



EngD Biopharmaceutical Process Development

“HEINEKEN UK HAVE NOW TAKEN PART IN TWO ENGD PROJECTS AND AS A RESULT WE HAVE IDENTIFIED THE POTENTIAL TO REDUCE PLANT CLEANING COSTS BY A THIRD.”

RICHARD HEATHCOTE
SUSTAINABLE DEVELOPMENT MANAGER, HEINEKEN UK.



The BBTC adds value to a variety of industrial bioprocess projects spanning biopharmaceuticals, pharmaceuticals, regenerative medicine, industrial biotechnology and food

Current projects are focussed either on individual areas or the integration of a number of the areas and industrial partners play a central role in defining the research projects.

- + ABB
- + Alcyomics
- + Arthritis Research UK
- + AstraZeneca
- + Bristest
- + CPI
- + Croda
- + Demuris
- + Fujifilm Diosynth
- + GEA Pharma Systems
- + GlaxoSmithKline
- + Green Biologics
- + Heineken
- + High Force Research
- + Intertek
- + Lonza
- + Novartis
- + Onyx Scientific
- + Pall Life Sciences
- + Perceptive Engineering
- + Piramal
- + Procter and Gamble
- + Scottish Bioenergy
- + Shasun
- + Shepherd Neame
- + Tower Cold Chain
- + Unilever

Our EngD projects sit broadly within three key thematic research areas:

01. Measurement, data and knowledge management
02. Systems analysis and building process representations
03. Enhanced development and operational strategies

We work with industry to define research programmes that deliver benefits to the sponsor company, current successes include:

- + Process data interpretation
- + Process control, modelling and optimisation
- + Multivariate analysis in batch and continuous processes
- + Automated image analysis
- + Process scale up and scale down
- + Plant cleaning, verification and optimisation

www.nclbiosystems.net

t +44 191 222 5206 e info@nclbiosystems.net

Biopharmaceutical and Bioprocessing Technology Centre,
Merz Court, Newcastle University, Newcastle upon Tyne, NE1 7RU, England

