

## our Flow Process Capability continuous to Expand to Sandwich Site

### Lab-Scale Flow Equipment & Modules Installed

The newly commissioned flow equipment enables a wide range of advanced continuous processes through the following **platforms**:

- **Plug Flow Reactor Platforms (Low & High Temperature capabilities)**
- **Heterogeneous Hydrogenation Platform**
- **Biocatalysis Platform (Immobilised Enzyme Applications)**
- **Grignard Synthesis & Reaction Platform**
- **'Plug and Play' Control System**

Laying the groundwork for fully integrated lab and plant operation, this initial investment is pivotal for further expansion in our UK site and sets the stage for future investment at **both pilot and manufacturing scales**.



## Why Our Flow Chemistry Stands Out

- **Enhanced process safety due to better control of exothermic and hazardous reactions**
- **Improved reaction efficiency and product consistency through precision control**
- **Reduced solvent and energy consumption, supporting greener chemistry**

We differentiate ourselves through **our unique capability** to support the entire process development lifecycle. Our in-house expertise spans route scouting, development, and scale-up — seamlessly integrated with our custom equipment manufacturing capabilities. This allows us to offer solutions and equipment precisely tailored to each client's specific process requirements.

## Expanding our cGMP Drug Product capabilities: Three New Facilities Launched in 2025!

As demand continues to grow for peptides, oligonucleotides, and highly potent drugs, we're strategically expanding our cGMP manufacturing capabilities. Our new facilities **for prefilled syringes, cartridges, and  $\beta$ -lactam oral solid doses** are designed to deliver agile and scalable solutions that support your current and future pipeline!

- **Prefilled Syringe (PFS) Facility:** Equipped with advanced **single-use system, PFS filling line, isolator, and packaging/assembly system**. This facility supports various syringe specifications (e.g., 1 mL and 2.25 mL). The facility is designed to meet customers' various needs for auto-injectors, safety guard, and injection-assistive devices.  
Capacity: **40 million units/year**
- **Cartridge Facility:** The **fully automated wash-sterilize-fill-pack line** delivers precise filling across 1.5mL to 3mL formats, specifically engineered to meet the multiple dosage form requirements of peptide and oligonucleotide drugs.  
Capacity: **100 million units/year**
- **$\beta$ -Lactam OSD Facility:** Equipped with **fully enclosed material dispensing and transfer systems**. This facility fully meets **OEB5** containment requirements. It supports the production of solid dispersion with spray drying process and multiple dosage forms including tablets, granules, and capsules.

Construction of these facilities are nearing completion, with equipment installation and commissioning set to begin shortly. With these advanced capabilities, we're proud to help accelerate the next generation of therapeutics!

## Unveiling Our Next-Gen Process Chemistry R&D Laboratories

We are excited to announce that our newly constructed R&D laboratories dedicated to process chemistry are now operational at our Woburn site in the US. These state-of-the-art labs offer a modern, flexible environment equipped with advanced instrumentation and scalable technologies to drive efficient route scouting, process optimization, and tech transfer. Our process chemistry labs enable rapid development of **robust, cost-effective synthetic pathways from preclinical to phase 1**. Partner with us to accelerate your drug development journey with science-driven solutions and proven expertise.

**Contact us to learn how Asymchem Boston can support your small molecule API development needs today!**

