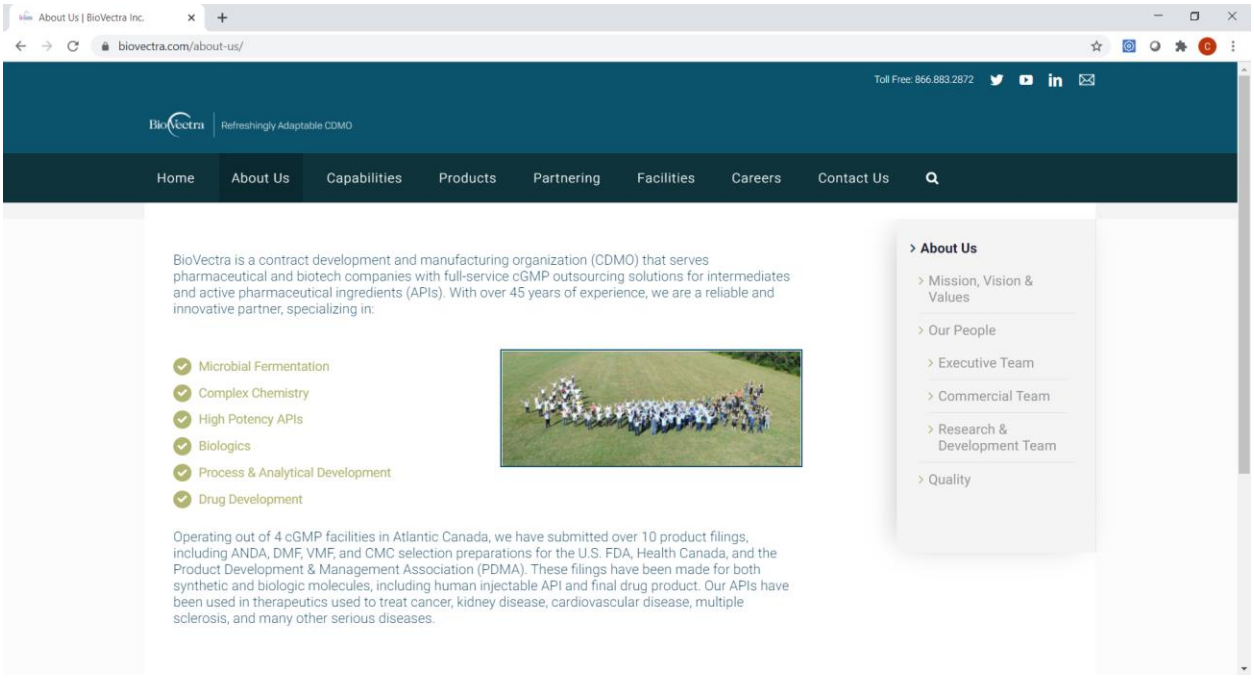

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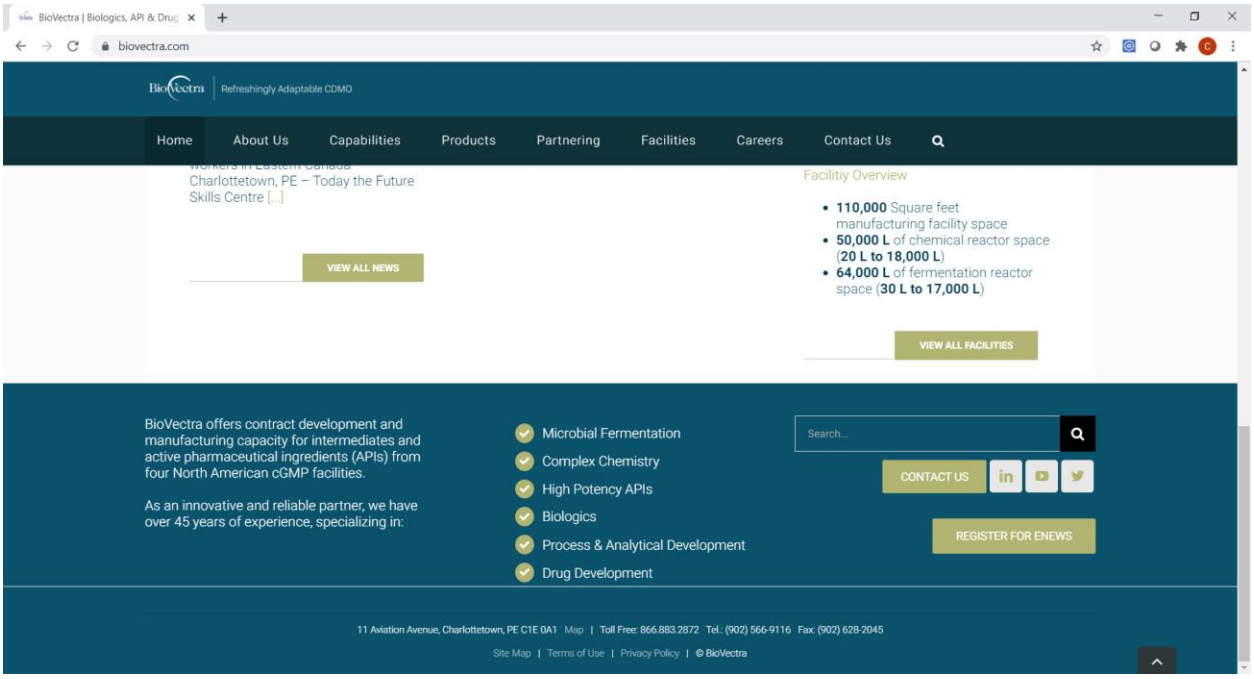

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Biologics Contract Drug Manufacturing

From Cell Line Development to BLA Filing

- Innovation
- Modern Manufacturing
- Unconstrained Business

Twenty years ago we were presented with a complex Microbial Fermentation project by a major pharmaceutical company who needed a high quality, cGMP North American supplier. Fourteen months and a capital expansion later, we entered into commercial manufacturing since then we have become an industry leader of both Small and Large Molecules, with scalable cGMP operations from 30L to 17,000L

