



# CPI

from Innovation to Commercialisation

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**Dr Emma Stokes**

Principal Analytical Scientist, Industrial Biotechnology and

Biorefining

**CATAPULT**  
High Value Manufacturing



# Who are CPI?



CPI is a UK technology innovation centre and the process element of the Government's High Value Manufacturing Catapult.



**National Printable  
Electronics Centre**



**National Industrial  
Biotechnology Facility**

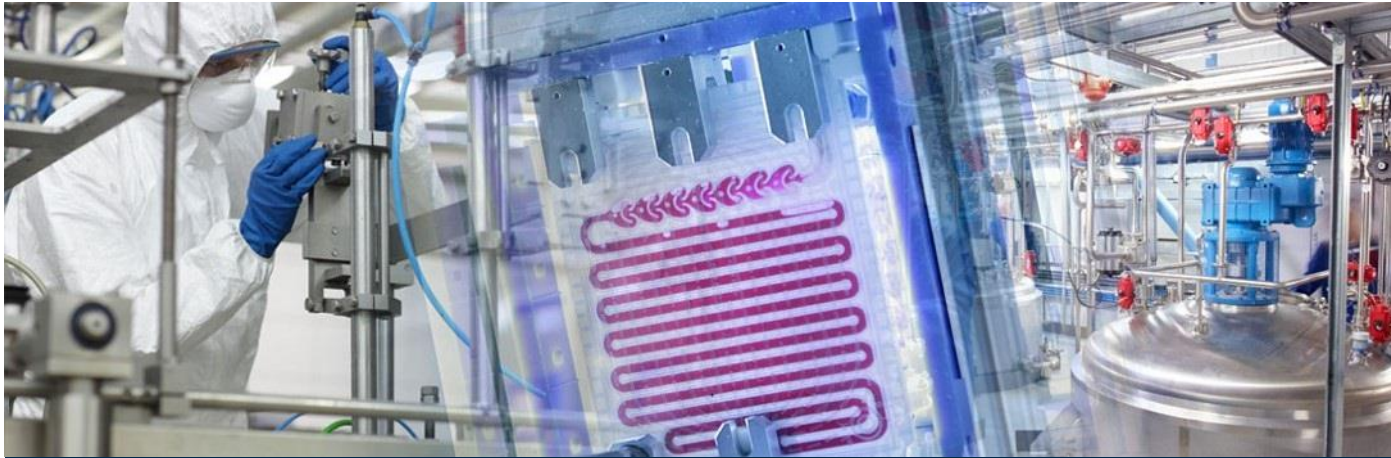


**National Biologics  
Manufacturing Centre**



**National Formulation  
Centre**

We use applied knowledge in science and engineering combined with state of the art facilities to enable our clients to **develop, prove, prototype** and **scale-up** the next generation of products and processes.



# Industrial Biotechnology and Biorefining at CPI



Conversion of Biomass to Chemicals, Energy and Fuels

# National Industrial Biotechnology Facility



State-of-the-art, open access process development facilities, providing a gram to kilo service for the production of enzymes, biochemicals, energy and fuels

Capabilities to develop processes from feedstock treatment to the delivery of product

