRF crab cavities for HL-LHC being constructed by industry. This will include:
   - Taking and reviewing measurements of parts
   - Performing RF measurements of clamped assemblies and trimming for tuning
   - Bead pull measurements on final structures
   - Preparing QA/QC documentation on the cavities

2) To support activities at CERN on fast reactive tuner development for SRF cavities which dependant on skillset could be SRF measurements, RF modelling or LLRF control.

### Other Duties
- Support Lancaster PhD students based at CERN