This core competency has naturally led us into the Microbial Biopharmaceutical business, rooted in our modern Microbial Biologics facility in Windsor, Nova Scotia, Canada. This distinct facility is equipped to work with a range of biosafety level one (BSL-1) expression systems, including:

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- *E. Coli*
- Pichia Pastoris
- Saccharomyces Cerevisiae

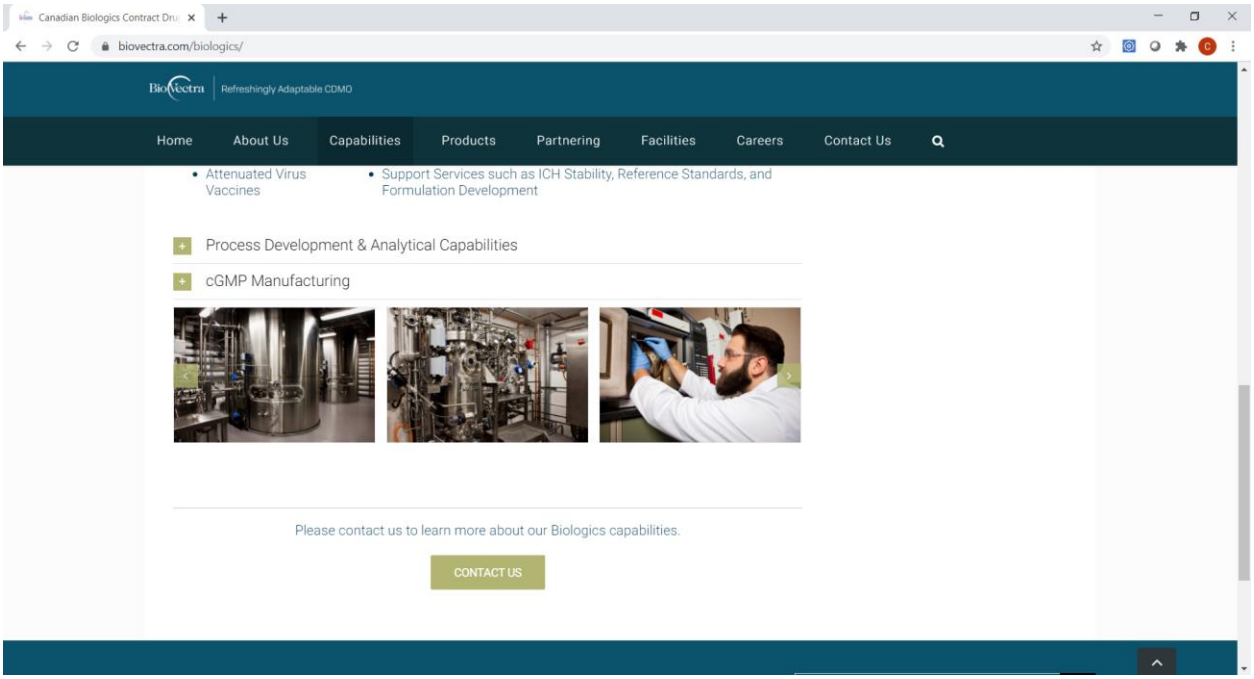
As a rare provider with competencies in both chemistry and biologics, we offer fast-moving development companies the opportunity to streamline their supply!

