

FUJIFILM

Diosynth
biotechnologies

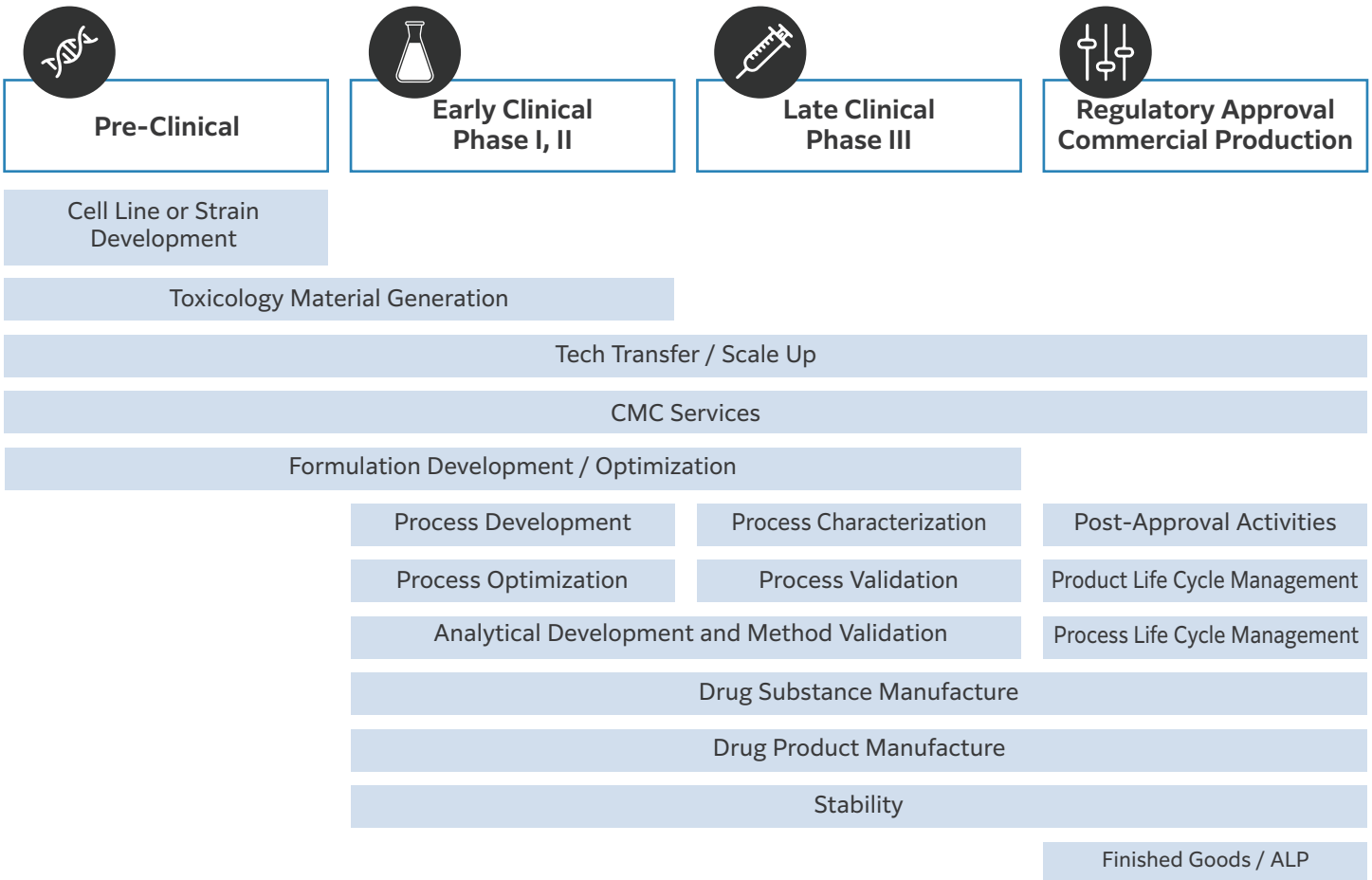


VACCINE SERVICES

Your Vaccines CDMO Partner for Life

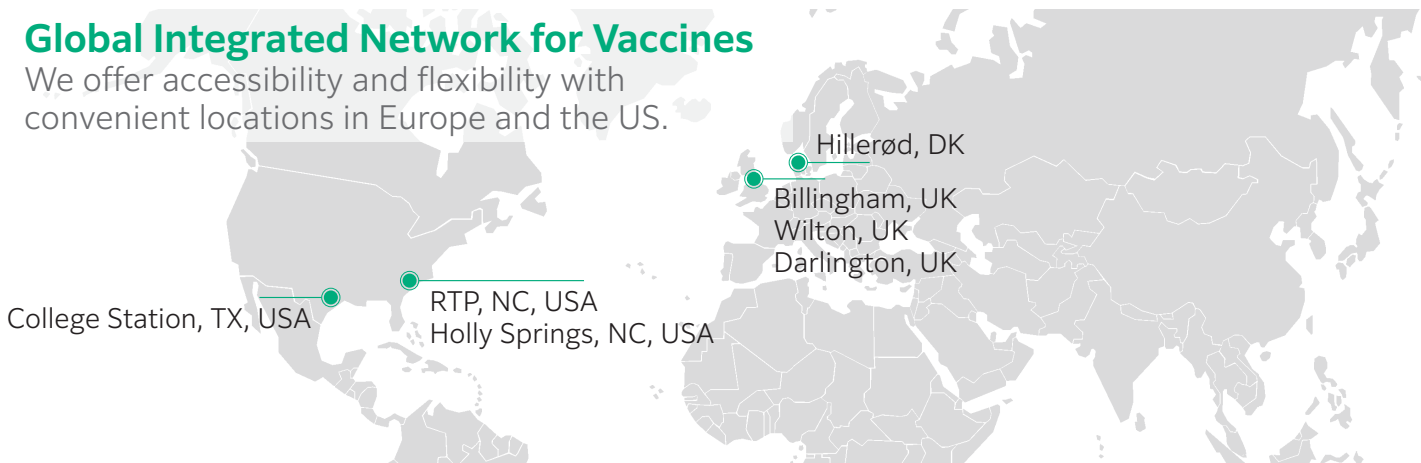
Advancing vaccines from pre-clinical to commercial supply across multiple modalities including mammalian, microbial and insect cell culture for viral/bacterial and non-viral vaccines.

Comprehensive End-to-End Service



Global Integrated Network for Vaccines

We offer accessibility and flexibility with convenient locations in Europe and the US.



Partners for *Life*

Global Vaccine Capabilities



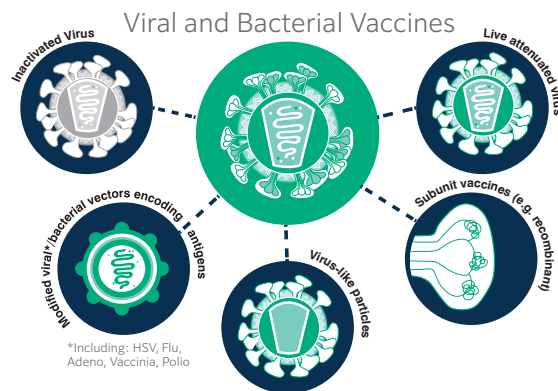
Sites and Locations	College Station Texas, USA	RTP North Carolina, USA	Billingham, UK	Holly Springs North Carolina, USA	Hillerød, DK
Overview	High-Throughput Protein and Viral Vector Vaccine Development and Drug Substance, Drug Product Manufacture (Clinical and Commercial)	Recombinant Protein Vaccine Development and Drug Substance Manufacture (Clinical and Commercial)		Large-Scale Vaccine Manufacture Capabilities and High-Throughput Filling and Finished Goods (Clinical and Commercial)	
Technology and Platforms	CHO, Insect cells (BEV e.g. Sf9, Sf+), HEK293, MDCK, A549, HeLa	CHO, Insect cells (BEV e.g. Sf21, Sf9, B1IC), NS0, E.coli, S.cervisiae, P.pastoris		CHO and Insect cell (BEV) capable	
Experience	Sub-unit vaccines Live / Attenuated viral vectors Split-antigen (i.e. influenza)	Mammalian, Insect, and Microbial-derived sub-unit vaccines Virus-Like Particle-based Vaccines		Sites are primarily focused on monoclonal antibody based programs, but are capable of producing high-throughput vaccines at very large quantities.	
