

**(This document forms part of the Recruitment and Selection guidelines: Appendix 2)**

## JOB DESCRIPTION

POST TITLE	PDRA for crystallography software methods development		
DIVISION/DEPARTMENT	Data Analysis Group, Science Division		
REPORTS TO	Senior Software Scientist	GRADE	5

### AIM

To work with the data analysis group, beamline scientists, scientific directors and appropriate theorists to establish software requirements for scientific data reduction and analysis in the area of crystallography and then to ensure that they are implemented and published in a timely manner.

### ACCOUNTABILITIES

- Participate in the in-house research programme in crystallography software methods development including the analysis and publication of the results;
- Use scientific and technical knowledge to understand and implement data analysis and mathematical software.
- Development, commissioning and testing of new algorithms, software, data handling and methods to establish best practice and results;
- Work closely with acquisition colleagues to enable the integration of analysis software into the data acquisition process where appropriate.
- Support of relevant research projects of the users, who will come from a diverse scientific background;
- Presentation of the in-house research, beamline developments and scientific papers at meetings and conferences;
- Implement appropriate software testing regimes as part of the development process.

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.