



### Description

- ◆ The Glenside Campus was constructed in the mid-1800s, as a military hospital, purchased by the University of the West of England in 1996
- ◆ Glenside campus is the home of the Faculty of Health and Applied Sciences, Department of Nursing and Midwifery, and Department of Allied Health Professions and Social Work
- ◆ Providing stimulating and inspiring setting state-of-the-art student teaching and learning accommodation, including inter-professional simulation suites

### Involvement

- ◆ We were appointed to undertake an energy survey to determine current energy use and offer viable ways of reducing energy costs
- ◆ We had to establish potential causes of underheating and overheating and poor ventilation to areas and propose solutions
- ◆ Undertake survey of existing systems, controls, pipework condition and measurement of existing flow rates
- ◆ Review existing flow rates against building demand requirements for adequacy
- ◆ Review thermal response of the building and the weather compensation controls of the existing systems to check for adequate start up allowance time in cold weather
- ◆ Propose new controls arrangement to provide energy and CO<sub>2</sub> reductions and improved environments, visible/maintainable to the estates department from a remote location.
- ◆ Establish a scope of future works which can prioritised and planned within a wider master plan of refurbishment works to the Glenside campus.
- ◆ Provided a detailed Energy and Controls Survey report outlining our findings and recommendations



### Benefits Delivered

- ◆ Our recommendations, on the effective use of energy systems, helps bring this historic building into the 21st century
- ◆ Identify practical solutions to improve the occupant comfort to teaching and learning spaces to specific problem areas regarding temperature or ventilation
- ◆ Identified existing problems with controls operation and configuration
- ◆ Recommendations identified key energy reduction initiatives for the site
- ◆ Provide overall condition summary of existing systems and requirement for any necessary remedial works
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*Recommendations to enable this historic building to run efficiently in the 21st century*