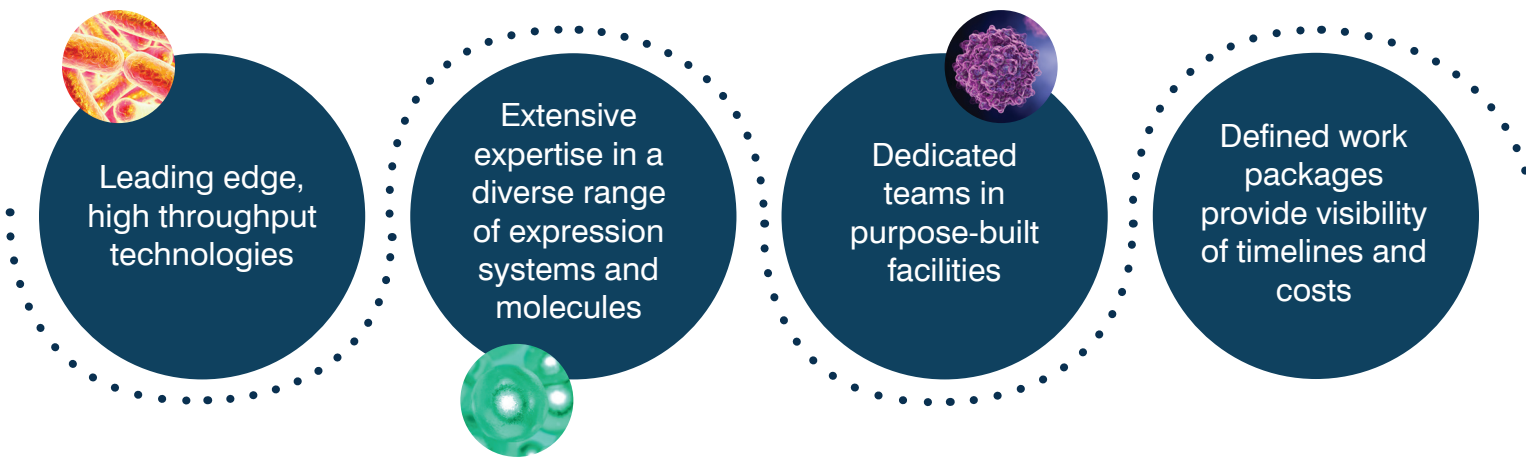


**PROCESS
CHARACTERIZATION
AND VALIDATION
SERVICES**

302,969	1,089,928	1,084,11	1,063,7	1,048,0	1,071,0	1,050,200	1,055,221	1,019,945	1,019,37	1,078,0	1,077,553	1,068,473	1,064,885	1,051,13	1,021,94	1,009,3	
302,969	295,228	290,100	286,958	282,723	280,72	289,3	289,971	292,808	273,3	271,3	270,0	287,709	285,826	285,35	278,7	276,7	
54,767	150,0	146,884	145,802	140,2	147,1	148,3	148,602	149,108	145,5	148,0	147,601	145,184	145,0	143,5	143,5	149,2	
48,202	44,636	143,216	141,157	14,0	14,0	14,037	141,369	143,700	13,2	13,2	11,9	11,363	11,312	10,845	10,576	10,127	
17,052	16,527	15,945	15,565	1,000	1,000	1,000	13,918	13,124	1,000	1,000	1,000	11,363	11,312	10,845	10,576	10,127	
9,331	9,067	8,638	8,516	8,105	6,5	6,311	7,607	7,134	7,50	7,466	6,185	6,092	5,994	5,985	5,563	5,574	
7,721	7,460	7,307	7,049	6,855	6,613	6,311	5,990	5,990	5,65	5,11	5,000	5,220	4,851	4,591	4,564	4,423	
59,869	56,352	53,336	51,162	49,225	47,000	45,600	40,533	40,127	38,000	37,000	36,000	33,675	31,987	30,756	29,508	28,297	27,103
30,980	28,819	27,490	26,600	25,560	24,700	23,800	21,298	21,186	18,941	18,941	18,941	17,659	17,060	16,550	15,933	15,408	14,854



