

Description

- ◆ A £2.5m 300 pupil 1,829m², 2-storey school building, on the existing Wellsway Multi-Academy Trust site situated to the east side of Keynsham
- ◆ The building, designed to Education Funding Agency (EFA) requirements, caters for pupils aged between 14 to 18, studying for careers in science, technology, engineering, and maths (STEM)
- ◆ Constructed to include two general teaching rooms, maths lab, two science labs, science pods, lecture theatre, enterprise space, CAD/CAM, metalwork, general workshop, kitchen, staff facilities and break-out spaces
- ◆ Accommodated specialist professional engineering equipment to support the curriculum to deliver education for STEM subjects towards the central sanctuary

Involvement

- ◆ Undertook the performance design of the mechanical and electrical services for this EFA development.
- ◆ The scope included initial feasibility, preparation of performance brief and technical advisor reviewing the detailed package of design information
- ◆ Full thermal and daylight modelling, to EFA standards, providing strategic advice in relation to the building form, fabric and orientation
- ◆ Delivery of ventilation and daylight strategies to the Education Funding Agency (EFA) specifications
- ◆ Captured the requirements of STEM teaching fixtures, fitting and equipment in the delivery of the performance design documents
- ◆ Active participants in design team meetings and the sustainability, accessibility, BREEAM, value and risk workshops
- ◆ Communicated the agreed solutions in a clear and coherent manner for stakeholder sign-off



Benefits Delivered

- ◆ Performance design prepared in Revit MEP to co-ordinate with the building and structure to remove risk of clashes
- ◆ Liaison with school representatives to capture equipment requirements in the tender documentation
- ◆ Co-ordination of services to specialist scientific engineering equipment, specialist laboratory equipment, and specialist ICT services.
- ◆ Worked as part of the collaborative design and construction team to deliver the project proposals within the limitation of EFA cost constraints
- ◆ Undertook benchmark design of thermal and daylight modelling in order to meet challenging EFA specification requirements

New teaching facility for STEM subjects to provide a 'word class experience' for every student