



### Description

- ◆ A £1.4m replacement and upgrade of the mechanical and electrical services at the University's Davy Building
- ◆ The scheme comprised full refurbishment of twelve, 1st and 5th floor laboratories and associated lecture rooms and offices

### Involvement

- ◆ SDS were commissioned to undertake the detailed design of the building engineering services for the works
- ◆ The refurbishment and facilities enhancement included the existing specialist laboratories, clean room, acid room, associated lecture rooms, offices, associated circulation, public space and sanitary amenities
- ◆ The scheme re-provided a number of specialist mechanical and electrical systems, IT and the AV infrastructure
- ◆ Services included upgrade of the laboratory gases, compressed air systems, local exhaust ventilation, fume cupboards, cooling to the specialist laboratory equipment, vacuum system and reverse osmosis water system
- ◆ Duties covered the review of peak summertime conditions and the implications of equipment heat gains
- ◆ The assessment included prediction of future climate change effecting the environmental conditioning equipment selection
- ◆ SDS liaised with the client, department head, end-user and specialist to establish the full brief and functional requirements and co-ordination of the end-users' specialist laboratory equipment



### Benefits Delivered

- ◆ All work was designed to be carried out minimising disruption to the existing mechanical and electrical services for the building and to the continued use of the adjoining areas within the occupied departments

*A successful £1.4m replacement and upgrade of twelve specialist laboratories, associated lecture rooms and offices within an occupied building*

