### JOB DESCRIPTION

**POST TITLE**  
Mechanical Design Engineer

**DIVISION/DEPARTMENT**  
Technical Division / Engineering

**REPORTS TO**  
Senior Mechanical Project Engineer  
**GRADE**  
5

**AIM**  
To provide mechanical engineering design support to the technical systems of the Diamond facility.

**ACCOUNTABILITIES**

- Work closely with internal & external scientific and engineering staff to produce mechanical designs for projects.
- Develop and apply expertise in technologies including ultra high vacuum systems, stable support structures, precision mechanisms, cryogenics and the general design of scientific equipment and plant.
- Produce concept designs, layouts, assembly drawings and detailed manufacturing drawings employing AutoCAD and Pro-Engineer software.
- Carry out calculations and FEA as competence and supervision allow.
- Procurement of equipment through commercial suppliers.
- Supervision of internal and contract design staff and control of quality.
- Contribute to hazard analysis and risk assessment exercises.
- Maintain and update engineering drawings and documentation on projects.
- Work within DLS procedures and contribute to their development.

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.

**DIAMOND VALUES**  