JOB DESCRIPTION
Vacancy Ref: A1507

Job Title: Senior Research Associate in THz frequency particle acceleration (Cockcroft Institute)  Grade 7P

Department/College: Engineering

Directly responsible to: Dr Graeme Burt (Lancaster) & Dr S. Jamison (STFC)

Supervisory responsibility for: Alisa Healy

Other contacts
Internal: All Lancaster Cockcroft staff and students

External: Cockcroft Institute academic and post-doctoral staff, PhD students, professional engineering, scientific and technical staff at STFC Daresbury Laboratory.

Major Duties
To help co-ordinate and commission the development of THz driven particle acceleration at the Cockcroft institute. This will include:
- Lead the commissioning of experimental systems for THz acceleration experiments on the VELA particle accelerator at Daresbury Laboratory
- Performing THz measurements and tuning on dielectric waveguides
- Perform experimental studies in the generation of THz short pulse radiation
- To assist in the design and modelling of THz sources and dielectric waveguide
- Contribute and lead publication of results in peer reviewed journals.
- Assist in the writing of grants
- Contribute to the supervise PhD students undertaking research within the THz acceleration programme
- Liaise with collaborators at ASTeC, Manchester & Liverpool
- Present results at appropriate conferences

Other Duties
Perform administrative duties related to the Cockcroft Institute education programme.