

# ONE DAY SYMPOSIUM ON THE FUTURE OF PHARMACEUTICAL MANUFACTURING

10th September 2025

Imperial College London,  
SW7 2AZ

Sargent Centre  
for Process Systems  
Engineering



IMPERIAL



Supported by:



Join leading experts from industry, government, and academia for a dynamic, full-day event exploring the future of pharmaceutical manufacturing. This symposium is designed to spark cross-disciplinary dialogue and highlight advances across the entire manufacturing landscape—from chemical and biochemical production to cutting-edge digital and experimental technologies.

## Key Topics Include:

- Innovative approaches to chemical and biochemical manufacturing
- All drug modalities, including small molecules, biologics, and cell & gene therapies
- Digital transformation and emerging tools in process development and operations

Emerging modalities—such as peptides, oligonucleotides, antibody-drug conjugates, and mRNA vaccines—are revolutionizing drug development. Their complexity, coupled with rising costs and global supply chain challenges, underscores the urgent need for innovation and digital integration in manufacturing.

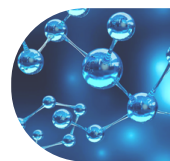
## Event Highlights:

- Expert presentations on the latest process and digital technologies
- Diverse perspectives on today's industrial challenges
- Interactive networking opportunities with leaders in the field
- Poster session showcasing recent breakthroughs in pharmaceutical manufacturing

This event is ideal for professionals across the pharmaceutical innovation ecosystem, including academic researchers, large pharmaceutical companies, contract development organisations (CDOs), and SMEs.

**Don't miss this opportunity to connect, collaborate, and lead the conversation on the next wave of pharmaceutical manufacturing innovation.**

For further information please contact: [sargent.centre@imperial.ac.uk](mailto:sargent.centre@imperial.ac.uk)



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# THE FUTURE OF PHARMACEUTICAL MANUFACTURING

10th September 2025, Imperial College London

## MORNING PROGRAMME

- 08.50 **Registration**  
*ACE Extension, Department of Chemical Engineering, Imperial College London*
- 09.20 **Chair's welcome and opening remarks**  
*Lecture Theatre 1, Department of Chemical Engineering*
- 09.30 **Innovation in pharmaceutical manufacturing – a funders perspective**  
*Dr Mark Talford, Innovate UK*
- 09.50 **Crystallisation strategies for optimising peptide synthesis and purification**  
*Dr Emily Guinn, Lilly & Professor Jerry Heng, Imperial College London*
- 10.10 **Bridging the gap: Innovations in vaccine development and manufacturing for enhanced global access**  
*Dr Cristiana Campa, GSK Vaccines*
- 10.30 **Refreshments**  
*Room 306, 3rd Floor, Department of Chemical Engineering*
- 11.00 **New methods for absorption profiling of advanced drug delivery systems**  
*Professor Christel Bergström, Uppsala University*
- 11.20 **Integrated modelling strategies for bispecific and multi-specific antibodies: current trends and industrial challenges**  
*Dr Anastasia Nikolakopoulou, Sanofi*
- 11.40 **Hybrid models and federated data for pharmaceutical manufacturing**  
*Dr Blair Johnston, Strathclyde Institute of Pharmacy and Biomedical Sciences*
- 12.00 **Accelerating pharmaceutical development using digital twin models & AI**  
*Dr Gavin Reynolds, AstraZeneca*

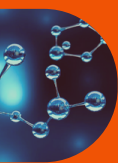
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## AFTERNOON PROGRAMME

- 12.20 **Lunch**  
*Room 306, 3rd Floor, Department of Chemical Engineering*
- 13.00 **Interactive Poster session**  
*Researchers will showcase cutting-edge research and engage in dynamic discussions with attendees*
- 14.40 **Collaborative research on flow chemistry – Shifting the paradigms of small molecule manufacturing**  
*Dr Christian Holtze, BASF*
- 15.00 **Integration of digital innovation into pharmaceutical process development**  
*Professor Brian Glennon, University College Dublin*
- 15.20 **New modality drugs demand new manufacturing processes**  
*Professor Andrew Livingston, Queen Mary University London*
- 15.40 **Refreshments**  
*Room 306, 3rd Floor, Department of Chemical Engineering*