Types of Drug Substances

- Proteins
- Enzymes
- Antibody Fragments
- Peptides
- Attenuated Virus

Process Development for Complex Fermentation Processes and Difficult To Purify Molecules

- Analytical development for most Biologic release assays
- cGMP Manufacture for preclinical to commercial (Scale from 30L to 17,000L) and cGMP Cell Banking
- Post-production modifications (PEGylation, Conjugation, Liposomal Encapsulation)
- Support Services such as ICH Stability, Reference Standards, and



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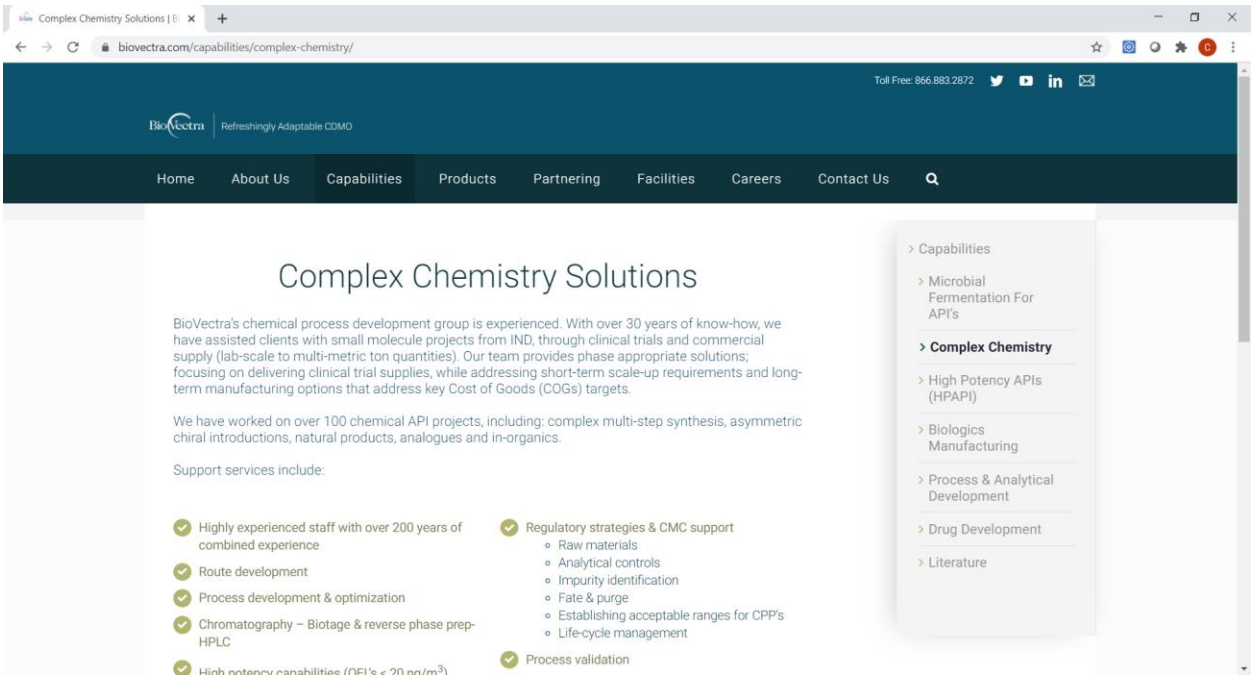

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Microbial Fermentation of Enzym

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Microbial Fermentation For API's

BioVectra is an industry leader in microbial fermentation of both small and large molecules, with scalable cGMP operations from **30L** to **17,000L**. In response to market demand we have invested in several expansions to double our capacity to **64,000L**, which is located across two geographically distinct locations providing commercial redundancy.

