

Registration Form for the Use of FEI Dualbeam FIB/ESEM Quanta 3D

User Name: _____ **User ID:** _____

Department: _____ **Group:** _____

Email Address: _____ **Tel. number:** _____

Sample Description: _____

Are any samples composed of substrates having a maximum exposure limit (MEL)? [*Please refer to the **COSHH regulations***] Are any of them carcinogens, or are they toxic to reproduction? Are they nano materials? Are you unsure if it is harmful?

YES

NO

If YES, please specify: _____

I have read and understand the rules (page 2).

Date: _____ **User Signature:** _____

Supervisor's Name: _____ **Signature: (required):** _____

Email Address: _____ **Tel. number:** _____

Physics Dept only: RG number: _____ **Max. Amount:** _____

For billing if you are outside the Physics Department

Department to charge: _____ Group: _____

Billing contact: _____

Contact's email: _____ Tel. Number: _____

If applicable: Purchase Order number: _____ Max. Amount: _____

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Rules and Terms:

1. In order to use the FEI Quanta 3D microscope without supervision the user needs to have successfully completed the training on the Quanta 3D.
2. All users are required to fill out a Risk Assessment form before working on the microscope.
3. Regular facility hours are between 9AM to 5PM. To use the Quanta 3D microscope outside regular hours, the user needs the approval of the facility manager.
4. Online booking is available via our webpage: <http://www.emsuite.phy.cam.ac.uk>
5. If a user does not show up within 30 minutes of the booked time, the facility staff reserves the right to assign an alternative user to the microscope. In addition, the user maybe billed for one the booked time, unless the user has a very good excuse.

Trained Users:

6. Please treat the electron microscope with the necessary care; otherwise the user may loose the privilege to work on the microscope. Special attention is required for following points:
 - a. Use the SEM CCD camera, when you close the door of the sample chamber, to avoid crashing the sample holder into the SEM pole piece.
 - b. Before log-off, please make sure that the Quanta 3D is in high vacuum mode and the pumping symbol in the microscope menu has switched to green.
7. Please try to minimize contamination of the FIB/SEM chamber and column.
 - a. Do not touch any parts inside the sample chamber, including the sample holder, with your bare fingers. Use nitrile gloves, which are provided.
 - b. Please ensure that the specimens are dry and free of solvents or other volatile contaminations (non-ESEM mode).
8. Do not be afraid to report problems or mistakes. Do not try to fix them. Please contact

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Costs:

£40/hour