## Launch event for Briefing paper on Making peptides: enabling a medical revolution

*Lecture Theatre 1, Department of Chemical Engineering*

- 16.00 **Introduction to Briefing Paper - Making peptides: enabling a medical revolution**
- 16.15 **Panel discussion: Advances and challenges in peptide manufacturing**  
**Chair:** Professor Cleo Kontoravdi, Imperial College London  
**Panellists:** Dr Spardha Jhamb, Novo Nordisk, Dr Sal Garcia, Lilly, Dr Piers Gaffney, Exactmer, Professor Eva Sorensen, UCL
- 17.10 **Symposium Poster awards and closing remarks**
- 17.20 - 19.00 **Drinks reception**  
*All participants are invited to join our post-event drinks reception*

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## Location:

The symposium will be held in the Department of Chemical Engineering at Imperial College London, Exhibition Road, London SW7 2AZ.

Please next page for Imperial campus map.

The nearest underground stations are Gloucester Road & South Kensington on the District, Circle and Piccadilly lines. Plan your route with the [Transport for London journey planner](#).

## Accommodation:

Please visit [this link](#) if you wish to book Imperial College (Halls) Accommodation, subject to availability.

## Registration fee:

### Symposium Registration fee - £75

This applies if you are attending the whole conference

**Making Peptides Briefing Paper  
Launch event - from 4pm** - free to attend but pre-registration required.

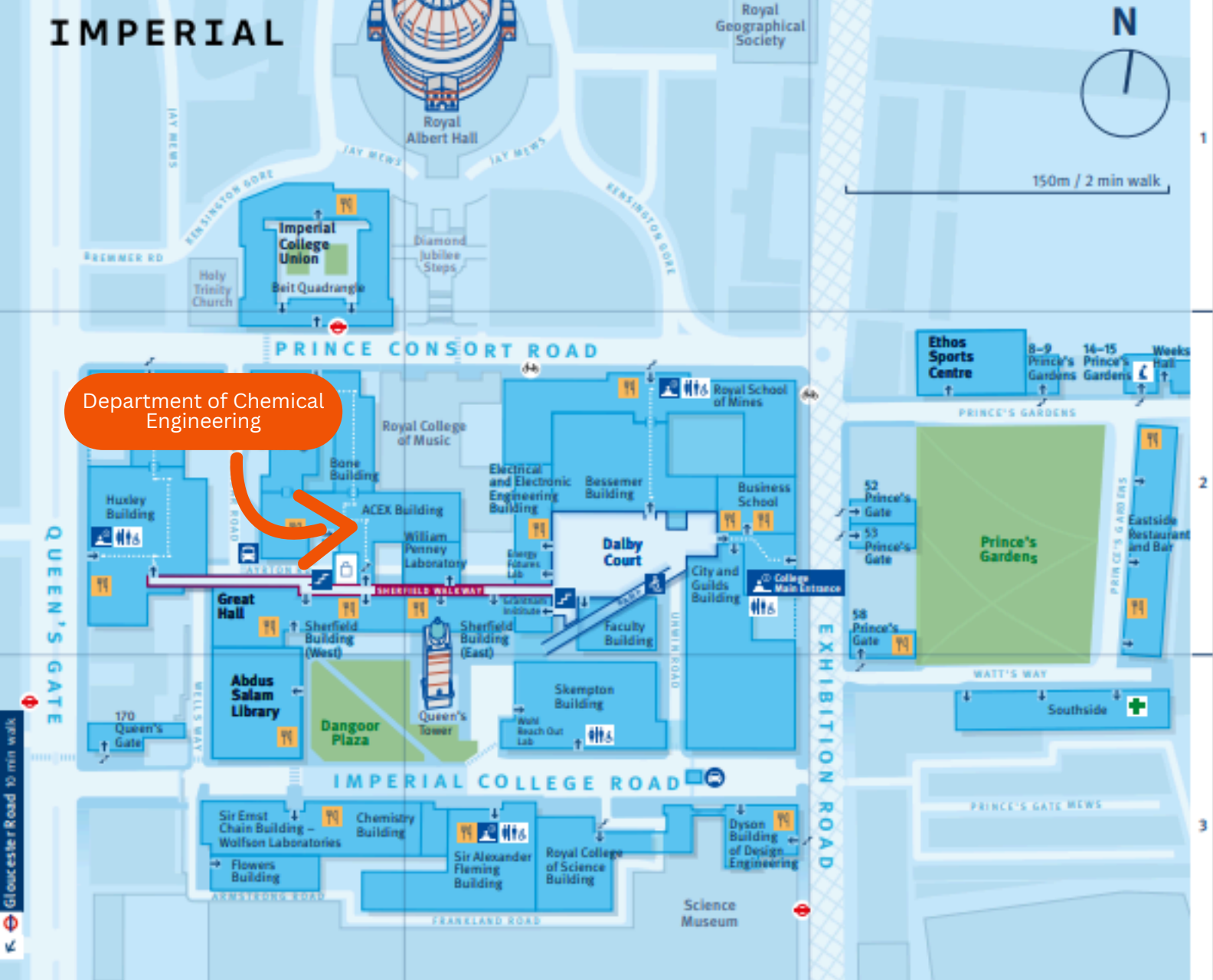
To register for the full symposium or the free Briefing Paper launch event please visit [this link](#) or go to <https://tinyurl.com/py9p9kx4>