Your CDMO Partner Advancing Effective Submissions for Life-Changing Medicines

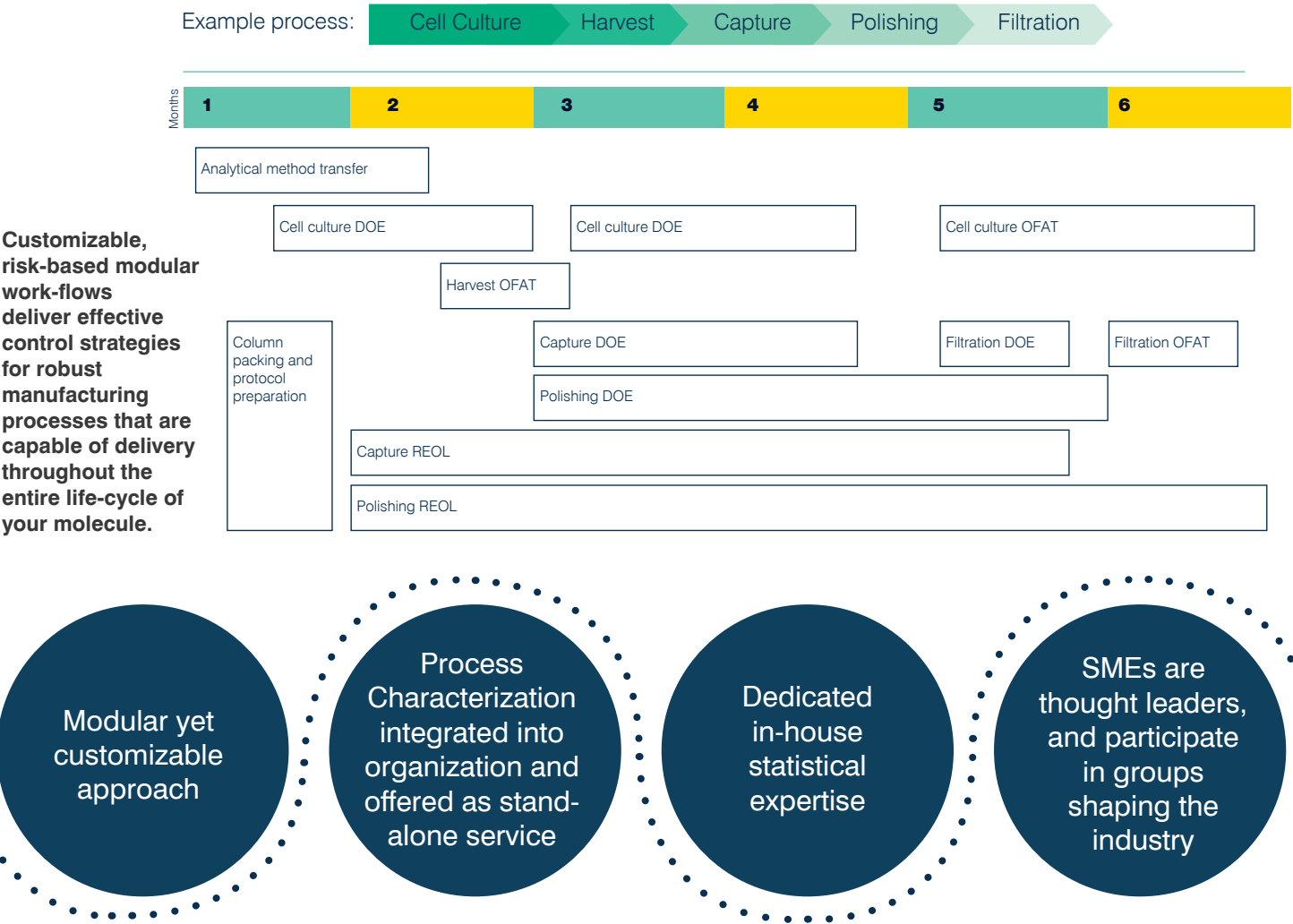
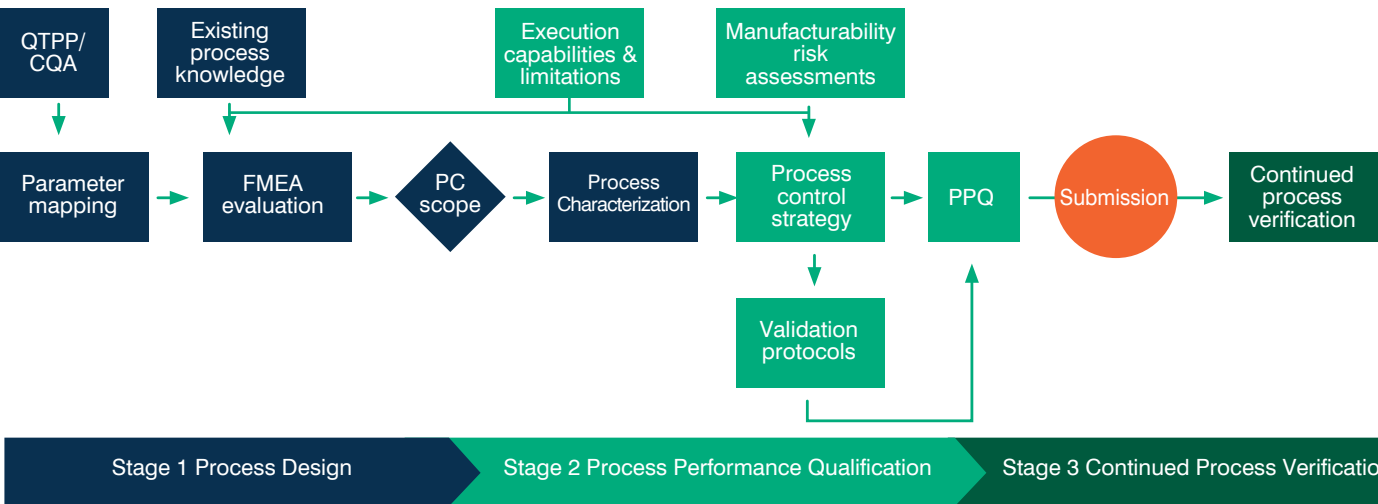


