

(This document forms part of the Recruitment guidelines)

JOB DESCRIPTION

POST TITLE	Insertion Device Physicist		
DIVISION/DEPARTMENT	Technical Division		
REPORTS TO	Head of Insertion Devices Group	GRADE	5

AIM

Contribute to the development and operation of high quality insertion devices in Diamond.

ACCOUNTABILITIES

- Contribute to the physics aspects of the design, construction and operation of permanent and electro-magnetic insertion device systems for the Diamond synchrotron, by:
 - carrying out magnetic measurements, data analysis, and magnetic field optimisation procedures for actual devices,
 - carrying out computer modelling to optimise magnetic designs,
 - computing synchrotron radiation emission from a variety of devices.
- Contribute to the development of new magnetic field measuring equipment
- Preparation of procurement specifications for pure permanent magnets and trim coils.
- Liaise with in-house engineering and scientific staff during the design, specification, construction and installation of new insertion devices.
- Participate in the design and construction of any other accelerator magnetic systems as required.
- Write associated documentation for above tasks.
- Comply with the Diamond Health and Safety procedures and policies and where appropriate assist in the development of local procedures.

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.