Capacity	4 x 2,000 L Single-Use Includes high through put BEV facility (Bldg 200) Future Expansion: 2 x 5,000 L Single-Use	Mammalian/Insect up to 2,000 L dedicated suite Microbial up to 2,000 L	Mammalian/Insect up to 2,000 L Microbial up to 5,000 L	Stainless steel production 8 x 20,000 L online summer 2025 8 x 20,000 L online late 2027	Stainless steel production 12 x 20,000 L available 8 x 20,000 L online mid 2026
Throughput	Base Case: ~50 - 100 x 2,000 L DS Batches per year / suite Future expansion: 100+ x 5,000 L DS batches per year/suite	Base Case: ~20 batches per year in each asset	Base Case: ~20 batches per year in each asset Future Expansion: 100+ 2,000 - 5,000 L DS batches per year	Drug Substance: 50 - 85 x 20,000 L batches per year / suite Drug Product: 30M units per year	Drug Substance: 50 - 85 x 20,000 L batches per year / suite Drug Product: 30M units per year

Vaccine Drug Product and Finished Goods Services

Development and manufacturing capabilities designed with patient safety and centrality in mind.

For your liquid drug product we offer clinical batches up to 10,000 units in RTU nested vial format. For late phase clinical and commercial batches we offer up to 150,000 units using RTU nested components in vial, syringe, or cartridge format.

- Drug product process and formulation development, and process characterization support
- Accelerated and long-term stability studies
- Release of clinical and commercial products – including European qualified persons
- Assembly, labeling and packaging support under our finished goods services:
 - o Assembly into auto-injectors and PFS components
 - o Labeling of vials, PFS and auto-injectors
 - o Primary packaging in single or multi-unit pack format
 - o Secondary packaging



Contact us to discuss your science.

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