

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

JOB DESCRIPTION

POST TITLE	Postdoctoral Research Associate, cryo X-ray tomography		
DIVISION/DEPARTMENT	Life science/B24		
REPORTS TO	Maria Harkiolaki	GRADE	5

AIM

To research macrophage ultrastructure adaptation in response to bacterial challenges and develop correlative microscopy workflows using available facilities at both Diamond/B24 and the RAL site as well as facilities and expertise available through the affiliated research groups at the Biochemistry department in Oxford. Assist in the development of methods onsite and contribute to the user programme and training.

ACCOUNTABILITIES

Duties:

B24 is a cryo soft X-ray tomography and super resolution correlative imaging beamline for the Life Sciences at Diamond. The postdoctoral research scientist will be in the unique position to perform novel studies integrating state-of-the-art technologies with new method development. These studies will further our understanding of innate immunity and allow for the direct application of state of the art facilities to bioimaging at the cellular level and beyond.

- You will contribute to the macrophage response and correlative imaging research project within the B24 group ;
- Performing experiments, analysing data and publication of results;
- Attend and present work at relevant scientific meetings;
- Attend internal scientific and administrative meetings with scientific collaborators and the beamline team
- Keep up to date with the latest results and research directions internationally in the field of X-ray and fluorescence imaging;
- Occasional support of B24 users in collaborative projects, including sample handling, data collection, data analysis and training;
- B24 staff where appropriate with commissioning, instrument upgrade, development and testing of new equipment and software.

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.