

FUJIFILM

Diosynth
biotechnologies

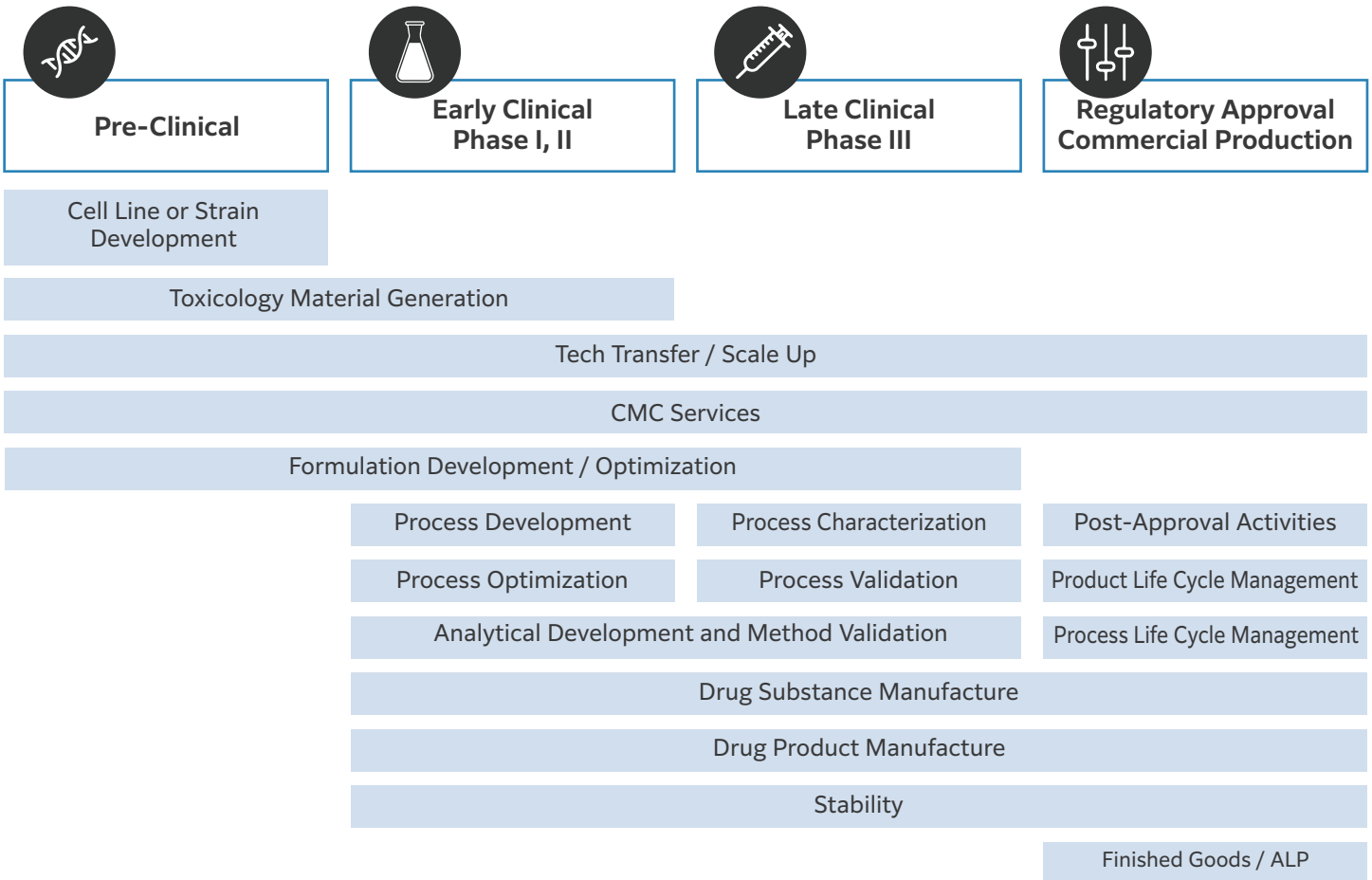


VACCINE SERVICES

Your Vaccines CDMO Partner for Life

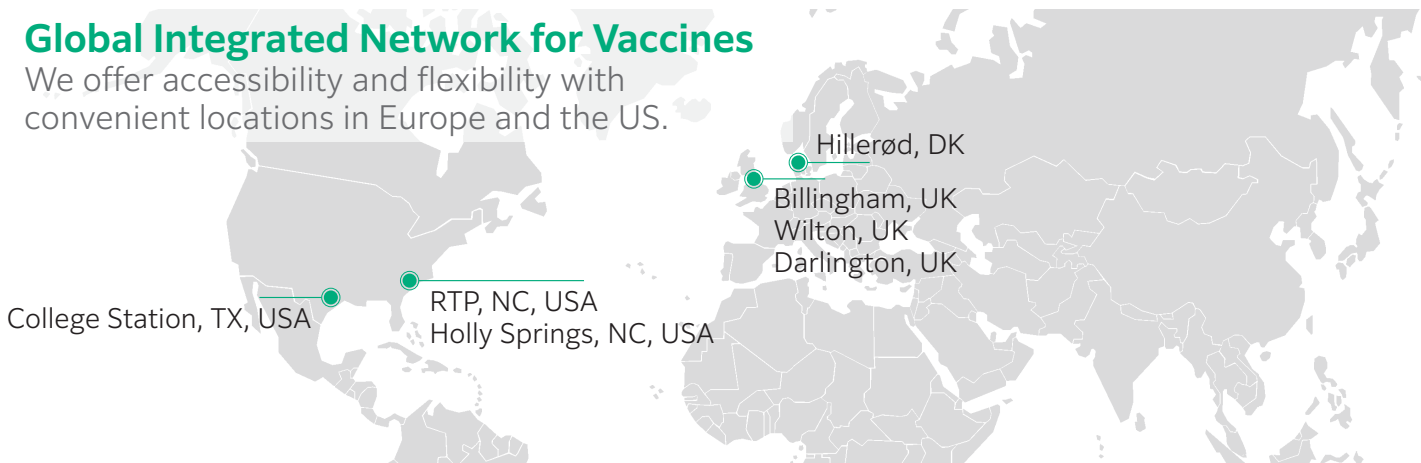
Advancing vaccines from pre-clinical to commercial supply across multiple modalities including mammalian, microbial and insect cell culture for viral/bacterial and non-viral vaccines.

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*

[Contact us](#) to get the latest updates on our network and capabilities.

Global Vaccine Capabilities



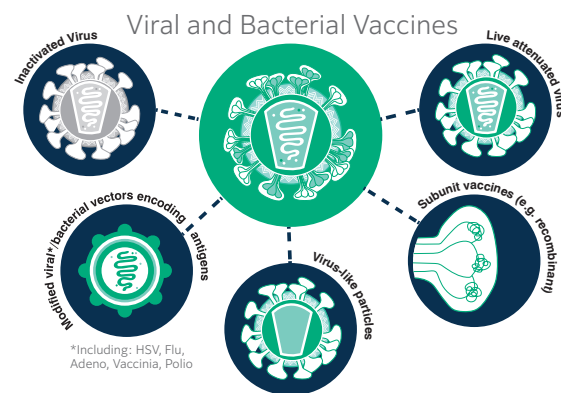
| Sites and Locations | College Station Texas, USA | RTP North Carolina, USA | Billingham, UK | Holly Springs North Carolina, USA | Hillerød, DK |
|--------------------------|--|--|---|--|---|
| Overview | High-Throughput Protein and Viral Vector Vaccine Development and Drug Substance, Drug Product Manufacture (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 Cell (Sf9, Sf+), HEK293, MDCK, A549, HeLa | CHO, Insect Cell (Sf21, Sf9, BIIC), NS0, E. coli, S. cerevisiae, P. pastoris | | CHO, Insect Cell-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 | Two suites each with 4 x 2,000 L Single-Use Future Expansion: Two suites each with 2 x 5,000 L Single-Use | Mammalian/Insect up to 2,000 L Microbial up to 2,000 L | Mammalian/Insect up to 2,000 L Microbial up to 5,000 L | Three suites each with 4 x 20,000 L Stainless Production (5 suites by end 2026) Total capacity: 12 x 20,000 L | Four suites each with 4 x 20,000 L Stainless Production (4 suites by end 2027) Total capacity: 12 x 20,000 L |
| 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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