Building R80

IMAT external beamline facility, Harwell, Oxfordshire







Light at the End of the Tunnel

A phased 2-storey extension to Building R80, to provide a new IMAT external beamline facility used as a neutron imaging and diffraction instrument for material science, materials processing and engineering by ISIS research.

Phase 1:The design and construction of a 415sqm 2-storey extension to Building R80 to serve as an experiment building housing the IMAT experimental equipment and plant with an attached pump enclosure and covered way creating a new entrance lobby to R80.

The building is fully M&E serviced with AHU's, new pumpset and pipework from boiler plant room, BMS controls and a two hook 10 tonne/2 tonne crane; electrical installation included sub-mains distribution, supplies to mechanical plant, small power and lighting, emergency lighting, data/communications, public address, fire alarm installation, lightning protection and card swipe access system.

Phase 2: The design and installation of a mezzanine flooring system complete with access staircases and the design and construction of a User Office and Counting House complete with small power and lighting. The Phase 2 works couldn'tbe commenced until the Completion of the installation of IMAT plant and equipment by others.

Project Details

- Scope
- 2 phase, 2 storey 415sqm extension to research building
- Role
 Architect, Lead Designer, employed by Design
 & Build Contractor
- Client
 Rutherford Appleton
 Laboratory/STFC
- Contractor Stepnell
- Contract
 NEC3 Design & Build
- Value £1.6m
- Dates
 Completed February 2014





Key Aspects

- operation during works
- Phased construction programme to installed by others





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