

**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** | |