

**JOB DESCRIPTION**

**Ref: 0412-24**

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| **Job Title: Senior Research Associate in RF Accelerator Engineering (based at CERN)** | Grade 7 |
| **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, Collaborators at CERN, and industrial partners. | |
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| **Major Duties**   1. To assist in the development of fast reactive tuners for RF cavities at CERN   This will include:   * Mechanical or Electromagnetic design of Ferroelectric resonators and ancillary components using microwave or mechanical simulation software * Performing RF or mechanical measurements on Ferro-electric Fast reactive tuners at CERN * Performing RF or mechanical measurements on RF cavity systems using the FRT at CERN * Development of feedback electronics * Publication in peer reviewed journals   **Other Duties**   * Presentation at international conferences | |