**Biolabs:** Process Intensification / Establishment Under Scale Down, Analytical Equipment – C1 Gas fermentation

**Pilot Facility:** 10/20/50/750L fermenters, Associated DSP Flexible plug & play configuration

**Demonstrator Facility:** 10,000L fermenter, Flexible upstream and downstream processing

**Anaerobic Digestion Development Centre:** OBR, Horizontal and CSTRs up to 1,500L

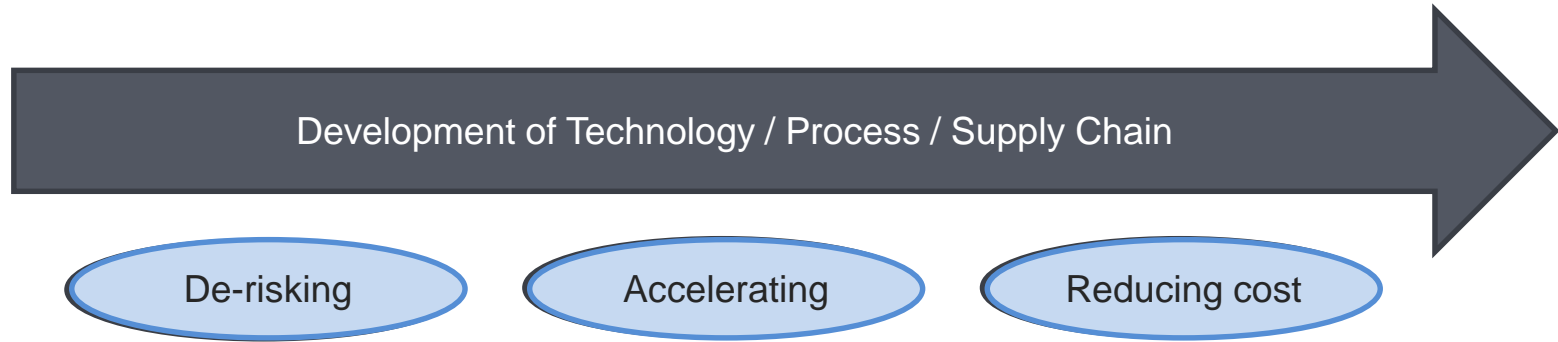


# Industrial Biotechnology and Biorefining Platform



R&D

Commercialisation

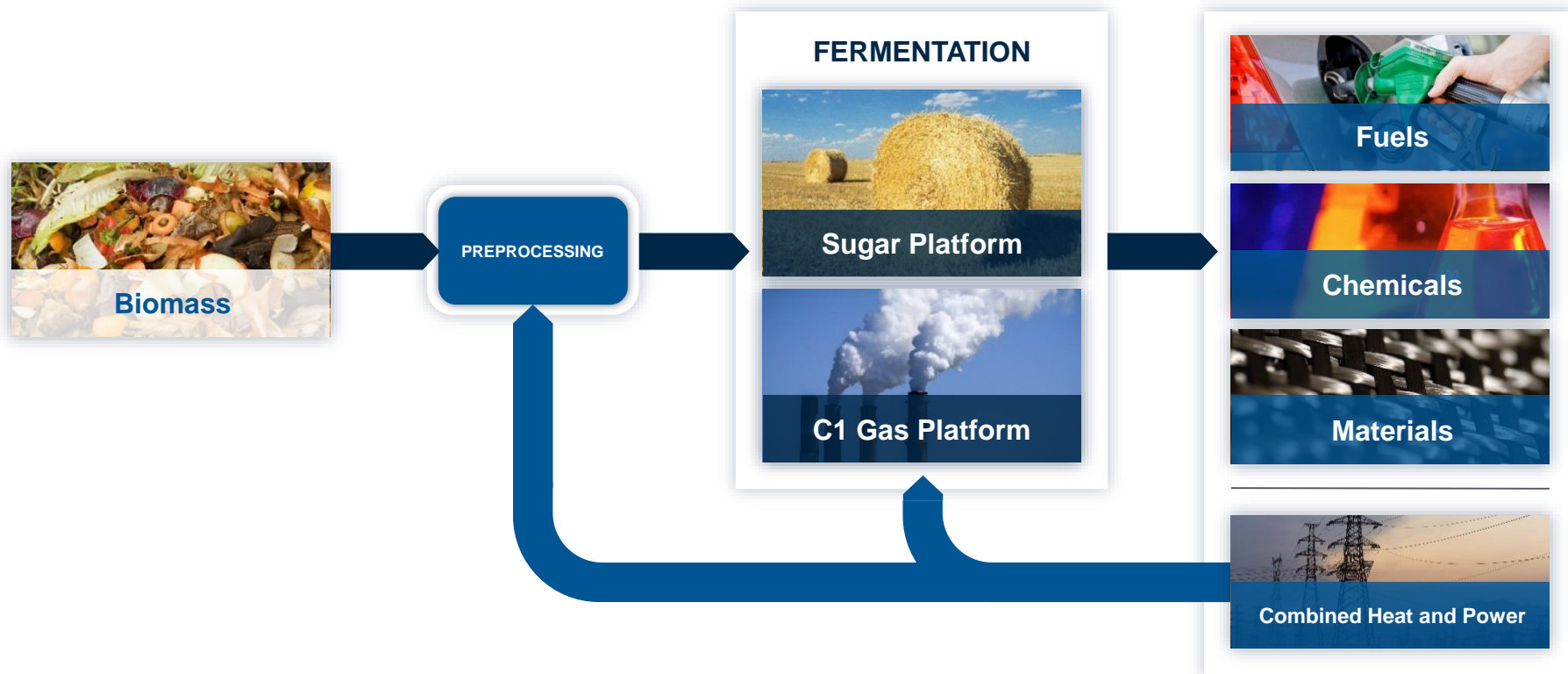


CPI provides.....

Guidance, Development & Optimisation, Piloting, Demonstration & Production

Facilities, engineering and bioscience expertise, 3<sup>rd</sup> party technologies & industrial partners

# Integrated Approach





# Integrated Bioscience & Engineering Services



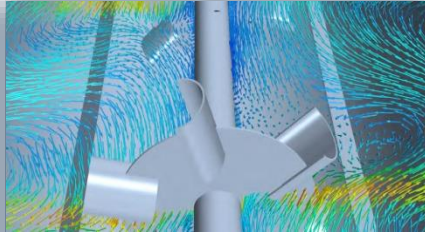
**Technology  
Landscaping and  
Due-diligence**



**Pilot Demonstration  
Assessment**



