

**B****E****S**

CASE STUDY NO 70

Compound Semiconductor Innovation Centre

- Full Turnkey Delivery
- Principal Contractor
- Fast-track delivery
- Project Value: £ 6,5m
- ISO7 Cleanroom
- Specialist Laboratories
- Grade A Offices
- Sectional Completion

BES were awarded the prestigious project to design and construct a new £6,5m Compound Semiconductor Innovation Centre which will provide a collaborative environment for innovation, testing and research.



Drawing on the company's cleanroom and laboratory experience across a number of technical sectors, including pharmaceutical and healthcare, BES delivered this project on a full turnkey basis, including architectural, HVAC and electrical services. We have taken the project from the RIBA stage 3 developed design through to construction, commissioning and validation and into user occupancy, transforming the fallow areas into 1000m² of cleanroom and laboratory space and 1500m² of grade A offices.



BES' in-house team has designed the technical facilities for compound semiconductor research, development and testing, including an ISO7-classified cleanroom and a number of laboratory environments. The scope of works includes design, construction and commissioning of a photonics lab, a power electronics lab, an advanced packaging suite, an evaluation lab, a radio frequency lab and a high power lab. The labs and cleanroom have been constructed from specialist cleanroom partitioning and contain client equipment.



The project also involved construction of open plan offices, comprising a number of meeting rooms, breakout spaces and a boardroom. Construction of the office areas includes a variety of highly bespoke architectural features and finishes, including installation of 60 acoustic sails, ceiling baffles and innovative felt plank ceilings, which require careful co-ordination with the exposed services. The offices will also feature a sunken split-level amphitheater and fabric-wrapped screens.

Early planning workshops and constructability reviews have helped to resolve a couple of major challenges on the project. The decision to install the raised access floor as one of the very first tasks along with the removal of a lab area mezzanine plant deck, have both provided real timeline benefits and have reduced construction risk. The project was delivered on a fast track construction programme with early access beneficial use of the office space a key driver for our Client.

