

Welcome to PEEM-3

Please **contact** the beamline staff if you have any questions.

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Documentation: All experiments require a valid Experiment Safety Sheet (ESS) and User Experiment Form (UEF). The ESS needs to list all potential hazards brought to the ALS (samples, equipment, etc.) and all experimenters. It needs to be signed by the experimenters, reviewers, and the beamline scientist. It is valid for a year and needs to be updated when any changes to the experiment occur, e.g., different samples, additional experimenters. The UEF (front page of ESS) is valid for the duration of a single visit to the PEEM-3 and lists the experimenters currently working at the endstation. It needs to be initialed by the beamline scientist. Both documents are posted at the sector board, near the beamline.

Clothing: Always wear long pants, closed-toe shoes. Additional protective equipment is required when handling cryogenics (safety glasses, face shield, insulating gloves) or samples/chemicals (always safety glasses, suitable gloves).

Food and drinks: Food is not permitted on the ALS floor (red paint) except for the walkway around the ring and in designated ALS break areas (nearest one to BL 11 is right across the walkway). Drinks are only permitted at the computer table, marked by a green sign. No samples/chemicals are allowed in this area.

Sample mounting and storage: Please use the table on the right side of the PEEM-3 chamber for sample mounting and storage. The area is marked by a black and yellow floor mat. Always wear appropriate Personal Protective Equipment (safety glasses at all times, gloves) in this area regardless of whether you are actively handling chemicals.

Hazards at PEEM-3: High voltage, Pressurized cryogenics, Chemicals, Compressed Gases, Magnetic Fields, Tripping/falling. Please use caution when navigating the crowded end station and contact the beamline staff when you observe a potential safety hazard or are uncertain about a task. On-the-job training is required before mounting/loading/transfer of samples, operating the microscope, or usage of cryogenics. Any work on electrical or vacuum systems requires prior discussion with beamline staff and explicit approval.