**Techno-Economic  
Assessment**



**Process Modelling**



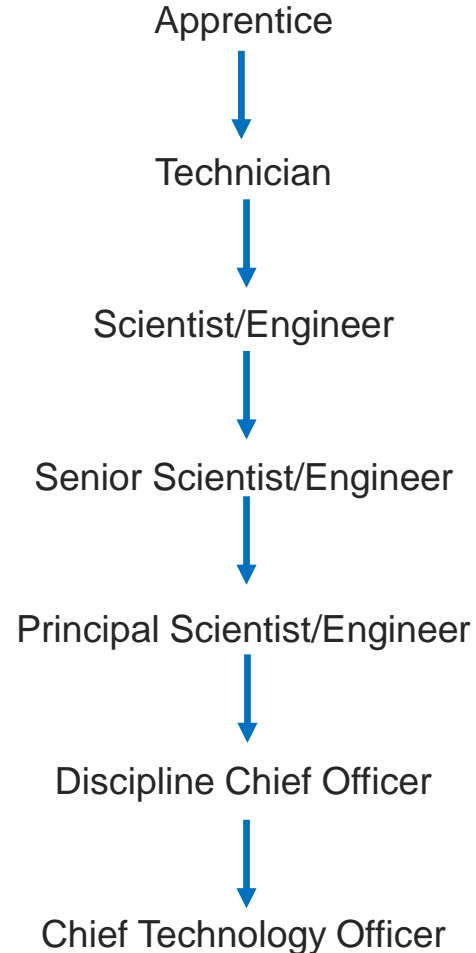
**Process Optimisation at  
Various Scales**



**Host Strain  
Characterisation**

# Careers at CPI

- Scientists operating in:
  - Fermentation Science
  - Microbiology
  - Downstream Processing
  - Bio-Processing
  - Process Analytical Technologies
  - Process Engineering
- Administration
- Finance
- Marketing
- SHE



Technical Career Path



# Current Vacancies



- All vacancies advertised on our website [www.uk-cpi.com](http://www.uk-cpi.com)
- Twitter: @ukcpi
- Facebook: CPI
- LinkedIn: Centre for Process Innovation
- Current Vacancies:
  - Principal Scientist – Full time
  - Administration Manager – Full time
- Recently closed positions include Senior Fermentation Scientist and Bioprocess Scale-Up Scientist

# Thank you...

For more information visit [www.uk-cpi.com](http://www.uk-cpi.com)

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