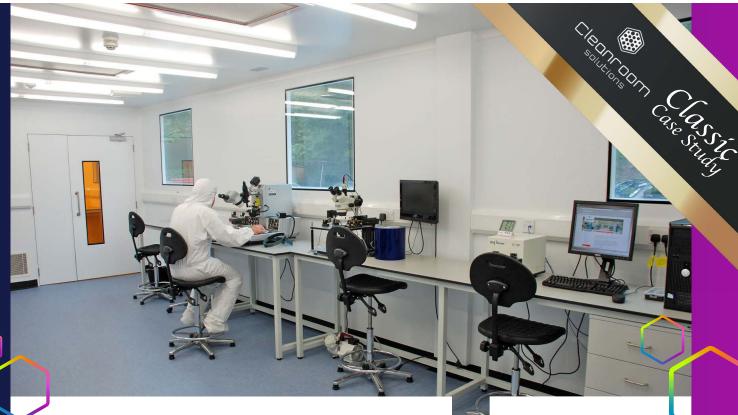


# GRAPHENE RESEARCH CENTRE

**CLIENT CASE STUDY** 



### THE CLIENT

University of Exeter School of Physics – their research encompasses a broad range of experimental, computational and theoretical physics, with research groups in acoustic and electromagnetic materials, quantum systems and nanomaterials, biomedical physics and astrophysics.

#### THE STORY

The University of Exeter School of Physics has set up a research centre for research into Graphene-based products and applications.

An existing laboratory space was converted into a suite of cleanrooms. Some existing walls were demolished, new doorways generated. The cleanrooms were then fitted out using a steel partition system, walk-on ceiling, vinyl flooring with a fully equipped changing room.

The facility was designed as







5 & 6

£500k



Project Value

Exeter

ISO class 5 and 6 with localised ISO class 5 laminar flow wet benches. Wet benches were custom designed to provide processing areas for acid and solvent-based processes. The benches were fitted out to the university's specific requirements and incorporated safety features such as eye washes and extract alarms.

A range of piped gas services were incorporated into the design mainly from bottle-stored gases. The compressed air was provided by a dedicated compressor and dryer. The compressor also fed a nitrogen generator to eliminate the need for bottled nitrogen. The rooms were fitted out with cleanroom benching, cupboard units, small power and 3-phase power in all work areas.

Continued on page two

# "They designed and built a first class facility"

David Anderson, Cleanroom Manager at the centre, said: "Cleanroom Solutions understood our requirements; they designed and built a first class facility with which we are very pleased. They demonstrated high levels of flexibility and commitment throughout the project, overcoming any challenges put before them."

> **David Anderson** Cleanroom Manager





Guardtech

## GRAPHENE RESEARCH CENTRE



**CLIENT CASE STUDY** 

#### Contact Us

- ♠ Unit C The Brocks, Homefield Rd, Haverhill, CB9 8QP
- **J** 0330 113 0303
- **≤** sales@guardtech.com
- www.cleanroom-solutions.co.uk





#### Continued from page one

A specially designed steel frame supported the air conditioning equipment with support stubs penetrating the roof to structural walls. Due to the close control (+/- 0.2 °C) a chiller was chosen to provide cooling. The control system was incorporated into the university BMS system.



### THE RESULT

David Anderson, Cleanroom Manager at the centre, said: "Cleanroom Solutions understood our requirements; they designed and built a first class facility with which we are very pleased. They demonstrated high levels of flexibility and commitment throughout the project, overcoming any challenges put before them."

For a 360° virtual tour click here

