

**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
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