We deliver robust control strategies and successful Process Performance Qualification (PPQ) for long-term production for our partners’ journeys.

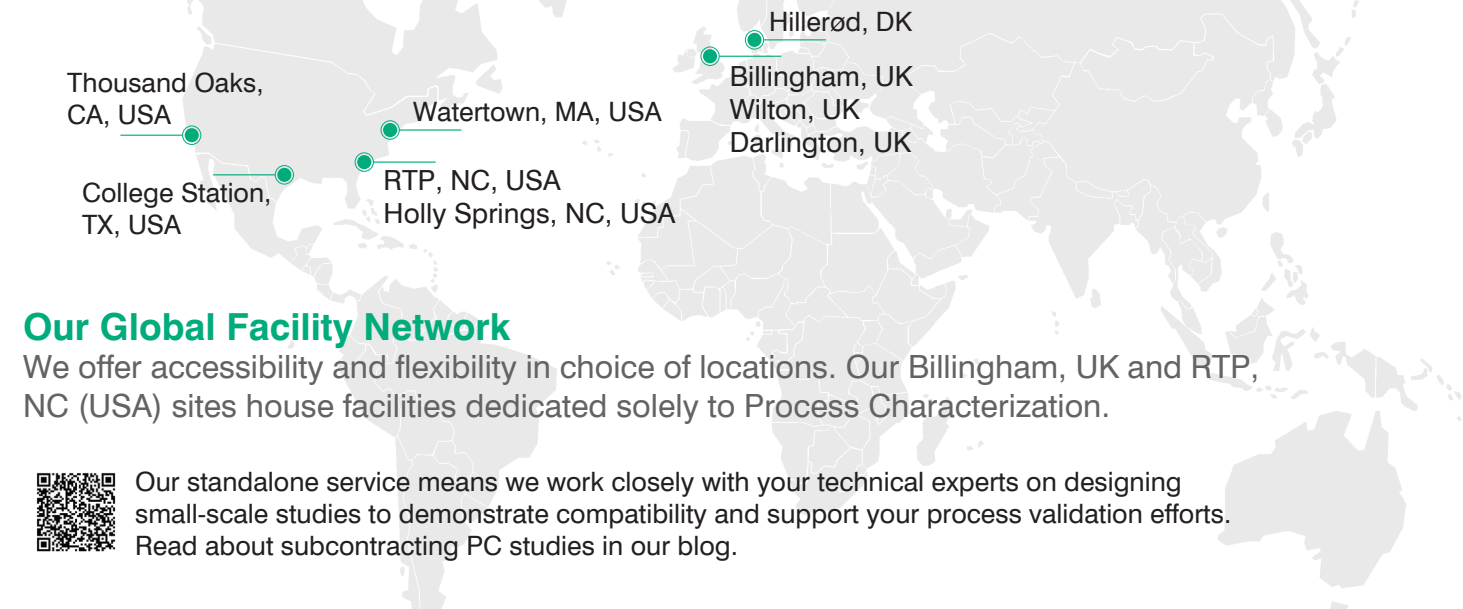
Facilities and Scientists Dedicated to Process Characterization Support:

- Failure Modes and Effects Analyses (FMEA)
- Analytical method qualification
- Unit operation screening and/or Design of Experiment studies
- Intermediate and media stability studies
- Resin and membrane reuse
- Robustness and/or linkage studies
- Scale down model verification
- Programs associated with process validation and commercial manufacturing
- Stand-alone process characterization programs

Extensive and recent approvals across a range of modalities for manufacturing scales 100 L to 20,000 L



Our global network delivers agile solutions for our clients on their journey to commercialization for mammalian, microbial and advanced therapies



Our Global Facility Network

We offer accessibility and flexibility in choice of locations. Our Billingham, UK and RTP, NC (USA) sites house facilities dedicated solely to Process Characterization.



Our standalone service means we work closely with your technical experts on designing small-scale studies to demonstrate compatibility and support your process validation efforts. Read about subcontracting PC studies in our blog.

Our experts deliver your program right when you need it.

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

Partners for *Life*
Advancing tomorrow's medicines



Contact us to discuss your science.

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