In addition to industry standard downstream processing techniques, BioVectra's core synthetic chemistry capabilities have been integrated into our fermentation service offerings, allowing for complex solvent-based purification processes. This is further extended by a core focus on natural product syntheses from secondary metabolites produced by microbial fermentation to

Types of Drug Products:

- Small molecules
- Proteins
- Enzymes
- Antibody fragments
- Peptides

Range of Microbes:

Microbial Fermentation of Enzym

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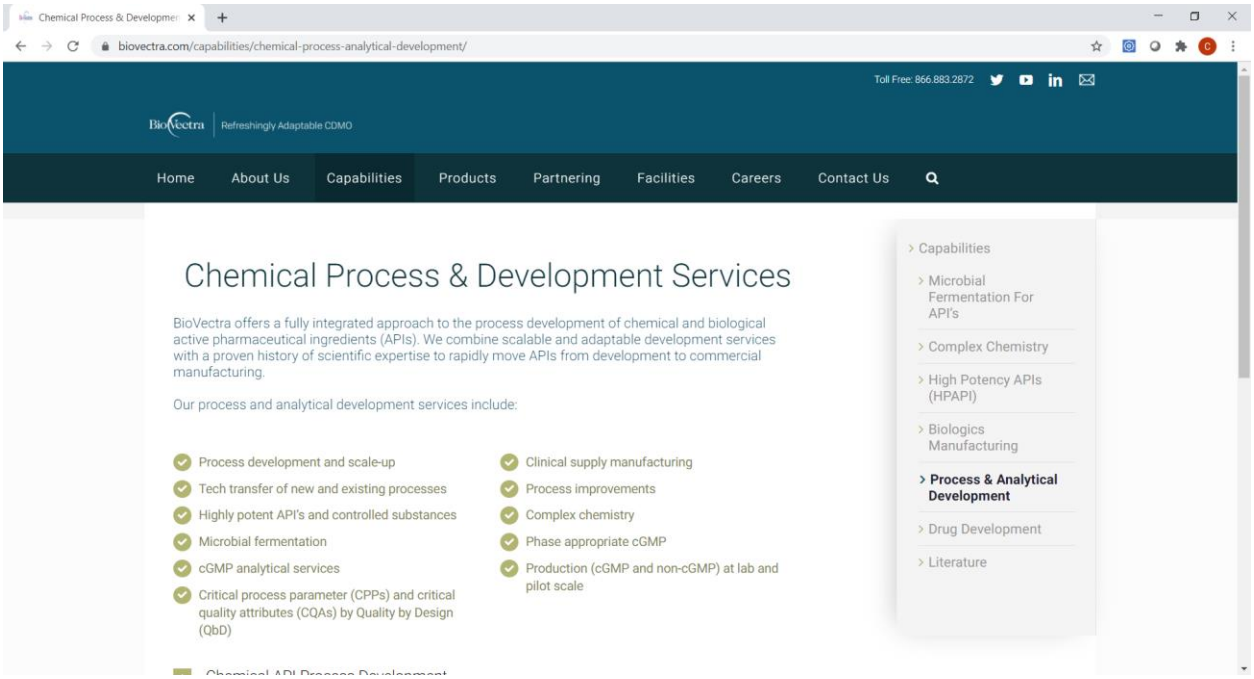
extended by a core focus on natural product syntheses from secondary metabolites produced by microbial fermentation to generate highly complex intermediates and APIs.

Range of Microbes:

- Filamentous bacteria
- Marine based bacteria
- Fungal fermentation
- E. Coli

Downstream Processing:

- Centrifugations
- Lysis
- Purification
- UF/DF
- Synthetic chemistry



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