For further information please contact: [sargent.centre@imperial.ac.uk](mailto:sargent.centre@imperial.ac.uk)



# IMPERIAL



## SOUTH KENSINGTON

## Campus map

- C2 8-9 Prince's Gardens
- C2 14-15 Prince's Gardens
- C2 52 Prince's Gate
- C2 53 Prince's Gate
- C2 58 Prince's Gate
- A3 170 Queen's Gate
- A3 Abdus Salam Library
- A3 ACES Building
- A1 Belt Quadrangle
- B2 Bessemer Building
- A2 Blackett Laboratory
- B2 Bone Building
- B2 Business School
- A3 Chemistry Building
- B2 City and Guilds Building
- B2 College Main Entrance
- B2 Dalby Court
- A3 Dangoor Plaza
- B3 Dyson Building of Design Engineering
- C2 Eastside Restaurant and Bar
- B2 Electrical and Electronic Engineering Building
- B2 Energy Futures Lab
- C2 Ethos Sports Centre
- B2 Faculty Building
- A3 Flowers Building

- B2 Grantham Institute
- A2 Great Hall
- A2 Huxley Building
- A1 Imperial College Union
- C2 Prince's Gardens
- B3 Queen's Tower
- A2 Roderic Hill Building
- B2 Royal School of Mines
- B3 Royal College of Science Building
- B2 Sheffield Building (East)
- A2 Sheffield Building (West)
- B3 Sir Alexander Fleming Building
- A3 Sir Ernest Chain Building - Wolfson Laboratories
- B3 Skempton Building
- C3 Southside
- C2 Weeks Hall
- B2 William Penney Laboratory
- B3 Wohl Reach Out Lab

### Key

- Visitor reception
- Chaplaincy Multi-Faith Centre
- Imperial College Union Shop
- Food and drink
- Internal route
- Building entrance
- Building entrance/exit via steps only
- Campus shuttle pick-up/drop-off point
- Health Centre
- Underground station
- Vehicle entrance
- Cycle hire
- Bus stop
- Publicly accessible toilets



For more information about the accessibility of our buildings search Imperial College London at [www.accessible.co.uk](http://www.accessible.co.uk)

