

Cerca Magnetics

OPM-MEG Site Suitability Considerations



1. Introduction

The OPM-MEG systems require a suitable clinical environment, including space for a magnetically shielded room (MSR). This guide is intended to help applicants consider whether they may have a suitable location.

Final suitability will be confirmed with the team following selection through detailed site assessment, technical review and any required surveys.

2. Key MSR Considerations

Uncertainty on any point below does not prevent an application. Please highlight any of these issues for discussion with the team. Please contact h.pickard@epilepsy-institute.org.uk if any further information is required.

A. Available Space	B. Structural Suitability	C. Magnetic Environment
The proposed area should allow for the MSR, supporting equipment, services, access and temporary installation space. - Consider ceiling height, room layout, access routes, nearby support and storage space. - Minimum external dimensions 3.7 x 3.7 x 2.8m (W x L x H) - Identified nearby office space for support team	The MSR is a substantial structure, so floor loading must be considered: - MSRs can weigh up to 13,000 kg. - Ground floor/ basement locations are advantageous, but other locations may be feasible. - Floor condition and levelness will be reviewed.	OPM-MEG is sensitive to magnetic interference. - Consider nearby lifts, escalators, plant rooms, major electrical infrastructure, railways, heavy traffic, car parks and large steel structures. - Highlight potential magnetic environment concerns in the application and during applicable site visits.
D. Vibration Environment	E. Building Services	F. Delivery/ Access/ Installation
Excessive vibration can affect measurements. - Consider nearby air handling units, mechanical plant, lift shafts, escalators, high traffic (people) areas, roads and rail infrastructure. - Highlight potential vibration concerns in the application and during applicable site visits.	The location should have, or be able to support, the required building services: - Power, ventilation/ HVAC, fire safety systems (where applicable) network connectivity - Suitable clean earthing/grounding. This is fundamental to the performance of the system.	Equipment must be deliverable safely to the proposed location. Consider: - Loading access, corridors, doorways, lifts, temporary storage and working space. - Temporary power, lighting and coordination with estates and health and safety teams for installation.



G. Clinical and Research Use

The location should support safe participant/patient access and appropriate clinical or research workflows.

- Consider accessibility, NHS estates requirements, health and safety arrangements, and any local access adaptations.

This document is intended as high-level guidance for applicants. It does not replace a site assessment for applicable sites or formal installation specification.





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