

**JOB DESCRIPTION**

**Vacancy Ref: 0411-24**

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| **Job Title:** **Mechanical Engineer supporting Superconducting RF Engineering (Cockcroft Institute)** | Grade (6) |
| **Department/College:** Engineering |
| **Directly responsible to:** Prof Graeme Burt |
| **Supervisory responsibility for:** N/A |
| **Other contactsInternal:**All Lancaster Cockcroft staff and students**External:**All Cockcroft staff, Engineers at Daresbury Laboratory, collaborators at CERN, Fermilab, Jlab, ODU, LBNL and industrial partners. |
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| **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

**Other Duties** |