

# PROJECT **Medical case study**



## Bath NHS Trust



### client

Royal United Hospital, Bath

### facility required

Siemens Magnetom Avanto MRI Scanner and provision for a future Siemens CT Scanner.

### our role

Working with Midas Property Services to deliver a turnkey design & build mechanical and electrical solution for a high profile diagnostic imaging facility.

### engineering solution

- comprehensive design employing energy conservation strategies
- extensive enabling infrastructure works
- low voltage electrical works to accommodate required new supplies and changeover to essential generator back-up
- Faraday cage and provision of RF filters and wave guides for penetrating services
- helium quench vent pipe design and safety considerations
- provision of a new chilled water plant to supply the MRI shield cooler compressor cabinet
- bespoke building management system for monitoring control and fault feedback of all HVAC and MRI
- specific equipment and services
- full interface with hospitals existing services and networks
- scheme designed to facilitate the requirements of an NHS fixed budget
- fast track programme



### outcome

Completed on time and within budget. Works co-ordinated and conducted within a “live” Radiology department.