

Integrated Project Services

# Affordable Innovation

Biotechnology & Vaccines

IPS is a proven leader in the design, construction management, start-up and validation of biotechnology facilities. Our integrated staff of design professionals includes engineers, architects and compliance specialists with extensive design and industry operation experience. We apply this experience, awareness and understanding of industry trends to place importance on time-to-market, plant flexibility and cost control to avoid costly project delays and minimize risk. With the knowledge of the state-of-the-art technologies, industry trends, and regulatory requirements, IPS delivers a final product that ensures client objectives are achieved and that the facility is reliable, operable, flexible, maintainable and validatable.



## We offer:

- A full range of Design/Build, Process/Mechanical Engineering, Construction/Project Management and Compliance and Validation services to create production facilities that meet cGMP, MHRA and EU room classifications and regulatory requirements.
- Working experience with a wide range of products including vaccines, protein therapeutics, whole cell products, industrial enzymes, vitamins, organic acids, amino acids and DNA products.
- Experience with both start-up organizations and major biopharmaceutical companies.
- Bioprocess modeling, optimization, and debottlenecking for capacity expansion and predicting utility demand profiles.
- Design, expansion and support of clean utility systems including USP water, WFI, CIP, SIP and biowaste collection and inactivation.
- Expertise in design, construction and operational excellence in bioreaction systems ranging from simple stirred tank bacterial systems to cell culture perfusion systems.
- Experience with separation and purification operations including centrifugation, membrane separations, chromatography and precipitation.

1.888.366.7660  
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**Affordable Innovation for Manufacturing Technology**  
Engineering • Procurement • Construction Management • Validation

