



Cleanrooms, Laboratories and Specialist HVAC



Boulting Environmental Services

Specialists in the Design and Build of
Sophisticated Clean and Sterile Facilities.

- **Sterile Environments and Cleanrooms.**
ISO 8, Class 100,000 - ISO 5, Class 100
- **ACDP Containment Levels 1 - 4.**
- **New Laboratories and Upgrades.**
- **Production, Packaging and Storage Facilities.**
- **HVAC Mechanical Building Services.**

Introduction

Boulting Environmental Services specialise in providing a 'Complete Turnkey Service' including architectural, HVAC and M & E services for the design and build of clean and sterile facilities, encompassing Cleanrooms, Laboratories, Manufacturing and Packaging areas.

As part of the Boulting Group, we pride ourselves on the successful and safe delivery of multi-disciplined projects from inception to completion.

We are one of the very few ISO 9001:2000 quality assurance certified specialist design and build companies, with all key development functions in house. Our specialist project groups have a wealth of experience and expertise to provide the complete package for the design, installation, commissioning and validation of sophisticated environmental facilities.

The promise that we make to our clients is to deliver a safe, reliable and responsive service, which is cost effective and value adding to their business.

Our overall aim is to add maximum value for our customers by working together to support mutual business success and in turn grow a long standing relationship founded on trust and transparency.



See us at: - www.boulting.co.uk/environmental

Cleanrooms

Design and Build

Boulting Environmental Services offer the complete design and build cleanroom solution, from initial design to final validation.



Introduction

Boulting Environmental Services Limited are a leading provider of Clean and Sterile facilities, we have an enviable reputation for supplying technology leading solutions, which in turn has earned us an impressive client base.

While the client will bring all of their current user requirements and future expectations for the proposed facility, we bring our expertise and experience, and then working together we create the optimum solution.

All this is achieved within the time and budgetary constraints of the project and all applicable European and International standards.



Scope of Supply

BES delivers complete Cleanroom projects from ISO 8 Class 100,000 - ISO 5 Class 100, and Microbiological facilities to ACDP Containment Levels 1 - 4.



Our Service

Developing any Cleanroom for a current or future process/operation or product can be challenging. Final solutions for systems, layouts, technologies and products depend on a detailed analysis of the type of products being manufactured, the process equipment required, and the specification to be used. While introducing the elements of people, product, regulations and budgetary constraints can further complicate the equation.

BES has highly qualified and experienced personnel to develop your Cleanroom project from conception to the final validation and handover. Our project teams have the technical knowledge, experience and forward thinking to match the demands of your project.

We will work with you throughout the whole process to ensure that your project meets your needs and aspirations.

Project Delivery

With our in-house resource of design, civil, mechanical, electrical, HVAC, process, and validation specialists we can effectively bid, secure and deliver projects without bias in any or all of these roles.

- Fast Track
- Alliance Partner
- Principle Contractor and Designer

CDM Regulations

We fully understand and can fulfil the roles of Designer, CDM Co-ordinator and Principle Contractor under the CDM regulations to fully co-ordinate and deliver your project, ensuring a safe and effective installation.

Laboratories

New build and Upgrades

Boulting Environmental Services are a specialist design and build Laboratory and Cleanroom Company who pride themselves on the successful and safe delivery of high quality turnkey projects within the pharmaceutical, bio-tech, semi-conductor, food and fine chemical markets.

As part of the Boulting Group we are able to offer a fully integrated turnkey service for the design, build, installation and validation of new build or upgrades/refurbishment laboratory projects.

BES have dedicated teams of architects, engineers and construction professionals with extensive experience in creating a wide range of laboratories and associated facilities including.

- **Research and Development Laboratories**
- **Instrument rooms**
- **Biotechnology Laboratories**
- **Drug Stability storage**
- **Quality Assurance Laboratories**
- **Small Scale Manufacturing Laboratories**
- **Flexi-Labs**



Flexi-lab

A concept that creates a range of facilities that are responsive to changing scientific requirements.

Introduction

The principle of the flexi-lab is to allow the laboratory workspace to be able to be re-configured when required, with a minimum of disruption and cost, so as to respond to any changing demands placed on it.

The Main Features

- Freeform open plan vinyl sealed laboratory floor area
- Relocatable glass wall between laboratory and write-up area
- Modular and Independently movable laboratory benching
- Mobile under bench storage units
- Full services infrastructure located within the ceiling area
- Flexible services delivery to point of use from moveable ceiling pods and bench mounted masts
- Fume cupboards, pods and masts simply connect to services and infrastructure via flexible hose connections and flying electrical leads.

The Benefits

- Quicker overall project design and implementation
- Large open plan laboratories ensure the science is not constrained by traditional rigid walls and fixed furniture configurations and outlook.
- The laboratory layout can easily be changed with minimum cost, allowing scientists to take control of their own environment
- Greater scientific output from less space leads to greater scientific interaction and improved effectiveness
- Flexi-lab concepts support sustainable construction principles



Aseptic Suites

BES has a long history of designing and building Pharmaceutical Packaging rooms, Pharmacies, Dispensaries and Specialised Storage Facilities.

