**Job Title:** Mechanical Engineer supporting Superconducting RF Engineering (Cockcroft Institute)  
**Present Grade:** 7

<table>
<thead>
<tr>
<th>Department/College:</th>
<th>Engineering</th>
</tr>
</thead>
<tbody>
<tr>
<td>Directly responsible to:</td>
<td>Prof Graeme Burt</td>
</tr>
<tr>
<td>Supervisory responsibility for:</td>
<td>n/a</td>
</tr>
</tbody>
</table>

**Other contacts**  
**Internal:**  
All Lancaster Cockcroft staff and students  
**External:**  
All Cockcroft staff, Engineers at Daresbury Laboratory, collaborators at CERN, Fermilab, Jlab, ODU, LBNL and industrial partners.

**Major Duties:**

- To assist in the development of cryomodules superconducting crab cavities at the Cockcroft institute and at collaborating institutions, specifically for LHC upgrades  
  This will include:
  - Developing QA procedures for components  
  - Performing mechanical measurements on SRF cryomodule systems at CERN, manufacturers or Daresbury  
  - Visiting suppliers to perform QC on components  
  - Ensuring components meet acceptance criteria working with technical staff at Daresbury and CERN  
  - Working with technical staff to deal with nonconformities  
  - Production of drawings or CAD for components or assemblies meeting all QA requirements  
  - Liaising with CERN and STFC for approval of drawings and release to manufacturing  
  - Procuring mechanical systems, producing requests for tender  
  - Evaluating tender submission  
  - Mechanical design and analysis of RF cavities