

**JOB DESCRIPTION**

POST TITLE	Radio Frequency Engineer		
DIVISION/DEPARTMENT	Technical / Radio Frequency		
REPORTS TO	Head of Radio Frequency Group	GRADE	5

**AIM**

To support the storage ring high power IOT based amplifiers and be responsible for linac and booster RF

**ACCOUNTABILITIES**

Specific responsibility for the linac and booster RF and support for high power IOT based amplifiers used for storage ring operation, including services and auxiliary supplies. Tasks include:

1. Characterisation and calibration, repair, day-to-day checks and operation of the injector RF and associated equipment
2. Support the operation of high power amplifiers in the storage ring RF plant
3. Detailed fault analysis of every linac and booster RF trip, the production of formal corrective action plans and their implementation and follow-up as part of the drive for higher reliability
4. Development and execution of detailed maintenance programmes and monthly reporting of maintenance plans, faults and ongoing issues
5. Monthly reporting of spares stock with on-going review of appropriate stock holding
6. Ensuring that all relevant drawings are accurate and kept up-to-date
7. Liaison with the Operations Teams for fault diagnosis and repair; provision of operating instructions and training for the Operating Team and the RF Group for any new developments in RF amplifiers
8. Contribute to the general commissioning, system calibration, system set-up and other studies related to all RF systems
9. Assist in the drawing up of manufacturing and test specifications
10. Support the design, development and building of 'in house' RF equipment as required
11. Supervision of relevant procurement contracts including witnessing of factory tests
12. Supervision of external contractors and technicians as assigned
13. Contribute to ensuring safe working practices, relating to the maintenance and operation of all RF systems
14. Carry out any additional tasks and responsibilities as nominated by the Group Leader
15. Participate in on-call support of the linac, booster and storage ring RF plant.

**Because of the changing nature of our business your job description will inevitably change. You will, from time to time, be required to undertake other activities of a similar nature that fall within your capabilities as directed by management.**