Scope of Supply

Whether you require a new manufacturing or packaging facility, our integrated multi-disciplined design and build project teams have the experience to deliver your project. The requirements of the FDA and cGMP are inherent in our designs, ensuring all buildings and areas meet all relevant UK and International standards.



Specialist HVAC and Building Services

BES can supply a wide range of specialist HVAC and Building Services dedicated to the Pharmaceutical, Semi-Conductor, Food and Fine Chemical Industries.



As part of the BES 'turnkey solution' we would often supply our specialist HVAC and building services as an integral section within a laboratory and/or cleanroom project.

However we can also offer our services for any dedicated stand alone HVAC project, whether this is an upgrade to an existing facility, or if you are changing the functionality or use of a building we can design, install, commission and validate complete HVAC systems.

Partnering and Alliance Working

Working together in a Partnership or an Alliance brings together the different skills and expertise of the client, BES and the Boulting Group. That is why partnering arrangements either long term or for a single project alliance, offer many mutual benefits.



The Benefits

The benefits that can be gained from Partnering/Alliance working are many, these include:-

- Lower project costs by improved project delivery and less waste.
- Significantly reduced project lead times.
- One integrated team aligned on clear and common project objectives.
- Risks and Benefits owned by the whole project team.
- Open and honest relationships within the whole project team.
- Maintains high levels of Health, Safety and Welfare.
- Maintains high levels of Quality.



Using our Partnering/Alliance experience, which we have developed over many years with our key clients, we have consistently achieved significant savings in lead times and overall design and construction timescales.

Our Credentials

BES and the Boulting Group's service is underpinned by an uncompromising commitment to the highest standards of Quality, Health & Safety, the Environment, and of course in the development of our own people.

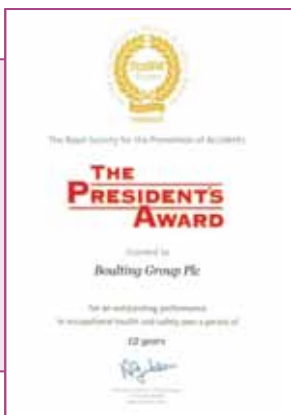


Quality

BES are one of the very few ISO 9001:2000 Quality certified specialists with a scope covering; Design, Installation and Commissioning of Building Environmental Services, including Clean and Sterile Facilities.

Investors in People

To be able to offer the best of services to our customers we need to recruit and retain the best people and talent available. The successful management of this process is demonstrated by our 'Investors in People' accreditation.



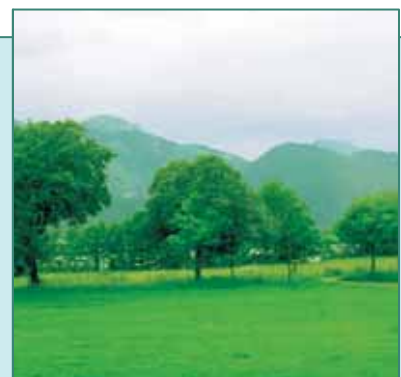
Safety

The service that BES and the Boulting Group offer is underpinned by an uncompromising commitment to the highest standards of Health and Safety, which is reflected in our RoSPA Presidents Award gained for an 'outstanding performance in occupational health and safety for over 12 years'.

The Environment

BES and the Boulting Group aim to ensure that all of our operations and activities are managed in an energy and resource efficient manner in order to minimise our impact on the environment.

Our environmental policy is to contribute to economic, environmental and social sustainability in the short and long terms by the continual improvement of our environmental performance while conforming to all relevant legislation.



The way Forward

BES and the Boulting Group believe that our customers are our partners, and that our technical expertise is a natural extension of your business. We recognise that we are dependent on our customers, and that your success means our success.

You are welcome to contact BES at any stage of your project for expert advice on any of the services we offer, through to complete turnkey project solutions.

Consulting

CDM Planning supervisor, Value Engineering, Asset Surveys, Energy Surveys.

Concept Studies

Feasibility and Options, Facility Analysis, Concept Design.

Design & Engineering

Arrange of design services including:

Architectural, Civil, Structural, Mechanical, Electrical, Process and Controls & Instrumentation.

Management

Our services include:

Project Management, Quality Control, Health & Safety, Programme & Cost Control, Construction, Commissioning, Validation – DQ, IQ & OQ,

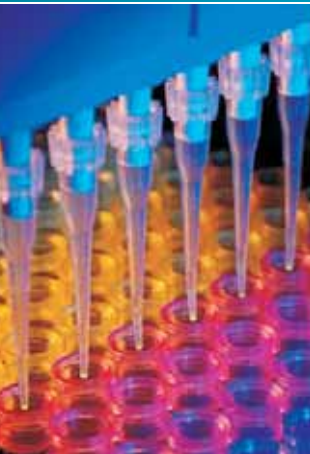


The Next Step

'Our company culture is founded on the principles of openness and co-operation in which the achievement of overall benefit to the project is the prime consideration. This attitude is embodied by all our employees and enables flexibility and understanding in the delivery of your project.'

We are sure that if you do decide to work with us that you will find our approach both refreshing and beneficial to your business. So please, contact us today'.





Boulting Environmental Services Limited
Greenside Way
Middleton
Manchester
M24 1SW

Telephone +44 (0)161 655 3344
Fax +44 (0)161 655 3399

www.boulting.co.uk