



Engineering Expertise

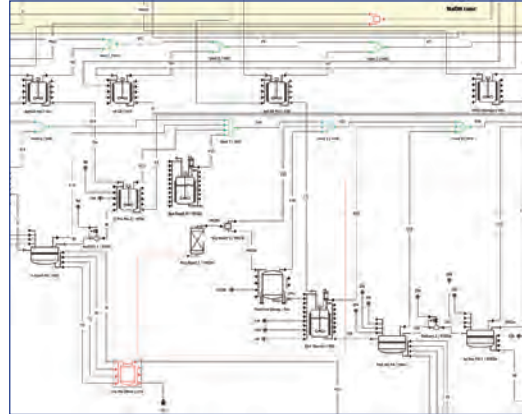
- Process
- Bioprocess
- Controls
- Instrumentation
- Electrical
- Mechanical
- Piping
- Safety
- Qualification
- Project Management
- Construction Management



Services

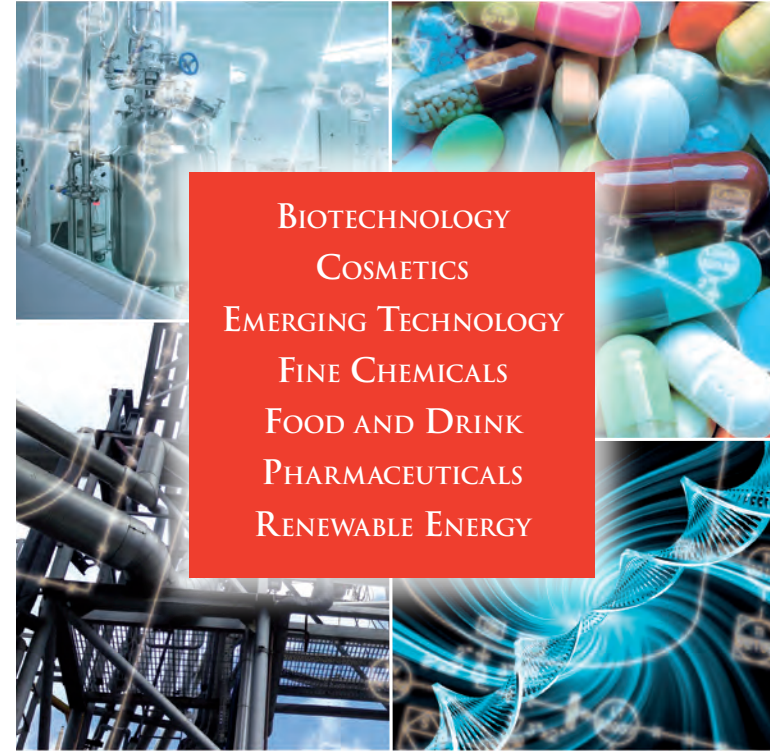
- Technology Evaluation
- Concept Design
- Process Modelling
- Feasibility Studies
- Preliminary Design
- Detailed Design
- Commissioning / Validation
- R & D / Technology Transfer
- Process Scale Up
- Safety Assessments
- Cost Estimation

PROCESS LED ENGINEERING DESIGN & PROJECT MANAGEMENT



An ISO 9001:2008 Certified Company

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BIOTECHNOLOGY
COSMETICS
EMERGING TECHNOLOGY
FINE CHEMICALS
FOOD AND DRINK
PHARMACEUTICALS
RENEWABLE ENERGY



ENGINEERING DESIGN
CONSULTANTS &
PROJECT MANAGERS

BPE is an innovative process led consultancy providing an engineering and project management service to the European business sectors in:

- Pharmaceuticals
- Bioprocess Industries
- Speciality Chemicals
- Fine Chemicals
- Food and Drink
- Toiletries and Cosmetics



Our key strength is in the application of process engineering knowledge which is supported by a large team of cross industry specialists.

We have an impressive track record of more than 15 years and over that period of growth have worked extensively with leading manufacturing companies across the industry sectors.

BPE's consultants and engineering team offer services in:

- Concept Studies
- Detailed Engineering
- Project & Construction Management
- Commissioning & Qualification
- Surveys and Investigations

Expertise

Process

Process Modelling
Cross Sector Experience
Technology Transfer / Scale Up
Process Development
DSEAR /ATEX
HAZOP
HAZAN
SIL Assessments
Safety Systems to IEC 61511
COMAH

Project Management

APM Trained Professionals
CDM Regulations (2007) incl Coordination Programme & Portfolio Management

Piping and Mechanical

ANSI B31.1 – Industrial Pipework
ASME BPE – Hygienic Pipework
Materials
Machinery
Power Generation
Pressure Vessels
Plant Layout
Pressure Systems Safety Regulations 2000
3D Modelling & Intelligent P&IDs

Electrical

Designs to BS7671
Mains Power Distribution
Plant Layouts
Fire and Security
Lighting
UPS

Regulatory

cGMP
GAMP
21 CFR Part 11, 210, 211
MHRA Orange Guide
ICH Harmonised Tripartite Guidelines
ISPE Baseline Guides

Control Systems

Batch Control to IEC 61512 – (S88)
System Interfacing to S95
Safety Instrumented Systems to IEC 61508
CHAZOP
DSEAR/ATEX
Instrumented Systems

